NM1-63 **OWL Northern** Delaware Basin Landfill Vadose Zone **Monitoring Report** December 23, 2024



December 23, 2024

Mr. Zack Ramos President, NDBL OWL Landfill Services, LLC 2029 W. NM Hwy 128 Jal, NM 88252

Re: 42881.24 Northern Delaware Basin Landfill

Surface Waste Disposal Facility – NMOSE Permit No. NM1-63

Vadose Zone Monitoring Well Data, October 8, 2024, Monitoring Event

Lea County, New Mexico

Dear Mr. Ramos:

Enclosed with this letter are copies of vadose water purging, testing, analytical, and soil vapor field screening data collected from vadose zone monitoring wells at the Northern Delaware Basin Landfill (NDBL) on October 8, 2024 (Exhibit A). Vadose water sample collection, field screening and analysis were triggered by the detection of water in vadose zone monitoring wells VZ-5 and VZ-6 during routine semiannual vadose zone monitoring (Exhibit B). This monitoring event represents the fifth time water has been detected in one or more vadose wells at NDBL in quantities sufficient for sampling, and the third detection of sampleable water in vadose well VZ-6.

Vadose water and soil vapor samples were collected and analyzed in accordance with requirements for Vadose Zone Monitoring set forth in Permit No. NM1-63 (August 17, 2017), and the Vadose Zone Monitoring Plan (Volume II.9) of the October 2016 facility Permit Application. Vadose water samples were collected from Wells VZ-5 and VZ-6, and soil vapor samples were collected from each of the 10 vadose zone wells in the well network (VZ-1 through VZ-10). Vadose water samples were delivered to Eurofins Environment Testing South Central (Eurofins) in Albuquerque, New Mexico on October 9, 2024, and analytical results were received on October 25, 2024.

Results of those soil vapor screenings are provided as Exhibit E. The instrument utilized in soil vapor sampling and analysis (LANDTEC GEM5000) indicated very low levels of hydrogen sulfide in several of the vadose wells as monitoring progressed throughout the monitoring day. The detections of H₂S in vapor samples analyzed are within the instrument's acceptable error of ±2% for this constituent or are a result of instrument drift as it continues to operate through the day and its sensors warm up during use.

VADOSE WATER MONITORING AND MEASUREMENT

Water was detected in vadose wells VZ-4, VZ-5, VZ-6, and VZ-8. Water detected in wells VZ-4 and VZ-8 was insufficient to collect a representative sample (i.e., water column ranging from 2.3 feet to less than 1.25 inches) and is believed to be a result of condensation collecting in the bottom of the well. Samples were collected from wells VZ-5 and VZ-6 and analyzed for Method 8260 volatile organic compounds (VOCs) as well as the list of analytes in the OWL Vadose Zone Monitoring Plan (Volume II.9 of the October 2016 Facility Permit Application). Vadose zone purge notes and field parameter measurements for wells VZ-5 and VZ-6 are provided as Exhibit C, and laboratory analytical results for samples collected on October 8, 2024, are provided as Exhibit D.

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December 17, 2024

Well VZ-5

Consistent with depth to water (DTW) measured on February 23, 2020, May 24, 2023, and October 11, 2023. Analytical results remain consistent with results from samples collected since February 2020, and the water is believed to consist mainly of perched stormwater that regularly percolates through vadose soils and perches atop the largely impenetrable Chinle mudstone strata which are continuous at depths ranging from 35 to 60 feet below ground surface at NDBL.

Well VZ-6

Water was not present in VZ-6 upon installation in August 2019, and was not detected during the February 2020 vadose zone monitoring event by Parkhill. During the May 2023 monitoring event, perched water was detected at a depth of 33.2 feet BTOC. During a follow-up site visit by Parkhill on August 17, 2023, the suspected source of water in well VZ-6 was thought to be a persistent leak from a water supply line which is positioned approximately 50 feet east-northeast of VZ-6. The presence of moisture and indications of leakage from the supply line were observed and brought to the attention of NDBL management. The leak was stopped on August 19, 2023, and the ground surface in the area has remained dry. The supply line originates at the NDBL water supply well (McCloy Well) shown on Exhibit B and terminates at a storage tank used for on- site use (positioned approximately 125 feet north-northeast of the supply well). During the October 2024 monitoring event, perched water was detected at a depth of 56.00 feet BTOC in VZ-6.

Upon review of analytical results obtained from Eurofins on October 25, 2024 (Exhibit D), it was observed that the levels of multiple cations and anions in Well VZ-6 were elevated when compared to results from vadose well VZ-5 and other groundwater in the area. Results were very similar to those obtained during the May and October 2023 monitoring events. These analytes are indicative of normally dry arid desert soils (e.g., vadose zone soils, evaporites, playa deposits) and leaching/mobilization of those constituents by infiltrating surface waters (stormwater accumulation and infiltration) or introduced waters (i.e., leakage). The combination of historical supply line leakage proximal to well VZ-6, substantial seasonal rains over the 4 months preceding the sampling event, and ongoing facility grading and channeling of stormwater have likely contributed to detected and sampled waters found in well VZ-6.

The character of surface drainage on-site at NDBL has likely caused stormwater to accumulate in the vicinity of well VZ-6, and ultimately allows it to infiltrate through the normally dry vadose zone soils and accumulate atop the largely-impermeable Chinle mudstones present at depth ranging from 30 to 60 feet BGS at the NDBL. Additional efforts by facility management to divert stormwater away from the area surrounding well VZ-6 and prevent surface ponding of stormwater should remove another source of accumulated vadose water.

POTENTIAL SOURCES OF VADOSE WATER

Well VZ-5

Well VZ-5 is located in an area immediately adjacent to a natural depression that collects stormwater as a result of natural surface water flow and accumulation during storm events. This results in accumulation of surface water during storm events and subsequent infiltration into the vadose zone. The area is mapped with closed depressions, and aerial photos indicate the presence of well-established green vegetation.

Well VZ-6

Water in well VZ-6 is of very poor (brackish) quality, containing elevated levels of highly soluble and highly mobile cations and anions. Soluble minerals like those detected in vadose water samples have likely been leached from the overlying soils by leaking supply well water and accumulated seasonal stormwater infiltrating through the higher-permeability vadose zone soils and becoming perched atop and within the largely impermeable upper Chinle mudstones which occur site-wide at depths ranging from 30-60 feet BGS. Geology of the vadose zone at ground surface near VZ-6 may also contribute to perched vadose water quality. Surficial geology mapped near well VZ-6 is characterized as windblown fine-grained

Mr. Zack Ramos OWL Landfill Services, LLC Page 3

December 17, 2024

sands, while higher-permeability Ogallala formation sands and gravels are mapped at Well VZ-5. The fine windblown sands which make up much of the vadose soils in the vicinity of VZ-6 have likely been mobilized from surface evaporite deposits, which are prominent in the region as shallow enclosed surface basins (playas), which are high in chloride, sulfate, calcium, magnesium, and sodium. Well VZ-6 is also hydraulically upgradient of the landfill waste disposal area footprint. Additionally, the water sampled from VZ-6 does not contain constituents potentially present in landfill waste (i.e., BTEX, TPH, volatiles, etc.). Therefore, the water sampled from well VZ-6 is not believed to be indicative of impacts from waste operations and is believed to be from a source other than the landfill.

NDBL will continue to monitor all vadose wells on site semiannually for the presence of water, and collect samples when water is detected in sufficient quantities. NDBL will also monitor for leakage in their water supply network, and make efforts to grade the site such that surface water is directed away from VZ-6 to prevent unnecessary infiltration of surface and supply waters into the vadose zone in the vicinity of the well.

Average annual rainfall in the area around NDBL is approximately 13.37 inches per year (1981-2010 average) as reported by the Western Regional Climate Center for the Jal, WIPP and Ochoa Co-op Stations. Two personal weather stations near NDBL (El Capitan and Red Hills) have recorded a 12-month total rainfall of less than 6 inches of precipitation through September 2024, which is significantly lower than annual average, but the Red Hills Station recorded a wetter than typical June through September (Exhibit F).

As required by 19.15.36.13.L.(1), NDBL has performed monthly inspection of the facility's leak detection sumps, and all have been found to be dry.

If you have any questions regarding this transmittal, feel free to contact me at 505.504.7765.

Sincerely,

PARKHILL

Andy N. Yuhas, PG Professional Geologist

ANY/pg Enclosures:

Exhibit A: Site Location Map

Exhibit B: Site Plan/VZM Network Map

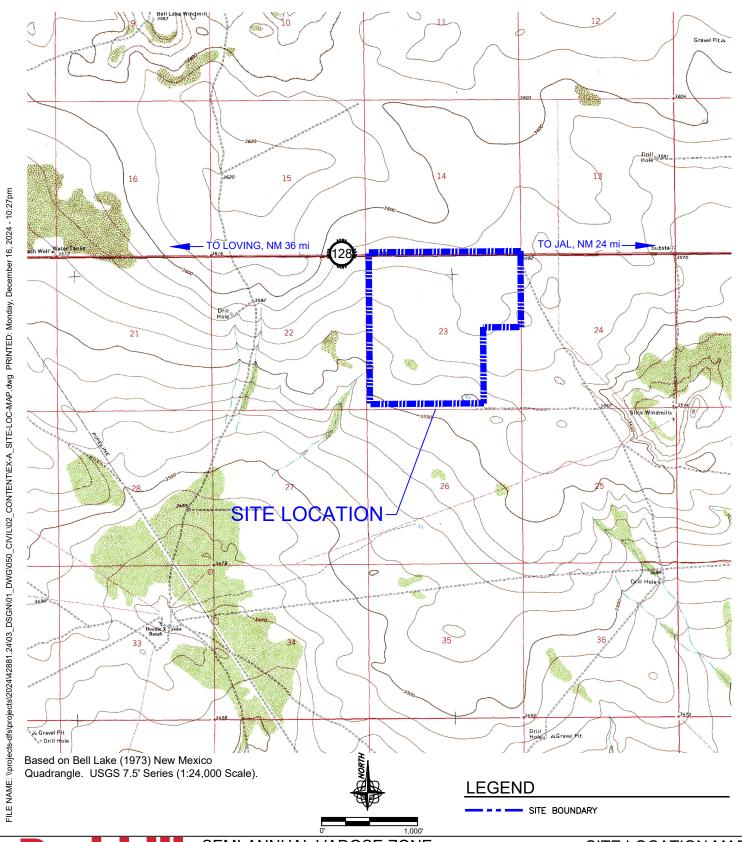
Exhibit C: VZM Purge Notes and Field Parameters

Exhibit D: Eurofins Environment Testing South Central Analytical Report

Exhibit E: VZM Well 1-10 Soil Vapor Screening Results Exhibit F: Nearby Weather Station Precipitation Data

cc: Mr. Tyler Krueger, PE, Associate, Parkhill

EXHIBIT A: SITE LOCATION MAP



Parkhill

SEMI-ANNUAL VADOSE ZONE MONITORING

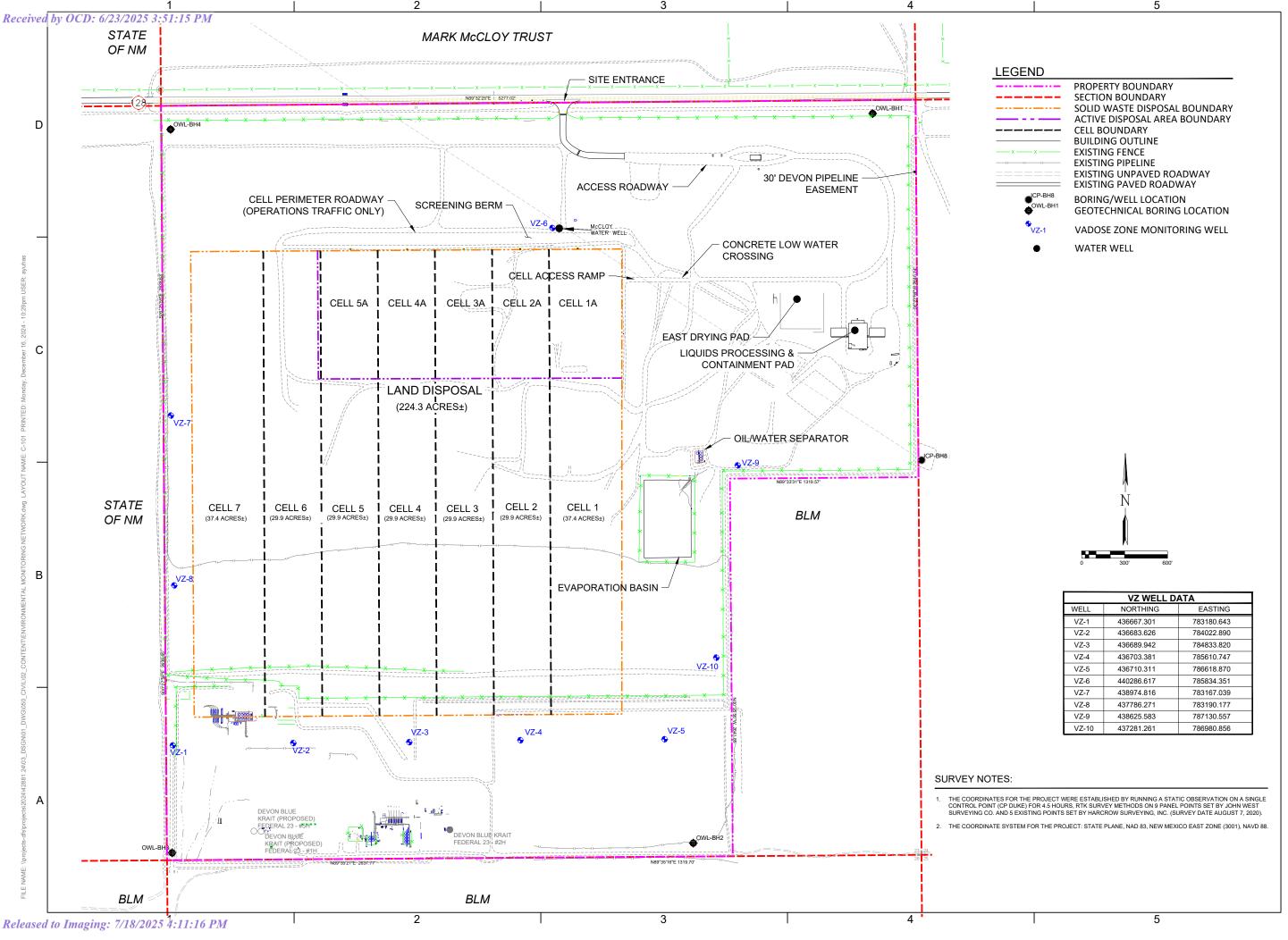
Parkhill.com

OWL NDBL SWMF JAL, NEW MEXICO SITE LOCATION MAP

Date: 12/15/2024
Project No: 42881.24
Sheet: EXHIBIT A

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EXHIBIT B: SITE PLAN/VZM NETWORK MAP





IL REPORTS, DRAWINGS, SPECIFICATIONS, COMPUTER FILES, FIELD DATA, NOTES THER DOCUMENTS PREPARED BY THE ENGINEER AS INSTRUMENTS OF SERVICE S ENGINE THE PROPERTY OF THE ENGINEER THE ENGINEER SHALL RETAIN ALL COM IW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT THE

OWL NDBL SWMF ENVIRONMENTAL MONITORING NETWORK



OWL LANDFILL SERVICES, LLC. 2029 W. NM Hwy 128 JAL, NM 88252 LEA COUNTY

DJECT NO.

42881.24

1 10/08/2024 MONITORING REPORT

DATE DESCRIPTION

SITE PLAN/ VZM NETWORK MAP

EXHIBIT B

EXHIBIT C: VZM PURGE NOTES AND FIELD PARAMETERS

Groundwater Monitoring Field Notes

Site: OWL NDBL SWMF	Well ID:	Well ID: 1/2-5	*	,		Date: 100/18 (2)
Samplers: Ay	Depth-to-water: 43,40	43.40			Ambient	Ambient Temperature: 70° F
Observers:	Total Depth: 56,50	56,50			Wind Dir	Wind Direction/Speed: Oulm
Site/Well Condition:	Measured from: Mork on PVC	Mork	on Arc	1	Recent	Recent Precipitation:
Sampling Method: BAILER						
One Well $(999) - 4340$ $= 13.70$ feet	Time	Gallons Removed	ů ပ	Hd	SC Aunity A.S.	Observations
ell coli	2260	0,5	21.3	2,8	623	douby no ode
$\frac{ \mathcal{S}_{1} }{(\text{Well Column} \times 0.163)} = \frac{\mathcal{L}_{1}/\mathcal{L}}{1 \text{ well-volume}}$ gallons	1260	/	2.0	22	603	151
Three Well $x = 6.42$ gallons	2560	2	0.12	28	601)
1 well-volume x 3 = 3 well-volumes	6934	25	21.1	8	597	
Equipment Information						
Bailer or HydraSleeve" New or Previously Installed Twine						
Capacity/Length: 1 L / 36" New? Y or Material/Source Appx Length 5 C						
Material/Sourc						
Notes: Sample Ting 0935						
			s.			
Field Blank:						

Dupe:_ Filtered:_

Name

Groundwater Monitoring Field Notes

Well ID: V26	Depth-to-water: 56.00 Ambient Temperature: 75 Total Depth: 62.00 Wind Direction/Speed: Calm	erpe		Time Gallons °C pH SC Observations	1130 16 22.6 7.0 7.24 dr. no odru	135 22 21.3 72	(137 32 20,8 7,1 6.83	1140 96 21,6 7.3 6.83 -11	1143 62 21.172 6.89	26'9 Ex 1.02 78 hall						Sampler(s): HVDA YUKAS	Name
Site: OWL NDBL SWMF	Samplers: Hy Observers:	Site/Well Condition: Good Epol	Sampling Method: BAILER	One Well $(62.00.56.00) = 6.00$ feet	ټپ	$\frac{\text{lb.lb}}{\text{(Well Column x 0.163)}} = \frac{0.99}{1 \text{ well-volume}}$ gallons	Three Well $0.99 \times 3 = 0.97$ gallons	1 well-volume x 3 = 3 well-volumes	Equipment Information	Bailer of HydraSleeve" New of Previously Installed Twine	Capacity/Length: 1L/36" New Y or N Material/Source	Material/Source.	Notes: Had See Control	Sumo	Field Blank:	Dupe: Filtered:	

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EXHIBIT D: EUROFINS ENVIRONMENT TESTING SOUTH CENTRAL ANALYTICAL REPORT

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Andy Yuhas Parkhill 333 Rio Rancho Blvd. N.E., Suite 400 Suite 400

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Rio Rancho, New Mexico 87124

JOB DESCRIPTION

NDBL Vadose Sampling

JOB NUMBER

885-13532-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

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Authorized for release by Jackie Bolte, Project Manager jackie.bolte@et.eurofinsus.com (505)345-3975 2

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Laboratory Job ID: 885-13532-1

Client: Parkhill Project/Site: NDBL Vadose Sampling

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Definitions/Glossary

Client: Parkhill Job ID: 885-13532-1

Project/Site: NDBL Vadose Sampling

Qualifiers

GC/MS VOA

Qualifier **Qualifier Description**

Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

HPLC/IC

Qualifier **Qualifier Description**

 $\overline{\mathsf{H}}$ Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements. Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier **Qualifier Description**

Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier **Qualifier Description**

HF Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery Contains Free Liquid CFL **CFU** Colony Forming Unit CNF Contains No Free Liquid

Duplicate Error Ratio (normalized absolute difference) **DER**

Dil Fac **Dilution Factor**

DΙ Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

Estimated Detection Limit (Dioxin) FDI LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number MQI Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

PRES Presumptive QC **Quality Control**

Relative Error Ratio (Radiochemistry) **RER**

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: Parkhill Job ID: 885-13532-1

Project: NDBL Vadose Sampling

Job ID: 885-13532-1 **Eurofins Albuquerque**

Job Narrative 885-13532-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 10/9/2024 1:24 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.7°C.

GC/MS VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300 OF 48H PREC: The following sample(s) was received by wet chemistry with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: VŽ-5 (885-13532-1) and VZ-6 (885-13532-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client: Parkhill Job ID: 885-13532-1

Project/Site: NDBL Vadose Sampling

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Lab Sample ID: 885-13532-1 **Client Sample ID: VZ-5** Date Collected: 10/08/24 09:35

Matrix: Water

Date Received: 10/09/24 13:24

Analyte	Result Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fa
1,1,1,2-Tetrachloroethane	<0.266	1.00	0.266	ug/L			10/21/24 13:20	
1,1,1-Trichloroethane	<0.0811	1.00	0.0811	ug/L			10/21/24 13:20	
1,1,2,2-Tetrachloroethane	<0.273	2.00	0.273	ug/L			10/21/24 13:20	
1,1,2-Trichloroethane	<0.198	1.00	0.198	ug/L			10/21/24 13:20	
1,1-Dichloroethane	<0.304	1.00	0.304	ug/L			10/21/24 13:20	
1,1-Dichloroethene	<0.201	1.00	0.201	ug/L			10/21/24 13:20	
1,1-Dichloropropene	<0.179	1.00	0.179	ug/L			10/21/24 13:20	
1,2,3-Trichlorobenzene	<0.249	1.00	0.249	ug/L			10/21/24 13:20	
1,2,3-Trichloropropane	<0.160	2.00	0.160	ug/L			10/21/24 13:20	
1,2,4-Trichlorobenzene	<0.400	1.00	0.400	ug/L			10/21/24 13:20	
1,2,4-Trimethylbenzene	<0.122	1.00	0.122	ug/L			10/21/24 13:20	
1,2-Dibromo-3-Chloropropane	<0.587	2.00	0.587	-			10/21/24 13:20	
1,2-Dibromoethane (EDB)	<0.304	1.00	0.304	ug/L			10/21/24 13:20	
1,2-Dichlorobenzene	<0.155	1.00	0.155	ug/L			10/21/24 13:20	
1,2-Dichloroethane (EDC)	<0.302	1.00	0.302	-			10/21/24 13:20	
1,2-Dichloropropane	<0.200	1.00	0.200				10/21/24 13:20	
1,3,5-Trimethylbenzene	<0.182	1.00	0.182	-			10/21/24 13:20	
1,3-Dichlorobenzene	<0.161	1.00	0.161	-			10/21/24 13:20	
1,3-Dichloropropane	<0.181	1.00	0.181				10/21/24 13:20	
1,4-Dichlorobenzene	<0.103	1.00	0.103	-			10/21/24 13:20	
1-Methylnaphthalene	<2.00	4.00		ug/L			10/21/24 13:20	
2,2-Dichloropropane	<0.261	2.00	0.261				10/21/24 13:20	
2-Butanone	<2.03	10.0		ug/L			10/21/24 13:20	
2-Chlorotoluene	<0.132	1.00	0.132	-			10/21/24 13:20	
2-Hexanone	<1.79	10.0		ug/L			10/21/24 13:20	
2-Methylnaphthalene	<2.00	4.00		ug/L			10/21/24 13:20	
4-Chlorotoluene	<0.135	1.00	0.135	Ū			10/21/24 13:20	
4-Isopropyltoluene	<0.202	1.00	0.202				10/21/24 13:20	
4-Methyl-2-pentanone	<1.50	10.0		ug/L			10/21/24 13:20	
Acetone	<2.52	10.0		ug/L			10/21/24 13:20	
Benzene	<0.227	1.00	0.227				10/21/24 13:20	
Bromobenzene	<0.284	1.00	0.284	-			10/21/24 13:20	
Bromodichloromethane	<0.203	1.00	0.203	-			10/21/24 13:20	
Dibromochloromethane	<0.284	1.00	0.284				10/21/24 13:20	
Bromoform	<0.315	1.00	0.315	-			10/21/24 13:20	
Bromomethane	<1.00	3.00		ug/L			10/21/24 13:20	
Carbon disulfide	<1.00	10.0		ug/L			10/21/24 13:20	
Carbon tetrachloride	<0.175	1.00	0.175				10/21/24 13:20	
Chlorobenzene	<0.458	1.00	0.458	-			10/21/24 13:20	
Chloroethane	<0.377	2.00	0.430				10/21/24 13:20	
Chloroform	<0.250	1.00	0.250				10/21/24 13:20	
Chloromethane	<0.410	3.00	0.410	-			10/21/24 13:20	
cis-1,2-Dichloroethene	<0.388	1.00	0.388				10/21/24 13:20	
cis-1,3-Dichloropropene	<0.115	1.00	0.366	-			10/21/24 13:20	
Dibromomethane	<0.309	1.00		-			10/21/24 13:20	
Dichlorodifluoromethane			0.309					
	<0.256	1.00	0.256	-			10/21/24 13:20	
Ethylbenzene	<0.213	1.00	0.213	-			10/21/24 13:20	
Hexachlorobutadiene Isopropylbenzene	<0.417 <0.183	1.00	0.417 0.183				10/21/24 13:20 10/21/24 13:20	

Job ID: 885-13532-1

Project/Site: NDBL Vadose Sampling

Client Sample ID: VZ-5

Released to Imaging: 7/18/2025 4:11:16 PM

Lab Sample ID: 885-13532-1

Matrix: Water

Date Collected: 10/08/24 09:35 Date Received: 10/09/24 13:24

Client: Parkhill

Method: SW846 8260B - Volati	_	0			1114	_	B	A 1	D:: -
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	<0.393		1.00	0.393	-			10/21/24 13:20	1
Methylene Chloride	<1.24		2.50		ug/L			10/21/24 13:20	
n-Butylbenzene	<0.125		3.00	0.125	-			10/21/24 13:20	1
N-Propylbenzene	<0.109		1.00	0.109	_			10/21/24 13:20	1
Naphthalene	<0.240		2.00	0.240	ug/L			10/21/24 13:20	1
sec-Butylbenzene	<0.144		1.00	0.144	-			10/21/24 13:20	1
Styrene	<0.136		1.00	0.136	ug/L			10/21/24 13:20	1
tert-Butylbenzene	<0.244		1.00	0.244	ug/L			10/21/24 13:20	1
Tetrachloroethene (PCE)	<0.178		1.00	0.178	ug/L			10/21/24 13:20	1
Toluene	< 0.250		1.00	0.250	ug/L			10/21/24 13:20	1
trans-1,2-Dichloroethene	< 0.193		1.00	0.193	ug/L			10/21/24 13:20	1
trans-1,3-Dichloropropene	< 0.339		1.00	0.339	ug/L			10/21/24 13:20	1
Trichloroethene (TCE)	< 0.204		1.00	0.204	ug/L			10/21/24 13:20	1
Trichlorofluoromethane	<0.159		1.00	0.159	ug/L			10/21/24 13:20	1
Vinyl chloride	<0.320		1.00	0.320	ug/L			10/21/24 13:20	1
Xylenes, Total	<0.374		1.50	0.374	_			10/21/24 13:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 130					10/21/24 13:20	1
Toluene-d8 (Surr)	99		70 - 130					10/21/24 13:20	1
* *	103		70 - 130					10/21/24 13:20	1
4-Bromotiuoropenzene (Surr)								10/21/24 13:20	1
Dibromofluoromethane (Surr) Method: SW846 8015D - Gaso Analyte	Result	Organics (RL		Unit	<u>D</u>	Prepared	Analyzed	
Dibromofluoromethane (Surr) Method: SW846 8015D - Gaso Analyte	line Range	•	GRO) (GC)	MDL 0.0132		<u>D</u>	Prepared		
4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) Method: SW846 8015D - Gaso Analyte Gasoline Range Organics [C6 - C10] Surrogate	line Range Result	Qualifier	GRO) (GC) RL 0.0500			<u>D</u>	Prepared Prepared	Analyzed	1
Dibromofluoromethane (Surr) Method: SW846 8015D - Gaso Analyte Gasoline Range Organics [C6 - C10]	Result <0.0132	Qualifier	GRO) (GC) RL 0.0500			<u>D</u>		Analyzed 10/11/24 22:39	1
Dibromofluoromethane (Surr) Method: SW846 8015D - Gaso Analyte Gasoline Range Organics [C6 - C10] Surrogate	Result <0.0132 **Recovery 109	Qualifier Qualifier	GRO) (GC) RL 0.0500 Limits 15 - 270			<u> </u>		Analyzed 10/11/24 22:39 Analyzed	1
Method: SW846 8015D - Gaso Analyte Gasoline Range Organics [C6 - C10] Surrogate 4-Bromofluorobenzene (Surr) Method: SW846 8015D - Diese Analyte	Result <0.0132 **Recovery 109 Range Organization Control Control Result Re	Qualifier Qualifier	GRO) (GC) RL 0.0500 Limits 15 - 270	0.0132		<u>D</u>		Analyzed 10/11/24 22:39 Analyzed	Dil Fac
Method: SW846 8015D - Gaso Analyte Gasoline Range Organics [C6 - C10] Surrogate 4-Bromofluorobenzene (Surr) Method: SW846 8015D - Diese	Result <0.0132 **Recovery 109 Range Organization Control Control Result Re	Qualifier Qualifier ganics (DR	GRO) (GC) RL 0.0500 Limits 15 - 270 RO) (GC)	0.0132	mg/L		Prepared	Analyzed 10/11/24 22:39 Analyzed 10/11/24 22:39	Dil Fac
Method: SW846 8015D - Gaso Analyte Gasoline Range Organics [C6 - C10] Surrogate 4-Bromofluorobenzene (Surr) Method: SW846 8015D - Diese Analyte Diesel Range Organics [C10-C28]	Result <0.0132 **Recovery 109 Result Result	Qualifier Qualifier ganics (DR	GRO) (GC) RL 0.0500 Limits 15 - 270 RO) (GC) RL	0.0132 MDL 0.580	mg/L Unit		Prepared Prepared	Analyzed 10/11/24 22:39 Analyzed 10/11/24 22:39 Analyzed	Dil Fac
Method: SW846 8015D - Gaso Analyte Gasoline Range Organics [C6 - C10] Surrogate 4-Bromofluorobenzene (Surr) Method: SW846 8015D - Diese Analyte	Result <0.0132 %Recovery 109 Pl Range Org Result <0.580	Qualifier Qualifier ganics (DR	GRO) (GC) RL 0.0500 Limits 15 - 270 RO) (GC) RL 1.00	0.0132 MDL 0.580	mg/L Unit mg/L		Prepared 10/11/24 11:11	Analyzed 10/11/24 22:39 Analyzed 10/11/24 22:39 Analyzed 10/11/24 15:03	Dil Fac
Method: SW846 8015D - Gaso Analyte Gasoline Range Organics [C6 - C10] Surrogate 4-Bromofluorobenzene (Surr) Method: SW846 8015D - Diese Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40]	Result <0.0132 %Recovery 109 El Range Org Result <0.580 <1.30	Qualifier Qualifier ganics (DR Qualifier	GRO) (GC) RL 0.0500 Limits 15 - 270 RO) (GC) RL 1.00 5.00	0.0132 MDL 0.580	mg/L Unit mg/L		Prepared 10/11/24 11:11 10/11/24 11:11	Analyzed 10/11/24 22:39 Analyzed 10/11/24 22:39 Analyzed 10/11/24 15:03 10/11/24 15:03	Dil Fac
Method: SW846 8015D - Gaso Analyte Gasoline Range Organics [C6 - C10] Surrogate 4-Bromofluorobenzene (Surr) Method: SW846 8015D - Diese Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions, I	line Range Result <0.0132 %Recovery 109 el Range Org Result <0.580 <1.30 %Recovery 99 on Chromat	Qualifier Qualifier ganics (DR Qualifier Qualifier	CGRO) (GC) RL 0.0500 Limits 15 - 270 RO) (GC) RL 1.00 5.00 Limits 46 - 159	0.0132 MDL 0.580 1.30	mg/L mg/L mg/L	<u>D</u>	Prepared 10/11/24 11:11 10/11/24 11:11 Prepared 10/11/24 11:11	Analyzed 10/11/24 22:39 Analyzed 10/11/24 22:39 Analyzed 10/11/24 15:03 10/11/24 15:03 Analyzed 10/11/24 15:03	Dil Fac
Method: SW846 8015D - Gaso Analyte Gasoline Range Organics [C6 - C10] Surrogate 4-Bromofluorobenzene (Surr) Method: SW846 8015D - Diese Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions, I Analyte	line Range Result <0.0132 %Recovery 109 el Range Org Result <0.580 <1.30 %Recovery 99 on Chromat Result	Qualifier Qualifier ganics (DR Qualifier Qualifier	CGRO) (GC) RL 0.0500 Limits 15 - 270 RO) (GC) RL 1.00 5.00 Limits 46 - 159 RL	0.0132 MDL 0.580 1.30	mg/L mg/L mg/L		Prepared 10/11/24 11:11 10/11/24 11:11 Prepared	Analyzed 10/11/24 22:39 Analyzed 10/11/24 22:39 Analyzed 10/11/24 15:03 10/11/24 15:03 Analyzed 10/11/24 15:03 Analyzed 10/11/24 15:03	Dil Fac
Method: SW846 8015D - Gaso Analyte Gasoline Range Organics [C6 - C10] Surrogate 4-Bromofluorobenzene (Surr) Method: SW846 8015D - Diese Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions, I Analyte Chloride	line Range Result <0.0132 %Recovery 109 Pl Range Ore Result <0.580 <1.30 %Recovery 99 on Chromate Result 4.44	Qualifier Qualifier ganics (DR Qualifier Qualifier	Carlo Carl	0.0132 MDL 0.580 1.30 MDL 0.250	Unit mg/L mg/L	<u>D</u>	Prepared 10/11/24 11:11 10/11/24 11:11 Prepared 10/11/24 11:11	Analyzed 10/11/24 22:39 Analyzed 10/11/24 22:39 Analyzed 10/11/24 15:03 10/11/24 15:03 Analyzed 10/11/24 15:03 Analyzed 10/11/24 15:03	Dil Fac
Method: SW846 8015D - Gaso Analyte Gasoline Range Organics [C6 - C10] Surrogate 4-Bromofluorobenzene (Surr) Method: SW846 8015D - Diese Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions, I Analyte	Result <0.0132 %Recovery 109 Pl Range Orgensult <0.580 <1.30 %Recovery 99 on Chromate Result 4.44 2.71	Qualifier Qualifier Qualifier Qualifier Qualifier Qualifier	Carlo Carl	MDL 0.580 1.30 MDL 0.250 0.0460	Unit mg/L mg/L mg/L mg/L mg/L	<u>D</u>	Prepared 10/11/24 11:11 10/11/24 11:11 Prepared 10/11/24 11:11	Analyzed 10/11/24 22:39 Analyzed 10/11/24 22:39 Analyzed 10/11/24 15:03 10/11/24 15:03 Analyzed 10/11/24 15:03 Analyzed 10/11/24 15:03	Dil Fac
Method: SW846 8015D - Gaso Analyte Gasoline Range Organics [C6 - C10] Surrogate 4-Bromofluorobenzene (Surr) Method: SW846 8015D - Diese Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions, I Analyte Chloride Fluoride	line Range Result <0.0132 %Recovery 109 Pl Range Ore Result <0.580 <1.30 %Recovery 99 on Chromate Result 4.44	Qualifier Qualifier Qualifier Qualifier Qualifier Qualifier	Carlo Carl	0.0132 MDL 0.580 1.30 MDL 0.250	Unit mg/L mg/L mg/L mg/L mg/L	<u>D</u>	Prepared 10/11/24 11:11 10/11/24 11:11 Prepared 10/11/24 11:11	Analyzed 10/11/24 22:39 Analyzed 10/11/24 22:39 Analyzed 10/11/24 15:03 10/11/24 15:03 Analyzed 10/11/24 15:03 Analyzed 10/11/24 15:03	Dil Fac
Method: SW846 8015D - Gaso Analyte Gasoline Range Organics [C6 - C10] Surrogate 4-Bromofluorobenzene (Surr) Method: SW846 8015D - Diese Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions, I Analyte Chloride Fluoride Orthophosphate as P	Result <0.0132 %Recovery 109 Pl Range Orgensult <0.580 <1.30 %Recovery 99 on Chromate Result 4.44 2.71	Qualifier Qualifier ganics (DR Qualifier Qualifier	Carlo Carl	MDL 0.580 1.30 MDL 0.250 0.0460	Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L	<u>D</u>	Prepared 10/11/24 11:11 10/11/24 11:11 Prepared 10/11/24 11:11	Analyzed 10/11/24 22:39 Analyzed 10/11/24 22:39 Analyzed 10/11/24 15:03 10/11/24 15:03 Analyzed 10/11/24 15:03 Analyzed 10/11/24 15:03	Dil Fac
Method: SW846 8015D - Gaso Analyte Gasoline Range Organics [C6 - C10] Surrogate 4-Bromofluorobenzene (Surr) Method: SW846 8015D - Diese Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions, I Analyte Chloride	Result	Qualifier Qualifier ganics (DR Qualifier Qualifier	GRO) (GC) RL 0.0500	MDL 0.580 1.30 MDL 0.250 0.0460 0.250	Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L	<u>D</u>	Prepared 10/11/24 11:11 10/11/24 11:11 Prepared 10/11/24 11:11	Analyzed 10/11/24 22:39 Analyzed 10/11/24 22:39 Analyzed 10/11/24 15:03 10/11/24 15:03 Analyzed 10/11/24 15:03 Analyzed 10/11/24 17:11 10/10/24 17:11 10/10/24 17:11	Dil Fac
Method: SW846 8015D - Gaso Analyte Gasoline Range Organics [C6 - C10] Surrogate 4-Bromofluorobenzene (Surr) Method: SW846 8015D - Diese Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions, I Analyte Chloride Fluoride Orthophosphate as P Nitrate Nitrite as N	Result <0.580 <1.30	Qualifier Qualifier ganics (DR Qualifier Qualifier tography Qualifier H	RO) (GC) RL 0.0500 Limits 15 - 270 RO) (GC) RL 1.00 5.00 Limits 46 - 159 RL 0.500 0.100 0.500 1.00 0.500	MDL 0.580 1.30 MDL 0.250 0.0460 0.250 0.112 0.250	Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	<u>D</u>	Prepared 10/11/24 11:11 10/11/24 11:11 Prepared 10/11/24 11:11 Prepared	Analyzed 10/11/24 22:39 Analyzed 10/11/24 22:39 Analyzed 10/11/24 15:03 10/11/24 15:03 Analyzed 10/11/24 15:03 Analyzed 10/11/24 15:03 Analyzed 10/10/24 17:11 10/10/24 17:11 10/10/24 17:11 10/10/24 17:11	Dil Fac
Method: SW846 8015D - Gaso Analyte Gasoline Range Organics [C6 - C10] Surrogate 4-Bromofluorobenzene (Surr) Method: SW846 8015D - Diese Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions, I Analyte Chloride Fluoride Orthophosphate as P Nitrate Nitrite as N Sulfate Method: SW846 6010B - Metal Analyte	Result	Qualifier Qualifier ganics (DR Qualifier Qualifier tography Qualifier H	RO) (GC) RL 0.0500 Limits 15 - 270 RO) (GC) RL 1.00 5.00 Limits 46 - 159 RL 0.500 0.100 0.500 1.00 0.500 rable RL	MDL 0.580 1.30 MDL 0.250 0.0460 0.250 0.112 0.250 MDL	Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	<u>D</u>	Prepared 10/11/24 11:11 10/11/24 11:11 Prepared 10/11/24 11:11 Prepared	Analyzed 10/11/24 22:39 Analyzed 10/11/24 22:39 Analyzed 10/11/24 15:03 10/11/24 15:03 Analyzed 10/11/24 15:03 Analyzed 10/11/24 17:11 10/10/24 17:11 10/10/24 17:11 10/14/24 22:41 10/10/24 17:11	Dil Fac
Method: SW846 8015D - Gaso Analyte Gasoline Range Organics [C6 - C10] Surrogate 4-Bromofluorobenzene (Surr) Method: SW846 8015D - Diese Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions, I Analyte Chloride Fluoride Orthophosphate as P Nitrate Nitrite as N Sulfate Method: SW846 6010B - Metal Analyte	Result <0.580 <1.30	Qualifier Qualifier ganics (DR Qualifier Qualifier tography Qualifier H	RO) (GC) RL 0.0500 Limits 15 - 270 RO) (GC) RL 1.00 5.00 Limits 46 - 159 RL 0.500 0.100 0.500 1.00 0.500 rable	MDL 0.580 1.30 MDL 0.250 0.0460 0.250 0.112 0.250	Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	<u>D</u>	Prepared 10/11/24 11:11 10/11/24 11:11 Prepared 10/11/24 11:11 Prepared	Analyzed 10/11/24 22:39 Analyzed 10/11/24 22:39 Analyzed 10/11/24 15:03 10/11/24 15:03 Analyzed 10/11/24 15:03 Analyzed 10/11/24 17:11 10/10/24 17:11 10/10/24 17:11 10/14/24 22:41 10/10/24 17:11	Dil Fac
Method: SW846 8015D - Gaso Analyte Gasoline Range Organics [C6 - C10] Surrogate 4-Bromofluorobenzene (Surr) Method: SW846 8015D - Diese Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C28-C40] Surrogate Di-n-octyl phthalate (Surr) Method: EPA 300.0 - Anions, I Analyte Chloride Fluoride Orthophosphate as P Nitrate Nitrite as N Sulfate	Result	Qualifier Qualifier ganics (DR Qualifier Qualifier tography Qualifier H	RO) (GC) RL 0.0500 Limits 15 - 270 RO) (GC) RL 1.00 5.00 Limits 46 - 159 RL 0.500 0.100 0.500 1.00 0.500 rable RL	MDL 0.580 1.30 MDL 0.250 0.0460 0.250 0.112 0.250 MDL	Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	<u>D</u>	Prepared 10/11/24 11:11 10/11/24 11:11 Prepared 10/11/24 11:11 Prepared	Analyzed 10/11/24 22:39 Analyzed 10/11/24 22:39 Analyzed 10/11/24 15:03 10/11/24 15:03 Analyzed 10/11/24 15:03 Analyzed 10/11/24 17:11 10/10/24 17:11 10/10/24 17:11 10/14/24 22:41 10/10/24 17:11	Dil Fac

Eurofins Albuquerque

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Client Sample Results

Client: Parkhill Job ID: 885-13532-1

Project/Site: NDBL Vadose Sampling

Released to Imaging: 7/18/2025 4:11:16 PM

Client Sample ID: VZ-5 Lab Sample ID: 885-13532-1

Date Collected: 10/08/24 09:35 Matrix: Water

Date Received: 10/09/24 13:24								IVIALI IX.	. wate
Method: SW846 6010B - Metals	s (ICP) - To	tal Recove	rable (Coi	ntinued)					
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Silver	<0.00130		0.00500	0.00130	mg/L		10/11/24 10:02	10/14/24 09:28	
Calcium	72.3		1.00	0.0461	mg/L		10/11/24 10:02	10/14/24 09:28	
Iron	7.51		0.500	0.260	mg/L		10/11/24 10:02	10/14/24 09:31	1
Magnesium	24.0		1.00	0.110	mg/L		10/11/24 10:02	10/14/24 09:28	
Potassium	5.95		1.00	0.160	mg/L		10/11/24 10:02	10/14/24 09:28	
Sodium	13.3		1.00	0.460	mg/L		10/11/24 10:02	10/14/24 09:28	
Method: SW846 6020A - Metals	s (ICP/MS)	- Total Rec	overable						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Arsenic	0.0171		0.0100	0.00500	mg/L		10/11/24 10:02	10/17/24 12:03	1
Lead	<0.00600		0.0100	0.00600	mg/L		10/11/24 10:02	10/17/24 12:03	1
Selenium	<0.00800		0.0100	0.00800	mg/L		10/11/24 10:02	10/17/24 12:03	1
Method: SW846 7470A - Mercu	ıry (CVAA)								
Analyte	• • •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Mercury	<0.000120		0.000200	0.000120	mg/L		10/14/24 13:17	10/15/24 17:31	
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total Dissolved Solids (SM 2540C)	336		50.0	25.0	mg/L			10/14/24 16:00	
Specific Conductance (SM 2510B)	466		10.0	10.0	umhos/cm			10/15/24 16:41	
pH (SM 4500 H+ B)	8.0	HE	0.1	0.1	SU			10/15/24 16:41	

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Client Sample Results

Client: Parkhill Job ID: 885-13532-1

Project/Site: NDBL Vadose Sampling

Released to Imaging: 7/18/2025 4:11:16 PM

Lab Sample ID: 885-13532-2 Client Sample ID: VZ-6

Date Collected: 10/08/24 11:45 **Matrix: Water** Date Received: 10/09/24 13:24

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1,2-Tetrachloroethane	<0.266	1.00	0.266	ug/L		-	10/21/24 13:48	-
1,1,1-Trichloroethane	<0.0811	1.00	0.0811	ug/L			10/21/24 13:48	
1,1,2,2-Tetrachloroethane	<0.273	2.00	0.273	ug/L			10/21/24 13:48	
1,1,2-Trichloroethane	<0.198	1.00	0.198	ug/L			10/21/24 13:48	
I,1-Dichloroethane	<0.304	1.00	0.304	ug/L			10/21/24 13:48	
I,1-Dichloroethene	<0.201	1.00	0.201	ug/L			10/21/24 13:48	
1,1-Dichloropropene	<0.179	1.00	0.179	ug/L			10/21/24 13:48	
1,2,3-Trichlorobenzene	<0.249	1.00	0.249	-			10/21/24 13:48	
I,2,3-Trichloropropane	<0.160	2.00	0.160	ug/L			10/21/24 13:48	
I,2,4-Trichlorobenzene	<0.400	1.00	0.400				10/21/24 13:48	
1,2,4-Trimethylbenzene	<0.122	1.00	0.122	-			10/21/24 13:48	
1,2-Dibromo-3-Chloropropane	<0.587	2.00	0.587	-			10/21/24 13:48	
1,2-Dibromoethane (EDB)	<0.304	1.00	0.304				10/21/24 13:48	
1,2-Dichlorobenzene	<0.155	1.00	0.155	-			10/21/24 13:48	
1,2-Dichloroethane (EDC)	<0.302	1.00	0.302	-			10/21/24 13:48	
1,2-Dichloropropane	<0.200	1.00	0.200				10/21/24 13:48	
1,3,5-Trimethylbenzene	<0.182	1.00	0.182	-			10/21/24 13:48	
I,3-Dichlorobenzene	<0.161	1.00	0.161	-			10/21/24 13:48	
1,3-Dichloropropane	<0.181	1.00	0.181				10/21/24 13:48	
,4-Dichlorobenzene	<0.103	1.00	0.103	-			10/21/24 13:48	
l-Methylnaphthalene	<2.00	4.00		ug/L			10/21/24 13:48	
2,2-Dichloropropane	<0.261	2.00	0.261				10/21/24 13:48	
2-Butanone	<2.03	10.0		ug/L			10/21/24 13:48	
2-Chlorotoluene	<0.132	1.00	0.132	-			10/21/24 13:48	
2-Hexanone	<1.79	10.0		ug/L			10/21/24 13:48	
2-Methylnaphthalene	<2.00	4.00		ug/L			10/21/24 13:48	
I-Chlorotoluene	<0.135	1.00	0.135	-			10/21/24 13:48	
-Isopropyltoluene	<0.202	1.00	0.202				10/21/24 13:48	
I-Methyl-2-pentanone	<1.50	10.0		ug/L			10/21/24 13:48	
Acetone	3.03 J	10.0		ug/L			10/21/24 13:48	
Benzene	<0.227	1.00	0.227				10/21/24 13:48	
Bromobenzene	<0.284	1.00	0.284	-			10/21/24 13:48	
Bromodichloromethane	<0.203	1.00	0.203	-			10/21/24 13:48	
Dibromochloromethane	<0.284	1.00	0.284				10/21/24 13:48	
Bromoform	<0.315	1.00	0.315	-			10/21/24 13:48	
Bromomethane	<1.00	3.00		ug/L			10/21/24 13:48	
Carbon disulfide	<1.00	10.0		ug/L			10/21/24 13:48	· · · · · · .
Carbon tetrachloride	<0.175	1.00					10/21/24 13:48	
	<0.175	1.00	0.175	-			10/21/24 13:48	
Chlorobenzene Chloroethane			0.458 0.377					
Chloroform	<0.377	2.00					10/21/24 13:48	
	<0.250	1.00	0.250	-			10/21/24 13:48	
Chloromethane	<0.410	3.00	0.410				10/21/24 13:48	
sis-1,2-Dichloroethene	<0.388	1.00	0.388	-			10/21/24 13:48	
cis-1,3-Dichloropropene	<0.115	1.00	0.115	-			10/21/24 13:48	
Dibromomethane	<0.309	1.00	0.309				10/21/24 13:48	
Dichlorodifluoromethane	<0.256	1.00	0.256				10/21/24 13:48	•
Ethylbenzene	<0.213	1.00	0.213	_			10/21/24 13:48	•
Hexachlorobutadiene sopropylbenzene	<0.417	1.00	0.417 0.183				10/21/24 13:48 10/21/24 13:48	

Job ID: 885-13532-1

Project/Site: NDBL Vadose Sampling

Client Sample ID: VZ-6 Lab Sample ID: 885-13532-2

Date Collected: 10/08/24 11:45 Matrix: Water

Date Received: 10/09/24 13:24

Client: Parkhill

Method: SW846 8260B - Vola Analyte	_	Qualifier	RL	•	Unit	D	Prepared	Analyzed	Dil Fa
Methyl-tert-butyl Ether (MTBE)	<0.393	Qualifier	1.00	0.393		=	Fiepaieu	10/21/24 13:48	Dilla
Methylene Chloride	<1.24		2.50		ug/L ug/L			10/21/24 13:48	
n-Butylbenzene	<0.125		3.00	0.125				10/21/24 13:48	
N-Propylbenzene	<0.123		1.00	0.123	-			10/21/24 13:48	
Naphthalene	<0.240		2.00	0.103	J			10/21/24 13:48	
sec-Butylbenzene	<0.144		1.00	0.144				10/21/24 13:48	
Styrene	<0.136		1.00	0.136	J			10/21/24 13:48	
tert-Butylbenzene	<0.244		1.00	0.130	J			10/21/24 13:48	
Tetrachloroethene (PCE)	<0.178		1.00	0.178				10/21/24 13:48	
Toluene	<0.250		1.00	0.170	ū			10/21/24 13:48	
trans-1,2-Dichloroethene	<0.193		1.00	0.193	-			10/21/24 13:48	
trans-1,3-Dichloropropene	<0.193		1.00	0.193				10/21/24 13:48	
Trichloroethene (TCE)	<0.204		1.00	0.204	_			10/21/24 13:48	
Trichlorofluoromethane	<0.159		1.00	0.159	•			10/21/24 13:48	
Vinyl chloride	<0.320		1.00	0.320				10/21/24 13:48	
Xylenes, Total	<0.320		1.50	0.374	•			10/21/24 13:48	
Aylones, Iotal	\0.574		1.50	0.374	ug/L			10/21/24 13.40	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	100		70 - 130					10/21/24 13:48	
Toluene-d8 (Surr)	99		70 - 130					10/21/24 13:48	
4-Bromofluorobenzene (Surr)	103		70 - 130					10/21/24 13:48	
Dibromofluoromethane (Surr)	103		70 - 130					10/21/24 13:48	
Analyte Gasoline Range Organics [C6 - C10]	<0.0132	Qualifier		0.0132	Unit mg/L	D	Prepared	Analyzed 10/11/24 23:49	Dil Fa
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	108		15 - 270					10/11/24 23:49	
Method: SW846 8015D - Dies	_					_	_		
Analyte		Qualifier	RL -		Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
Diesel Range Organics [C10-C28]	<0.580		1.00	0.580	-		10/11/24 11:11	10/11/24 15:16	
Motor Oil Range Organics [C28-C40]	<1.30		5.00	1.30	mg/L		10/11/24 11:11	10/11/24 15:16	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
Di-n-octyl phthalate (Surr)	97		46 - 159				10/11/24 11:11	10/11/24 15:16	
Method: EPA 300.0 - Anions,	Ion Chroma	tography							
Method: EPA 300.0 - Anions, Analyte		Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	1700	Qualifier	100		mg/L	=	Fiepaieu	10/15/24 17:08	20
Chioride Fluoride	0.902		0.100	0.0460				10/15/24 17:06	20
Orthophosphate as P	<0.250	ш	0.500	0.250	-			10/10/24 17:36	
Nitrate Nitrite as N			1.00		mg/L			10/10/24 17.30	
Nitrate Nitrite as N Sulfate	9.31 766		1.00		mg/L			10/14/24 22:53	2
	, 00		10.0	0.00	9, =			.5/10/27 17.40	2
ounate									
Method: SW846 6010B - Meta						_	_		
Method: SW846 6010B - Meta Analyte	Result	tal Recove	RL		Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
Method: SW846 6010B - Meta Analyte Barium	Result 0.267		RL 0.00200	0.000950	mg/L	<u>D</u>	10/11/24 10:02	10/14/24 09:33	Dil Fa
Method: SW846 6010B - Meta Analyte	Result		RL		mg/L	<u>D</u>	10/11/24 10:02		Dil F

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10/11/24 10:02 10/14/24 09:33

0.00600

0.00115 mg/L

<0.00115

Chromium

Client Sample Results

Client: Parkhill Job ID: 885-13532-1

Project/Site: NDBL Vadose Sampling

Lab Sample ID: 885-13532-2 Client Sample ID: VZ-6

Date Collected: 10/08/24 11:45 **Matrix: Water**

Method: SW846 6010B - Metals	(ICP) - To	tal Recove	rable (Cor	ntinued)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Silver	0.00860		0.00500	0.00130	mg/L		10/11/24 10:02	10/14/24 09:33	
Calcium	515		10.0	0.461	mg/L		10/11/24 10:02	10/14/24 09:35	10
Iron	2.79		0.500	0.260	mg/L		10/11/24 10:02	10/14/24 09:35	1
Magnesium	140		10.0	1.10	mg/L		10/11/24 10:02	10/14/24 09:35	1
Potassium	6.85		1.00	0.160	mg/L		10/11/24 10:02	10/14/24 09:33	
Sodium	823		10.0	4.60	mg/L		10/11/24 10:02	10/14/24 09:35	10
Method: SW846 6020A - Metals	(ICP/MS)	- Total Rec	overable						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Arsenic	<0.00500		0.0100	0.00500	mg/L		10/11/24 10:02	10/16/24 13:01	1
Lead	<0.00600		0.0100	0.00600	mg/L		10/11/24 10:02	10/16/24 13:01	1
Selenium	0.0258		0.0100	0.00800	mg/L		10/11/24 10:02	10/16/24 13:01	1
Method: SW846 7470A - Mercu	ry (CVAA)								
Analyte	• • •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Mercury	<0.000120		0.000200	0.000120	mg/L		10/14/24 13:17	10/15/24 17:33	
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total Dissolved Solids (SM 2540C)	4680		250	125	mg/L			10/14/24 16:00	
Specific Conductance (SM 2510B)	6770		10.0	10.0	umhos/cm			10/15/24 16:45	

Dil Fac

1

QC Sample Results

Client: Parkhill Job ID: 885-13532-1

RL

1.00

1.00

MDL Unit

0.266 ug/L

0.0811 ug/L

D

Prepared

Project/Site: NDBL Vadose Sampling

Method: 8260B - Volatile Organic Compounds (GC/MS)

MB MB Result Qualifier

< 0.266

<0.0811

<0.284

< 0.203

< 0.284

< 0.315

<1.00

<1.00

<0.175

< 0.458

< 0.377

< 0.250

< 0.410

<0.388

< 0.115

< 0.309

< 0.256

< 0.213

< 0.417

Lab Sample ID: MB 885-14587/5 **Matrix: Water**

1,1,1,2-Tetrachloroethane

1,1,1-Trichloroethane

Bromobenzene

Bromomethane

Carbon disulfide

Chlorobenzene

Chloromethane

Dibromomethane

Ethylbenzene

cis-1,2-Dichloroethene

cis-1,3-Dichloropropene

Dichlorodifluoromethane

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Hexachlorobutadiene

Chloroethane

Chloroform

Carbon tetrachloride

Bromoform

Bromodichloromethane

Dibromochloromethane

Analyte

Analysis Batch: 14587

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyzed

10/21/24 11:58

10/21/24 11:58

1			•		
1,1,2,2-Tetrachloroethane	<0.273	2.00	0.273 ug/L	10/21/24 11:58	1
1,1,2-Trichloroethane	<0.198	1.00	0.198 ug/L	10/21/24 11:58	1
1,1-Dichloroethane	<0.304	1.00	0.304 ug/L	10/21/24 11:58	1
1,1-Dichloroethene	<0.201	1.00	0.201 ug/L	10/21/24 11:58	1
1,1-Dichloropropene	<0.179	1.00	0.179 ug/L	10/21/24 11:58	1
1,2,3-Trichlorobenzene	<0.249	1.00	0.249 ug/L	10/21/24 11:58	1
1,2,3-Trichloropropane	<0.160	2.00	0.160 ug/L	10/21/24 11:58	1
1,2,4-Trichlorobenzene	<0.400	1.00	0.400 ug/L	10/21/24 11:58	1
1,2,4-Trimethylbenzene	<0.122	1.00	0.122 ug/L	10/21/24 11:58	1
1,2-Dibromo-3-Chloropropane	<0.587	2.00	0.587 ug/L	10/21/24 11:58	1
1,2-Dibromoethane (EDB)	<0.304	1.00	0.304 ug/L	10/21/24 11:58	1
1,2-Dichlorobenzene	<0.155	1.00	0.155 ug/L	10/21/24 11:58	1
1,2-Dichloroethane (EDC)	<0.302	1.00	0.302 ug/L	10/21/24 11:58	1
1,2-Dichloropropane	<0.200	1.00	0.200 ug/L	10/21/24 11:58	1
1,3,5-Trimethylbenzene	<0.182	1.00	0.182 ug/L	10/21/24 11:58	1
1,3-Dichlorobenzene	<0.161	1.00	0.161 ug/L	10/21/24 11:58	1
1,3-Dichloropropane	<0.181	1.00	0.181 ug/L	10/21/24 11:58	1
1,4-Dichlorobenzene	<0.103	1.00	0.103 ug/L	10/21/24 11:58	1
1-Methylnaphthalene	<2.00	4.00	2.00 ug/L	10/21/24 11:58	1
2,2-Dichloropropane	<0.261	2.00	0.261 ug/L	10/21/24 11:58	1
2-Butanone	<2.03	10.0	2.03 ug/L	10/21/24 11:58	1
2-Chlorotoluene	<0.132	1.00	0.132 ug/L	10/21/24 11:58	1
2-Hexanone	<1.79	10.0	1.79 ug/L	10/21/24 11:58	1
2-Methylnaphthalene	<2.00	4.00	2.00 ug/L	10/21/24 11:58	1
4-Chlorotoluene	<0.135	1.00	0.135 ug/L	10/21/24 11:58	1
4-Isopropyltoluene	<0.202	1.00	0.202 ug/L	10/21/24 11:58	1
4-Methyl-2-pentanone	<1.50	10.0	1.50 ug/L	10/21/24 11:58	1
Acetone	<2.52	10.0	2.52 ug/L	10/21/24 11:58	1
Benzene	<0.227	1.00	0.227 ug/L	10/21/24 11:58	1

1.00

1.00

1.00

1 00

3.00

10.0

1.00

1.00

2.00

1.00

3.00

1.00

1.00

1.00

1.00

1.00

1.00

0.284 ug/L

0.203 ug/L

0.284 ug/L

0.315 ug/L

1.00 ug/L

1.00 ug/L

0.175 ug/L

0.458 ug/L

0.377 ug/L

0.250 ug/L

0.410 ug/L

0.388 ug/L

0.115 ug/L

0.309 ug/L

0.256 ug/L

0.213 ug/L

0.417 ug/L

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10/21/24 11:58

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10/21/24 11:58

6

QC Sample Results

Client: Parkhill Job ID: 885-13532-1

Project/Site: NDBL Vadose Sampling

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

MB MB

< 0.250

<0.193

< 0.339

Lab Sample ID: MB 885-14587/5 **Matrix: Water**

Analysis Batch: 14587

Client Sample ID: Method Blank

Prep Type: Total/NA

Dil Fac 6

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Isopropylbenzene <0.183 1.00 0.183 ug/L 10/21/24 11:58 Methyl-tert-butyl Ether (MTBE) < 0.393 1.00 0.393 ug/L 10/21/24 11:58 Methylene Chloride <1.24 2.50 1.24 ug/L 10/21/24 11:58 n-Butylbenzene < 0.125 3.00 0.125 ug/L 10/21/24 11:58 N-Propylbenzene 0.109 ug/L < 0.109 1.00 10/21/24 11:58 Naphthalene < 0.240 2.00 0.240 ug/L 10/21/24 11:58 sec-Butylbenzene < 0.144 1.00 0.144 ug/L 10/21/24 11:58 Styrene < 0.136 1.00 0.136 ug/L 10/21/24 11:58 tert-Butylbenzene < 0.244 1.00 0.244 ug/L 10/21/24 11:58 Tetrachloroethene (PCE) < 0.178

1.00 0.178 ug/L 10/21/24 11:58 0.250 ug/L 1.00 10/21/24 11:58 1.00 0.193 ug/L 10/21/24 11:58 0.339 ug/L 1.00 10/21/24 11:58 10/21/24 11:58 1.00 0.204 ug/L

< 0.204 < 0.159 1.00 0.159 ug/L 10/21/24 11:58 1.00 < 0.320 0.320 ug/L 10/21/24 11:58 < 0.374 1.50 0.374 ug/L 10/21/24 11:58

MB MB Qualifier Limits Surrogate %Recovery Prepared Analyzed Dil Fac 98 70 - 130 10/21/24 11:58 1,2-Dichloroethane-d4 (Surr) Toluene-d8 (Surr) 102 70 - 130 10/21/24 11:58 102 70 - 130 4-Bromofluorobenzene (Surr) 10/21/24 11:58 Dibromofluoromethane (Surr) 100 70 - 130 10/21/24 11:58

Lab Sample ID: LCS 885-14587/4

Matrix: Water

Toluene

trans-1,2-Dichloroethene

Trichloroethene (TCE)

Trichlorofluoromethane

Vinyl chloride

Xylenes, Total

trans-1,3-Dichloropropene

Analysis Batch: 14587

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.1	19.33		ug/L		96	70 - 130	
Benzene	20.1	20.14		ug/L		100	70 - 130	
Chlorobenzene	20.1	20.37		ug/L		102	70 - 130	
Toluene	20.2	20.25		ug/L		100	70 - 130	
Trichloroethene (TCE)	20.2	19.20		ug/L		95	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
Toluene-d8 (Surr)	99		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130

Client: Parkhill Job ID: 885-13532-1

Project/Site: NDBL Vadose Sampling

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-14209/13

Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analyte

Analysis Batch: 14209

Gasoline Range Organics [C6 - C10]

MB	MB							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<0.0132		0.0500	0.0132	mg/L			10/11/24 13:16	1

mg/L

101

	IVID	IVID				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		15 - 270		10/11/24 13:16	1

Lab Sample ID: LCS 885-14209/12 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

0.5054

Matrix: Water

Analysis Batch: 14209

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits 70 - 130 0.500

Gasoline Range Organics [C6 -C10]

LCS LCS

Limits Surrogate %Recovery Qualifier 4-Bromofluorobenzene (Surr) 214 15 - 270

Lab Sample ID: 885-13532-1 MS

Matrix: Water

Analysis Batch: 14209

Sample Sample Spike MS MS %Rec Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits 0.500 Gasoline Range Organics [C6 -< 0.0132 0.4985 100 41 - 148 mg/L

C10]

MS MS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 219 15 - 270

Lab Sample ID: 885-13532-1 MSD

Matrix: Water

Analysis Batch: 14209

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit %Rec <0.0132 0.500 0.4934 99 41 - 148 Gasoline Range Organics [C6 mg/L

C10]

MSD MSD

Surrogate %Recovery Qualifier Limits 15 - 270 4-Bromofluorobenzene (Surr) 218

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-14129/1-A

Matrix: Water

Analysis Batch: 14128

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 14129

MB MB Result Qualifier RL MDL Unit Analyte D **Prepared** Analyzed Dil Fac Diesel Range Organics [C10-C28] < 0.580 1.00 0.580 mg/L 10/11/24 11:11 10/11/24 13:39 Motor Oil Range Organics [C28-C40] <1.30 5.00 1.30 mg/L 10/11/24 11:11 10/11/24 13:39

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Client Sample ID: VZ-5 Prep Type: Total/NA

Client Sample ID: VZ-5

Prep Type: Total/NA

Client: Parkhill Job ID: 885-13532-1

Project/Site: NDBL Vadose Sampling

Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 885-14129/1-A **Matrix: Water**

Lab Sample ID: LCS 885-14129/2-A

Analysis Batch: 14128

Analysis Batch: 14128

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14129

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 10/11/24 11:11 10/11/24 13:39 Di-n-octyl phthalate (Surr) 106 46 - 159

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14129

%Rec

Spike LCS LCS Added Result Qualifier Limits **Analyte** Unit %Rec 2.50 57 - 147 Diesel Range Organics 2.278 mg/L 91

[C10-C28]

Matrix: Water

LCS LCS

%Recovery Qualifier Limits Surrogate 46 - 159 Di-n-octyl phthalate (Surr) 105

Lab Sample ID: 885-13532-2 MS Client Sample ID: VZ-6

Matrix: Water Prep Type: Total/NA

Analysis Batch: 14128 Prep Batch: 14129

Sample Sample MS MS Spike %Rec Result Qualifier Added Limits Analyte Result Qualifier Unit %Rec Diesel Range Organics < 0.580 2.50 2.410 mg/L 96 33 - 161

[C10-C28]

MS MS

Surrogate %Recovery Qualifier Limits

Di-n-octyl phthalate (Surr) 102 46 - 159

Lab Sample ID: 885-13532-2 MSD Client Sample ID: VZ-6 **Matrix: Water**

Analysis Batch: 14128

Sample Sample Spike MSD MSD %Rec **RPD** Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Diesel Range Organics <0.580 2.50 2.413 mg/L 97 33 - 161

[C10-C28]

MSD MSD

Surrogate %Recovery Qualifier Limits Di-n-octyl phthalate (Surr) 101 46 - 159

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-14184/4 **Client Sample ID: Method Blank**

Matrix: Water

Analysis Batch: 14184

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	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.250		0.500	0.250	mg/L			10/10/24 09:59	1
Fluoride	<0.0460		0.100	0.0460	mg/L			10/10/24 09:59	1
Sulfate	<0.250		0.500	0.250	mg/L			10/10/24 09:59	1

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Prep Type: Total/NA Prep Batch: 14129

> Limit 0

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Method Blank

Client: Parkhill Job ID: 885-13532-1

Project/Site: NDBL Vadose Sampling

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-14184/5

Analysis Batch: 14184

Matrix: Water

Analysis Batch. 14104	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Chloride	5.00	4.732		mg/L		95	90 - 110
Fluoride	0.500	0.5148		mg/L		103	90 - 110
Sulfate	10.0	9.366		mg/L		94	90 - 110

Lab Sample ID: MRL 885-14184/3

Analysis Batch: 14184

Client Sample ID: Lab Control Sample Matrix: Water

-	Spike	MRL	MRL				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	 0.500	0.5270		mg/L		105	50 - 150	
Fluoride	0.100	0.1034		mg/L		103	50 - 150	
Sulfate	0.500	0.4978	J	mg/L		100	50 - 150	

Lab Sample ID: MB 885-14185/9

Matrix: Water

Analysis Batch: 14185

	MB MB						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate as P	<0.250	0.500	0.250 mg/L			10/10/24 09:59	1

Lab Sample ID: LCS 885-14185/10

Matrix: Water

Analysis Batch: 14185

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Orthophosphate as P	5.00	4.759		mg/L		95	90 - 110	

Lab Sample ID: MRL 885-14185/8

Matrix: Water

Analysis Batch: 14185

	Spike	MRL	MRL				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Orthophosphate as P	0.500	0.5757		mg/L		115	50 - 150	

Lab Sample ID: MB 885-14296/4

Matrix: Water

Analysis Batch: 14296

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<0.250		0.500	0.250	mg/L			10/15/24 16:13	1	
Fluoride	< 0.0460		0.100	0.0460	mg/L			10/15/24 16:13	1	
Sulfate	< 0.250		0.500	0.250	mg/L			10/15/24 16:13	1	

Lab Sample ID: LCS 885-14296/5

Matrix: Water

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Analysis Batch: 14296

_	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	 5.00	4.692		mg/L		94	90 - 110	
Fluoride	0.500	0.4853		mg/L		97	90 - 110	

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Prep Type: Total/NA

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Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Client: Parkhill Job ID: 885-13532-1

Project/Site: NDBL Vadose Sampling

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-14296/5 **Client Sample ID: Lab Control Sample**

Matrix: Water

Analysis Batch: 14296

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits Sulfate 10.0 9 292 mg/L 93 90 - 110

Lab Sample ID: MRL 885-14296/3 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 14296

Spike MRL MRL %Rec Analyte Added Result Qualifier Unit D %Rec Limits 50 - 150 Chloride 0.500 0.5223 mg/L 104 Fluoride 0.100 0.09440 J 94 mg/L 50 - 150 0.500 Sulfate 0.4797 J mg/L 96 50 - 150

Lab Sample ID: MB 885-14297/4 Client Sample ID: Method Blank **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 14297

MB MB

Analyte Result Qualifier RI **MDL** Unit Analyzed Dil Fac Prepared Orthophosphate as P <0.250 0.500 0.250 mg/L 10/15/24 16:13

Lab Sample ID: LCS 885-14297/5 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 14297

Spike LCS LCS %Rec **Analyte** Added Result Qualifier D %Rec Limits Unit Orthophosphate as P 5.00 4.630 93 90 - 110 mg/L

Lab Sample ID: MRL 885-14297/3

Matrix: Water

Analysis Batch: 14297

Spike MRL MRL %Rec Analyte Added Result Qualifier Unit %Rec Limits 50 - 150 Orthophosphate as P 0.500 0.4706 J mg/L 94

Lab Sample ID: MB 885-14316/39 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 14316

MB MB Analyte Qualifier MDL Unit Result RL Prepared Analyzed Dil Fac Chloride <0.250 0.500 0.250 mg/L 10/14/24 21:51 Fluoride < 0.0460 0.100 0.0460 mg/L 10/14/24 21:51 0.500 10/14/24 21:51 Sulfate < 0.250 0.250 ma/L

Lab Sample ID: MB 885-14316/4 **Client Sample ID: Method Blank**

Matrix: Water

Analysis Batch: 14316

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	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.250		0.500	0.250	mg/L			10/14/24 14:39	1
Fluoride	<0.0460		0.100	0.0460	mg/L			10/14/24 14:39	1
Sulfate	<0.250		0.500	0.250	mg/L			10/14/24 14:39	1

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Prep Type: Total/NA



Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Client: Parkhill Job ID: 885-13532-1

Project/Site: NDBL Vadose Sampling

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-14316/40

Matrix: Water Analysis Batch: 14316 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Chloride 5.00 4.801 mg/L 96 90 - 110 Fluoride 0.500 0.5217 mg/L 104 90 - 110 Sulfate 10.0 9.556 mg/L 90 - 110 96

Lab Sample ID: LCS 885-14316/5 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 14316

•	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	5.00	4.754		mg/L		95	90 - 110	
Fluoride	0.500	0.5119		mg/L		102	90 - 110	
Sulfate	10.0	9.489		mg/L		95	90 - 110	

Lab Sample ID: MRL 885-14316/3 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 14316

	Spike	MRL	MRL				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	0.500	0.5272		mg/L		105	50 - 150	
Fluoride	0.100	0.1009		mg/L		101	50 - 150	
Sulfate	0.500	0.5318		mg/L		106	50 - 150	

Lab Sample ID: MB 885-14317/39 **Client Sample ID: Method Blank**

Matrix: Water

Analysis Batch: 14317

MB MB

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.0224	0.200	0.0224 mg/L			10/14/24 21:51	1

Lab Sample ID: LCS 885-14317/40 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 14317

	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Nitrate	 2.50	2.548		mg/L		102	90 - 110		_
Nitrite	1 00	0.9365		ma/l		94	90 - 110		

Lab Sample ID: MRL 885-14317/3 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water Analysis Batch: 14317

Spike MRL MRL %Rec Analyte Added Result Qualifier Unit D %Rec Limits Nitrate 0.100 50 - 150 0.1051 mg/L 105 Nitrite 0.100 0.1032 mg/L 103 50 - 150

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Prep Type: Total/NA

QC Sample Results

Client: Parkhill Job ID: 885-13532-1

Project/Site: NDBL Vadose Sampling

Method: 6010B - Metals (ICP)

Lab Sample ID: MRL 885-14218/13

Matrix: Water Analysis Batch: 14218 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Spike MRL MRL %Rec Analyte Added Result Qualifier Unit D %Rec Limits Barium 0.00200 0.002123 mg/L 106 50 - 150 Cadmium 0.00200 0.001656 J mg/L 83 50 - 150 Chromium 0.00600 0.005470 J mg/L 91 50 - 150 Silver 0.004305 J 0.00500 mg/L 86 50 - 150 Calcium 0.500 0.4917 J mg/L 98 50 - 150 Iron 0.0200 < 0.0260 mg/L 111 50 - 150 0.500 0.4999 J 100 50 - 150 Magnesium mg/L Potassium 0.500 0.5563 J mg/L 111 50 - 150 Sodium 0.500 0.6524 J mg/L 130 50 - 150

Lab Sample ID: MB 885-14118/1-A

Matrix: Water

Analysis Batch: 14218

Client Sample ID: Method Blank Prep Type: Total Recoverable

Prep Batch: 14118

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.000950		0.00200	0.000950	mg/L		10/11/24 10:00	10/14/24 08:22	1
Cadmium	<0.00121		0.00200	0.00121	mg/L		10/11/24 10:00	10/14/24 08:22	1
Chromium	<0.00115		0.00600	0.00115	mg/L		10/11/24 10:00	10/14/24 08:22	1
Silver	<0.00130		0.00500	0.00130	mg/L		10/11/24 10:00	10/14/24 08:22	1
Calcium	<0.0461		1.00	0.0461	mg/L		10/11/24 10:00	10/14/24 08:22	1
Iron	<0.0260		0.0500	0.0260	mg/L		10/11/24 10:00	10/14/24 08:22	1
Magnesium	<0.110		1.00	0.110	mg/L		10/11/24 10:00	10/14/24 08:22	1
Potassium	<0.160		1.00	0.160	mg/L		10/11/24 10:00	10/14/24 08:22	1
Sodium	<0.460		1.00	0.460	mg/L		10/11/24 10:00	10/14/24 08:22	1

Lab Sample ID: LCS 885-14118/5-A

Matrix: Water

Analysis Ratch: 14219

Client Sample ID: Lab Control Sample Prep Type: Total Recoverable Pren Batch: 14118

Client Sample ID: Lab Control Sample

Analysis Batch: 14218							Prep Bat	Cn: 14118
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Barium	0.500	0.4697		mg/L		94	80 - 120	
Cadmium	0.500	0.4605		mg/L		92	80 - 120	
Chromium	0.500	0.4562		mg/L		91	80 - 120	
Silver	0.100	0.09574		mg/L		96	80 - 120	
Calcium	50.0	50.94		mg/L		102	80 - 120	
Iron	0.500	0.5058		mg/L		101	80 - 120	
Magnesium	50.0	50.29		mg/L		101	80 - 120	
Potassium	50.0	50.20		mg/L		100	80 - 120	
Sodium	50.0	49.94		mg/L		100	80 - 120	

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MRL 885-14379/14

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Matrix: Water

Analysis Batch: 14379									
	Spike	MRL	MRL				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Arsenic	0.00100	0.001089		mg/L		109	70 - 130		_
Lead	0.00100	0.0009608	J	mg/L		96	70 - 130		

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Prep Type: Total/NA

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Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Client: Parkhill Job ID: 885-13532-1

Project/Site: NDBL Vadose Sampling

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MRL 885-14379/14

Matrix: Water

Analysis Batch: 14379

Spike MRL MRL %Rec Analyte Added Result Qualifier Unit %Rec Limits Selenium 0.00100 0.001159 mg/L 116 70 - 130

Lab Sample ID: MRL 885-14422/9

Matrix: Water

Analysis Batch: 14422

Spike MRL MRL %Rec Analyte Added Result Qualifier Unit %Rec Limits 0.00100 Arsenic 0.0009769 J 70 - 130 mg/L 98 mg/L Lead 0.00100 0.0009451 J 95 70 - 130 Selenium 0.00100 0.0009375 J mg/L 94 70 - 130

Lab Sample ID: MRL 885-14519/9

Matrix: Water

Analysis Batch: 14519

Spike MRL MRL %Rec Analyte Added Result Qualifier Unit D %Rec Limits 0.00100 0.0009305 J mg/L 93 70 - 130 Arsenic 0.00100 0.0009223 J Lead mg/L 92 70 - 130 Selenium 0.00100 0.0009210 J mg/L 92 70 - 130

Lab Sample ID: MB 885-14118/1-A

Matrix: Water

Analysis Batch: 14379

MB MB

Result Qualifier RL **MDL** Unit Dil Fac Analyte D Prepared Analyzed Arsenic < 0.00250 0.00500 0.00250 mg/L 10/11/24 10:00 10/15/24 11:31 5 Lead < 0.00300 0.00500 0.00300 mg/L 10/11/24 10:00 10/15/24 11:31

Lab Sample ID: MB 885-14118/1-A

Matrix: Water

Analysis Batch: 14422

	MB ME	В						
Analyte	Result Qu	ualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00250	0.00500	0.00250	mg/L		10/11/24 10:00	10/16/24 10:19	5
Lead	<0.00300	0.00500	0.00300	mg/L		10/11/24 10:00	10/16/24 10:19	5
Selenium	<0.00400	0.00500	0.00400	ma/L		10/11/24 10:00	10/16/24 10:19	5

Lab Sample ID: LCS 885-14118/3-A

Matrix: Water

Analysis Batch: 14379

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	0.0500	0.05564		mg/L		111	80 - 120	
Lead	0.0500	0.05066		mg/L		101	80 - 120	

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Prep Type: Total Recoverable Prep Batch: 14118

Client Sample ID: Method Blank Prep Type: Total Recoverable

Client Sample ID: Method Blank

Prep Batch: 14118

Client Sample ID: Lab Control Sample Prep Type: Total Recoverable

Prep Batch: 14118

Client: Parkhill Job ID: 885-13532-1

Project/Site: NDBL Vadose Sampling

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 885-14118/3-A

Matrix: Water

Analysis Batch: 14422

Client Sample ID: Lab Control Sample Prep Type: Total Recoverable

Prep Batch: 14118

Spike LCS LCS %Rec Added Result Qualifier Unit %Rec Limits Analyte Arsenic 0.0500 0.05160 mg/L 103 80 - 120 Lead 0.0500 0.05271 mg/L 105 80 - 120 Selenium 0.0500 0.05197 mg/L 80 - 120 104

Lab Sample ID: 885-13532-1 MS

Matrix: Water

Analysis Batch: 14519

Client Sample ID: VZ-5 **Prep Type: Total Recoverable**

Prep Batch: 14118

	-	Sample	Sample	Spike	MS	MS				%Rec	
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Arsenic	0.0171		0.0500	0.06264		mg/L		91	75 - 125	
١	Lead	<0.00600		0.0500	0.05566		mg/L		111	75 - 125	
l	Selenium	<0.00800		0.0500	0.05126		mg/L		103	75 - 125	

Lab Sample ID: 885-13532-1 MSD

Matrix: Water

Analysis Batch: 14519

Client Sample ID: VZ-5 **Prep Type: Total Recoverable**

Prep Batch: 14118

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Limits RPD Limit Analyte Added Result Qualifier Unit D %Rec Arsenic 0.0171 0.0500 0.06504 mg/L 96 75 - 1254 20 Lead < 0.00600 0.0500 0.05460 mg/L 109 75 - 125 2 20 <0.00800 0.0500 0.05195 75 - 125 Selenium mg/L 104 20

Lab Sample ID: LLCS 885-14409/2-A

Matrix: Water

Analysis Batch: 14519

Client Sample ID: Lab Control Sample Prep Type: Total Recoverable

Pren Batch: 14409

Analysis Daton, 14015							i icp	Daten. I	7703
	Spike	LLCS	LLCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Arsenic	0.00100	<0.00250		mg/L		158			
Lead	0.00100	<0.00300		mg/L		104			
Selenium	0.00100	<0.00400		mg/L		203			
—									

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MRL 885-14252/9-A

Matrix: Water

Analysis Batch: 14405

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 14252

%Rec

Limits

Added Result Qualifier **Analyte** Unit %Rec Mercury 0.000150 < 0.000122 mg/L 76 50 - 150

Spike

Lab Sample ID: MB 885-14255/1-A

Matrix: Water

Analysis Batch: 14405

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 14255

MB MB

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Mercury < 0.000120 0.000200 0.000120 mg/L 10/14/24 13:17 10/15/24 14:10

MRL MRL

Client: Parkhill Job ID: 885-13532-1

Project/Site: NDBL Vadose Sampling

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 885-14255/3-A **Matrix: Water**

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Analysis Batch: 14405 LCS LCS Spike Analyte Added Result Qualifier Limits Unit D %Rec 0.00500 Mercury 0.004875 mg/L 97 85 - 115

Prep Batch: 14255 %Rec

Lab Sample ID: LLCS 885-14255/2-A

Client Sample ID: Lab Control Sample

Unit

mg/L

Matrix: Water Prep Type: Total/NA **Analysis Batch: 14405** Spike LLCS LLCS %Rec

Added

Prep Batch: 14255 D %Rec Limits

0.000150 Mercury Method: 2540C - Solids, Total Dissolved (TDS)

Client Sample ID: Method Blank

50 - 150

92

Lab Sample ID: MB 885-14268/1

Matrix: Water Prep Type: Total/NA

Result Qualifier

0.0001386 J

Analysis Batch: 14268

MB MB Analyte Result Qualifier RL **MDL** Unit Dil Fac **Prepared** Analyzed 50.0 10/14/24 16:00 **Total Dissolved Solids** <25.0 25.0 mg/L

Lab Sample ID: LCS 885-14268/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analyte

Analysis Batch: 14268

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit %Rec Limits **Total Dissolved Solids** 1000 1008 mg/L 101 80 - 120

QC Association Summary

Client: Parkhill Job ID: 885-13532-1

Project/Site: NDBL Vadose Sampling

GC/MS VOA

Analysis Batch: 14587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13532-1	VZ-5	Total/NA	Water	8260B	
885-13532-2	VZ-6	Total/NA	Water	8260B	
MB 885-14587/5	Method Blank	Total/NA	Water	8260B	
LCS 885-14587/4	Lab Control Sample	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 14209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13532-1	VZ-5	Total/NA	Water	8015D	
885-13532-2	VZ-6	Total/NA	Water	8015D	
MB 885-14209/13	Method Blank	Total/NA	Water	8015D	
LCS 885-14209/12	Lab Control Sample	Total/NA	Water	8015D	
885-13532-1 MS	VZ-5	Total/NA	Water	8015D	
885-13532-1 MSD	VZ-5	Total/NA	Water	8015D	

GC Semi VOA

Analysis Batch: 14128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13532-1	VZ-5	Total/NA	Water	8015D	14129
885-13532-2	VZ-6	Total/NA	Water	8015D	14129
MB 885-14129/1-A	Method Blank	Total/NA	Water	8015D	14129
LCS 885-14129/2-A	Lab Control Sample	Total/NA	Water	8015D	14129
885-13532-2 MS	VZ-6	Total/NA	Water	8015D	14129
885-13532-2 MSD	VZ-6	Total/NA	Water	8015D	14129

Prep Batch: 14129

Lab Sample ID 885-13532-1	Client Sample ID VZ-5	Prep Type Total/NA	Matrix Water	Method 3511	Prep Batch
885-13532-2	VZ-6	Total/NA	Water	3511	
MB 885-14129/1-A	Method Blank	Total/NA	Water	3511	
LCS 885-14129/2-A	Lab Control Sample	Total/NA	Water	3511	
885-13532-2 MS	VZ-6	Total/NA	Water	3511	
885-13532-2 MSD	VZ-6	Total/NA	Water	3511	

HPLC/IC

Analysis Batch: 14184

Lab Sample ID 885-13532-1	Client Sample ID VZ-5	Prep Type Total/NA	Matrix Water	Method 300.0	Prep Batch
885-13532-2	VZ-6	Total/NA	Water	300.0	
885-13532-2	VZ-6	Total/NA	Water	300.0	
MB 885-14184/4	Method Blank	Total/NA	Water	300.0	
LCS 885-14184/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-14184/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 14185

Lab Sample ID 885-13532-1	Client Sample ID VZ-5	Prep Type Total/NA	Matrix Water	Method 300.0	Prep Batch
885-13532-2	VZ-6	Total/NA	Water	300.0	
MB 885-14185/9	Method Blank	Total/NA	Water	300.0	

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10/24/2024

QC Association Summary

Client: Parkhill Job ID: 885-13532-1 Project/Site: NDBL Vadose Sampling

HPLC/IC (Continued)

Analysis Batch: 14185 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-14185/10	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-14185/8	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 14296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13532-2	VZ-6	Total/NA	Water	300.0	
MB 885-14296/4	Method Blank	Total/NA	Water	300.0	
LCS 885-14296/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-14296/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 14297

Lab Sample ID MB 885-14297/4	Client Sample ID Method Blank	Prep Type Total/NA	Matrix Water	Method 300.0	Prep Batch
LCS 885-14297/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-14297/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 14316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-14316/39	Method Blank	Total/NA	Water	300.0	
MB 885-14316/4	Method Blank	Total/NA	Water	300.0	
LCS 885-14316/40	Lab Control Sample	Total/NA	Water	300.0	
LCS 885-14316/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-14316/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 14317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13532-1	VZ-5	Total/NA	Water	300.0	<u> </u>
885-13532-2	VZ-6	Total/NA	Water	300.0	
MB 885-14317/39	Method Blank	Total/NA	Water	300.0	
MB 885-14317/4	Method Blank	Total/NA	Water	300.0	
LCS 885-14317/40	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-14317/3	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 14118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch		
885-13532-1	VZ-5	Total Recoverable	Water	3005A			
885-13532-2	VZ-6	Total Recoverable	Water	3005A			
MB 885-14118/1-A	Method Blank	Total Recoverable	Water	3005A			
LCS 885-14118/3-A	Lab Control Sample	Total Recoverable	Water	3005A			
LCS 885-14118/5-A	Lab Control Sample	Total Recoverable	Water	3005A			
885-13532-1 MS	VZ-5	Total Recoverable	Water	3005A			
885-13532-1 MSD	VZ-5	Total Recoverable	Water	3005A			

Analysis Batch: 14218

Lab Sample ID 885-13532-1	Client Sample ID VZ-5	Prep Type Total Recoverable	Matrix Water	Method 6010B	Prep Batch 14118
885-13532-1	VZ-5	Total Recoverable	Water	6010B	14118
885-13532-2	VZ-6	Total Recoverable	Water	6010B	14118
885-13532-2	VZ-6	Total Recoverable	Water	6010B	14118

QC Association Summary

Client: Parkhill Job ID: 885-13532-1

Project/Site: NDBL Vadose Sampling

Metals (Continued)

Analysis Batch: 14218 (Continued)

Lab Sample ID	Client Sample ID	Prep Type Ma		Method	Prep Batch
MB 885-14118/1-A	Method Blank	Total Recoverable	Water	6010B	14118
LCS 885-14118/5-A	Lab Control Sample	Total Recoverable	Water	6010B	14118
MRL 885-14218/13	Lab Control Sample	Total/NA	Water	6010B	

Prep Batch: 14252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 885-14252/9-A	Lab Control Sample	Total/NA	Water	245.1	

Prep Batch: 14255

Lab Sample ID 885-13532-1	Client Sample ID VZ-5	Prep Type Total/NA	Matrix Water	Method 7470A	Prep Batch
885-13532-2	VZ-6	Total/NA	Water	7470A	
MB 885-14255/1-A	Method Blank	Total/NA	Water	7470A	
LCS 885-14255/3-A	Lab Control Sample	Total/NA	Water	7470A	
LLCS 885-14255/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 14379

Lab Sample ID MB 885-14118/1-A	Client Sample ID Method Blank	Prep Type Total Recoverable	Matrix Water	Method 6020A	Prep Batch 14118
LCS 885-14118/3-A	Lab Control Sample	Total Recoverable	Water	6020A	14118
MRL 885-14379/14	Lab Control Sample	Total/NA	Water	6020A	

Analysis Batch: 14405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13532-1	VZ-5	Total/NA	Water	7470A	14255
885-13532-2	VZ-6	Total/NA	Water	7470A	14255
MB 885-14255/1-A	Method Blank	Total/NA	Water	7470A	14255
LCS 885-14255/3-A	Lab Control Sample	Total/NA	Water	7470A	14255
LLCS 885-14255/2-A	Lab Control Sample	Total/NA	Water	7470A	14255
MRL 885-14252/9-A	Lab Control Sample	Total/NA	Water	7470A	14252

Prep Batch: 14409

Lab Sample ID		Client Sample ID	Prep Type	Matrix	Method	Prep Batch
	LLCS 885-14409/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 14422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13532-2	VZ-6	Total Recoverable	Water	6020A	14118
MB 885-14118/1-A	Method Blank	Total Recoverable	Water	6020A	14118
LCS 885-14118/3-A	Lab Control Sample	Total Recoverable	Water	6020A	14118
MRL 885-14422/9	Lab Control Sample	Total/NA	Water	6020A	

Analysis Batch: 14519

Lab Sample ID 885-13532-1	Client Sample ID VZ-5	Prep Type Total Recoverable	Matrix Water	Method 6020A	Prep Batch 14118
LLCS 885-14409/2-A	Lab Control Sample	Total Recoverable	Water	6020A	14409
MRL 885-14519/9	Lab Control Sample	Total/NA	Water	6020A	
885-13532-1 MS	VZ-5	Total Recoverable	Water	6020A	14118
885-13532-1 MSD	VZ-5	Total Recoverable	Water	6020A	14118

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QC Association Summary

Client: Parkhill Job ID: 885-13532-1

Project/Site: NDBL Vadose Sampling

General Chemistry

Analysis Batch: 14268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13532-1	VZ-5	Total/NA	Water	2540C	
885-13532-2	VZ-6	Total/NA	Water	2540C	
MB 885-14268/1	Method Blank	Total/NA	Water	2540C	
LCS 885-14268/2	Lab Control Sample	Total/NA	Water	2540C	

Analysis Batch: 14386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13532-1	VZ-5	Total/NA	Water	SM 2510B	
885-13532-2	VZ-6	Total/NA	Water	SM 2510B	

Analysis Batch: 14387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13532-1	VZ-5	Total/NA	Water	SM 4500 H+ B	
885-13532-2	VZ-6	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Parkhill Job ID: 885-13532-1

Project/Site: NDBL Vadose Sampling

Client Sample ID: VZ-5 Lab Sample ID: 885-13532-1

Matrix: Water

Date Collected: 10/08/24 09:35 Date Received: 10/09/24 13:24

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260B		1	14587	JR	EET ALB	10/21/24 13:20
Total/NA	Analysis	8015D		1	14209	JP	EET ALB	10/11/24 22:39
Total/NA	Prep	3511			14129	DH	EET ALB	10/11/24 11:11
Total/NA	Analysis	8015D		1	14128	EM	EET ALB	10/11/24 15:03
Total/NA	Analysis	300.0		1	14184	RC	EET ALB	10/10/24 17:11
Total/NA	Analysis	300.0		1	14185	RC	EET ALB	10/10/24 17:11
Total/NA	Analysis	300.0		5	14317	RC	EET ALB	10/14/24 22:41
Total Recoverable	Prep	3005A			14118	JE	EET ALB	10/11/24 10:02
Total Recoverable	Analysis	6010B		1	14218	VP	EET ALB	10/14/24 09:28
Total Recoverable	Prep	3005A			14118	JE	EET ALB	10/11/24 10:02
Total Recoverable	Analysis	6010B		10	14218	VP	EET ALB	10/14/24 09:31
Total Recoverable	Prep	3005A			14118	JE	EET ALB	10/11/24 10:02
Total Recoverable	Analysis	6020A		10	14519	BV	EET ALB	10/17/24 12:03
Total/NA	Prep	7470A			14255	JR	EET ALB	10/14/24 13:17
Total/NA	Analysis	7470A		1	14405	JR	EET ALB	10/15/24 17:31
Total/NA	Analysis	2540C		1	14268	KB	EET ALB	10/14/24 16:00
Total/NA	Analysis	SM 2510B		1	14386	KB	EET ALB	10/15/24 16:41
Total/NA	Analysis	SM 4500 H+ B		1	14387	KB	EET ALB	10/15/24 16:41

Client Sample ID: VZ-6 Lab Sample ID: 885-13532-2

Date Collected: 10/08/24 11:45 **Matrix: Water** Date Received: 10/09/24 13:24

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260B		1	14587	JR	EET ALB	10/21/24 13:48
Total/NA	Analysis	8015D		1	14209	JP	EET ALB	10/11/24 23:49
Total/NA	Prep	3511			14129	DH	EET ALB	10/11/24 11:11
Total/NA	Analysis	8015D		1	14128	EM	EET ALB	10/11/24 15:16
Total/NA	Analysis	300.0		200	14296	RC	EET ALB	10/15/24 17:08
Total/NA	Analysis	300.0		1	14184	RC	EET ALB	10/10/24 17:36
Total/NA	Analysis	300.0		1	14185	RC	EET ALB	10/10/24 17:36
Total/NA	Analysis	300.0		20	14184	RC	EET ALB	10/10/24 17:48
Total/NA	Analysis	300.0		5	14317	RC	EET ALB	10/14/24 22:53
Total Recoverable	Prep	3005A			14118	JE	EET ALB	10/11/24 10:02
Total Recoverable	Analysis	6010B		1	14218	VP	EET ALB	10/14/24 09:33
Total Recoverable	Prep	3005A			14118	JE	EET ALB	10/11/24 10:02
Total Recoverable	Analysis	6010B		10	14218	VP	EET ALB	10/14/24 09:35
Total Recoverable	Prep	3005A			14118	JE	EET ALB	10/11/24 10:02
Total Recoverable	Analysis	6020A		10	14422	BV	EET ALB	10/16/24 13:01
Total/NA	Prep	7470A			14255	JR	EET ALB	10/14/24 13:17
Total/NA	Analysis	7470A		1	14405	JR	EET ALB	10/15/24 17:33
Total/NA	Analysis	2540C		1	14268	KB	EET ALB	10/14/24 16:00
Total/NA	Analysis	SM 2510B		1	14386	KB	EET ALB	10/15/24 16:45

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Lab Chronicle

Client: Parkhill Job ID: 885-13532-1

Project/Site: NDBL Vadose Sampling

Client Sample ID: VZ-6 Lab Sample ID: 885-13532-2

Date Collected: 10/08/24 11:45

Date Received: 10/09/24 13:24

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	SM 4500 H+ B		1	14387	KB	EET ALB	10/15/24 16:45

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

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Accreditation/Certification Summary

Client: Parkhill Job ID: 885-13532-1

Project/Site: NDBL Vadose Sampling

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
2540C		Water	Total Dissolved Solids
300.0		Water	Chloride
300.0		Water	Fluoride
300.0		Water	Nitrate Nitrite as N
300.0		Water	Orthophosphate as P
300.0		Water	Sulfate
6010B	3005A	Water	Barium
6010B	3005A	Water	Cadmium
6010B	3005A	Water	Calcium
6010B	3005A	Water	Chromium
6010B	3005A	Water	Iron
6010B	3005A	Water	Magnesium
6010B	3005A	Water	Potassium
6010B	3005A	Water	Silver
6010B	3005A	Water	Sodium
6020A	3005A	Water	Arsenic
6020A	3005A	Water	Lead
6020A	3005A	Water	Selenium
7470A	7470A	Water	Mercury
8015D		Water	Gasoline Range Organics [C6 - C10]
8015D	3511	Water	Diesel Range Organics [C10-C28]
8015D	3511	Water	Motor Oil Range Organics [C28-C40]
8260B		Water	1,1,1,2-Tetrachloroethane
8260B		Water	1,1,1-Trichloroethane
8260B		Water	1,1,2,2-Tetrachloroethane
8260B		Water	1,1,2-Trichloroethane
8260B		Water	1,1-Dichloroethane
8260B		Water	1,1-Dichloroethene
8260B		Water	1,1-Dichloropropene
8260B		Water	1,2,3-Trichlorobenzene
8260B		Water	1,2,3-Trichloropropane
8260B		Water	1,2,4-Trichlorobenzene
8260B		Water	1,2,4-Trimethylbenzene
8260B		Water	1,2-Dibromo-3-Chloropropane
8260B		Water	1,2-Dibromoethane (EDB)
8260B			
		Water	1,2-Dichlorobenzene
8260B 8260B		Water	1,2-Dichloroethane (EDC)
		Water	1,2-Dichloropropane
8260B		Water	1,3,5-Trimethylbenzene
8260B		Water	1,3-Dichlorobenzene
8260B		Water	1,3-Dichloropropane
8260B		Water	1,4-Dichlorobenzene
8260B		Water	1-Methylnaphthalene
8260B		Water	2,2-Dichloropropane
8260B		Water	2-Butanone

Eurofins Albuquerque

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Accreditation/Certification Summary

Client: Parkhill Job ID: 885-13532-1

Project/Site: NDBL Vadose Sampling

Laboratory: Eurofins Albuquerque (Continued)

thority	Progr	am	Identification Number Expiration Date
The following analytes	s are included in this repo	ort. but the laboratory is i	not certified by the governing authority. This list may include a
	does not offer certification	·	, g,,
Analysis Method	Prep Method	Matrix	Analyte
8260B	·	Water	2-Chlorotoluene
8260B		Water	2-Hexanone
8260B		Water	2-Methylnaphthalene
8260B		Water	4-Chlorotoluene
8260B		Water	4-Isopropyltoluene
8260B		Water	4-Methyl-2-pentanone
8260B		Water	Acetone
8260B		Water	Benzene
8260B		Water	Bromobenzene
8260B		Water	Bromodichloromethane
8260B		Water	Bromoform
8260B		Water	Bromomethane
8260B		Water	Carbon disulfide
8260B		Water	Carbon tetrachloride
8260B		Water	Chlorobenzene
8260B		Water	Chloroethane
8260B		Water	Chloroform
8260B		Water	Chloromethane
8260B		Water	cis-1,2-Dichloroethene
8260B		Water	cis-1,3-Dichloropropene
8260B		Water	Dibromochloromethane
8260B		Water	Dibromomethane
8260B		Water	Dichlorodifluoromethane
8260B		Water	Ethylbenzene
8260B		Water	Hexachlorobutadiene
8260B		Water	Isopropylbenzene
8260B		Water	Methylene Chloride
8260B		Water	Methyl-tert-butyl Ether (MTBE)
8260B		Water	Naphthalene
8260B		Water	n-Butylbenzene
8260B		Water	N-Propylbenzene
8260B		Water	sec-Butylbenzene
8260B		Water	Styrene
8260B		Water	tert-Butylbenzene
8260B		Water	Tetrachloroethene (PCE)
8260B		Water	Toluene
8260B		Water	trans-1,2-Dichloroethene
8260B		Water	trans-1,3-Dichloropropene
8260B		Water	Trichloroethene (TCE)
8260B		Water	Trichlorofluoromethane
8260B		Water	Vinyl chloride
8260B		Water	Xylenes, Total
SM 2510B		Water	Specific Conductance
SM 4500 H+ B		Water	рН
egon	NELA	_	NM100001 02-26-25

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email or Fax#:

Phone #:

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Time

EDD (Type)

M NELAC

Accreditation:

Standard

10/24/2024

Time:

Date:

ALTERNATE PARAMETER LIST

OWL NDBL

OWL NDBL	EPA
Inorganic Parameters	Method
Metals	inotitou i
Arsenic, As	6020A
Lead, Pb	6020A
Selenium, Se	6020A
Barium, Ba	6010B
Cadmium, Cd	6010B
Calcium, Ca	6010B
Chromium, Cr	6010B
Iron, Fe	6010B
Magnesium, Mg	6010B
Potassium, K	6010B
Silver, Ag	6010B
Sodium, Na	6010B
Mercury, Hg	7470A
Other Inorganic Chen	nicals
Fluoride, F	300.0
Chloride, Cl	300.0
Nitrate as N, NO ₃ -N	300.0
Phosphate, PO ₄ ²⁻	300.0
Sulfate, SO ₄ ²⁻	300.0
Physical Paramete	ers
Specific Conductance	SM 2510B
Total Dissolved Solids, TDS	SM 2540C
рН	SM 4500-H+B
Organic Paramete	rs
Volatile Oranic Compounds (VOCs)	8260B
Benzene	8260B
Ethylbenzene	8260B
Toluene	8260B
Xylenes (Total)	8260B
ТРН	
Diesel Range Organics (DRO)	8015M/D
Motor Oil ange Organics (MRO)	8015M/D
Gasoline Range Organics (GRO)	8015D

Login Sample Receipt Checklist

Client: Parkhill Job Number: 885-13532-1

Login Number: 13532 List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	False	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



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Vadose Zone Well Vapor Monitoring Form

OWL Landfill Services, LLC

Monitoring	Personnel
------------	-----------

Weather Information

Date, Amount of Last Precipitation:

inches mercury (Hg)

Casing Volume (ft³) = Radius (ft)² x π x TD (ft)

Calculated Casinng Volume Casing Diameter Casing Vol/ft

2-inch 0.0218 ft³/ft 4-inch

0.0873 ft³/ft

Weather Conditions: Cool cos **Equipment Information**

Monitoring Equipment Used: Land TEC GEN 5000 Date and Time Last Calibrated: 10/8/24; 0730

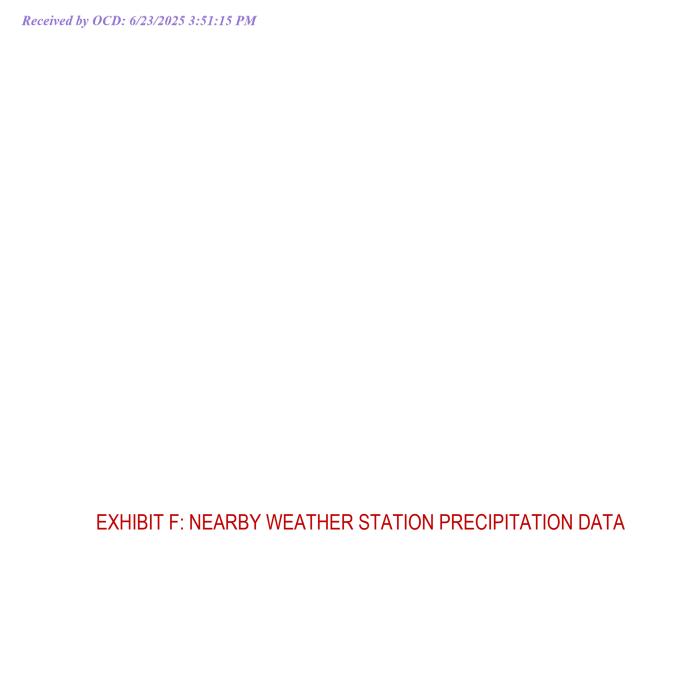
Temp: 59

Wind Speed: Calm

Wind Direction:

Barometric Pressure: 3003

		Total Well	0	Purge	Elapsed		Well Vapor I	Measurement	s	
Well I.D.	Well Diameter (inches)	Depth (ftbtoc)	Casing Volume (ft ³)	Start Time	Purge Time (min)	Oxygen (%)	Carbon Dioxide (%)	Methane (%) Hydrogen Sulfide Gas (%)		Comments
AMB			_		_	20.5	0,1	0.0)	AMB OT
VZ-9	Z"	50,30		0758	300	20.8	0.1	0.0	1	DRY
42-10	2"	52,30	_	0811	300	19.9	0.9	0.0	(DRY
1/2-8	2"	37.60		0825	300	20.6	0,1	0.0		37,497 01
VZ-7	2"	44.11	_	0837	300	20.4	0,2	0.0	1	DRY
VZ-5	24	56.50	_	0904	300	20.4	0.0	0.0	2	434' MW
V24	2"	50.50	_	10/0	310	20.0	0,4	0.0	3	48.14
YZ-3	211	42,09	_	1026	300	19.6	0.7	0.0	Z	Da
VZ-2	2"	43.99		1036	300	20.0	6.4	0,0	3	Dry
VZ-1	24	51.23		1052	300	Z0.5	0.1	0.0	3	Dry
VZ-6	で'	62,10		1113	300	19.9	40	0.0	4	56.00
AMB	-		_			21.1	00	0-0	3	HUB 11
										100
						,	_			



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Exhibit F
Nearby Weather Station Precipitation data, 2023-2024 Current and Historical Averages

															<u>.</u>
70	Dist.														6/2
Station	(mi) ¹	P.O.R.	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	ANN. ²
Jal Co-op Station (294346) ³	26.75	1981-2010	0.48	0.54	0.55	0.78	1.56	1.62	2.09	1.92	2.14	1.30	0.66	0.54	14.18
Ochoa Co-op Station (296281) ³	17.94	1981-2010	0.46	0.54	0.56	0.63	1.38	1.60	2.06	1.90	1.85	1.37	0.64	0.52	13.51
WIPP Co-op Station (299569) ³	18.60	1981-2010	0.47	0.52	0.58	0.64	1.17	1.74	2.22	2.01	1.96	1.11	0.34	0.61	13.37
Station	(mi) ¹	P.O.R.	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct 23	Nov 23	Dec 23	ANN. ²
El Capitan PWS (KNMJAL2)4	17.71	10/23 to 09/24	0.38	0.46	0.12	0.17	0.94	0.11	0.00	0.00	0.00	1.51	0.28	0.47	4.44
Red Hills PWS (KNMJAL7) ⁴	2.22	10/23 to 09/24	0.12	0.21	0.00	0.00	0.00	0.60	0.85	0.36	1.43	1.37*	0.49	0.22	4.28

NOTES:

P.O.R.: Period of Record

¹: "Dist." represents the distance from eachweather station to the NDBL Facility

²: "ANN" refers to annual average rainfall for historic data stations, and 12-month rolling total rainfall for nearby Personal Weather Stations (PWS)

³: Co-op station data are obtained from the Western Regional Climate Center (https://wrcc.dri.edu/Climate/west_coop_summaries.php)

⁴: Personal Weather Station data obtained from individual PWS web pages hosted by Weather Underground (https://www.wunderground.com/dashboard/pws/KNMJAL2 and https://www.wunderground.com/dashboard/pws/KNMJAL7)

^{*:} Rainfall for October 2023 contains an outlier (12.32" rain recorded in 60 minutes on 10/3/2023) that coincides with an apparent instrument malfunction on that day. The anomalous value has been removed from this table.

From: Kennedy, Joseph, EMNRD
To: zramos@ndblandfill.com

Subject: Northern Delaware Basin Landfill (NDBL) NM1-63, operated by OWL Landfill Services Inc. Review of December

23, 2024, Vadose Zone monitoring Report

Date: Friday, July 18, 2025 3:46:00 PM

Attachments: <u>image001.png</u>

Dear Mr. Ramos:

On June 23, 2025, the Oil Conservation Division (OCD) received a December 23, 2024, Vadose Zone monitoring Report for Northern Delaware Basin Landfill (NDBL) NM1-63, operated by OWL Landfill Services Inc. It was noted that liquids were found in vadose zone monitoring wells VZ-5 and VZ-6 and the report included lab analysis reports from water samples collected 10/08/2024. The analysis of water samples resulted in elevated levels of major anions, cations and metals, but no organics. Due to the lack of organics, the OCD is open to the possibility put forward that "these analytes are indicative of normally dry arid desert soils (e.g., vadose zone soils, evaporites, playa deposits) and leaching/mobilization of those constituents by infiltrating surface waters (stormwater accumulation and infiltration) or introduced waters (i.e., leakage). The combination of historical supply line leakage proximal to well VZ-6, substantial seasonal rains over the 4 months preceding the sampling event, and ongoing facility grading and channeling of stormwater have likely contributed to detected and sampled waters found in well VZ-6." However, the level of chloride in VZ-6, 1700 mg/L, is of concern and something OCD will continue to evaluate.

Condition 6.F. of your permit specifies that: "If liquids or gases are found to be present, the operator shall notify the OCD immediately." **This report was received by the OCD eight months after the sample collection.** Going forward, if liquids are discovered in vadose zone wells, OWL <u>must</u> notify the OCD immediately to avoid violation of your permit. Please make your consultants aware of this requirement. Also, please include copies of these notifications in each annual report.

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 549-5583 or Joseph.Kennedy@emnrd.nm.gov.

Respectfully,

Joe Kennedy ● Environmental Scientist Specialist - Advanced

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Action 478102

CONDITIONS

Operator:	OGRID:
OWL LANDFILL SERVICES, LLC	371820
3889 Maple Avenue	Action Number:
Dallas, TX 75219	478102
	Action Type:
	[C-137] Non-Fee SWMF Submittal (SWMF NON-FEE SUBMITTAL)

CONDITIONS

Crea	ated By		Condition Date
jos	seph.kennedy	None	7/18/2025