

**NM1-63**

**OWL Northern**

**Delaware Basin**

**Landfill**

**Vadose Zone**

**Monitoring Report**

**August 19, 2025**



August 19, 2025

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

Re: OWL Landfill Services, LLC  
Surface Waste Disposal Facility – NMOCD Permit No. NM1-63  
Transmittal of Vadose Zone Monitoring Data, June 3, 2025, Monitoring Event  
Northern Delaware Basin Landfill, Lea County, New Mexico

Dear Mr. Ramos:

Enclosed with this letter are copies of the 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 June 3, 2025 (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 sixth time water has been detected in one or more vadose wells at NDBL in quantities sufficient for sampling and the fourth 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 June 4, 2025, and analytical results were received on June 17, 2025.

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 H<sub>2</sub>S in vapor samples analyzed are within the instrument's acceptable error of  $\pm 2\%$  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-1, VZ-4, VZ-5, VZ-6, and VZ-8. Water detected in Wells VZ-1, VZ-4, and VZ-8 was insufficient to collect a representative sample (i.e., water column ranging from 2.12 feet to less than 1.08 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 June 3, 2025, are provided as Exhibit D.

Zack Ramos  
OWL NDBL

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#### **WELL VZ-5**

Measured depth to water (DTW) for this event remains consistent with DTW measurements historically recorded in this well. 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 below top of casing (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 Well VZ-6 (Exhibit B). 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 in 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 June 2025 monitoring event, perched water was detected at a depth of 39.65 feet BTOC in VZ-6.

Upon review of analytical results obtained from Eurofins on June 17, 2025 (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 October and April 2024 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 below ground surface (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 to 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 sands, while higher-permeability Ogallala formation sands and gravels are mapped at Well VZ-5.

Zack Ramos  
OWL NDBL

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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 Well VZ-6 to prevent unnecessary infiltration of surface and supply waters into the vadose zone in the vicinity of the well.

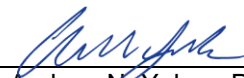
Average annual rainfall in the area around NDBL is approximately 13.37 inches per year (1981 to 2010 average) as reported by the Western Regional Climate Center for the Jal, WIPP and Ochoa Co-op Stations. One weather station located in Loving, NM (approximately 33.25 miles from NDBL) has recorded a 12-month total rainfall of more than 13 inches of precipitation through June 2025, which aligns with the annual average (Exhibit F). The Red Hills Station and El Capitan Station, that are typically used as a nearby weather source, were not used in this report due to suspected inaccuracies in their archival records.

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.

Sincerely,

PARKHILL

By

  
\_\_\_\_\_  
Andrew M. Yuhas, PG  
Professional Geologist

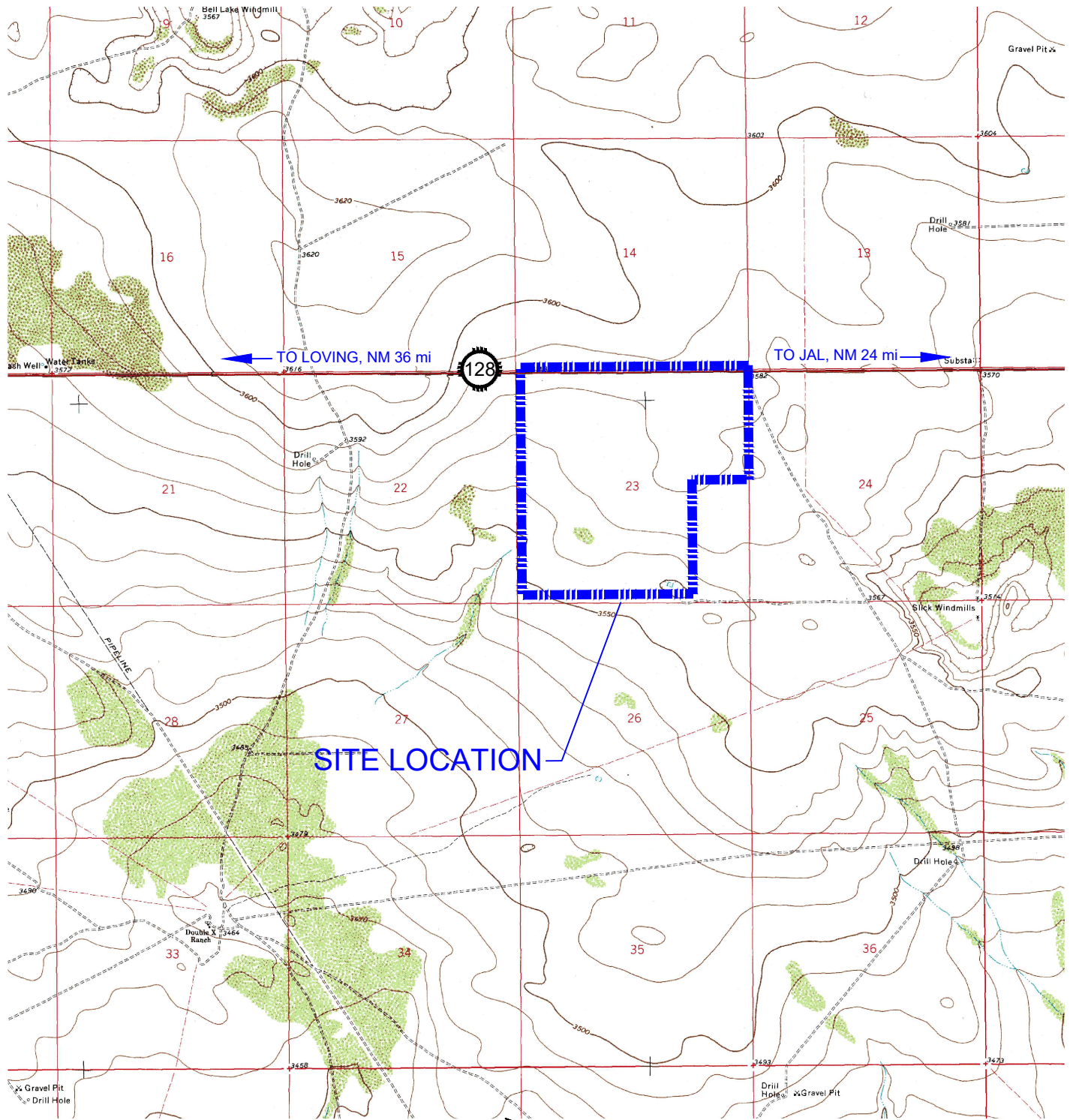
ANY/hke

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, Parkhill

**Exhibit A**  
Site Location Map

FILE NAME: A:\2024\43961.24\03\_DSGN01\_DWG\050\_CIVIL\02\_CONTENTEX-A\_SITE-LOC-MAP.dwg PRINTED: Thursday, July 10, 2025 - 11:09am



Based on Bell Lake (1973) New Mexico  
Quadrangle. USGS 7.5' Series (1:24,000 Scale).



0' 1,000'

## LEGEND

--- SITE BOUNDARY

# Parkhill

Parkhill.com

SEMI-ANNUAL VADOSE ZONE  
MONITORING

OWL NDBL SWMF  
JAL, NEW MEXICO

## SITE LOCATION MAP

Date: 07/10/2025  
Project No: 43961.24  
Sheet: EXHIBIT A

**Exhibit B**  
Site Plan/VZM Network Map



OWL NDBL SWMF ENVIRONMENTAL MONITORING NETWORK



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

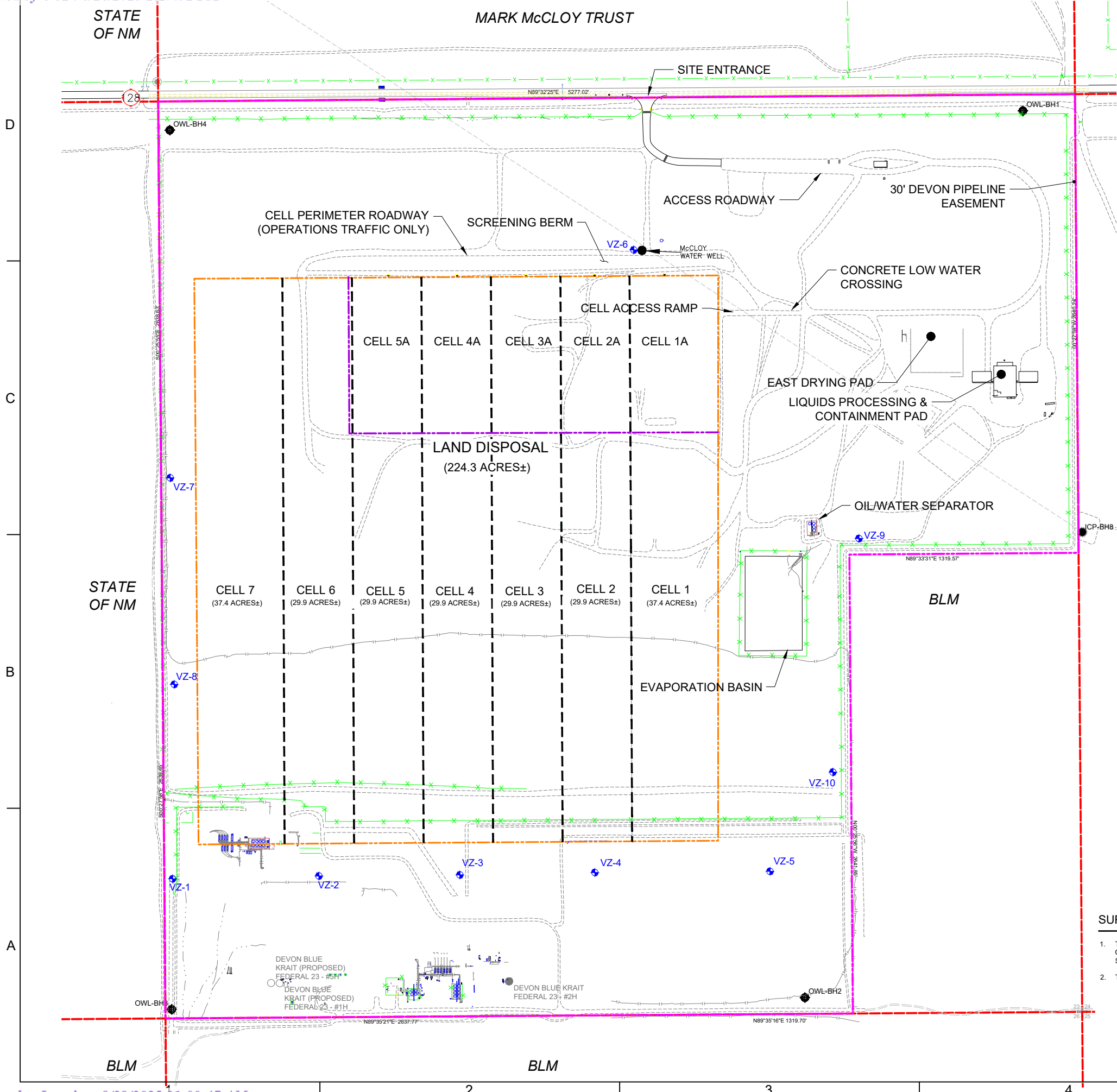
PROJECT NO.  
43961.24

#	DATE	DESCRIPTION
1	07/10/2025	MONITORING REPORT

SITE PLAN/  
VZM NETWORK  
MAP

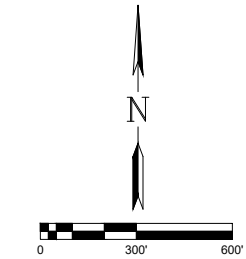
EXHIBIT B

FILE NAME: \projects-dfs\projects\2024\42881\_24\03\_DSGN01\_DWG050\_CIVIL02\_CONTENT\ENVIRONMENTAL MONITORING NETWORK.dwg LAYOUT NAME: C-01 PRINTED: Wednesday, June 05, 2024 - 12:02pm USER: AYdhas



**LEGEND**

- PROPERTY BOUNDARY
- SECTION BOUNDARY
- SOLID WASTE DISPOSAL BOUNDARY
- ACTIVE DISPOSAL AREA BOUNDARY
- CELL BOUNDARY
- BUILDING OUTLINE
- EXISTING FENCE
- EXISTING PIPELINE
- EXISTING UNPAVED ROADWAY
- EXISTING PAVED ROADWAY
- BORING/WELL LOCATION
- GEOTECHNICAL BORING LOCATION
- VADOSE ZONE MONITORING WELL
- WATER WELL



VZ WELL DATA		
WELL	NORTHING	EASTING
VZ-1	436667.301	783180.643
VZ-2	436683.626	784022.890
VZ-3	436689.942	784833.820
VZ-4	436703.381	785610.747
VZ-5	436710.311	786618.870
VZ-6	440286.617	785834.351
VZ-7	438974.816	783167.039
VZ-8	437786.271	783190.177
VZ-9	438625.583	787130.557
VZ-10	437281.261	786980.856

- SURVEY NOTES:**
- THE COORDINATES FOR THE PROJECT WERE ESTABLISHED BY RUNNING A STATIC OBSERVATION ON A SINGLE CONTROL POINT (CP DUKE) FOR 4.5 HOURS. RTK SURVEY METHODS ON 9 PANEL POINTS SET BY JOHN WEST SURVEYING CO. AND 5 EXISTING POINTS SET BY HARCROW SURVEYING, INC. (SURVEY DATE AUGUST 7, 2020).
  - THE COORDINATE SYSTEM FOR THE PROJECT: STATE PLANE, NAD 83, NEW MEXICO EAST ZONE (3001), NAVD 88.



**Exhibit C**  
VZM Purge Notes and Field Parameters

## GROUNDWATER MONITORING FIELD NOTES

Site: OWL NDBL SWMF  
 Samplers: AS/PL  
 Observers: —  
 Site/Well Condition: good casing

## Equipment Information

Sampling Method:

One Well Volume (feet, gallons) 5650 - 4337 = 1313 feet  
 (Total Depth - DTW) = well column  
1313 x 0.16 = 214 gallons  
 (Well Column x 0.16) = 1 well-volume  
 Three Well Volumes 214 x 3 = 642 gallons  
 1 well-volume x 3 = 3 well-volumes

Bailer or HydraSleeve (HS)™		Twine
New or Previously Installed		New? Y <input checked="" type="radio"/> N
Capacity/Length: _____		Approx. Length <u>53.06</u>
Material: _____		Material/Source <u>nylon</u>
HS Weights: Top Bottom		
Approx. Zone Sampled: _____		

Notes:

mesquite roots in casing, had to punch through

slight "easy" odor to H<sub>2</sub>O

Well ID: VZ  
 Total Depth: 56.50  
 Depth-to-Water: 43.37  
 Measured From: top of casing  
 Date: 6/3/26  
 Ambient Temperature: 90  
 Wind Direction/Speed: 10 WSW  
 Recent Precipitation: 0.33 8/2/25

Time	Gallons Removed	Temp. (°C)	pH	SC Units <u>AS</u>	Observations	Rate or DTW
<u>1441</u>	<u>0.5</u>	<u>22.8</u>	<u>6.6</u>	<u>717</u>	<u>cloudy</u>	
<u>1443</u>	<u>1.0</u>	<u>21.7</u>	<u>7.5</u>	<u>707</u>	<u>cloudy, murky</u>	
<u>1444</u>	<u>1.5</u>	<u>21.6</u>	<u>7.5</u>	<u>680</u>	<u>—</u>	
<u>1447</u>	<u>2.0</u>	<u>21.2</u>	<u>7.6</u>	<u>676</u>	<u>—</u>	
<u>1448</u>	<u>2.5</u>	<u>21.1</u>	<u>7.6</u>	<u>666</u>	<u>—</u>	
<u>1451</u>	<u>3.0</u>	<u>21.4</u>	<u>7.3</u>	<u>653</u>		

Sample Start: 1454Sample End: 1500Total Gallons Out: 3.0Field Blank: —Duplicate: —Filtered: —Sampler(s): Andy Yuhas

Name

Signature

Roxanne Lester

Name

Signature

## GROUNDWATER MONITORING FIELD NOTES

Site: OWL NDBL SWMF  
 Samplers: AL/RL  
 Observers: \_\_\_\_\_  
 Site/Well Condition: good / wet

Well ID: VZ-6  
 Total Depth: 62.10  
 Depth-to-Water: 39.65  
 Measured From: Top of Casing

Date: 6/3/25  
 Ambient Temperature: 96  
 Wind Direction/Speed: 10 WSW  
 Recent Precipitation: 0.33 c/2/25

## Equipment Information

Sampling Method:

One Well Volume (feet, gallons) 62.10 - 39.65 ) = 22.45 feet  
 (Total Depth - DTW) = well column  
22.45 x 0.16 = 3.66 gallons  
 (Well Column x 0.16) = 1 well-volume  
 Three Well Volumes 3.66 x 3 = 10.97 gallons  
 1 well-volume x 3 = 3 well-volumes

Bailer or HydraSleeve (HS)™		Twine
New or Previously Installed		New? Y or N
Capacity/Length: _____		Approx. Length _____
Material: _____		Material/Source _____
HS Weights: Top Bottom		
Approx. Zone Sampled: _____		

Time	Gallons Removed	Temp. (°C)	pH	SC Units <u>ms</u>	Observations	Rate or DTW
17:25	0.5	23.2	7.2	7.04	clear, slight odor	
17:30	2.0	21.9	7.0	7.12	hazy, slight odor	
17:33	3.0	21.4	7.4	7.06	cloudy slight odor	
17:37	4.0	21.3	7.2	7.09	"	
17:40	5.0	21.3	7.6	7.06	"	
17:44	7.0	21.2	7.5	7.10	"	
17:48	9.0	21.7	7.5	7.10	"	
17:52	11.0	21.1	7.3	7.08	"	

Notes: \_\_\_\_\_

Sample Start: 17:50Sample End: 18:02Total Gallons Out: 11.0

Field Blank: \_\_\_\_\_

Duplicate: \_\_\_\_\_

Filtered: \_\_\_\_\_

Sampler(s): Andy yunas  
 Name \_\_\_\_\_

Signature \_\_\_\_\_

Roxanne Lester  
 Name \_\_\_\_\_  
 Signature \_\_\_\_\_

**Exhibit D**  
Eurofins Environment Testing South Central Analytical Report



Environment Testing

1

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3

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8

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11

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Mr. Andy Yuhas  
Parkhill  
333 Rio Rancho Blvd. N.E., Suite 400  
Suite 400  
Rio Rancho, New Mexico 87124

Generated 6/17/2025 2:24:03 PM

## JOB DESCRIPTION

NDBL Vadose Sampling

## JOB NUMBER

885-26064-1

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



Generated  
6/17/2025 2:24:03 PM

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



Client: Parkhill  
Project/Site: NDBL Vadose Sampling

Laboratory Job ID: 885-26064-1

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## Definitions/Glossary

Client: Parkhill

Job ID: 885-26064-1

Project/Site: NDBL Vadose Sampling

## Qualifiers

## HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	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
J	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
E	Result exceeded calibration range.
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
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	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)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	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
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
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

Eurofins Albuquerque

**Case Narrative**

Client: Parkhill  
Project: NDBL Vadose Sampling

Job ID: 885-26064-1

**Job ID: 885-26064-1****Eurofins Albuquerque**

**Job Narrative**  
**885-26064-1**

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 6/4/2025 4:23 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 0.8°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 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: VZ-5 (885-26064-1) and VZ-6 (885-26064-2).

Method 300\_OF\_48H\_PREC: The following sample was diluted due to the nature of the sample matrix: VZ-6 (885-26064-2). Elevated reporting limits (RLs) are provided.

Method 300\_OF\_48H\_PREC: Reanalysis of the following sample(s) was performed outside of the analytical holding time due to failure of quality control parameters in the initial analysis. VZ-5 (885-26064-1) and VZ-6 (885-26064-2)

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

**Metals**

Method 6020A - Total Recoverable: The continuing calibration verification (CCV) associated with batch 885-28396 recovered above the upper control limit for Selenium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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

**General Chemistry**

Method 2540C\_SingleDry: The analysis volume selected for the following sample produced a base result greater than 200mg before calculation of the final result: VZ-6 (885-26064-2). Reanalysis could not be performed due to, holding time exceedance. Visual inspection by analyst shows no signs of trapped moisture, report as is. The reference method specifies that no more than 200mg of weight be recovered for a chosen sample analysis volume in order to produce the best data precision. As such, these data have been qualified.

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

Eurofins Albuquerque

## Client Sample Results

Client: Parkhill  
Project/Site: NDBL Vadose Sampling

Job ID: 885-26064-1

Client Sample ID: VZ-5

Lab Sample ID: 885-26064-1

Date Collected: 06/03/25 14:54

Matrix: Water

Date Received: 06/04/25 16:23

## Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.150		1.00	0.150	ug/L			06/06/25 18:14	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			06/06/25 18:14	1
Toluene	<0.200		1.00	0.200	ug/L			06/06/25 18:14	1
Xylenes, Total	<0.200		1.50	0.200	ug/L			06/06/25 18:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		70 - 130					06/06/25 18:14	1
Toluene-d8 (Surr)	91		70 - 130					06/06/25 18:14	1
4-Bromofluorobenzene (Surr)	99		70 - 130					06/06/25 18:14	1
Dibromofluoromethane (Surr)	105		70 - 130					06/06/25 18:14	1

## Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	<0.0132		0.0500	0.0132	mg/L			06/11/25 17:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		15 - 196					06/11/25 17:48	1

## Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<0.700		1.00	0.700	mg/L		06/06/25 13:14	06/09/25 20:12	1
Motor Oil Range Organics [C28-C40]	<1.50		5.00	1.50	mg/L		06/06/25 13:14	06/09/25 20:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	135		46 - 159				06/06/25 13:14	06/09/25 20:12	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.66		0.500	0.250	mg/L			06/07/25 08:07	1
Orthophosphate as P	<0.250	H	0.500	0.250	mg/L			06/10/25 18:00	1
Fluoride	2.75		0.100	0.0460	mg/L			06/07/25 08:07	1
Nitrate Nitrite as N	8.84		1.00	0.112	mg/L			06/07/25 16:34	5
Sulfate	12.6		0.500	0.390	mg/L			06/07/25 08:07	1

## Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.258		0.00200	0.000950	mg/L		06/05/25 16:59	06/10/25 08:39	1
Cadmium	<0.00121		0.00200	0.00121	mg/L		06/05/25 16:59	06/10/25 08:39	1
Chromium	0.0176		0.00600	0.00115	mg/L		06/05/25 16:59	06/10/25 08:39	1
Silver	<0.00130		0.00500	0.00130	mg/L		06/05/25 16:59	06/10/25 08:39	1
Calcium	99.4		5.00	0.231	mg/L		06/05/25 16:59	06/10/25 09:05	5
Iron	14.6		5.00	2.60	mg/L		06/05/25 16:59	06/10/25 09:10	100
Magnesium	33.6		1.00	0.110	mg/L		06/05/25 16:59	06/10/25 08:39	1
Potassium	8.03		1.00	0.160	mg/L		06/05/25 16:59	06/10/25 08:39	1
Sodium	15.5		1.00	0.460	mg/L		06/05/25 16:59	06/10/25 09:54	1

## Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0218		0.00500	0.00250	mg/L		06/05/25 16:59	06/16/25 13:37	5
Lead	0.00976		0.00500	0.00300	mg/L		06/05/25 16:59	06/16/25 13:37	5
Selenium	<0.00400		0.00500	0.00400	mg/L		06/05/25 16:59	06/16/25 13:37	5

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Client Sample Results

Client: Parkhill  
Project/Site: NDBL Vadose Sampling

Job ID: 885-26064-1

Client Sample ID: VZ-5      Lab Sample ID: 885-26064-1  
Date Collected: 06/03/25 14:54      Matrix: Water  
Date Received: 06/04/25 16:23

Method: SW846 7470A - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000120		0.000200	0.000120	mg/L		06/06/25 09:42	06/09/25 13:28	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	460		250	125	mg/L			06/10/25 10:33	1
Specific Conductance (SM 2510B)	598		10.0	10.0	umhos/cm			06/06/25 10:27	1
pH (SM 4500 H+ B)	7.6	HF	0.1	0.1	SU			06/06/25 10:27	1

## Client Sample Results

Client: Parkhill  
Project/Site: NDBL Vadose Sampling

Job ID: 885-26064-1

Client Sample ID: VZ-6

Lab Sample ID: 885-26064-2

Date Collected: 06/03/25 17:56

Matrix: Water

Date Received: 06/04/25 16:23

## Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.150		1.00	0.150	ug/L			06/06/25 18:42	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			06/06/25 18:42	1
Toluene	<0.200		1.00	0.200	ug/L			06/06/25 18:42	1
Xylenes, Total	<0.200		1.50	0.200	ug/L			06/06/25 18:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		70 - 130					06/06/25 18:42	1
Toluene-d8 (Surr)	89		70 - 130					06/06/25 18:42	1
4-Bromofluorobenzene (Surr)	105		70 - 130					06/06/25 18:42	1
Dibromofluoromethane (Surr)	102		70 - 130					06/06/25 18:42	1

## Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	<0.0132		0.0500	0.0132	mg/L			06/11/25 18:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		15 - 196					06/11/25 18:10	1

## Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	<0.700		1.00	0.700	mg/L		06/06/25 13:14	06/09/25 20:23	1
Motor Oil Range Organics [C28-C40]	<1.50		5.00	1.50	mg/L		06/06/25 13:14	06/09/25 20:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	141		46 - 159				06/06/25 13:14	06/09/25 20:23	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1970		50.0	25.0	mg/L			06/07/25 08:58	100
Orthophosphate as P	<2.50	H	5.00	2.50	mg/L			06/10/25 18:14	10
Fluoride	1.13		1.00	0.460	mg/L			06/07/25 08:48	10
Nitrate Nitrite as N	8.96		4.00	0.448	mg/L			06/11/25 11:26	20
Sulfate	787		5.00	3.90	mg/L			06/07/25 08:48	10

## Method: SW846 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.291		0.00200	0.000950	mg/L		06/05/25 16:59	06/10/25 08:37	1
Cadmium	<0.00121		0.00200	0.00121	mg/L		06/05/25 16:59	06/10/25 08:37	1
Chromium	0.00350	J	0.00600	0.00115	mg/L		06/05/25 16:59	06/10/25 08:37	1
Silver	0.00813		0.00500	0.00130	mg/L		06/05/25 16:59	06/10/25 08:37	1
Calcium	477		5.00	0.231	mg/L		06/05/25 16:59	06/10/25 08:31	5
Iron	2.15		0.250	0.130	mg/L		06/05/25 16:59	06/10/25 08:31	5
Magnesium	129		5.00	0.550	mg/L		06/05/25 16:59	06/10/25 08:31	5
Potassium	5.93		1.00	0.160	mg/L		06/05/25 16:59	06/10/25 08:37	1
Sodium	873		10.0	4.60	mg/L		06/05/25 16:59	06/10/25 09:53	10

## Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00546		0.00500	0.00250	mg/L		06/05/25 16:59	06/16/25 13:39	5
Lead	<0.00600		0.0100	0.00600	mg/L		06/05/25 16:59	06/16/25 14:14	10
Selenium	0.0198		0.00500	0.00400	mg/L		06/05/25 16:59	06/17/25 10:30	5

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Client Sample Results

Client: Parkhill  
Project/Site: NDBL Vadose Sampling

Job ID: 885-26064-1

Client Sample ID: VZ-6      Lab Sample ID: 885-26064-2  
Date Collected: 06/03/25 17:56      Matrix: Water  
Date Received: 06/04/25 16:23

Method: SW846 7470A - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000120		0.000200	0.000120	mg/L		06/06/25 09:42	06/09/25 13:40	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	4580	E	50.0	25.0	mg/L			06/10/25 10:33	1
Specific Conductance (SM 2510B)	7250		10.0	10.0	umhos/cm			06/06/25 10:31	1
pH (SM 4500 H+ B)	7.3	HF	0.1	0.1	SU			06/06/25 10:31	1

Client Sample Results

Client: Parkhill  
Project/Site: NDBL Vadose Sampling

Job ID: 885-26064-1

Client Sample ID: Trip Blank

Lab Sample ID: 885-26064-3

Date Collected: 06/03/25 00:00

Matrix: Water

Date Received: 06/04/25 16:23

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.150		1.00	0.150	ug/L			06/06/25 19:10	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			06/06/25 19:10	1
Toluene	<0.200		1.00	0.200	ug/L			06/06/25 19:10	1
Xylenes, Total	<0.200		1.50	0.200	ug/L			06/06/25 19:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 130					06/06/25 19:10	1
Toluene-d8 (Surr)	91		70 - 130					06/06/25 19:10	1
4-Bromofluorobenzene (Surr)	102		70 - 130					06/06/25 19:10	1
Dibromofluoromethane (Surr)	103		70 - 130					06/06/25 19:10	1

## QC Sample Results

Client: Parkhill  
Project/Site: NDBL Vadose Sampling

Job ID: 885-26064-1

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

Lab Sample ID: MB 885-27809/4

Matrix: Water

Analysis Batch: 27809

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.150		1.00	0.150	ug/L			06/06/25 15:52	1
Ethylbenzene	<0.200		1.00	0.200	ug/L			06/06/25 15:52	1
Toluene	<0.200		1.00	0.200	ug/L			06/06/25 15:52	1
Xylenes, Total	<0.200		1.50	0.200	ug/L			06/06/25 15:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		06/06/25 15:52	1
Toluene-d8 (Surr)	92		70 - 130		06/06/25 15:52	1
4-Bromofluorobenzene (Surr)	102		70 - 130		06/06/25 15:52	1
Dibromofluoromethane (Surr)	104		70 - 130		06/06/25 15:52	1

Lab Sample ID: LCS 885-27809/3

Matrix: Water

Analysis Batch: 27809

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	20.0	21.01		ug/L		105	70 - 130
Toluene	20.0	17.48		ug/L		87	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		70 - 130
Toluene-d8 (Surr)	92		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130
Dibromofluoromethane (Surr)	103		70 - 130

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

Lab Sample ID: MB 885-28057/4

Matrix: Water

Analysis Batch: 28057

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	<0.0132		0.0500	0.0132	mg/L			06/11/25 10:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		15 - 196		06/11/25 10:33	1

Lab Sample ID: LCS 885-28057/3

Matrix: Water

Analysis Batch: 28057

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	0.500	0.5316		mg/L		106	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	215		15 - 196

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## QC Sample Results

Client: Parkhill  
Project/Site: NDBL Vadose Sampling

Job ID: 885-26064-1

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-27806/4

Matrix: Water

Analysis Batch: 27806

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.250		0.500	0.250	mg/L			06/07/25 07:46	1
Fluoride	<0.0460		0.100	0.0460	mg/L			06/07/25 07:46	1
Sulfate	<0.390		0.500	0.390	mg/L			06/07/25 07:46	1

Lab Sample ID: LCS 885-27806/5

Matrix: Water

Analysis Batch: 27806

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.00	4.810		mg/L		96	90 - 110
Fluoride	0.500	0.4804		mg/L		96	90 - 110
Sulfate	10.0	9.358		mg/L		94	90 - 110

Lab Sample ID: MRL 885-27806/3

Matrix: Water

Analysis Batch: 27806

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.5510		mg/L		110	50 - 150
Fluoride	0.100	0.1019		mg/L		102	50 - 150
Sulfate	0.500	0.5435		mg/L		109	50 - 150

Lab Sample ID: 885-26064-1 MS

Matrix: Water

Analysis Batch: 27806

Client Sample ID: VZ-5

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2.66		5.00	7.744		mg/L		102	80 - 120
Fluoride	2.75		0.500	3.125	4	mg/L		76	70 - 130
Sulfate	12.6		10.0	22.75		mg/L		101	80 - 120

Lab Sample ID: 885-26064-1 MSD

Matrix: Water

Analysis Batch: 27806

Client Sample ID: VZ-5

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2.66		5.00	7.780		mg/L		102	80 - 120	0	20
Fluoride	2.75		0.500	3.124	4	mg/L		75	70 - 130	0	20
Sulfate	12.6		10.0	22.81		mg/L		102	80 - 120	0	20

Lab Sample ID: MB 885-27807/4

Matrix: Water

Analysis Batch: 27807

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate as P	<0.250		0.500	0.250	mg/L			06/07/25 07:46	1

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## QC Sample Results

Client: Parkhill  
Project/Site: NDBL Vadose Sampling

Job ID: 885-26064-1

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MRL 885-27807/3

Matrix: Water

Analysis Batch: 27807

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Orthophosphate as P	0.500	0.5435		mg/L		109	50 - 150

Lab Sample ID: 885-26064-1 MS

Matrix: Water

Analysis Batch: 27807

Client Sample ID: VZ-5

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Orthophosphate as P	<0.250	H *	5.00	4.798		mg/L		96	80 - 120

Lab Sample ID: 885-26064-1 MSD

Matrix: Water

Analysis Batch: 27807

Client Sample ID: VZ-5

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Orthophosphate as P	<0.250	H *	5.00	5.201		mg/L		104	80 - 120	8	20

Lab Sample ID: MB 885-27925/4

Matrix: Water

Analysis Batch: 27925

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.250		0.500	0.250	mg/L			06/10/25 09:05	1
Fluoride	<0.0460		0.100	0.0460	mg/L			06/10/25 09:05	1
Sulfate	<0.390		0.500	0.390	mg/L			06/10/25 09:05	1

Lab Sample ID: LCS 885-27925/5

Matrix: Water

Analysis Batch: 27925

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.00	4.997		mg/L		100	90 - 110
Fluoride	0.500	0.4908		mg/L		98	90 - 110
Sulfate	10.0	9.799		mg/L		98	90 - 110

Lab Sample ID: MRL 885-27925/3

Matrix: Water

Analysis Batch: 27925

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.5444		mg/L		109	50 - 150
Fluoride	0.100	0.1062		mg/L		106	50 - 150
Sulfate	0.500	0.5350		mg/L		107	50 - 150

Lab Sample ID: MB 885-27926/4

Matrix: Water

Analysis Batch: 27926

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate as P	<0.250		0.500	0.250	mg/L			06/10/25 09:05	1

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## QC Sample Results

Client: Parkhill  
Project/Site: NDBL Vadose Sampling

Job ID: 885-26064-1

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-27926/5

Matrix: Water

Analysis Batch: 27926

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Orthophosphate as P	5.00	4.896		mg/L		98	90 - 110

Lab Sample ID: MRL 885-27926/3

Matrix: Water

Analysis Batch: 27926

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Orthophosphate as P	0.500	0.5617		mg/L		112	50 - 150

Lab Sample ID: MB 885-28021/4

Matrix: Water

Analysis Batch: 28021

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.0224		0.200	0.0224	mg/L			06/11/25 07:08	1

Lab Sample ID: LCS 885-28021/5

Matrix: Water

Analysis Batch: 28021

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate	2.50	2.484		mg/L		99	90 - 110
Nitrite	1.00	0.9414		mg/L		94	90 - 110
Nitrate Nitrite as N	3.50	3.425		mg/L		98	90 - 110

Lab Sample ID: MRL 885-28021/3

Matrix: Water

Analysis Batch: 28021

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate	0.100	0.1012		mg/L		101	50 - 150
Nitrite	0.100	0.09189	J	mg/L		92	50 - 150
Nitrate Nitrite as N	0.200	0.1931	J	mg/L		96	50 - 150

## Method: 6010B - Metals (ICP)

Lab Sample ID: MRL 885-27967/14

Matrix: Water

Analysis Batch: 27967

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.00200	0.002175		mg/L		109	50 - 150
Cadmium	0.00200	0.001967	J	mg/L		98	50 - 150
Chromium	0.00600	0.006723		mg/L		112	50 - 150
Silver	0.00500	0.005074		mg/L		101	50 - 150
Calcium	0.500	0.4979	J	mg/L		100	50 - 150
Iron	0.0200	<0.0260		mg/L		85	50 - 150
Magnesium	0.500	0.4921	J	mg/L		98	50 - 150
Potassium	0.500	0.3752	J	mg/L		75	50 - 150

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## QC Sample Results

Client: Parkhill  
Project/Site: NDBL Vadose Sampling

Job ID: 885-26064-1

## Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MRL 885-27969/13

Matrix: Water

Analysis Batch: 27969

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	0.500	<0.460		mg/L		91	50 - 150

Lab Sample ID: MB 885-27713/1-A

Matrix: Water

Analysis Batch: 27967

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 27713

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.000950		0.00200	0.000950	mg/L		06/05/25 16:59	06/10/25 07:56	1
Cadmium	<0.00121		0.00200	0.00121	mg/L		06/05/25 16:59	06/10/25 07:56	1
Chromium	<0.00115		0.00600	0.00115	mg/L		06/05/25 16:59	06/10/25 07:56	1
Silver	<0.00130		0.00500	0.00130	mg/L		06/05/25 16:59	06/10/25 07:56	1
Calcium	<0.0461		1.00	0.0461	mg/L		06/05/25 16:59	06/10/25 07:56	1
Iron	<0.0260		0.0500	0.0260	mg/L		06/05/25 16:59	06/10/25 07:56	1
Magnesium	<0.110		1.00	0.110	mg/L		06/05/25 16:59	06/10/25 07:56	1
Potassium	<0.160		1.00	0.160	mg/L		06/05/25 16:59	06/10/25 07:56	1

Lab Sample ID: MB 885-27713/1-A

Matrix: Water

Analysis Batch: 27969

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 27713

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	<0.460		1.00	0.460	mg/L		06/05/25 16:59	06/10/25 09:47	1

Lab Sample ID: LCS 885-27713/5-A

Matrix: Water

Analysis Batch: 27967

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 27713

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.500	0.4908		mg/L		98	80 - 120
Cadmium	0.500	0.4890		mg/L		98	80 - 120
Chromium	0.500	0.4839		mg/L		97	80 - 120
Silver	0.100	0.1016		mg/L		102	80 - 120
Calcium	50.0	49.03		mg/L		98	80 - 120
Iron	0.500	0.4856		mg/L		97	80 - 120
Magnesium	50.0	48.59		mg/L		97	80 - 120
Potassium	50.0	47.84		mg/L		96	80 - 120

Lab Sample ID: LCS 885-27713/5-A

Matrix: Water

Analysis Batch: 27969

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 27713

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	50.0	48.60		mg/L		97	80 - 120

Lab Sample ID: 885-26064-1 MS

Matrix: Water

Analysis Batch: 27967

Client Sample ID: VZ-5

Prep Type: Total Recoverable

Prep Batch: 27713

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.258		0.500	0.7436		mg/L		97	75 - 125

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## QC Sample Results

Client: Parkhill  
Project/Site: NDBL Vadose Sampling

Job ID: 885-26064-1

## Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 885-26064-1 MS

Matrix: Water

Analysis Batch: 27967

Client Sample ID: VZ-5

Prep Type: Total Recoverable

Prep Batch: 27713

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	<0.00121		0.500	0.4878		mg/L		98	75 - 125
Chromium	0.0176		0.500	0.5051		mg/L		97	75 - 125
Silver	<0.00130		0.100	0.1012		mg/L		101	75 - 125
Magnesium	33.6		50.0	82.02		mg/L		97	75 - 125
Potassium	8.03		50.0	56.58		mg/L		97	75 - 125

Lab Sample ID: 885-26064-1 MS

Matrix: Water

Analysis Batch: 27967

Client Sample ID: VZ-5

Prep Type: Total Recoverable

Prep Batch: 27713

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	99.4		50.0	148.6		mg/L		99	75 - 125

Lab Sample ID: 885-26064-1 MS

Matrix: Water

Analysis Batch: 27969

Client Sample ID: VZ-5

Prep Type: Total Recoverable

Prep Batch: 27713

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	15.5		50.0	63.08		mg/L		95	75 - 125

Lab Sample ID: 885-26064-1 MSD

Matrix: Water

Analysis Batch: 27967

Client Sample ID: VZ-5

Prep Type: Total Recoverable

Prep Batch: 27713

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Barium	0.258		0.500	0.7372		mg/L		96	75 - 125	1	20
Cadmium	<0.00121		0.500	0.4839		mg/L		97	75 - 125	1	20
Chromium	0.0176		0.500	0.4946		mg/L		95	75 - 125	2	20
Silver	<0.00130		0.100	0.1007		mg/L		101	75 - 125	0	20
Magnesium	33.6		50.0	79.51		mg/L		92	75 - 125	3	20
Potassium	8.03		50.0	54.37		mg/L		93	75 - 125	4	20

Lab Sample ID: 885-26064-1 MSD

Matrix: Water

Analysis Batch: 27967

Client Sample ID: VZ-5

Prep Type: Total Recoverable

Prep Batch: 27713

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	99.4		50.0	149.2		mg/L		100	75 - 125	0	20

Lab Sample ID: 885-26064-1 MSD

Matrix: Water

Analysis Batch: 27969

Client Sample ID: VZ-5

Prep Type: Total Recoverable

Prep Batch: 27713

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sodium	15.5		50.0	61.78		mg/L		93	75 - 125	2	20

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## QC Sample Results

Client: Parkhill  
Project/Site: NDBL Vadose Sampling

Job ID: 885-26064-1

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

Lab Sample ID: MRL 885-28396/9

Matrix: Water

Analysis Batch: 28396

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.00100	0.0007700	J	mg/L		77	70 - 130
Lead	0.00100	0.001037		mg/L		104	70 - 130
Selenium	0.00100	0.001137		mg/L		114	70 - 130

Lab Sample ID: MRL 885-28474/9

Matrix: Water

Analysis Batch: 28474

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.00100	0.001185		mg/L		119	70 - 130
Lead	0.00100	0.001083		mg/L		108	70 - 130
Selenium	0.00100	0.001052		mg/L		105	70 - 130

Lab Sample ID: MB 885-27713/1-A ^5

Matrix: Water

Analysis Batch: 28396

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 27713

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00250		0.00500	0.00250	mg/L		06/05/25 16:59	06/16/25 10:10	5
Lead	<0.00300		0.00500	0.00300	mg/L		06/05/25 16:59	06/16/25 10:10	5
Selenium	<0.00400		0.00500	0.00400	mg/L		06/05/25 16:59	06/16/25 10:10	5

Lab Sample ID: LCS 885-27713/3-A ^5

Matrix: Water

Analysis Batch: 28396

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 27713

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.0500	0.04831		mg/L		97	80 - 120
Lead	0.0500	0.05002		mg/L		100	80 - 120
Selenium	0.0500	0.05233		mg/L		105	80 - 120

Lab Sample ID: LLCS 885-27713/2-A ^5

Matrix: Water

Analysis Batch: 28396

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 27713

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.00100	<0.00250		mg/L		-11	
Lead	0.00100	<0.00300		mg/L		109	
Selenium	0.00100	<0.00400		mg/L		250	

## Method: 7470A - Mercury (CVAA)

Lab Sample ID: MRL 885-27754/9-A

Matrix: Water

Analysis Batch: 27890

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 27754

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.000150	0.0001376	J	mg/L		92	50 - 150

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## QC Sample Results

Client: Parkhill  
Project/Site: NDBL Vadose Sampling

Job ID: 885-26064-1

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

Lab Sample ID: MB 885-27758/1-A

Matrix: Water

Analysis Batch: 27890

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 27758

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000120		0.000200	0.000120	mg/L		06/06/25 09:42	06/09/25 10:09	1

Lab Sample ID: LCS 885-27758/3-A

Matrix: Water

Analysis Batch: 27890

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 27758

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00500	0.004872		mg/L		97	85 - 115

Lab Sample ID: LLCS 885-27758/2-A

Matrix: Water

Analysis Batch: 27890

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 27758

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.000150	0.0001659	J	mg/L		111	50 - 150

Lab Sample ID: 885-26064-1 MS

Matrix: Water

Analysis Batch: 27890

Client Sample ID: VZ-5

Prep Type: Total/NA

Prep Batch: 27758

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.000120		0.00500	0.005315		mg/L		106	75 - 125

Lab Sample ID: 885-26064-1 MSD

Matrix: Water

Analysis Batch: 27890

Client Sample ID: VZ-5

Prep Type: Total/NA

Prep Batch: 27758

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.000120		0.00500	0.005358		mg/L		107	75 - 125	1	20

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

Lab Sample ID: MB 885-27953/1

Matrix: Water

Analysis Batch: 27953

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<25.0		50.0	25.0	mg/L			06/10/25 10:33	1

Lab Sample ID: LCS 885-27953/2

Matrix: Water

Analysis Batch: 27953

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1004		mg/L		100	80 - 120

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QC Sample Results

Client: Parkhill  
Project/Site: NDBL Vadose Sampling

Job ID: 885-26064-1

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: LCS 885-27855/4				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 27855							
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	99.7	104.4		umhos/cm		105	85 - 115

Lab Sample ID: MRL 885-27855/3				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 27855							
Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	9.52	<10.0		umhos/cm		100	50 - 150

## QC Association Summary

Client: Parkhill  
Project/Site: NDBL Vadose Sampling

Job ID: 885-26064-1

## GC/MS VOA

## Analysis Batch: 27809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26064-1	VZ-5	Total/NA	Water	8260B	
885-26064-2	VZ-6	Total/NA	Water	8260B	
885-26064-3	Trip Blank	Total/NA	Water	8260B	
MB 885-27809/4	Method Blank	Total/NA	Water	8260B	
LCS 885-27809/3	Lab Control Sample	Total/NA	Water	8260B	

## GC VOA

## Analysis Batch: 28057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26064-1	VZ-5	Total/NA	Water	8015D	
885-26064-2	VZ-6	Total/NA	Water	8015D	
MB 885-28057/4	Method Blank	Total/NA	Water	8015D	
LCS 885-28057/3	Lab Control Sample	Total/NA	Water	8015D	

## GC Semi VOA

## Prep Batch: 27759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26064-1	VZ-5	Total/NA	Water	3511	
885-26064-2	VZ-6	Total/NA	Water	3511	

## Analysis Batch: 27860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26064-1	VZ-5	Total/NA	Water	8015D	27759
885-26064-2	VZ-6	Total/NA	Water	8015D	27759

## HPLC/IC

## Analysis Batch: 27806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26064-1	VZ-5	Total/NA	Water	300.0	
885-26064-2	VZ-6	Total/NA	Water	300.0	
885-26064-2	VZ-6	Total/NA	Water	300.0	
MB 885-27806/4	Method Blank	Total/NA	Water	300.0	
LCS 885-27806/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-27806/3	Lab Control Sample	Total/NA	Water	300.0	
885-26064-1 MS	VZ-5	Total/NA	Water	300.0	
885-26064-1 MSD	VZ-5	Total/NA	Water	300.0	

## Analysis Batch: 27807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26064-1	VZ-5	Total/NA	Water	300.0	
MB 885-27807/4	Method Blank	Total/NA	Water	300.0	
LCS 885-27807/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-27807/3	Lab Control Sample	Total/NA	Water	300.0	
885-26064-1 MS	VZ-5	Total/NA	Water	300.0	
885-26064-1 MSD	VZ-5	Total/NA	Water	300.0	

## Analysis Batch: 27925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-27925/4	Method Blank	Total/NA	Water	300.0	

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## QC Association Summary

Client: Parkhill  
Project/Site: NDBL Vadose Sampling

Job ID: 885-26064-1

## HPLC/IC (Continued)

## Analysis Batch: 27925 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-27925/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-27925/3	Lab Control Sample	Total/NA	Water	300.0	

## Analysis Batch: 27926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26064-1	VZ-5	Total/NA	Water	300.0	
885-26064-2	VZ-6	Total/NA	Water	300.0	
MB 885-27926/4	Method Blank	Total/NA	Water	300.0	
LCS 885-27926/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-27926/3	Lab Control Sample	Total/NA	Water	300.0	

## Analysis Batch: 28021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26064-2	VZ-6	Total/NA	Water	300.0	
MB 885-28021/4	Method Blank	Total/NA	Water	300.0	
LCS 885-28021/5	Lab Control Sample	Total/NA	Water	300.0	
MRL 885-28021/3	Lab Control Sample	Total/NA	Water	300.0	

## Metals

## Prep Batch: 27713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26064-1	VZ-5	Total Recoverable	Water	3005A	
885-26064-2	VZ-6	Total Recoverable	Water	3005A	
MB 885-27713/1-A	Method Blank	Total Recoverable	Water	3005A	
MB 885-27713/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 885-27713/3-A ^5	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 885-27713/5-A	Lab Control Sample	Total Recoverable	Water	3005A	
LLCS 885-27713/2-A ^5	Lab Control Sample	Total Recoverable	Water	3005A	
885-26064-1 MS	VZ-5	Total Recoverable	Water	3005A	
885-26064-1 MSD	VZ-5	Total Recoverable	Water	3005A	

## Prep Batch: 27754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 885-27754/9-A	Lab Control Sample	Total/NA	Water	245.1	

## Prep Batch: 27758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26064-1	VZ-5	Total/NA	Water	7470A	
885-26064-2	VZ-6	Total/NA	Water	7470A	
MB 885-27758/1-A	Method Blank	Total/NA	Water	7470A	
LCS 885-27758/3-A	Lab Control Sample	Total/NA	Water	7470A	
LLCS 885-27758/2-A	Lab Control Sample	Total/NA	Water	7470A	
885-26064-1 MS	VZ-5	Total/NA	Water	7470A	
885-26064-1 MSD	VZ-5	Total/NA	Water	7470A	

## Analysis Batch: 27890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26064-1	VZ-5	Total/NA	Water	7470A	27758
885-26064-2	VZ-6	Total/NA	Water	7470A	27758
MB 885-27758/1-A	Method Blank	Total/NA	Water	7470A	27758

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## QC Association Summary

Client: Parkhill  
Project/Site: NDBL Vadose Sampling

Job ID: 885-26064-1

## Metals (Continued)

## Analysis Batch: 27890 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-27758/3-A	Lab Control Sample	Total/NA	Water	7470A	27758
LLCS 885-27758/2-A	Lab Control Sample	Total/NA	Water	7470A	27758
MRL 885-27754/9-A	Lab Control Sample	Total/NA	Water	7470A	27754
885-26064-1 MS	VZ-5	Total/NA	Water	7470A	27758
885-26064-1 MSD	VZ-5	Total/NA	Water	7470A	27758

## Analysis Batch: 27967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26064-1	VZ-5	Total Recoverable	Water	6010B	27713
885-26064-1	VZ-5	Total Recoverable	Water	6010B	27713
885-26064-1	VZ-5	Total Recoverable	Water	6010B	27713
885-26064-2	VZ-6	Total Recoverable	Water	6010B	27713
885-26064-2	VZ-6	Total Recoverable	Water	6010B	27713
MB 885-27713/1-A	Method Blank	Total Recoverable	Water	6010B	27713
LCS 885-27713/5-A	Lab Control Sample	Total Recoverable	Water	6010B	27713
MRL 885-27967/14	Lab Control Sample	Total/NA	Water	6010B	
885-26064-1 MS	VZ-5	Total Recoverable	Water	6010B	27713
885-26064-1 MS	VZ-5	Total Recoverable	Water	6010B	27713
885-26064-1 MSD	VZ-5	Total Recoverable	Water	6010B	27713
885-26064-1 MSD	VZ-5	Total Recoverable	Water	6010B	27713

## Analysis Batch: 27969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26064-1	VZ-5	Total Recoverable	Water	6010B	27713
885-26064-2	VZ-6	Total Recoverable	Water	6010B	27713
MB 885-27713/1-A	Method Blank	Total Recoverable	Water	6010B	27713
LCS 885-27713/5-A	Lab Control Sample	Total Recoverable	Water	6010B	27713
MRL 885-27969/13	Lab Control Sample	Total/NA	Water	6010B	
885-26064-1 MS	VZ-5	Total Recoverable	Water	6010B	27713
885-26064-1 MSD	VZ-5	Total Recoverable	Water	6010B	27713

## Analysis Batch: 28396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26064-1	VZ-5	Total Recoverable	Water	6020A	27713
885-26064-2	VZ-6	Total Recoverable	Water	6020A	27713
885-26064-2	VZ-6	Total Recoverable	Water	6020A	27713
MB 885-27713/1-A ^5	Method Blank	Total Recoverable	Water	6020A	27713
LCS 885-27713/3-A ^5	Lab Control Sample	Total Recoverable	Water	6020A	27713
LLCS 885-27713/2-A ^5	Lab Control Sample	Total Recoverable	Water	6020A	27713
MRL 885-28396/9	Lab Control Sample	Total/NA	Water	6020A	

## Analysis Batch: 28474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26064-2	VZ-6	Total Recoverable	Water	6020A	27713
MRL 885-28474/9	Lab Control Sample	Total/NA	Water	6020A	

## General Chemistry

## Analysis Batch: 27855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26064-1	VZ-5	Total/NA	Water	SM 2510B	

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QC Association Summary

Client: Parkhill  
Project/Site: NDBL Vadose Sampling

Job ID: 885-26064-1

General Chemistry (Continued)

Analysis Batch: 27855 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26064-2	VZ-6	Total/NA	Water	SM 2510B	
LCS 885-27855/4	Lab Control Sample	Total/NA	Water	SM 2510B	
MRL 885-27855/3	Lab Control Sample	Total/NA	Water	SM 2510B	

Analysis Batch: 27856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26064-1	VZ-5	Total/NA	Water	SM 4500 H+ B	
885-26064-2	VZ-6	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 27953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-26064-1	VZ-5	Total/NA	Water	2540C	
885-26064-2	VZ-6	Total/NA	Water	2540C	
MB 885-27953/1	Method Blank	Total/NA	Water	2540C	
LCS 885-27953/2	Lab Control Sample	Total/NA	Water	2540C	

## Lab Chronicle

Client: Parkhill  
Project/Site: NDBL Vadose Sampling

Job ID: 885-26064-1

Client Sample ID: VZ-5

Lab Sample ID: 885-26064-1

Date Collected: 06/03/25 14:54

Matrix: Water

Date Received: 06/04/25 16:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	27809	RA	EET ALB	06/06/25 18:14
Total/NA	Analysis	8015D		1	28057	RA	EET ALB	06/11/25 17:48
Total/NA	Prep	3511			27759	EM	EET ALB	06/06/25 13:14
Total/NA	Analysis	8015D		1	27860	EM	EET ALB	06/09/25 20:12
Total/NA	Analysis	300.0		1	27926	RC	EET ALB	06/10/25 18:00
Total/NA	Analysis	300.0		1	27806	RC	EET ALB	06/07/25 08:07
Total/NA	Analysis	300.0		5	27807	RC	EET ALB	06/07/25 16:34
Total Recoverable	Prep	3005A			27713	JF	EET ALB	06/05/25 16:59
Total Recoverable	Analysis	6010B		1	27967	VP	EET ALB	06/10/25 08:39
Total Recoverable	Prep	3005A			27713	JF	EET ALB	06/05/25 16:59
Total Recoverable	Analysis	6010B		5	27967	VP	EET ALB	06/10/25 09:05
Total Recoverable	Prep	3005A			27713	JF	EET ALB	06/05/25 16:59
Total Recoverable	Analysis	6010B		100	27967	VP	EET ALB	06/10/25 09:10
Total Recoverable	Prep	3005A			27713	JF	EET ALB	06/05/25 16:59
Total Recoverable	Analysis	6010B		1	27969	VP	EET ALB	06/10/25 09:54
Total Recoverable	Prep	3005A			27713	JF	EET ALB	06/05/25 16:59
Total Recoverable	Analysis	6020A		5	28396	ES	EET ALB	06/16/25 13:37
Total/NA	Prep	7470A			27758	JR	EET ALB	06/06/25 09:42
Total/NA	Analysis	7470A		1	27890	JR	EET ALB	06/09/25 13:28
Total/NA	Analysis	2540C		1	27953	HR	EET ALB	06/10/25 10:33
Total/NA	Analysis	SM 2510B		1	27855	DL	EET ALB	06/06/25 10:27
Total/NA	Analysis	SM 4500 H+ B		1	27856	DL	EET ALB	06/06/25 10:27

Client Sample ID: VZ-6

Lab Sample ID: 885-26064-2

Date Collected: 06/03/25 17:56

Matrix: Water

Date Received: 06/04/25 16:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	27809	RA	EET ALB	06/06/25 18:42
Total/NA	Analysis	8015D		1	28057	RA	EET ALB	06/11/25 18:10
Total/NA	Prep	3511			27759	EM	EET ALB	06/06/25 13:14
Total/NA	Analysis	8015D		1	27860	EM	EET ALB	06/09/25 20:23
Total/NA	Analysis	300.0		10	27926	RC	EET ALB	06/10/25 18:14
Total/NA	Analysis	300.0		10	27806	RC	EET ALB	06/07/25 08:48
Total/NA	Analysis	300.0		100	27806	RC	EET ALB	06/07/25 08:58
Total/NA	Analysis	300.0		20	28021	JT	EET ALB	06/11/25 11:26
Total Recoverable	Prep	3005A			27713	JF	EET ALB	06/05/25 16:59
Total Recoverable	Analysis	6010B		5	27967	VP	EET ALB	06/10/25 08:31
Total Recoverable	Prep	3005A			27713	JF	EET ALB	06/05/25 16:59
Total Recoverable	Analysis	6010B		1	27967	VP	EET ALB	06/10/25 08:37
Total Recoverable	Prep	3005A			27713	JF	EET ALB	06/05/25 16:59
Total Recoverable	Analysis	6010B		10	27969	VP	EET ALB	06/10/25 09:53

Eurofins Albuquerque

Lab Chronicle

Client: Parkhill  
Project/Site: NDBL Vadose Sampling

Job ID: 885-26064-1

Client Sample ID: VZ-6  
Date Collected: 06/03/25 17:56  
Date Received: 06/04/25 16:23

Lab Sample ID: 885-26064-2  
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			27713	JF	EET ALB	06/05/25 16:59
Total Recoverable	Analysis	6020A		5	28396	ES	EET ALB	06/16/25 13:39
Total Recoverable	Prep	3005A			27713	JF	EET ALB	06/05/25 16:59
Total Recoverable	Analysis	6020A		10	28396	ES	EET ALB	06/16/25 14:14
Total Recoverable	Prep	3005A			27713	JF	EET ALB	06/05/25 16:59
Total Recoverable	Analysis	6020A		5	28474	ES	EET ALB	06/17/25 10:30
Total/NA	Prep	7470A			27758	JR	EET ALB	06/06/25 09:42
Total/NA	Analysis	7470A		1	27890	JR	EET ALB	06/09/25 13:40
Total/NA	Analysis	2540C		1	27953	HR	EET ALB	06/10/25 10:33
Total/NA	Analysis	SM 2510B		1	27855	DL	EET ALB	06/06/25 10:31
Total/NA	Analysis	SM 4500 H+ B		1	27856	DL	EET ALB	06/06/25 10:31

Client Sample ID: Trip Blank  
Date Collected: 06/03/25 00:00  
Date Received: 06/04/25 16:23

Lab Sample ID: 885-26064-3  
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	27809	RA	EET ALB	06/06/25 19:10

Laboratory References:

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

Accreditation/Certification Summary

Client: Parkhill  
Project/Site: NDBL Vadose Sampling

Job ID: 885-26064-1

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	02-27-26
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	Benzene
8260B		Water	Ethylbenzene
8260B		Water	Toluene
8260B		Water	Xylenes, Total
SM 2510B		Water	Specific Conductance
SM 4500 H+ B		Water	pH
Oregon	NELAP	NM100001	02-26-26





**ALTERNATE PARAMETER LIST**  
**OWL NDBL**

Inorganic Parameters	EPA Method
<b>Metals</b>	
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
<b>Other Inorganic Chemicals</b>	
Fluoride, F	300.0
Chloride, Cl <sup>-</sup>	300.0
Nitrate as N, NO <sub>3</sub> -N	300.0
Phosphate, PO <sub>4</sub> <sup>3-</sup>	300.0
Sulfate, SO <sub>4</sub> <sup>2-</sup>	300.0
<b>Physical Parameters</b>	
Specific Conductance	SM 2510B
Total Dissolved Solids, TDS	SM 2540C
pH	SM 4500-H+B
<b>Organic Parameters</b>	
Volatile Organic Compounds (VOCs)	8260B
Benzene	8260B
Ethylbenzene	8260B
Toluene	8260B
Xylenes (Total)	8260B
<b>TPH</b>	
Diesel Range Organics (DRO)	8015M/D
Motor Oil Range Organics (MRO)	8015M/D
Gasoline Range Organics (GRO)	8015D



## Login Sample Receipt Checklist

Client: Parkhill

Job Number: 885-26064-1

Login Number: 26064

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)	True	
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	

**Exhibit E**  
VZM Well Soil vapor screening results  
(June 3, 2025)

**OWL Landfill Services, LLC**

Date 6/3/25

$$\text{Casing Volume (ft}^3\text{)} = \text{Radius (ft)}^2 \times \pi \times \text{TD (ft)}$$

Weather Conditions: partly cloudy, light wind

4-inch 0.0873 ft<sup>3</sup>/ft

Date and Time Last Calibrated: 6/3/25, 13:31

\\projects-dfs\projects\2023\40720\23\03\_DSGN03\_REPT02\_VADOSE\_ZONE\_MONITORING\OWL-II 9-Att II 9 C-VZMForm REV 2-27-2020.xls VZMForm

**Exhibit F**  
Nearby Weather Station Precipitation Data

**Exhibit F**  
**Nearby Weather Station Precipitation data, 2024-2025 Current and Historical Averages**

Station	Dist. (mi) <sup>1</sup>	P.O.R.	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	ANN. <sup>2</sup>
Jal Co-op Station (294346) <sup>3</sup>	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) <sup>3</sup>	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) <sup>3</sup>	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) <sup>1</sup>	P.O.R.	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	ANN. <sup>2</sup>
Loving, NM (KNMLOVIN28)	33.25	08/24 to 06/25	0.11	0.24	0.00	2.35	1.98	3.41	1.02	0.64	1.47	0.09	2.18	0.14	13.63

**NOTES:**

P.O.R.: Period of Record

<sup>1</sup>: "Dist." represents the distance from each weather station to the NDBL Facility

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

<sup>3</sup>: Co-op station data are obtained from the Western Regional Climate Center ([https://wrcc.dri.edu/Climate/west\\_coop\\_summaries.php](https://wrcc.dri.edu/Climate/west_coop_summaries.php))

<sup>4</sup>: Personal Weather Station data obtained from individual PWS web pages hosted by Weather Underground (<https://www.wunderground.com/dashboard/pws/KNMLOVIN28/graph/2024-12-31/2024-12-31/monthly>)

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

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/oed/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 499276

CONDITIONS

Operator: OWL LANDFILL SERVICES, LLC 3889 Maple Avenue Dallas, TX 75219	OGRID: 371820
	Action Number: 499276
	Action Type: [C-137] Non-Fee SWMF Submittal (SWMF NON-FEE SUBMITTAL)

CONDITIONS

Created By	Condition	Condition Date
joseph.kennedy	None	8/29/2025