

Gainesville Regional Utilities Deerhaven Generating Station



Coal Combustion Residuals Units 2025 Annual Groundwater Monitoring and Corrective Action Report

Prepared for:

Gainesville Regional Utilities
Gainesville, Florida

Prepared by:

Innovative Technical Solutions
Gainesville, Florida

January 2026



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ATTACHMENTS

- Attachment A. Groundwater Sampling Laboratory Analysis Reports
- Attachment B. Groundwater Sampling Field and Calibration Logs
- Attachment C. Potentiometric Contours and Site-Wide Groundwater Flow
Direction, First Semi-Annual 2025, and Second Semi-Annual 2025

List of Abbreviations

AMP	Assessment Monitoring Program
ASD	Alternative Sources Demonstration
CCR	Coal Combustion Residuals
CFR	Code of Federal Regulations
ECT	Environmental Compliance Technologies
GWMP	Groundwater Monitoring Plan
GWPS	Groundwater Protection Standard
GRU	Gainesville Regional Utilities
ITS	Innovative Technical Solutions
IWCS	Innovative Waste Consulting Services
LCL	Lower Confidence Limit
MCL	Maximum Contaminant Level
SIS	Surface Impoundment System
SSI	Statistically Significant Increase
SSL	Statistically Significant Level
TDS	Total Dissolved Solids
UES	Universal Engineering Sciences
USGS	United States Geological Survey

1.0 Current Status Overview

In accordance with 40 CFR 257.90(e)(6)(i) – (vi), the following is a summary of the current status of the units:

- The surface impoundment system (SIS) was closed by the removal of CCR. The CCR removal was completed on April 2, 2024.
- The landfill unit remains in assessment monitoring as of 2025.
- The following statistically significant increases (SSIs) over background were noted for Appendix III parameters for the landfill in 2025:
 - Boron (LF-3 and LF-5),
 - Chloride (LF-2),
 - pH (LF-4),
 - Sulfate (LF-2, LF-3, LF-4, and LF-5),
 - TDS (LF-2, LF-3, and LF-5), and
 - Fluoride (LF-2).
- The site has a history of localized naturally occurring radiological activity. Per the 2022 annual groundwater monitoring report, LF-5 showed radium 226 and 228 at a statistically significant level (SSL) above the GWPS. This area was evaluated and further sampled as part of an alternative source demonstration (ASD) completed in March 2022 and included in the 2022 annual groundwater monitoring report (ITS 2023). The results of this ASD confirm the earlier conclusions of the DGS radiological Plan of Study (ECT 2015): there is naturally occurring, highly spatially variable radiological activity at the site.
- No remedial actions were initiated or completed during 2025.

2.0 Site Background

Prior to closure of the surface impoundment system (SIS), the Deerhaven Generating Station (site) had two CCR units: the SIS and a landfill. The SIS was comprised of two ash ponds (i.e., Ash Cell #1, Ash Cell #2) located within the same slurry wall containment system. These ponds received cooling tower blowdown and bottom ash sluice water from the site's natural gas/coal-fired combustion unit (i.e., Unit 2) through a piping network that allowed for discharge to either pond.

When Unit 2 combusted coal, the CCR landfill primarily accepted flue gas desulfurization byproduct from the Unit 2 scrubbing process. Historically, the landfill had also accepted bottom ash that had periodically (i.e., approximately once every five years) been excavated from the SIS. The landfill also received lime sludge that was periodically dredged from front-end treatment sludge ponds. Though fly ash had been occasionally

deposited in the landfill, it was typically hauled offsite for beneficial use. Presently, the Deerhaven Generating Station has been operated primarily as a natural gas-fired unit that retains the ability to use coal.

The management of CCR is regulated by Title 40 of the Code of Federal Regulations, Part 257, Subpart D – Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments. These regulations include specific requirements for groundwater monitoring of CCR units. Specific details on the required content of this annual groundwater monitoring and corrective action report are enumerated in §257.90(e). As of January 10, 2018, the CCR landfill entered into an Assessment Monitoring Program (AMP) due to the detection of Appendix III parameters at an SSI above background. These Appendix III parameters are monitored as indicators of potential groundwater impacts but (with the exception of fluoride) do not have a groundwater protection standard (GWPS). Continued monitoring of Appendix III parameters is ongoing.

3.0 Well Installation and Decommissioning

The CCR Landfill groundwater monitoring well network was installed on March 7, 2017 (UES 2017). One upgradient well (LF-1) and five downgradient wells (LF-2, LF-3, LF-4, LF-5, and LF-6) are used for monitoring groundwater quality around the CCR landfill.

The three downgradient wells for the CCR landfill (LF-2, LF-3, and LF-4) were removed and reinstalled in 2019 as part of a perimeter stormwater ditch modification project (UES 2019). Two additional wells (LF-5 and LF-6) and a piezometer (PZ-7) were installed on the west side of the landfill in June 2020 for more accurate characterization of groundwater flow direction and quality on that side of the unit. The groundwater monitoring network (UES 2020) and the groundwater monitoring plan (GWMP) (ITS 2021) were updated to include these wells.

Table 3-1 below provides a summary of each well including ID, coordinates, and whether the well is classified as upgradient or downgradient. The coordinates are referenced to the North American Datum of 1983, Florida State Plane North 0903.

Table 3-1. Well Coordinates and Upgradient/Downgradient Designation

CCR Landfill			
Well ID	Northing	Easting	Upgradient/Downgradient
LF-1	284,852	2,635,464	Upgradient
LF-2	284,008	2,635,888	Downgradient
LF-3	283,992	2,635,457	Downgradient
LF-4	283,987	2,634,914	Downgradient
LF-5	284,315	2,634,787	Downgradient
LF-6	284,619	2,634,789	Downgradient

4.0 Key Actions Completed

The following key actions associated with groundwater monitoring of the CCR landfill have been completed in 2025 under the AMP established in January 2018:

- Continued sampling of Appendix III and Appendix IV parameters from the CCR landfill under the AMP. Tables summarizing sample collection dates are presented below in a set of tables.
- Statistical analysis of the downgradient measurements of Appendix III, and IV parameters for the CCR landfill for the AMP sampling events. A summary of these analyses are presented in the next section (5.0 Summary of Statistical Analysis Results).

Table 4-1. Well Sampling Dates and Total Samples Collected through July 2025.

Date	Landfill					
	LF-1	LF-2	LF-3	LF-4	LF-5	LF-6
10/5/2015						
1/25/2016						
4/8/2016						
7/28/2016						
10/20/2016						
1/9/2017						
4/5/2017						
4/17/2017	X	X	X	X		
5/15/2017	X	X	X	X		
5/30/2017	X	X	X	X		
6/19/2017	X	X	X	X		
7/9/2017	X	X	X	X		
7/10/2017						
7/31/2017	X	X	X	X		
8/22/2017	X	X	X	X		
9/18/2017	X	X	X	X		
1/23/2018	X	X	X	X		
1/24/2018						
2/15/2018	X	X	X	X		

Date	Landfill					
	LF-1	LF-2	LF-3	LF-4	LF-5	LF-6
2/16/2018						
3/8/2018	X	X	X	X		
4/3/2018	X	X	X	X		
4/4/2018						
7/17/2018	X	X	X	X		
7/18/2018						
1/16/2019	X	X	X	X		
1/17/2019						
5/9/2019	X	X	X	X		
5/10/2019	X					
7/16/2019	X	X	X	X		
7/17/2019						
10/25/2019		X	X	X		
1/14/2020						
1/15/2020	X	X	X			
1/16/2020						
1/17/2020				X		
7/21/2020						
7/22/2020						
7/23/2020	X	X	X	X		
9/3/2020						X
10/15/2020					X	X
11/18/2020					X	X
12/9/2020					X	X
1/12/2021						
1/14/2021	X	X	X	X	X	X
1/15/2021						
4/12/2021						
4/13/2021						
4/15/2021					X	X
7/18/2021						
7/26/2021						
7/27/2021	X	X	X	X	X	X
8/19/2021					X	X
9/3/2021					X	
1/24/2022						
1/26/2022	X					
1/27/2022					X	
1/28/2022		X	X	X		X
7/10/2022						
7/12/2022	X					
7/13/2022		X				
7/14/2022			X	X	X	X
1/8/2023						
1/10/2023	X	X	X	X	X	X
1/11/2023						
2/16/2023	X					

Date	Landfill					
	LF-1	LF-2	LF-3	LF-4	LF-5	LF-6
7/12/2023						
7/13/2023	X					
7/14/2023		X				
7/17/2023			X	X	X	X
1/8/2024						
1/10/2024						
1/11/2024	X	X				
1/12/2024			X	X		
1/17/2024					X	X
7/10/2024					X	X
7/11/2024	X	X	X	X		
2/4/2025	X					
2/5/2025		X	X	X	X	X
7/29/2025	X	X	X	X	X	X
Total Samples Collected	30	29	29	29	16	16

5.0 Summary of Statistical Analysis Results

5.1 Appendix III Parameters

Prediction limits were used to evaluate whether Appendix III parameters in downgradient wells sampled for the CCR unit were measured at a SSI above the respective background concentration. None of the prediction limits were updated this reporting year (i.e., 2025). Table 5-1 summarizes this analysis for Appendix III parameters.

Per the existing assessment monitoring program, several Appendix III parameters concentrations exhibited a SSI over the background levels at several wells, as shown in Table 5-1. The landfill will remain in assessment monitoring until all Appendix III and IV parameters concentrations are shown to be below the respective background level for two consecutive sampling events (§257.95(e)).

Table 5-1. Appendix III Parameters with SSLs in 2025

Parameter	Retest Strategy	Prediction Limit (mg/L)	Wells with an SSL			
			LF-2	LF-3	LF-4	LF-5
Boron	1-of-2	343		X		X
Chloride	1-of-2	23.2	X			
pH	1-of-2	5.21 – 6.61 ^{1.}			X	
Sulfate	1-of-2	35.9	X	X	X	X
TDS	1-of-2	345	X	X		X
Fluoride	1-of-2	0.12	X			

^{1.} Standard pH units

5.2 Appendix IV Parameters Sample Data Analysis

Table 5-2 summarizes the statistical analysis of Appendix IV parameters measured above the detection limit for. The table also presents the GWPS and the GWPS type. For parameters with at least one reading observed above the GWPS, the statistical method (and if applicable, retest frequency) used to evaluate whether there is a SSL above the GWPS (i.e., exceedance) is shown. No method is listed for parameters that were never measured above the GWPS for any sampling event.

Combined radium (226 and 228) at LF-5 has continued to be observed at a SSL above the GWPS as noted in Table 5-2. This is attributed to localized, naturally-occurring radiological activity in the soil, which has been identified in the general region (USGS 1989) and specifically on-site (ECT 2015). This alternative source was further investigated in March of 2022 as an ASD for radium groundwater impacts at LF-5 near the CCR Landfill. This ASD was included in the subsequent annual groundwater monitoring report (ITS 2023). The ASD concluded that the elevated radium levels are due to naturally occurring radium located in the clay layer in the vicinity of LF-5.

Lab reports and field logs for samples collected from the CCR landfill wells in 2025 are included in Attachments A and B. As required by §257.90(e)(3), the laboratory results for all groundwater sampling events analyzed over the time period covered by this report are included as Attachment A. Field logs including pH readings (an Appendix III parameter) and the depth-to-liquid measurements for all CCR well sampling events are included in this report as Attachment B.

Table 5-2. Statistical Analysis Details and Results for Appendix IV Parameters

Parameter	Detected in Downgradient Wells?	GWPS		GWPS Type	Statistical Method to Assess Non Excluded Well Data With One or More Measurements Above the GWPS	Exceedance
		Value	Units			
Antimony	Yes	6	ug/L	MCL	-	No
Lithium	Yes	40	ug/L	MCL	-	No
Thallium	Yes	3	ug/L	MCL	-	No
Fluoride	Yes	4	mg/L	MCL	-	No
Arsenic	Yes	10	ug/L	MCL	-	No
Barium	Yes	2000	ug/L	MCL	-	No
Beryllium	Yes	4	ug/L	MCL	-	No
Cadmium	Yes	5	ug/L	MCL	-	No
Chromium	Yes	100	ug/L	MCL	-	No
Cobalt	Yes	6	ug/L	MCL	Parametric 95% LCL for Mean	No
Lead	Yes	15	ug/L	MCL	-	No
Molybdenum	Yes	100	ug/L	MCL	-	No
Selenium	Yes	50	ug/L	MCL	-	No
Mercury	Yes	2	ug/L	MCL	-	No
Radium 226 and 228	Yes	5	pCi/L	MCL	Parametric 95% LCL for Mean	Yes, for LF-5, see ASD (ITS 2023)

6.0 Groundwater Monitoring Program Status of CCR Unit

Because Appendix III and/or IV parameters were detected at levels showing a SSI over background concentrations for the CCR landfill, the unit will remain under the AMP, which was initially established on January 10, 2018 (i.e., within the 90 days provided by §257.94(e)(1)).

Sample results from LF-5, added in 2020, continue to show elevated levels of combined radium. Combined radium results from LF-5 were reported as an SSL over the GWPS in 2021. An ASD was completed in March 2022, which demonstrated that the radium is a result of a naturally occurring, spatially heterogeneous native clay layer located in the vicinity of LF-5 (ITS 2023). Given the spatially and temporally heterogeneous trends of naturally occurring radium discussed in the ASD, the spatial homogeneity assumption of interwell testing cannot be held, and interwell testing is not able to detect an SSL of combined radium at this well. Given that there is no background data for LF-5 before waste placement, intrawell testing cannot detect an SSL above the GWPS of combined radium at LF-5. Combined radium will not be considered an SSL under assessment monitoring for LF-5.

7.0 Upcoming Activities

Prediction limits with retesting are expected to be updated in approximately three to four years for parameters for which 8 new samples are available, as described in the GWMP (ITS 2021). The prediction limits for boron, calcium, and chloride were last updated in 2023, while the prediction limits for pH, sulfate, TDS, and fluoride were last updated in 2024. Updates to the prediction limits for all Appendix III parameters are expected to be made in 2027-2028.

Groundwater sampling will continue under the AMP, including January and July 2026 (i.e., semi-annual) sampling of all previously-detected Appendix III/IV parameters and July 2026 (i.e., annual) sampling of all Appendix III/IV parameters. Monitoring of Appendix III/IV parameters under the AMP will continue until the occurrence of two consecutive sampling events with no SSI above background concentrations, in which case the unit will be returned to detection monitoring.

8.0 Rate and Direction of Groundwater Flow

The CCR landfill is surrounded by a slurry wall containment system keyed into an existing natural clay layer – the CCR unit was designed to be hydraulically isolated from the surrounding surficial aquifer. Therefore, it is not possible to use the groundwater monitoring wells located outside the slurry wall of the CCR unit to estimate the groundwater flow rate and direction of the uppermost aquifer beneath it.

An existing site (non-CCR) groundwater monitoring well network (including 12 wells) is currently being monitored on a quarterly basis. Depth-to-liquid readings from the semi-annual and annual groundwater monitoring events from this site-wide groundwater monitoring well network were used to develop an estimate of the rate and direction of groundwater flow in the uppermost aquifer at the site. The groundwater elevation data from all site wells and piezometers were used for the development of the potentiometric contour maps presented in Attachment C. Potentiometric contour maps were developed using QGIS software. The average gradient of the uppermost aquifer groundwater flow between background and downgradient wells at the site was found to be 0.002 ft/ft for both the first and second semi-annual sampling events.

As described in the Groundwater Sampling and Analysis Program for the CCR Units (ITS 2021), the rate of groundwater flow can be calculated using the following equation:

$$V = \frac{K * i}{N_e}$$

Where:

- V is equal to the groundwater velocity,
- K is the hydraulic conductivity of aquifer,
- i the hydraulic gradient,
- N_e is the effective porosity of the aquifer

The effective porosity and hydraulic conductivity of the native surficial silty-sandy soils of the site were estimated by UES (2017). The effective porosity is estimated as the midpoint of the fillable porosity range provided: 17.5%. The hydraulic conductivity is estimated as the midpoint of values provided for the horizontal hydraulic conductivity: 3.0 feet per day. Therefore, the estimated average groundwater velocity at the site is approximately 0.03 feet per day.

9.0 References

- ECT (2015). Arsenic and Gross Alpha Exceedances: Plan of Study. Deerhaven Generating Station, Gainesville, Florida.
- ITS (2021). Groundwater Sampling and Analysis Program for the Coal Combustion Residuals Units. Gainesville Regional Utilities Deerhaven Generating Station. Innovative Technical Solutions, LLC (ITS).
- ITS (2023). 2022 Annual Groundwater Monitoring and Corrective Action Report. Prepared for Gainesville Regional Utilities, Deerhaven Generating Station by Innovative Waste Consulting Services, January 2018.
- UES (2017). Geotechnical Consulting Services – Coal Combustion Residuals (CCR) Surface Impoundment System and Landfill Groundwater Monitoring Systems Design and Construction. Prepared by Universal Engineering Sciences for Innovative Waste Consulting Services, LLC. April 6, 2017.
- UES (2019). Coal Combustion Residuals (CCR) Surface Impoundment System and Updated Landfill Groundwater Monitoring Systems Design and Construction. Prepared by Universal Engineering Sciences for Innovative Waste Consulting Services, LLC. July 10, 2019, Draft Report.
- UES (2020). Geotechnical Consulting Services – Coal Combustion Residuals (CCR) Surface Impoundment System and Updated Landfill Groundwater Monitoring Systems Design and Construction, Deerhaven Generating Station (DGS), 10001 NW 13th Street, Gainesville, Alachua County, Florida. Prepared for Innovative Waste Consulting Services, LLC by Universal Engineering Sciences, November 2020.
- USGS (1989). Geochemistry of the Floridan Aquifer System in Florida and in Parts of Georgia, South Carolina, and Alabama. U.S. Geological Survey Professional Paper 1403-1.

10.0 Professional Engineer Certification

This plan was prepared under the supervision, direction and control of the undersigned, registered professional engineer (PE). The undersigned PE is familiar with and has prepared this annual groundwater monitoring and correction action report in accordance with the requirements of 40 CFR 257.90(e).

Name of Professional Engineer: James R. Wally

Company: Innovative Technical Solutions, LLC

PE Registration State: Florida

PE License No.: 85405

This item has been digitally signed and sealed by James Wally, PE, on the date adjacent to the seal.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Attachment A

Sampling Laboratory Analysis Reports



March 07, 2025

Mr. Jeffery Boudreau
Deerhaven Lab
P.O. Box 147117, Station D38
Gainesville, FL 32614

RE: Project: ENV1Q25 Set 3
Pace Project No.: 35936914

Dear Mr. Boudreau:

Enclosed are the analytical results for sample(s) received by the laboratory on February 13, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay
- Pace Analytical Services - Ormond Beach
- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Jeff Baylor".

Jeff Baylor
jeff.baylor@pacelabs.com
(386)672-5668
Project Manager

Enclosures

cc: Kent Brakefield
Kimberly Morrison, Deerhaven Labs



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: ENV1Q25 Set 3

Pace Project No.: 35936914

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

ANABISO/IEC 17025:2017 Rad Cert#: L24170

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 2950

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA010

Louisiana DEQ/TNI Certification #: 04086

Maine Certification #: 2023021

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572023-03

New Hampshire/TNI Certification #: 297622

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-015

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN02867

Texas/TNI Certification #: T104704188-22-18

Utah/TNI Certification #: PA014572223-14

USDA Soil Permit #: 525-23-67-77263

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST

Alabama Certification #: 41320

California Certification# 3096

Colorado Certification: FL NELAC Reciprocity

Connecticut Certification #: PH-0216

Delaware Certification: FL NELAC Reciprocity

DoD-ANAB #:ADE-3199

Florida Certification #: E83079

Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity

Hawaii Certification: FL NELAC Reciprocity

Illinois Certification #: 200068

Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383

Kentucky Certification #: 90050

Louisiana Certification #: FL NELAC Reciprocity

Louisiana Environmental Certificate #: 05007

Maine Certification #: FL01264

Maryland Certification: #346

Massachusetts Certification #: M-FL1264

Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236

Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14

Nevada Certification: FL NELAC Reciprocity

New Hampshire Certification #: 2958

New Jersey Certification #: FL022

New York Certification #: 11608

North Carolina Environmental Certificate #: 667

North Carolina Certification #: 12710

North Dakota Certification #: R-216

Ohio DEP 87780

Oklahoma Certification #: D9947

Pennsylvania Certification #: 68-00547

Puerto Rico Certification #: FL01264

South Carolina Certification: #96042001

Tennessee Certification #: TN02974

Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity

Utah FL NELAC Reciprocity

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CERTIFICATIONS

Project: ENV1Q25 Set 3
Pace Project No.: 35936914

Pace Analytical Services Ormond Beach

Utah
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C

Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150

South Carolina Certification #: 83006001
Texas Certification #: T104704529-21-8
Virginia VELAP Certification ID: 11873
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-21-00008
Federal Fish & Wildlife Permit #: 51774A

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: ENV1Q25 Set 3

Pace Project No.: 35936914

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35936914001	1Q25-SIS-1	Water	02/04/25 10:27	02/13/25 11:20
35936914002	1Q25-SIS-2	Water	02/04/25 11:19	02/13/25 11:20
35936914003	1Q25-SIS-3	Water	02/04/25 12:26	02/13/25 11:20
35936914004	1Q25-SIS-4	Water	02/04/25 13:33	02/13/25 11:20
35936914005	1Q25-LF-1	Water	02/04/25 09:30	02/13/25 11:20
35936914006	1Q25-LF-2	Water	02/05/25 10:30	02/13/25 11:20
35936914007	1Q25-LF-3	Water	02/05/25 11:12	02/13/25 11:20
35936914008	1Q25-LF-4	Water	02/05/25 12:06	02/13/25 11:20
35936914009	1Q25-LF-5	Water	02/05/25 13:42	02/13/25 11:20
35936914010	1Q25-LF-6	Water	02/05/25 14:29	02/13/25 11:20
35936914011	1Q25-EBLANK2	Water	02/05/25 12:24	02/13/25 11:20
35936914012	1Q25-barnstead	Water	02/02/25 08:15	02/13/25 11:20

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: ENV1Q25 Set 3

Pace Project No.: 35936914

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35936914001	1Q25-SIS-1	EPA 6020B	SIS	4	PASI-G
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	EAD	3	PASI-O
35936914002	1Q25-SIS-2	EPA 6020B	SIS	4	PASI-G
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	EAD	3	PASI-O
35936914003	1Q25-SIS-3	EPA 6020B	SIS	4	PASI-G
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	EAD	3	PASI-O
35936914004	1Q25-SIS-4	EPA 6020B	SIS	4	PASI-G
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	EAD	3	PASI-O
35936914005	1Q25-LF-1	EPA 6020B	SIS	4	PASI-G
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	EAD	3	PASI-O
35936914006	1Q25-LF-2	EPA 6020B	SIS	4	PASI-G
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	EAD	3	PASI-O
35936914007	1Q25-LF-3	EPA 6020B	KXS, SIS	4	PASI-G
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	EAD	3	PASI-O
35936914008	1Q25-LF-4	EPA 6020B	SIS	4	PASI-G
		EPA 903.1	LL1	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: ENV1Q25 Set 3

Pace Project No.: 35936914

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35936914009	1Q25-LF-5	EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB	3	PASI-O
		EPA 6020B	KXS, SIS	4	PASI-G
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
35936914010	1Q25-LF-6	EPA 300.0	CMB	3	PASI-O
		EPA 6020B	SIS	4	PASI-G
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
35936914011	1Q25-EBLANK2	EPA 300.0	CMB	3	PASI-O
		EPA 6020B	SIS	4	PASI-G
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
35936914012	1Q25-barnstead	EPA 300.0	CMB	3	PASI-O
		EPA 6020B	SIS	4	PASI-G
		EPA 300.0	CMB	3	PASI-O

PASI-G = Pace Analytical Services - Green Bay
PASI-O = Pace Analytical Services - Ormond Beach
PASI-PA = Pace Analytical Services - Greensburg

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ANALYTICAL RESULTS

Project: ENV1Q25 Set 3

Pace Project No.: 35936914

Sample: 1Q25-LF-1 Lab ID: 35936914005 Collected: 02/04/25 09:30 Received: 02/13/25 11:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Antimony	0.29 I	ug/L	1.0	0.15	1	02/24/25 08:24	02/25/25 06:08	7440-36-0	
Boron	72.2	ug/L	10.0	3.0	1	02/24/25 08:24	02/25/25 06:08	7440-42-8	
Lithium	2.4	ug/L	1.0	0.22	1	02/24/25 08:24	02/25/25 06:08	7439-93-2	
Thallium	0.14 U	ug/L	1.0	0.14	1	02/24/25 08:24	02/25/25 06:08	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	18.1	mg/L	5.0	2.5	1		02/26/25 01:45	16887-00-6	
Fluoride	0.047 I	mg/L	0.050	0.015	1		02/26/25 01:45	16984-48-8	
Sulfate	11.6	mg/L	5.0	2.5	1		02/26/25 01:45	14808-79-8	

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ANALYTICAL RESULTS

Project: ENV1Q25 Set 3

Pace Project No.: 35936914

Sample: 1Q25-LF-2 Lab ID: 35936914006 Collected: 02/05/25 10:30 Received: 02/13/25 11:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Antimony	0.15 U	ug/L	1.0	0.15	1	02/24/25 08:24	02/25/25 06:12	7440-36-0	
Boron	107	ug/L	10.0	3.0	1	02/24/25 08:24	02/25/25 06:12	7440-42-8	
Lithium	0.95 I	ug/L	1.0	0.22	1	02/24/25 08:24	02/25/25 06:12	7439-93-2	
Thallium	0.14 U	ug/L	1.0	0.14	1	02/24/25 08:24	02/25/25 06:12	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	54.9	mg/L	5.0	2.5	1		02/26/25 02:07	16887-00-6	
Fluoride	0.26	mg/L	0.050	0.015	1		02/26/25 02:07	16984-48-8	
Sulfate	137	mg/L	25.0	12.5	5		02/26/25 08:37	14808-79-8	

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ANALYTICAL RESULTS

Project: ENV1Q25 Set 3

Pace Project No.: 35936914

Sample: 1Q25-LF-3 Lab ID: 35936914007 Collected: 02/05/25 11:12 Received: 02/13/25 11:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Antimony	0.15 U	ug/L	1.0	0.15	1	02/24/25 08:24	02/25/25 06:16	7440-36-0	
Boron	1460	ug/L	100	30.3	10	02/24/25 08:24	02/25/25 10:29	7440-42-8	
Lithium	0.22 U	ug/L	1.0	0.22	1	02/24/25 08:24	02/25/25 06:16	7439-93-2	
Thallium	0.14 U	ug/L	1.0	0.14	1	02/24/25 08:24	02/25/25 06:16	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	18.2	mg/L	5.0	2.5	1		02/26/25 02:29	16887-00-6	
Fluoride	0.040 I	mg/L	0.050	0.015	1		02/26/25 02:29	16984-48-8	
Sulfate	70.4	mg/L	5.0	2.5	1		02/26/25 02:29	14808-79-8	

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ANALYTICAL RESULTS

Project: ENV1Q25 Set 3

Pace Project No.: 35936914

Sample: 1Q25-LF-4 Lab ID: 35936914008 Collected: 02/05/25 12:06 Received: 02/13/25 11:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Antimony	0.15 U	ug/L	1.0	0.15	1	02/24/25 08:24	02/25/25 06:20	7440-36-0	
Boron	135	ug/L	10.0	3.0	1	02/24/25 08:24	02/25/25 06:20	7440-42-8	
Lithium	5.5	ug/L	1.0	0.22	1	02/24/25 08:24	02/25/25 06:20	7439-93-2	
Thallium	0.14 U	ug/L	1.0	0.14	1	02/24/25 08:24	02/25/25 06:20	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	6.9	mg/L	5.0	2.5	1		02/27/25 18:38	16887-00-6	
Fluoride	0.088	mg/L	0.050	0.015	1		02/27/25 18:38	16984-48-8	
Sulfate	38.2	mg/L	5.0	2.5	1		02/27/25 18:38	14808-79-8	

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ANALYTICAL RESULTS

Project: ENV1Q25 Set 3

Pace Project No.: 35936914

Sample: 1Q25-LF-5 Lab ID: 35936914009 Collected: 02/05/25 13:42 Received: 02/13/25 11:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Antimony	0.40 I	ug/L	1.0	0.15	1	02/24/25 08:24	02/25/25 06:24	7440-36-0	
Boron	635	ug/L	50.0	15.2	5	02/24/25 08:24	02/25/25 10:33	7440-42-8	
Lithium	1.2	ug/L	1.0	0.22	1	02/24/25 08:24	02/25/25 06:24	7439-93-2	
Thallium	0.14 U	ug/L	1.0	0.14	1	02/24/25 08:24	02/25/25 06:24	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	22.7	mg/L	5.0	2.5	1		02/27/25 19:43	16887-00-6	
Fluoride	0.11	mg/L	0.050	0.015	1		02/27/25 19:43	16984-48-8	
Sulfate	365	mg/L	50.0	25.0	10		02/28/25 10:57	14808-79-8	

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ANALYTICAL RESULTS

Project: ENV1Q25 Set 3

Pace Project No.: 35936914

Sample: 1Q25-LF-6 Lab ID: 35936914010 Collected: 02/05/25 14:29 Received: 02/13/25 11:20 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Antimony	0.33 I	ug/L	1.0	0.15	1	02/24/25 08:24	02/25/25 06:29	7440-36-0	
Boron	13.9	ug/L	10.0	3.0	1	02/24/25 08:24	02/25/25 06:29	7440-42-8	
Lithium	0.22 U	ug/L	1.0	0.22	1	02/24/25 08:24	02/25/25 06:29	7439-93-2	
Thallium	0.14 U	ug/L	1.0	0.14	1	02/24/25 08:24	02/25/25 06:29	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	3.3 I	mg/L	5.0	2.5	1		02/27/25 20:04	16887-00-6	
Fluoride	0.041 I	mg/L	0.050	0.015	1		02/27/25 20:04	16984-48-8	
Sulfate	17.0	mg/L	5.0	2.5	1		02/27/25 20:04	14808-79-8	

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ANALYTICAL RESULTS

Project: ENV1Q25 Set 3

Pace Project No.: 35936914

Sample: 1Q25-EBLANK2		Lab ID: 35936914011		Collected: 02/05/25 12:24		Received: 02/13/25 11:20		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Antimony	0.15 U	ug/L	1.0	0.15	1	02/24/25 08:24	02/25/25 05:17	7440-36-0	
Boron	3.0 U	ug/L	10.0	3.0	1	02/24/25 08:24	02/25/25 05:17	7440-42-8	
Lithium	0.22 U	ug/L	1.0	0.22	1	02/24/25 08:24	02/25/25 05:17	7439-93-2	
Thallium	0.14 U	ug/L	1.0	0.14	1	02/24/25 08:24	02/25/25 05:17	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	2.5 U	mg/L	5.0	2.5	1		02/27/25 20:25	16887-00-6	
Fluoride	0.015 U	mg/L	0.050	0.015	1		02/27/25 20:25	16984-48-8	
Sulfate	2.5 U	mg/L	5.0	2.5	1		02/27/25 20:25	14808-79-8	

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QUALITY CONTROL DATA

Project: ENV1Q25 Set 3

Pace Project No.: 35936914

QC Batch:	497740	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3010A	Analysis Description:	6020B MET
		Laboratory:	Pace Analytical Services - Green Bay
Associated Lab Samples:	35936914001, 35936914002, 35936914003, 35936914004, 35936914005, 35936914006, 35936914007, 35936914008, 35936914009, 35936914010, 35936914011, 35936914012		

METHOD BLANK:	2843883	Matrix:	Water
Associated Lab Samples:	35936914001, 35936914002, 35936914003, 35936914004, 35936914005, 35936914006, 35936914007, 35936914008, 35936914009, 35936914010, 35936914011, 35936914012		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.15 U	1.0	0.15	02/25/25 05:13	
Boron	ug/L	3.0 U	10.0	3.0	02/25/25 05:13	
Lithium	ug/L	0.22 U	1.0	0.22	02/25/25 05:13	
Thallium	ug/L	0.14 U	1.0	0.14	02/25/25 05:13	

LABORATORY CONTROL SAMPLE:	2843884
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Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	250	222	89	80-120	
Boron	ug/L	250	208	83	80-120	
Lithium	ug/L	250	223	89	80-120	
Thallium	ug/L	250	217	87	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	2843885	2843886
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Parameter	Units	35936914001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	0.29 I	250	250	234	233	94	93	75-125	1	20	
Boron	ug/L	9.0 I	250	250	232	230	89	88	75-125	1	20	
Lithium	ug/L	0.22 U	250	250	234	232	94	93	75-125	1	20	
Thallium	ug/L	0.25 I	250	250	229	231	92	92	75-125	1	20	

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QUALITY CONTROL DATA

Project: ENV1Q25 Set 3
Pace Project No.: 35936914

QC Batch: 1079657 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35936914001, 35936914002, 35936914003, 35936914004, 35936914005, 35936914006, 35936914007

METHOD BLANK: 5926307 Matrix: Water
Associated Lab Samples: 35936914001, 35936914002, 35936914003, 35936914004, 35936914005, 35936914006, 35936914007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	02/25/25 17:16	
Fluoride	mg/L	0.015 U	0.050	0.015	02/25/25 17:16	
Sulfate	mg/L	2.5 U	5.0	2.5	02/25/25 17:16	

LABORATORY CONTROL SAMPLE: 5926308

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.1	96	90-110	
Fluoride	mg/L	5	5.1	102	90-110	
Sulfate	mg/L	50	47.2	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5927272 5927273

Parameter	Units	35938433002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	72.8	50	50	126	126	106	106	90-110	0	20	L
Fluoride	mg/L	0.67	5	5	5.8	5.9	103	104	90-110	0	20	
Sulfate	mg/L	12.2	50	50	60.6	60.7	97	97	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5927274 5927275

Parameter	Units	35936914001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	36.4	50	50	88.4	88.6	104	104	90-110	0	20	
Fluoride	mg/L	0.16	5	5	5.2	5.2	101	101	90-110	0	20	
Sulfate	mg/L	44.6	50	50	98.1	98.2	107	107	90-110	0	20	

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QUALITY CONTROL DATA

Project: ENV1Q25 Set 3

Pace Project No.: 35936914

QC Batch:	1079915	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35936914008, 35936914009, 35936914010, 35936914011, 35936914012

METHOD BLANK: 5927434

Matrix: Water

Associated Lab Samples: 35936914008, 35936914009, 35936914010, 35936914011, 35936914012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	02/27/25 17:55	
Fluoride	mg/L	0.015 U	0.050	0.015	02/27/25 17:55	
Sulfate	mg/L	2.5 U	5.0	2.5	02/27/25 17:55	

LABORATORY CONTROL SAMPLE: 5927435

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.2	98	90-110	
Fluoride	mg/L	5	5.3	105	90-110	
Sulfate	mg/L	50	47.5	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5932674 5932675

Parameter	Units	35936914008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	6.9	50	50	53.5	55.4	93	97	90-110	4	20	
Fluoride	mg/L	0.088	5	5	5.1	5.3	100	104	90-110	4	20	
Sulfate	mg/L	38.2	50	50	88.8	91.0	101	106	90-110	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5932676 5932677

Parameter	Units	35936918006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	13.3	50	50	59.6	63.5	93	101	90-110	6	20	
Fluoride	mg/L	0.38	5	5	5.2	5.6	97	105	90-110	8	20	
Sulfate	mg/L	12.9	50	50	57.3	61.1	89	96	90-110	6	20 J(M1)	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q25 Set 3

Pace Project No.: 35936914

Sample: 1Q25-LF-1		Lab ID: 35936914005	Collected: 02/04/25 09:30	Received: 02/13/25 11:20	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 903.1	1.72U ± 0.999 (1.72) C:NA T:95%		pCi/L	03/07/25 14:22	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 904.0	0.901 ± 0.466 (0.812) C:71% T:84%		pCi/L	03/06/25 14:02	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	2.53U ± 1.47 (2.53)		pCi/L	03/07/25 15:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q25 Set 3

Pace Project No.: 35936914

Sample: 1Q25-LF-2		Lab ID: 35936914006	Collected: 02/05/25 10:30	Received: 02/13/25 11:20	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 903.1	1.78U ± 0.980 (1.78) C:NA T:93%		pCi/L	03/07/25 14:22	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 904.0	1.13 ± 0.535 (0.911) C:74% T:82%		pCi/L	03/06/25 14:02	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	2.69U ± 1.52 (2.69)		pCi/L	03/07/25 15:59	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q25 Set 3

Pace Project No.: 35936914

Sample: 1Q25-LF-3		Lab ID: 35936914007	Collected: 02/05/25 11:12	Received: 02/13/25 11:20	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 903.1	2.27U ± 1.30 (2.27) C:NA T:90%		pCi/L	03/07/25 14:22	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 904.0	0.967 ± 0.533 (0.953) C:67% T:80%		pCi/L	03/06/25 14:02	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	3.22U ± 1.83 (3.22)		pCi/L	03/07/25 15:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q25 Set 3

Pace Project No.: 35936914

Sample: 1Q25-LF-4		Lab ID: 35936914008	Collected: 02/05/25 12:06	Received: 02/13/25 11:20	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 903.1	1.70U ± 0.844 (1.70) C:NA T:96%		pCi/L	03/07/25 14:22	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 904.0	0.856U ± 0.434 (0.856) C:74% T:80%		pCi/L	03/06/25 14:02	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	2.56U ± 1.28 (2.56)		pCi/L	03/07/25 15:59	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q25 Set 3

Pace Project No.: 35936914

Sample: 1Q25-LF-5		Lab ID: 35936914009	Collected: 02/05/25 13:42	Received: 02/13/25 11:20	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	03/07/25 14:22	13982-63-3	
	EPA 903.1	4.81 ± 1.63 (1.57) C:NA T:87%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	03/06/25 14:02	15262-20-1	
	EPA 904.0	3.73 ± 0.940 (0.816) C:72% T:79%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	03/07/25 15:59	7440-14-4	
	Total Radium Calculation	8.54 ± 2.57 (2.39)					

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q25 Set 3

Pace Project No.: 35936914

Sample: 1Q25-LF-6		Lab ID: 35936914010	Collected: 02/05/25 14:29	Received: 02/13/25 11:20	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	03/07/25 14:22	13982-63-3	
	EPA 903.1	1.80U ± 1.04 (1.80) C:NA T:99%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	03/06/25 14:03	15262-20-1	
	EPA 904.0	0.917U ± 0.503 (0.917) C:70% T:84%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	03/07/25 15:59	7440-14-4	
	Total Radium Calculation	2.72U ± 1.54 (2.72)					

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV1Q25 Set 3

Pace Project No.: 35936914

Sample: 1Q25-EBLANK2		Lab ID: 35936914011	Collected: 02/05/25 12:24	Received: 02/13/25 11:20	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 903.1	1.74U ± 0.961 (1.74) C:NA T:94%		pCi/L	03/07/25 14:42	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 904.0	0.984U ± 0.419 (0.984) C:67% T:84%		pCi/L	03/06/25 14:03	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	2.72U ± 1.38 (2.72)		pCi/L	03/07/25 15:59	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: ENV1Q25 Set 3

Pace Project No.: 35936914

QC Batch:	727508	Analysis Method:	EPA 903.1
QC Batch Method:	EPA 903.1	Analysis Description:	903.1 Radium-226
		Laboratory:	Pace Analytical Services - Greensburg
Associated Lab Samples:	35936914001, 35936914002, 35936914003, 35936914004, 35936914005, 35936914006, 35936914007, 35936914008, 35936914009, 35936914010, 35936914011		

METHOD BLANK:	3541320	Matrix:	Water
Associated Lab Samples:	35936914001, 35936914002, 35936914003, 35936914004, 35936914005, 35936914006, 35936914007, 35936914008, 35936914009, 35936914010, 35936914011		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.297 ± 0.345 (0.557) C:NA T:93%	pCi/L	03/07/25 13:52	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: ENV1Q25 Set 3

Pace Project No.: 35936914

QC Batch:	727509	Analysis Method:	EPA 904.0
QC Batch Method:	EPA 904.0	Analysis Description:	904.0 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg
Associated Lab Samples:	35936914001, 35936914002, 35936914003, 35936914004, 35936914005, 35936914006, 35936914007, 35936914008, 35936914009, 35936914010, 35936914011		

METHOD BLANK:	3541321	Matrix:	Water
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Associated Lab Samples: 35936914001, 35936914002, 35936914003, 35936914004, 35936914005, 35936914006, 35936914007, 35936914008, 35936914009, 35936914010, 35936914011

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.438 ± 0.357 (0.701) C:67% T:88%	pCi/L	03/06/25 10:49	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: ENV1Q25 Set 3
Pace Project No.: 35936914

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Act - Activity
Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).
Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)
(MDC) - Minimum Detectable Concentration
Trac - Tracer Recovery (%)
Carr - Carrier Recovery (%)
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Compound was analyzed for but not detected.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
L	Off-scale high. Actual value is known to be greater than value given.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ENV1Q25 Set 3

Pace Project No.: 35936914

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35936914001	1Q25-SIS-1	EPA 3010A	497740	EPA 6020B	497823
35936914002	1Q25-SIS-2	EPA 3010A	497740	EPA 6020B	497823
35936914003	1Q25-SIS-3	EPA 3010A	497740	EPA 6020B	497823
35936914004	1Q25-SIS-4	EPA 3010A	497740	EPA 6020B	497823
35936914005	1Q25-LF-1	EPA 3010A	497740	EPA 6020B	497823
35936914006	1Q25-LF-2	EPA 3010A	497740	EPA 6020B	497823
35936914007	1Q25-LF-3	EPA 3010A	497740	EPA 6020B	497823
35936914008	1Q25-LF-4	EPA 3010A	497740	EPA 6020B	497823
35936914009	1Q25-LF-5	EPA 3010A	497740	EPA 6020B	497823
35936914010	1Q25-LF-6	EPA 3010A	497740	EPA 6020B	497823
35936914011	1Q25-EBLANK2	EPA 3010A	497740	EPA 6020B	497823
35936914012	1Q25-barnstead	EPA 3010A	497740	EPA 6020B	497823
35936914001	1Q25-SIS-1	EPA 903.1	727508		
35936914002	1Q25-SIS-2	EPA 903.1	727508		
35936914003	1Q25-SIS-3	EPA 903.1	727508		
35936914004	1Q25-SIS-4	EPA 903.1	727508		
35936914005	1Q25-LF-1	EPA 903.1	727508		
35936914006	1Q25-LF-2	EPA 903.1	727508		
35936914007	1Q25-LF-3	EPA 903.1	727508		
35936914008	1Q25-LF-4	EPA 903.1	727508		
35936914009	1Q25-LF-5	EPA 903.1	727508		
35936914010	1Q25-LF-6	EPA 903.1	727508		
35936914011	1Q25-EBLANK2	EPA 903.1	727508		
35936914001	1Q25-SIS-1	EPA 904.0	727509		
35936914002	1Q25-SIS-2	EPA 904.0	727509		
35936914003	1Q25-SIS-3	EPA 904.0	727509		
35936914004	1Q25-SIS-4	EPA 904.0	727509		
35936914005	1Q25-LF-1	EPA 904.0	727509		
35936914006	1Q25-LF-2	EPA 904.0	727509		
35936914007	1Q25-LF-3	EPA 904.0	727509		
35936914008	1Q25-LF-4	EPA 904.0	727509		
35936914009	1Q25-LF-5	EPA 904.0	727509		
35936914010	1Q25-LF-6	EPA 904.0	727509		
35936914011	1Q25-EBLANK2	EPA 904.0	727509		
35936914001	1Q25-SIS-1	Total Radium Calculation	731461		
35936914002	1Q25-SIS-2	Total Radium Calculation	731461		
35936914003	1Q25-SIS-3	Total Radium Calculation	731461		
35936914004	1Q25-SIS-4	Total Radium Calculation	731461		
35936914005	1Q25-LF-1	Total Radium Calculation	731461		
35936914006	1Q25-LF-2	Total Radium Calculation	731461		
35936914007	1Q25-LF-3	Total Radium Calculation	731461		
35936914008	1Q25-LF-4	Total Radium Calculation	731461		
35936914009	1Q25-LF-5	Total Radium Calculation	731461		
35936914010	1Q25-LF-6	Total Radium Calculation	731461		
35936914011	1Q25-EBLANK2	Total Radium Calculation	731461		
35936914001	1Q25-SIS-1	EPA 300.0	1079657		
35936914002	1Q25-SIS-2	EPA 300.0	1079657		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ENV1Q25 Set 3

Pace Project No.: 35936914

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35936914003	1Q25-SIS-3	EPA 300.0	1079657		
35936914004	1Q25-SIS-4	EPA 300.0	1079657		
35936914005	1Q25-LF-1	EPA 300.0	1079657		
35936914006	1Q25-LF-2	EPA 300.0	1079657		
35936914007	1Q25-LF-3	EPA 300.0	1079657		
35936914008	1Q25-LF-4	EPA 300.0	1079915		
35936914009	1Q25-LF-5	EPA 300.0	1079915		
35936914010	1Q25-LF-6	EPA 300.0	1079915		
35936914011	1Q25-EBLANK2	EPA 300.0	1079915		
35936914012	1Q25-barnstead	EPA 300.0	1079915		

REPORT OF LABORATORY ANALYSIS

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LAB USE ONLY - Affix Workorder/Login Label Here

Scan QR Code for instructions

ENV-FRM-CORQ-0019_v02_110123 ©

WO#: 35936914

PM: JSB

Due Date: 03/03/25

CLIENT: DEELAB

Project #

Project Manager:

Client:

Date and Initials of person:

Examining contents:

Verifying pH:

Thermometer Used: T-414

Date: 2/13/25

Time: 1147

Initials: AES

State of Origin:

☐ For WV projects, all containers verified to $\leq 6^{\circ}\text{C}$

Cooler #1 Temp. $^{\circ}\text{C}$ 4.7 (Visual) -0.3 (Correction Factor) 4.4 (Actual)

Cooler #2 Temp. $^{\circ}\text{C}$ 20.1 (Visual) -0.3 (Correction Factor) 19.8 (Actual) NDS

Cooler #3 Temp. $^{\circ}\text{C}$ 19.6 (Visual) -0.3 (Correction Factor) 19.3 (Actual) NDS

Cooler #4 Temp. $^{\circ}\text{C}$ 20.3 (Visual) -0.3 (Correction Factor) 20.0 (Actual) NDS

Cooler #5 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

Cooler #6 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

Recheck for OOT $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

☐ Samples on ice, cooling process has begun.

☐ Samples on ice, cooling process has begun.

☐ Samples on ice, cooling process has begun.

☐ Samples on ice, cooling process has begun.

☐ Samples on ice, cooling process has begun.

☐ Samples on ice, cooling process has begun.

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Shipping Method: ☐ Standard Overnight ☐ First Overnight ☐ Priority Overnight ☐ Ground ☐ International Priority

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Other: MORNING 2 DAY

Tracking # 2853 7694 6633

Custody Seal Present: ☐ Yes ☒ No Seal properly placed and intact: ☐ Yes ☒ No

Ice: ☐ Wet ☐ Blue ☐ Dry ☐ None ☐ Melted

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other:

Samples shorted to lab: ☐ Yes ☒ No (If yes, complete the following)

Shorted Date:

Shorted Time:

Bottle Quantity / Type:

Chain of Custody:	
Present: ☒ Yes ☐ No	Filled Out: ☒ Yes ☐ No ☐ N/A
Sampler Name: ☒ Yes ☐ No ☐ N/A	
Relinquished To Pace: ☐ Yes ☐ No ☐ N/A	
Sampling Date(s): ☒ Yes ☐ No ☐ N/A	
Sampling Time(s): ☒ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☒ Yes ☐ No ☐ N/A
Rush Turnaround Requested on COC	☐ Yes ☒ No ☐ N/A
Sufficient Volume	☒ Yes ☐ No ☐ N/A
Correct Containers Used	☒ Yes ☐ No ☐ N/A
Containers Intact	☒ Yes ☐ No ☐ N/A
Sample Labels Match COC (Sample ID, Date/Time of Collection)	☒ Yes ☐ No ☐ N/A
All containers needing acid / base preservation have been checked	☒ Yes ☐ No ☐ N/A
All containers needing preservation are found to be in compliance with EPA recommendation:	☒ Yes ☐ No ☐ N/A
Exceptions: Vials, Microbiology, O&G, PFAS	
Headspace in Volatile Vials? (>6mm):	☐ Yes ☐ No ☒ N/A
Trip Blank Present:	☐ Yes ☐ No ☒ N/A
Preservation Information	
Preservative:	Date:
Lot / Trace:	Time:
Amount added (mL):	Initials:

Comments / Resolutions (use back for additional comments):

Labeled by: AES

Reviewed by: SB4

Delivered by: 2023



Kanapaha Laboratory

3901 South West 63rd Blvd
Gainesville, FL 32608
(352) 393-6777

Florida Department of Health Certification E52099

March 28, 2025

Jeff Boudreau
Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

RE: Environmental - Deerhaven CCR Wells

Enclosed are the results of analyses for samples received by the laboratory on 2/6/2025. If you have any questions concerning this report, please feel free to contact me.

Please note that all results were determined in accordance with NELAP requirements. All data is subject to a degree of uncertainty. Kanapaha Lab uncertainty is based upon LCS quality control statistics.

Sincerely,

Jaclyn M Dlhos
Laboratory Supervisor



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q25 CCR
Project Manager: Jeff Boudreau

Reported:
03/28/2025 13:59

ANALYTICAL REPORT FOR SAMPLES

Laboratory ID	Sample ID	Matrix	Date Sampled	Date Received
K25B022-01	SIS-1	Groundwater	02/04/2025 10:27	02/06/2025 10:25
K25B022-02	SIS-2	Groundwater	02/04/2025 11:19	02/06/2025 10:25
K25B022-03	SIS-3	Groundwater	02/04/2025 12:26	02/06/2025 10:25
K25B022-04	SIS-4	Groundwater	02/04/2025 13:33	02/06/2025 10:25
K25B022-05	LF-1	Groundwater	02/04/2025 09:30	02/06/2025 10:25
K25B022-06	LF-2	Groundwater	02/05/2025 10:30	02/06/2025 10:25
K25B022-07	LF-3	Groundwater	02/05/2025 11:12	02/06/2025 10:25
K25B022-08	LF-4	Groundwater	02/05/2025 12:06	02/06/2025 10:25
K25B022-09	LF-5	Groundwater	02/05/2025 13:42	02/06/2025 10:25
K25B022-10	LF-6	Groundwater	02/05/2025 14:29	02/06/2025 10:25
K25B022-11	EBLANK2	Groundwater	02/05/2025 12:24	02/06/2025 10:25



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q25 CCR
Project Manager: Jeff Boudreau

Reported:
03/28/2025 13:59

LF-1

K25B022-05 (Groundwater, Grab)

Collected: 02/04/2025 9:30 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U	2.5	10.0	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Barium	106		0.20	0.80	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Calcium	21.3		0.10	0.40	mg/L	1	03/03/2025	03/12/2025	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Molybdenum	4.0	I	2.5	10.0	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	02/10/2025	02/10/2025	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	117		10	40	mg/L	1	02/10/2025	02/10/2025	SM 2540C
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Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q25 CCR
Project Manager: Jeff Boudreau

Reported:
03/28/2025 13:59

LF-2

K25B022-06 (Groundwater, Grab)

Collected: 02/05/2025 10:30 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U	2.5	10.0	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Barium	79.4		0.20	0.80	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Beryllium	0.14	I	0.10	0.40	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Calcium	73.2		0.10	0.40	mg/L	1	03/03/2025	03/12/2025	EPA 200.7
Chromium	4.2	I	1.2	4.8	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Cobalt	5.6		1.0	4.0	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Molybdenum	10.9		2.5	10.0	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	02/10/2025	02/10/2025	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	507		10	40	mg/L	1	02/10/2025	02/10/2025	SM 2540C
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Kanapaha Laboratory

3901 South West 63rd Blvd
Gainesville, FL 32608
(352) 393-6777

Florida Department of Health Certification E52099

Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q25 CCR
Project Manager: Jeff Boudreau

Reported:
03/28/2025 13:59

LF-3

K25B022-07 (Groundwater, Grab)

Collected: 02/05/2025 11:12 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U	2.5	10.0	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Barium	47.3		0.20	0.80	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Calcium	16.4		0.10	0.40	mg/L	1	03/03/2025	03/12/2025	EPA 200.7
Chromium	6.0		1.2	4.8	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	02/10/2025	02/10/2025	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	378		10	40	mg/L	1	02/10/2025	02/10/2025	SM 2540C
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Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q25 CCR
Project Manager: Jeff Boudreau

Reported:
03/28/2025 13:59

LF-4

K25B022-08 (Groundwater, Grab)

Collected: 02/05/2025 12:06 pm

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U	2.5	10.0	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Barium	22.9		0.20	0.80	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Cadmium	0.38	I	0.30	1.20	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Calcium	12.2		0.10	0.40	mg/L	1	03/03/2025	03/12/2025	EPA 200.7
Chromium	2.1	I	1.2	4.8	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	02/10/2025	02/10/2025	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	104	V	10	40	mg/L	1	02/10/2025	02/10/2025	SM 2540C
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Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q25 CCR
Project Manager: Jeff Boudreau

Reported:
03/28/2025 13:59

LF-5
K25B022-09 (Groundwater, Grab)
Collected: 02/05/2025 1:42 pm

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U	2.5	10.0	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Barium	41.3		0.20	0.80	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Calcium	52.7		0.10	0.40	mg/L	1	03/03/2025	03/12/2025	EPA 200.7
Chromium	1.7	I	1.2	4.8	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Cobalt	6.7		1.0	4.0	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Lead	3.3	I	3.0	12.0	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Molybdenum	10.4		2.5	10.0	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	02/10/2025	02/10/2025	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	711		10	40	mg/L	1	02/10/2025	02/10/2025	SM 2540C
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Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q25 CCR
Project Manager: Jeff Boudreau

Reported:
03/28/2025 13:59

LF-6

K25B022-10 (Groundwater, Grab)

Collected: 02/05/2025 2:29 pm

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U	2.5	10.0	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Barium	8.79		0.20	0.80	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Calcium	27.3		0.10	0.40	mg/L	1	03/03/2025	03/12/2025	EPA 200.7
Chromium	2.0	I	1.2	4.8	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Molybdenum	3.4	I	2.5	10.0	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	02/10/2025	02/10/2025	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	127		10	40	mg/L	1	02/10/2025	02/10/2025	SM 2540C
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EBLANK2

K25B022-11 (Groundwater, Grab)

Collected: 02/05/2025 12:24 pm

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U	2.5	10.0	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Barium	0.20	U	0.20	0.80	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Calcium	0.10	U	0.10	0.40	mg/L	1	03/03/2025	03/12/2025	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	03/03/2025	03/12/2025	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	02/10/2025	02/10/2025	EPA 245.1



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q25 CCR
Project Manager: Jeff Boudreau

Reported:
03/28/2025 13:59

Metals by EPA 200 Series Methods - Quality Control

Laboratory: Kanapaha Laboratory

Analyte	Result	Qual	MDL	PQL	Units	Spike Level	Source Result	%REC	% REC Limits	RSD	RSD Limit
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Batch B25B049 - MERCURY

Blank (B25B049-BLK1)

Prepared & Analyzed: 2/10/2025

Mercury	0.100	U	0.100	0.400	ug/L
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LCS (B25B049-BS1)

Prepared & Analyzed: 2/10/2025

Mercury	1.93		0.100	0.400	ug/L	2.00		96.4	90-110
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Duplicate (B25B049-DUP1)

Source: K25B022-03

Prepared & Analyzed: 2/10/2025

Mercury	0.100	U	0.100	0.400	ug/L		ND			NR
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Duplicate (B25B049-DUP2)

Source: K25B022-07

Prepared & Analyzed: 2/10/2025

Mercury	0.100	U	0.100	0.400	ug/L		ND			NR
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Matrix Spike (B25B049-MS1)

Source: K25B022-03

Prepared & Analyzed: 2/10/2025

Mercury	1.93		0.100	0.400	ug/L	2.00	ND	96.4	90-110
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Matrix Spike (B25B049-MS2)

Source: K25B022-07

Prepared & Analyzed: 2/10/2025

Mercury	1.89		0.100	0.400	ug/L	2.00	ND	94.3	90-110
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Batch B25C014 - EPA 200.7

Blank (B25C014-BLK1)

Prepared: 3/3/2025 Analyzed: 3/12/2025

Arsenic	2.5	U	2.5	10.0	ug/L
Chromium	1.2	U	1.2	4.8	ug/L
Calcium	0.10	U	0.10	0.40	mg/L
Cadmium	0.30	U	0.30	1.20	ug/L
Cobalt	1.0	U	1.0	4.0	ug/L
Beryllium	0.10	U	0.10	0.40	ug/L
Lead	3.0	U	3.0	12.0	ug/L
Barium	0.20	U	0.20	0.80	ug/L
Molybdenum	2.5	U	2.5	10.0	ug/L
Selenium	4.0	U	4.0	16.0	ug/L

LCS (B25C014-BS1)

Prepared: 3/3/2025 Analyzed: 3/12/2025

Barium	100			ug/L	100		100	90-110
Calcium	24.9			mg/L	24.9		100	90-110
Beryllium	96.4			ug/L	100		96.4	90-110
Cadmium	94.9			ug/L	100		94.9	90-110
Arsenic	103			ug/L	100		103	90-110
Selenium	99.5			ug/L	100		99.5	90-110
Molybdenum	104			ug/L	100		104	90-110



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q25 CCR
Project Manager: Jeff Boudreau

Reported:
03/28/2025 13:59

Metals by EPA 200 Series Methods - Quality Control

Laboratory: Kanapaha Laboratory

Analyte	Result	Qual	MDL	PQL	Units	Spike Level	Source Result	%REC	% REC Limits	RSD	RSD Limit
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Batch B25C014 - EPA 200.7 (Continued)

LCS (B25C014-BS1)

Prepared: 3/3/2025 Analyzed: 3/12/2025

Chromium	104				ug/L	100		104	90-110		
Lead	103				ug/L	100		103	90-110		
Cobalt	107				ug/L	100		107	90-110		

Duplicate (B25C014-DUP1)

Source: K25B022-05

Prepared: 3/3/2025 Analyzed: 3/12/2025

Molybdenum	3.9 I		2.5	10.0	ug/L		4.0			1.61	
Lead	3.0 U		3.0	12.0	ug/L		ND			42.6	
Cobalt	1.0 U		1.0	4.0	ug/L		ND			2.69	
Arsenic	2.5 U		2.5	10.0	ug/L		ND			35.4	
Calcium	21.6		0.10	0.40	mg/L		21.3			0.870	
Cadmium	0.30 U		0.30	1.20	ug/L		ND			6.51	
Beryllium	0.10 U		0.10	0.40	ug/L		ND			27.5	
Barium	106		0.20	0.80	ug/L		106			0.184	
Chromium	1.2 U		1.2	4.8	ug/L		ND			19.1	
Selenium	4.0 U		4.0	16.0	ug/L		ND			0.430	

Duplicate (B25C014-DUP2)

Source: K25B022-08

Prepared: 3/3/2025 Analyzed: 3/12/2025

Lead	3.0 U		3.0	12.0	ug/L		ND			174	
Cobalt	1.0 U		1.0	4.0	ug/L		ND			2.50	
Chromium	1.9 I		1.2	4.8	ug/L		2.1			4.99	
Calcium	12.2		0.10	0.40	mg/L		12.2			0.0810	
Cadmium	0.33 I		0.30	1.20	ug/L		0.38			8.60	
Barium	22.9		0.20	0.80	ug/L		22.9			0.0155	
Arsenic	2.5 U		2.5	10.0	ug/L		ND			4.42	
Molybdenum	2.5 U		2.5	10.0	ug/L		ND			5.95	
Selenium	4.0 U		4.0	16.0	ug/L		ND			55.7	
Beryllium	0.10 U		0.10	0.40	ug/L		ND			3.45	

Matrix Spike (B25C014-MS1)

Source: K25B022-05

Prepared: 3/3/2025 Analyzed: 3/12/2025

Selenium	51.5		4.0	16.0	ug/L	50.0	ND	103	90-110		
Molybdenum	511		2.5	10.0	ug/L	500	4.0	101	90-110		
Calcium	47.6		0.10	0.40	mg/L	25.0	21.3	105	90-110		
Cadmium	50.2		0.30	1.20	ug/L	50.0	ND	100	90-110		
Lead	209		3.0	12.0	ug/L	200	ND	104	90-110		
Arsenic	202		2.5	10.0	ug/L	200	ND	101	90-110		
Chromium	218		1.2	4.8	ug/L	200	ND	109	90-110		
Barium	627		0.20	0.80	ug/L	500	106	104	90-110		
Beryllium	206		0.10	0.40	ug/L	200	ND	103	90-110		
Cobalt	209		1.0	4.0	ug/L	200	ND	104	90-110		

Matrix Spike (B25C014-MS2)

Source: K25B022-08

Prepared: 3/3/2025 Analyzed: 3/12/2025



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q25 CCR
Project Manager: Jeff Boudreau

Reported:
03/28/2025 13:59

Metals by EPA 200 Series Methods - Quality Control

Laboratory: Kanapaha Laboratory

Analyte	Result	Qual	MDL	PQL	Units	Spike Level	Source Result	%REC	% REC Limits	RSD	RSD Limit
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Batch B25C014 - EPA 200.7 (Continued)

Matrix Spike (B25C014-MS2)

Source: K25B022-08

Prepared: 3/3/2025 Analyzed: 3/12/2025

Cobalt	206		1.0	4.0	ug/L	200	ND	103	90-110		
Calcium	36.4		0.10	0.40	mg/L	25.0	12.2	96.6	90-110		
Cadmium	49.0		0.30	1.20	ug/L	50.0	0.38	97.2	90-110		
Chromium	216		1.2	4.8	ug/L	200	2.1	107	90-110		
Beryllium	197		0.10	0.40	ug/L	200	ND	98.7	90-110		
Molybdenum	498		2.5	10.0	ug/L	500	ND	99.5	90-110		
Selenium	49.6		4.0	16.0	ug/L	50.0	ND	99.2	90-110		
Arsenic	198		2.5	10.0	ug/L	200	ND	99.2	90-110		
Lead	204		3.0	12.0	ug/L	200	ND	102	90-110		
Barium	531		0.20	0.80	ug/L	500	22.9	102	90-110		



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q25 CCR
Project Manager: Jeff Boudreau

Reported:
03/28/2025 13:59

Wet Chemistry by APHA/EPA Methods - Quality Control

Laboratory: Kanapaha Laboratory

Analyte	Result	Qual	MDL	PQL	Units	Spike Level	Source Result	%REC	% REC Limits	RSD	RSD Limit
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Batch B25B060 - DEFAULT PREP - Wet Chem

Blank (B25B060-BLK1)

Prepared & Analyzed: 2/10/2025

Total Dissolved Solids	11 I, V		10	40	mg/L						
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Duplicate (B25B060-DUP1)

Source: K25B022-01

Prepared & Analyzed: 2/10/2025

Total Dissolved Solids	322		10	40	mg/L		321			0.220	
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Reference (B25B060-SRM1)

Prepared & Analyzed: 2/10/2025

Total Dissolved Solids	249				mg/L	240		104	90-110		
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Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 1Q25 CCR
Project Manager: Jeff Boudreau

Reported:
03/28/2025 13:59

Notes and Definitions

<u>Qualifier</u>	<u>Description</u>
V	Indicates that the analyte was detected at or above the method detection limit in both the sample and the associated method blank and the blank value was greater than 10% of the associated sample value.
NR	Not Reported
RSD	Relative Standard Deviation
U	Compound was analyzed for but not detected
N	Presumptive evidence of presence of material
L	Off-scale high. Actual value is known to be greater than value given
I	The reported value is between the laboratory MDL and the laboratory PQL
V	Analyte was detected in both the sample and the associated method blank

CHAIN OF CUSTODY - Analytical Request Document

Deerhaven Generating Station
10001 NW 13th St., Gainesville, FL 32653

Preservations:
I = Ice
N = Nitric Acid
S = Sulfuric Acid

Matrix:
GW = Groundwater
W = Water

Work Order # K25B002
Page 1 of 1
Project # 1025 CCR

Batch:		ENV1025		Container Preservation Type											
				Analysis Requested											
Sample Collector(s):				N	N	I	I	I	N	N	N	N	I	I	N
Sample ID	Matrix	Collection Date/Time	# of Cns	Metals by 200.7 (Al, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, Se, Ag, Sr, V, Zn)											
1025-SIS-1	GW	2/4/25 @ 10:27	2	Mercury by 245.1											
1025-SIS-2	GW	2/4/25 @ 11:19	2	Color by 2120B											
1025-SIS-3	GW	2/4/25 @ 12:26	2	TSS by 2540D											
1025-SIS-4	GW	2/4/25 @ 13:33	2	TDS by 2540C											
1025-LF-1	GW	2/4/25 @ 09:30	2	Metals by 200.7 (As, Ba, Be, Cd, Ca, Cr, Co, Pb, Mo, Se)											
1025-LF-2	GW	2/5/25 @ 10:30	2	Metals by 200.7 (As, Ba, Cd, Ca, Cr, Co, Pb, Mo, Se)											
1025-LF-3	GW	2/5/25 @ 11:12	2	Metals by 200.7 (As, Ba, Be, Ca, Cr, Co, Pb, Mo, Se)											
1025-LF-4	GW	2/5/25 @ 12:06	2	Metals by 200.7 (Mn, Mo, Ni, Na, Zn)											
1025-LF-5	GW	2/5/25 @ 13:42	2	Chloride by 4500-Cl-C											
1025-LF-6	GW	2/5/25 @ 14:29	2	Sulfate by 4500-SO4-E											
1025-EBLANK-2	GW	2/5/25 @ 12:24	1	Arsenic by 200.7											

Sample ID
-01
-02
-03
-04
-05
-06
-07
-08
-09
-10
-11

Released By: *[Signature]* Date/Time: 2/6/25/10:10
Received By: *[Signature]* Date/Time: 2/6/25/10:25

Released By: _____ Date/Time: _____
Received By: _____ Date/Time: _____

*Samples for TDS analysis were received on ice 2/6/25 JWD



August 22, 2025

Mr. Jeffery Boudreau
Deerhaven Lab
P.O. Box 147117, Station D38
Gainesville, FL 32614

RE: Project: ENV3Q25
Pace Project No.: 35974619

Dear Mr. Boudreau:

Enclosed are the analytical results for sample(s) received by the laboratory on August 07, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses were subcontracted outside of the Pace Network. The test report from the external subcontractor is attached to this report in its entirety.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay
- Pace Analytical Services - Ormond Beach
- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeff Baylor
jeff.baylor@pacelabs.com
(386)672-5668
Project Manager

Enclosures

cc: Kent Brakefield
Kimberly Morrison, Deerhaven Labs



REPORT OF LABORATORY ANALYSIS

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**CERTIFICATIONS**

Project: ENV3Q25

Pace Project No.: 35974619

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

ANABISO/IEC 17025:2017 Rad Cert#: L24170

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 2950

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA010

Louisiana DEQ/TNI Certification #: 04086

Maine Certification #: 2023021

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572023-03

New Hampshire/TNI Certification #: 297622

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-015

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN02867

Texas/TNI Certification #: T104704188-22-18

Utah/TNI Certification #: PA014572223-14

USDA Soil Permit #: 525-23-67-77263

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST

Alabama Certification #: 41320

California Certification# 3096

Colorado Certification: FL NELAC Reciprocity

Connecticut Certification #: PH-0216

Delaware Certification: FL NELAC Reciprocity

DoD-ANAB #:ADE-3199

Florida Certification #: E83079

Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity

Hawaii Certification: FL NELAC Reciprocity

Illinois Certification #: 200068

Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383

Kentucky Certification #: 90050

Louisiana Certification #: FL NELAC Reciprocity

Louisiana Environmental Certificate #: 05007

Maine Certification #: FL01264

Maryland Certification: #346

Massachusetts Certification #: M-FL1264

Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236

Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14

Nevada Certification: FL NELAC Reciprocity

New Hampshire Certification #: 2958

New Jersey Certification #: FL022

New York Certification #: 11608

North Carolina Environmental Certificate #: 667

North Carolina Certification #: 12710

North Dakota Certification #: R-216

Ohio DEP 87780

Oklahoma Certification #: D9947

Pennsylvania Certification #: 68-00547

Puerto Rico Certification #: FL01264

South Carolina Certification: #96042001

Tennessee Certification #: TN02974

Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity

Utah FL NELAC Reciprocity

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CERTIFICATIONS

Project: ENV3Q25
Pace Project No.: 35974619

Pace Analytical Services Ormond Beach

Utah
Virginia Environmental Certification #: 460165
Washington Certification #: C955

West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150

South Carolina Certification #: 83006001
Texas Certification #: T104704529-21-8
Virginia VELAP Certification ID: 11873
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-21-00008
Federal Fish & Wildlife Permit #: 51774A

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: ENV3Q25

Pace Project No.: 35974619

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35974619001	3Q25-R1T6	Water	07/28/25 12:09	08/07/25 10:00
35974619002	3Q25-R2T1	Water	07/27/25 13:41	08/07/25 10:00
35974619003	3Q25-R3T7	Water	07/28/25 09:29	08/07/25 10:00
35974619004	3Q25-R4T5	Water	07/27/25 10:36	08/07/25 10:00
35974619005	3Q25-R6T1	Water	07/27/25 09:07	08/07/25 10:00
35974619006	3Q25-R6T4	Water	07/27/25 14:52	08/07/25 10:00
35974619007	3Q25-R6T8	Water	07/30/25 09:30	08/07/25 10:00
35974619008	3Q25-R6T12	Water	07/30/25 10:45	08/07/25 10:00
35974619009	3Q25-R8T10	Water	07/30/25 12:39	08/07/25 10:00
35974619010	3Q25-R9T5	Water	07/28/25 13:03	08/07/25 10:00
35974619011	3Q25-R10T8	Water	07/31/25 09:59	08/07/25 10:00
35974619012	3Q25-R11T4	Water	07/31/25 08:53	08/07/25 10:00
35974619013	3Q25-DEEP	Water	07/30/25 14:12	08/07/25 10:00
35974619014	3Q25-DUP WELL	Water	07/28/25 13:03	08/07/25 10:00
35974619015	3Q25-EBLANK1	Water	07/28/25 09:59	08/07/25 10:00
35974619016	3Q25-LF-1	Water	07/29/25 08:27	08/07/25 10:00
35974619017	3Q25-LF-2	Water	07/29/25 13:50	08/07/25 10:00
35974619018	3Q25-LF-3	Water	07/29/25 12:53	08/07/25 10:00
35974619019	3Q25-LF-4	Water	07/29/25 11:45	08/07/25 10:00
35974619020	3Q25-LF-5	Water	07/29/25 10:49	08/07/25 10:00
35974619021	3Q25-LF-6	Water	07/29/25 09:27	08/07/25 10:00
35974619022	3Q25-EBLANK2	Water	07/29/25 12:10	08/07/25 10:00
35974619023	3Q25-Barnstead	Water	07/27/25 07:45	08/07/25 10:00

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SAMPLE ANALYTE COUNT

Project: ENV3Q25

Pace Project No.: 35974619

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35974619001	3Q25-R1T6	SM 7110C-2000	GCN	1	PASI-PA
		EPA 300.0	CMB1	2	PASI-O
		EPA 353.2	HDV	1	PASI-O
35974619002	3Q25-R2T1	SM 7110C-2000	GCN	1	PASI-PA
		EPA 300.0	CMB1	2	PASI-O
		EPA 353.2	HDV	1	PASI-O
35974619003	3Q25-R3T7	SM 7110C-2000	GCN	1	PASI-PA
		EPA 300.0	CMB1	2	PASI-O
		EPA 353.2	HDV	1	PASI-O
35974619004	3Q25-R4T5	SM 7110C-2000	GCN	1	PASI-PA
		EPA 300.0	CMB1	2	PASI-O
		EPA 353.2	HDV	1	PASI-O
35974619005	3Q25-R6T1	SM 7110C-2000	GCN	1	PASI-PA
		EPA 300.0	CMB1	2	PASI-O
		EPA 353.2	HDV	1	PASI-O
35974619006	3Q25-R6T4	SM 7110C-2000	GCN	1	PASI-PA
		EPA 300.0	CMB1	2	PASI-O
		EPA 353.2	HDV	1	PASI-O
35974619007	3Q25-R6T8	SM 7110C-2000	GCN	1	PASI-PA
		EPA 300.0	CMB1	2	PASI-O
		EPA 353.2	HDV	1	PASI-O
35974619008	3Q25-R6T12	SM 7110C-2000	GCN	1	PASI-PA
		EPA 300.0	CMB1	2	PASI-O
		EPA 353.2	HDV	1	PASI-O
35974619009	3Q25-R8T10	SM 7110C-2000	GCN	1	PASI-PA
		EPA 300.0	CMB1	2	PASI-O
		EPA 353.2	HDV	1	PASI-O
35974619010	3Q25-R9T5	SM 7110C-2000	GCN	1	PASI-PA
		EPA 300.0	CMB1	2	PASI-O
		EPA 353.2	HDV	1	PASI-O
35974619011	3Q25-R10T8	SM 7110C-2000	GCN	1	PASI-PA
		EPA 300.0	CMB1	2	PASI-O
		EPA 353.2	HDV	1	PASI-O
35974619012	3Q25-R11T4	SM 7110C-2000	GCN	1	PASI-PA
		EPA 300.0	CMB1	2	PASI-O
		EPA 353.2	HDV	1	PASI-O
35974619013	3Q25-DEEP	SM 7110C-2000	GCN	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: ENV3Q25
Pace Project No.: 35974619

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35974619014	3Q25-DUP WELL	EPA 300.0	CMB1	2	PASI-O
		EPA 353.2	HDV	1	PASI-O
		SM 7110C-2000	GCN	1	PASI-PA
		EPA 300.0	CMB1	2	PASI-O
35974619015	3Q25-EBLANK1	EPA 353.2	HDV	1	PASI-O
		SM 7110C-2000	GCN	1	PASI-PA
		EPA 300.0	CMB1	2	PASI-O
		EPA 353.2	CLL	1	PASI-O
35974619016	3Q25-LF-1	EPA 6020B	KXS	4	PASI-G
		EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB1	3	PASI-O
35974619017	3Q25-LF-2	EPA 6020B	KXS	4	PASI-G
		EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB1	3	PASI-O
35974619018	3Q25-LF-3	EPA 6020B	KXS	4	PASI-G
		EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB1	3	PASI-O
35974619019	3Q25-LF-4	EPA 6020B	KXS	4	PASI-G
		EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB1	3	PASI-O
35974619020	3Q25-LF-5	EPA 6020B	KXS	4	PASI-G
		EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB1	3	PASI-O
35974619021	3Q25-LF-6	EPA 6020B	KXS	4	PASI-G
		EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 300.0	CMB1	3	PASI-O

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: ENV3Q25

Pace Project No.: 35974619

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35974619022	3Q25-EBLANK2	EPA 300.0	CMB1	3	PASI-O
		EPA 6020B	KXS	4	PASI-G
		EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
35974619023	3Q25-Barnstead	EPA 300.0	CMB1	3	PASI-O
		EPA 6020B	KXS	4	PASI-G
		EPA 300.0	CMB1	3	PASI-O

PASI-G = Pace Analytical Services - Green Bay

PASI-O = Pace Analytical Services - Ormond Beach

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ENV3Q25

Pace Project No.: 35974619

Sample: 3Q25-EBLANK1		Lab ID: 35974619015		Collected: 07/28/25 09:59		Received: 08/07/25 10:00		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach							
Chloride	2.5 U	mg/L	5.0	2.5	1		08/19/25 22:13	16887-00-6	
Sulfate	2.5 U	mg/L	5.0	2.5	1		08/19/25 22:13	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach							
Nitrogen, NO2 plus NO3	0.015 U	mg/L	0.050	0.015	1		08/09/25 16:13		

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ANALYTICAL RESULTS

Project: ENV3Q25

Pace Project No.: 35974619

Sample: 3Q25-LF-1 Lab ID: 35974619016 Collected: 07/29/25 08:27 Received: 08/07/25 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Antimony	1.3	ug/L	1.0	0.15	1	08/13/25 06:05	08/20/25 22:20	7440-36-0	
Boron	137	ug/L	10.0	3.0	1	08/13/25 06:05	08/20/25 22:20	7440-42-8	
Lithium	5.0	ug/L	1.0	0.22	1	08/13/25 06:05	08/20/25 22:20	7439-93-2	
Thallium	0.14 U	ug/L	1.0	0.14	1	08/13/25 06:05	08/20/25 22:20	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	12.5	mg/L	5.0	2.5	1		08/20/25 13:53	16887-00-6	
Fluoride	0.075	mg/L	0.050	0.015	1		08/20/25 13:53	16984-48-8	
Sulfate	10.7	mg/L	5.0	2.5	1		08/20/25 13:53	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ENV3Q25

Pace Project No.: 35974619

Sample: 3Q25-LF-2 Lab ID: 35974619017 Collected: 07/29/25 13:50 Received: 08/07/25 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Antimony	0.15 U	ug/L	1.0	0.15	1	08/13/25 06:05	08/20/25 22:47	7440-36-0	
Boron	34.2	ug/L	10.0	3.0	1	08/13/25 06:05	08/20/25 22:47	7440-42-8	
Lithium	1.2	ug/L	1.0	0.22	1	08/13/25 06:05	08/20/25 22:47	7439-93-2	
Thallium	0.20 I	ug/L	1.0	0.14	1	08/13/25 06:05	08/20/25 22:47	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	35.0	mg/L	5.0	2.5	1		08/20/25 14:16	16887-00-6	
Fluoride	0.26	mg/L	0.050	0.015	1		08/20/25 14:16	16984-48-8	
Sulfate	21.5	mg/L	5.0	2.5	1		08/20/25 14:16	14808-79-8	

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ANALYTICAL RESULTS

Project: ENV3Q25
Pace Project No.: 35974619

Sample: 3Q25-LF-3 Lab ID: 35974619018 Collected: 07/29/25 12:53 Received: 08/07/25 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Antimony	0.15 U	ug/L	1.0	0.15	1	08/13/25 06:05	08/20/25 22:56	7440-36-0	
Boron	1880	ug/L	10.0	3.0	1	08/13/25 06:05	08/20/25 22:56	7440-42-8	
Lithium	0.38 I	ug/L	1.0	0.22	1	08/13/25 06:05	08/20/25 22:56	7439-93-2	
Thallium	0.14 U	ug/L	1.0	0.14	1	08/13/25 06:05	08/20/25 22:56	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	18.1	mg/L	5.0	2.5	1		08/20/25 14:39	16887-00-6	
Fluoride	0.038 I	mg/L	0.050	0.015	1		08/20/25 14:39	16984-48-8	
Sulfate	49.1	mg/L	5.0	2.5	1		08/20/25 14:39	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: ENV3Q25
Pace Project No.: 35974619

Sample: 3Q25-LF-4 Lab ID: 35974619019 Collected: 07/29/25 11:45 Received: 08/07/25 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Antimony	0.29 I	ug/L	1.0	0.15	1	08/13/25 06:05	08/20/25 23:00	7440-36-0	
Boron	196	ug/L	10.0	3.0	1	08/13/25 06:05	08/20/25 23:00	7440-42-8	
Lithium	7.5	ug/L	1.0	0.22	1	08/13/25 06:05	08/20/25 23:00	7439-93-2	
Thallium	0.14 U	ug/L	1.0	0.14	1	08/13/25 06:05	08/20/25 23:00	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	5.3	mg/L	5.0	2.5	1		08/20/25 15:02	16887-00-6	
Fluoride	0.098	mg/L	0.050	0.015	1		08/20/25 15:02	16984-48-8	
Sulfate	28.1	mg/L	5.0	2.5	1		08/20/25 15:02	14808-79-8	

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ANALYTICAL RESULTS

Project: ENV3Q25

Pace Project No.: 35974619

Sample: 3Q25-LF-5 Lab ID: 35974619020 Collected: 07/29/25 10:49 Received: 08/07/25 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Antimony	1.3	ug/L	1.0	0.15	1	08/13/25 06:05	08/20/25 23:05	7440-36-0	
Boron	794	ug/L	10.0	3.0	1	08/13/25 06:05	08/20/25 23:05	7440-42-8	
Lithium	1.9	ug/L	1.0	0.22	1	08/13/25 06:05	08/20/25 23:05	7439-93-2	
Thallium	0.14 U	ug/L	1.0	0.14	1	08/13/25 06:05	08/20/25 23:05	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	20.0	mg/L	5.0	2.5	1		08/20/25 15:24	16887-00-6	
Fluoride	0.093	mg/L	0.050	0.015	1		08/20/25 15:24	16984-48-8	
Sulfate	328	mg/L	25.0	12.5	5		08/20/25 15:47	14808-79-8	

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ANALYTICAL RESULTS

Project: ENV3Q25

Pace Project No.: 35974619

Sample: 3Q25-LF-6 Lab ID: 35974619021 Collected: 07/29/25 09:27 Received: 08/07/25 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Antimony	0.32 I	ug/L	1.0	0.15	1	08/13/25 06:05	08/20/25 23:09	7440-36-0	
Boron	26.8	ug/L	10.0	3.0	1	08/13/25 06:05	08/20/25 23:09	7440-42-8	
Lithium	0.22 U	ug/L	1.0	0.22	1	08/13/25 06:05	08/20/25 23:09	7439-93-2	
Thallium	0.14 U	ug/L	1.0	0.14	1	08/13/25 06:05	08/20/25 23:09	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	2.6 I	mg/L	5.0	2.5	1		08/20/25 01:17	16887-00-6	J(M1)
Fluoride	0.046 I	mg/L	0.050	0.015	1		08/20/25 01:17	16984-48-8	
Sulfate	3.2 I	mg/L	5.0	2.5	1		08/20/25 01:17	14808-79-8	J(M1)

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ANALYTICAL RESULTS

Project: ENV3Q25

Pace Project No.: 35974619

Sample: 3Q25-EBLANK2 Lab ID: 35974619022 Collected: 07/29/25 12:10 Received: 08/07/25 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Antimony	0.15 U	ug/L	1.0	0.15	1	08/13/25 06:05	08/20/25 23:14	7440-36-0	
Boron	3.0 U	ug/L	10.0	3.0	1	08/13/25 06:05	08/20/25 23:14	7440-42-8	
Lithium	0.22 U	ug/L	1.0	0.22	1	08/13/25 06:05	08/20/25 23:14	7439-93-2	
Thallium	0.14 U	ug/L	1.0	0.14	1	08/13/25 06:05	08/20/25 23:14	7440-28-0	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Ormond Beach									
Chloride	2.5 U	mg/L	5.0	2.5	1		08/20/25 02:25	16887-00-6	
Fluoride	0.015 U	mg/L	0.050	0.015	1		08/20/25 02:25	16984-48-8	
Sulfate	2.5 U	mg/L	5.0	2.5	1		08/20/25 02:25	14808-79-8	

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QUALITY CONTROL DATA

Project: ENV3Q25

Pace Project No.: 35974619

QC Batch:	513099	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3010A	Analysis Description:	6020B MET
		Laboratory:	Pace Analytical Services - Green Bay
Associated Lab Samples:	35974619016, 35974619017, 35974619018, 35974619019, 35974619020, 35974619021, 35974619022, 35974619023		

METHOD BLANK:	2928905	Matrix:	Water
Associated Lab Samples:	35974619016, 35974619017, 35974619018, 35974619019, 35974619020, 35974619021, 35974619022, 35974619023		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	ug/L	0.15 U	1.0	0.15	08/20/25 21:48	
Boron	ug/L	3.0 U	10.0	3.0	08/20/25 21:48	
Lithium	ug/L	0.22 U	1.0	0.22	08/20/25 21:48	
Thallium	ug/L	0.14 U	1.0	0.14	08/20/25 21:48	

LABORATORY CONTROL SAMPLE:		2928906				
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	250	257	103	80-120	
Boron	ug/L	250	239	96	80-120	
Lithium	ug/L	250	257	103	80-120	
Thallium	ug/L	250	246	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		2928907 2928908										
Parameter	Units	35974619016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	1.3	250	250	253	253	101	101	75-125	0	20	
Boron	ug/L	137	250	250	376	373	95	94	75-125	1	20	
Lithium	ug/L	5.0	250	250	261	260	102	102	75-125	0	20	
Thallium	ug/L	0.14 U	250	250	243	246	97	98	75-125	1	20	

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QUALITY CONTROL DATA

Project: ENV3Q25
Pace Project No.: 35974619

QC Batch:	1122425	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35974619007, 35974619008, 35974619009

METHOD BLANK: 6154819 Matrix: Water
Associated Lab Samples: 35974619007, 35974619008, 35974619009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	08/19/25 17:57	
Sulfate	mg/L	2.5 U	5.0	2.5	08/19/25 17:57	

LABORATORY CONTROL SAMPLE: 6154820

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.8	98	90-110	
Sulfate	mg/L	50	48.2	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 6157519 6157520

Parameter	Units	35973416001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	21.1	50	50	75.0	75.0	108	108	90-110	0	20	
Sulfate	mg/L	5.9	50	50	54.4	54.4	97	97	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 6157521 6157522

Parameter	Units	35976954003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	10.4	50	50	61.6	61.6	102	103	90-110	0	20	
Sulfate	mg/L	12.0	50	50	62.5	62.5	101	101	90-110	0	20	

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QUALITY CONTROL DATA

Project: ENV3Q25

Pace Project No.: 35974619

QC Batch:	1122427	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35974619001, 35974619002, 35974619003, 35974619004, 35974619005, 35974619006

METHOD BLANK:	6154825	Matrix:	Water
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Associated Lab Samples: 35974619001, 35974619002, 35974619003, 35974619004, 35974619005, 35974619006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	08/20/25 05:02	
Sulfate	mg/L	2.5 U	5.0	2.5	08/20/25 05:02	

LABORATORY CONTROL SAMPLE: 6154826

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.9	98	90-110	
Sulfate	mg/L	50	48.2	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 6157523 6157524

Parameter	Units	35974619003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	20.6	50	50	74.4	74.4	108	108	90-110	0	20	
Sulfate	mg/L	42.6	50	50	99.1	99.1	113	113	90-110	0	20 J(M1)	

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QUALITY CONTROL DATA

Project: ENV3Q25
Pace Project No.: 35974619

QC Batch:	1122444	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Ormond Beach
Associated Lab Samples:	35974619010, 35974619011, 35974619012, 35974619013, 35974619014, 35974619015, 35974619016, 35974619017, 35974619018, 35974619019, 35974619020, 35974619021, 35974619022, 35974619023		

METHOD BLANK: 6154963 Matrix: Water
Associated Lab Samples: 35974619010, 35974619011, 35974619012, 35974619013, 35974619014, 35974619015, 35974619016, 35974619017, 35974619018, 35974619019, 35974619020, 35974619021, 35974619022, 35974619023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	2.5 U	5.0	2.5	08/19/25 18:47	
Fluoride	mg/L	0.015 U	0.050	0.015	08/19/25 18:47	
Sulfate	mg/L	2.5 U	5.0	2.5	08/19/25 18:47	

LABORATORY CONTROL SAMPLE: 6154964						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	46.1	92	90-110	
Fluoride	mg/L	5	4.9	97	90-110	
Sulfate	mg/L	50	46.3	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:												
6158497					6158498							
Parameter	Units	35974619010	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Max	Qual
		Result	Spike	Spike								
Chloride	mg/L	24.3	50	50	75.8	75.2	103	102	90-110	1	20	
Fluoride	mg/L	0.15	5	5	5.1	5.0	98	96	90-110	2	20	
Sulfate	mg/L	223	250	250	497	497	109	109	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 6158499 6158500												
Parameter	Units	35974619021	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Max	Qual
		Result	Spike	Spike								
Chloride	mg/L	2.6 I	50	50	46.6	46.5	88	88	90-110	0	20	J(M1)
Fluoride	mg/L	0.046 I	5	5	4.9	4.9	96	96	90-110	0	20	
Sulfate	mg/L	3.2 I	50	50	47.9	47.9	89	89	90-110	0	20	J(M1)

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QUALITY CONTROL DATA

Project: ENV3Q25
Pace Project No.: 35974619

QC Batch:	1119757	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, preserved
		Laboratory:	Pace Analytical Services - Ormond Beach
Associated Lab Samples:	35974619001, 35974619002, 35974619003, 35974619004, 35974619005, 35974619006, 35974619007, 35974619008, 35974619009, 35974619010, 35974619011, 35974619012, 35974619013, 35974619014		

METHOD BLANK: 6140065 Matrix: Water
Associated Lab Samples: 35974619001, 35974619002, 35974619003, 35974619004, 35974619005, 35974619006, 35974619007, 35974619008, 35974619009, 35974619010, 35974619011, 35974619012, 35974619013, 35974619014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.015 U	0.050	0.015	08/08/25 20:45	

LABORATORY CONTROL SAMPLE: 6140066

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.0	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 6140068 6140067

Parameter	Units	35974730002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.029 I	2	2	1.7	1.6	81	78	90-110	5	20	J(M1)

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 6140070 6140069

Parameter	Units	35974946002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	1.2	2	2	3.1	3.0	93	91	90-110	2	20	

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QUALITY CONTROL DATA

Project: ENV3Q25

Pace Project No.: 35974619

QC Batch: 1119867

Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2

Analysis Description: 353.2 Nitrate + Nitrite, preserved

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35974619015

METHOD BLANK: 6141119

Matrix: Water

Associated Lab Samples: 35974619015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.015 U	0.050	0.015	08/09/25 15:38	

LABORATORY CONTROL SAMPLE: 6141120

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.1	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 6141122 6141121

Parameter	Units	35974998001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	21.8	30	30	50.8	50.6	97	96	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 6141124 6141123

Parameter	Units	35974959001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.18	2	2	2.1	1.9	97	86	90-110	11	20 J(M1)	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV3Q25

Pace Project No.: 35974619

Sample: 3Q25-EBLANK1		Lab ID: 35974619015	Collected: 07/28/25 09:59	Received: 08/07/25 10:00	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Gross Alpha	SM 7110C-2000	4.54U ± 2.36 (4.54) C:NA T:NA		pCi/L	08/21/25 18:47	12587-46-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV3Q25

Pace Project No.: 35974619

Sample: 3Q25-LF-1		Lab ID: 35974619016	Collected: 07/29/25 08:27	Received: 08/07/25 10:00	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	08/21/25 13:54	13982-63-3	
	EPA 903.1	1.79U ± 1.03 (1.79) C:NA T:97%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	08/20/25 15:03	15262-20-1	
	EPA 904.0	0.865 ± 0.414 (0.690) C:82% T:88%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	08/21/25 15:50	7440-14-4	
	Total Radium Calculation	2.48U ± 1.44 (2.48)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV3Q25

Pace Project No.: 35974619

Sample: 3Q25-LF-2		Lab ID: 35974619017	Collected: 07/29/25 13:50	Received: 08/07/25 10:00	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	08/21/25 14:07	13982-63-3	
	EPA 903.1	1.47U ± 0.892 (1.47) C:NA T:95%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	08/20/25 15:04	15262-20-1	
	EPA 904.0	0.822U ± 0.399 (0.822) C:63% T:92%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	08/21/25 15:50	7440-14-4	
	Total Radium Calculation	2.29U ± 1.29 (2.29)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV3Q25

Pace Project No.: 35974619

Sample: 3Q25-LF-3		Lab ID: 35974619018	Collected: 07/29/25 12:53	Received: 08/07/25 10:00	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	08/21/25 14:07	13982-63-3	
	EPA 903.1	1.44U ± 0.875 (1.44) C:NA T:89%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	08/20/25 15:04	15262-20-1	
	EPA 904.0	1.21U ± 0.577 (1.21) C:61% T:71%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	08/21/25 15:50	7440-14-4	
	Total Radium Calculation	2.65U ± 1.45 (2.65)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV3Q25

Pace Project No.: 35974619

Sample: 3Q25-LF-4		Lab ID: 35974619019	Collected: 07/29/25 11:45	Received: 08/07/25 10:00	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	08/21/25 13:54	13982-63-3	
	EPA 903.1	1.36U ± 0.811 (1.36) C:NA T:97%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	08/20/25 15:02	15262-20-1	
	EPA 904.0	0.907U ± 0.474 (0.907) C:74% T:87%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	08/21/25 15:50	7440-14-4	
	Total Radium Calculation	2.27U ± 1.29 (2.27)					

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV3Q25

Pace Project No.: 35974619

Sample: 3Q25-LF-5		Lab ID: 35974619020	Collected: 07/29/25 10:49	Received: 08/07/25 10:00	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 903.1	4.29 ± 1.43 (1.59) C:NA T:92%		pCi/L	08/21/25 13:54	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 904.0	2.50 ± 0.728 (0.864) C:74% T:84%		pCi/L	08/20/25 15:04	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	6.79 ± 2.16 (2.45)		pCi/L	08/21/25 15:50	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV3Q25

Pace Project No.: 35974619

Sample: 3Q25-LF-6		Lab ID: 35974619021	Collected: 07/29/25 09:27	Received: 08/07/25 10:00	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg						
	EPA 903.1	1.58U ± 0.929 (1.58) C:NA T:94%		pCi/L	08/21/25 13:54	13982-63-3	
Radium-228	Pace Analytical Services - Greensburg						
	EPA 904.0	0.773U ± 0.373 (0.773) C:73% T:87%		pCi/L	08/20/25 15:03	15262-20-1	
Total Radium	Pace Analytical Services - Greensburg						
	Total Radium Calculation	2.35U ± 1.30 (2.35)		pCi/L	08/21/25 15:50	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: ENV3Q25

Pace Project No.: 35974619

Sample: 3Q25-EBLANK2		Lab ID: 35974619022	Collected: 07/29/25 12:10	Received: 08/07/25 10:00	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	08/21/25 13:54	13982-63-3	
	EPA 903.1	1.67U ± 0.935 (1.67) C:NA T:100%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	08/20/25 15:04	15262-20-1	
	EPA 904.0	1.06 ± 0.467 (0.755) C:70% T:93%					
Total Radium	Pace Analytical Services - Greensburg			pCi/L	08/21/25 15:50	7440-14-4	
	Total Radium Calculation	2.43U ± 1.40 (2.43)					

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: ENV3Q25

Pace Project No.: 35974619

QC Batch: 764570

Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1

Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 35974619016, 35974619017, 35974619018, 35974619019, 35974619020, 35974619021, 35974619022

METHOD BLANK: 3726418

Matrix: Water

Associated Lab Samples: 35974619016, 35974619017, 35974619018, 35974619019, 35974619020, 35974619021, 35974619022

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
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Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: ENV3Q25

Pace Project No.: 35974619

QC Batch: 764571

QC Batch Method: EPA 904.0

Analysis Method: EPA 904.0

Analysis Description: 904.0 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples:

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: ENV3Q25

Pace Project No.: 35974619

QC Batch: 765571

Analysis Method: SM 7110C-2000

QC Batch Method: SM 7110C-2000

Analysis Description: 7110C Gross Alpha

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples:

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: ENV3Q25

Pace Project No.: 35974619

QC Batch: 765830

QC Batch Method: SM 7110C-2000

Analysis Method: SM 7110C-2000

Analysis Description: 7110C Gross Alpha

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples:

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: ENV3Q25
Pace Project No.: 35974619

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace® Location Requested (City/State):
Pace Analytical Orlando Beach
8 East Tower Circle, Orlando Beach, FL 32174

Company Name: Deerehaven Lab
Street Address: P.O. Box 147117 Station D38
Gainesville, FL 32614

Customer Project #: ENV3Q25
Project Name:

Site Collection Info/Facility ID (as applicable):

Time Zone Collected: [] AK [] PT [] MT [] CT [] ET
Data Deliverables:

[] Level II [] Level III [] Level IV
[] EQUIS

Date Results Requested:
[] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other

Rush (Pre-approval required):
DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [] Yes [] No
Analysis:

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [] Yes [] No
County / State origin of sample(s): Florida

Customer Sample ID

Matrix	Comp / Grab	Composite Start	Time	Date	Time	Cont.	#	Res. Chlorine
								Results
3Q25-R1T6	WT			7/28/25	12:09	4		
3Q25-R2T1	WT			7/27/25	13:41	4		
3Q25-R3T7	WT			7/28/25	09:29	4		
3Q25-R4T5	WT			7/27/25	10:36	4		
3Q25-R6T1	WT			7/27/25	09:07	4		
3Q25-R6T4	WT			7/27/25	14:52	4		
3Q25-R6T8	WT			7/30/25	09:30	4		
3Q25-R6T12	WT			7/30/25	10:45	4		
3Q25-R8T10	WT			7/30/25	12:39	4		
3Q25-R9T5	WT			7/28/25	13:03	4		

Additional Instructions from Pace®:

Collected By:
(Printed Name)
Signature:

Received by/Company: (Signature)
Date/Time: 8/6/25 13:39
Received by/Company: (Signature)
Date/Time: 8/6/25 13:39
Received by/Company: (Signature)
Date/Time:
Received by/Company: (Signature)
Date/Time:

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Contact/Report To: Jeffery Boudreau
Phone #: (352) 393-6346
E-Mail: boudreauj@grc.com
Cc E-Mail: [morrisonkr@grc.com](mailto:morrisenkr@grc.com)

Invoice To: Jeffery Boudreau
Invoice E-Mail: boudreauj@grc.com
Purchase Order # (if applicable): 4510064942
Quote #:

Specify Container Size **
Identify Container Preservative Type ***
Analysis Requested

** Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) Encore, (8) TerraCore, (9) 90mL, (10) Other
*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

300.0 Chloride, SO4, Fluoride	353.2 Nitrogen, NO2/NO3 pres.	Gross Alpha by 7110C	Sub 6020 (Sp, Tl, B, L)	Sum Radium 226+228	Preservation non-conformance identified for sample.
X	X	X	X	X	Proj. Mgr: Jeff Baylor
X	X	X	X	X	AcctNum / Client ID:
X	X	X	X	X	Table #:
X	X	X	X	X	Profile / Template: 71
X	X	X	X	X	Prelog / Bottle Ord. ID: EZ 3275835
X	X	X	X	X	Sample Comment

Customer Remarks / Special Conditions / Possible Hazards:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C) On Ice: 1.2
Tracking Number: 917125 1000
Date/Time: 8/17/25
Delivered by: [] In-Person [] Courier
[] FedEx [] UPS [] Other
Page: 1 of 3

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Pace® Location Requested (City/State): Pace Analytical Orlando Beach 8 East Tower Circle, Ormond Beach, FL 32174

Company Name: Deerhaven Lab

Street Address: P.O. Box 147117, Station D38 Gainesville, FL 32614

Customer Project #: ENV3Q25

Project Name: ENV3Q25

Site Collection Info/Facility ID (as applicable):

Time Zone Collected: [] AK [] MT [] CT [] ET

Data Deliverables: [] Level II [] Level III [] Level IV [] EQUIS [] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Florida

Reportable [] Yes [] No

Rush (Pre-approval required): [] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other

Field Filtered (if applicable): [] Yes [] No

Analysis:

Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID

Matrix	Comp / Grab	Composite Start Date	Time	Collected or Composite End Date	Time	# Cont.	Res. Chlorine Results	Units
3Q25-R10T8	WT			7/31/25	09:59	4		
3Q25-R11T4	WT			7/31/25	08:53	4		
3Q25-DEEP	WT			7/30/25	14:12	4		
3Q25-DUP WELL	WT			7/28/25	13:03	4		
3Q25-EBLANK1	WT			7/28/25	09:59	4		
3Q25-LF-1	WT			7/29/25	08:27	3		
3Q25-LF-2	WT			7/29/25	13:50	3		
3Q25-LF-3	WT			7/29/25	12:53	3		
3Q25-LF-4	WT			7/29/25	11:45	3		
3Q25-LF-5	WT			7/29/25	10:49	3		

Additional Instructions from Pace®:

Collected By: (Printed Name) Signature:

Received by/Company: (Signature) Date/Time: 7/31/25 13:38

Received by/Company: (Signature) Date/Time:

Received by/Company: (Signature) Date/Time:

Received by/Company: (Signature) Date/Time:

Page 65

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at <https://www.pacelabs.com/resource-library/resource-terms-and-conditions/>

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Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

300.0 Chloride, Sulfate, Fluoride

353.2 Nitrogen, NO2/NO3 pres.

5310B TOC

Gross Alpha by 7110C

Sub 6020 (Sb, Tl, B, Li)

Sum Radium 226+228

Proj. Mgr: Jeff Baylor

AcctNum / Client ID:

Table #:

Profile / Template: 71

Prelog / Bottle Ord. ID: EZ 3275835

Sample Comment

Preservation non-conformance identified for sample.

*** Container Size: (1) 1L (2) 500mL (3) 250mL (4) 125mL (5) 100mL (6) 40mL vial (7) EnCore (8) TerraCore (9) 90mL (10) Other

*** Preservative Types: (1) None (2) HNO3 (3) H2SO4 (4) HCl (5) NaOH (6) Zn Acetate (7) NH4OH (8) Sod. Thiosulfate (9) Ascorbic Acid (10) MeOH (11) Other

Trading Number: 1000

Delivered by: [] In-Person [] Courier [] FedEx [] UPS [] Other

Page: 2 of 3

ENV-FRM-CORC-0019_v02_110123 ©

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Pace® Location Requested (City/State): Pace Analytical Ormond Beach 8 East Tower Circle, Ormond Beach, FL 32174

Company Name: Deerhaven Lab Street Address: P.O. Box 147117, Station D38 Gainesville, FL 32614

Contact/Report To: Jeffery Boudreau (352) 393-6346 E-Mail: boudreaujp@gpac.com Cc E-Mail: morrisonk@go.com

Invoice To: Jeffery Boudreau Invoice E-Mail: boudreaujp@gpac.com Purchase Order # (if applicable): 4510064942 Quote #:

Site Collection Info/Facility ID (as applicable): ENV3Q25

Time Zone Collected: [] AK [] ET [] MT [] CT [] ET Florida

Data Deliverables: Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [] Yes [] No

[] Level II [] Level III [] Level IV [] EQUIS

Rush (Pre-approval required): [] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other

Date Results Requested: Analysis: Field Filtered (if applicable): [] Yes [] No

*Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Biosassay (B), Vapor (V), Surface Water (SW), Sediment (SD), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Time	Collected or Composite End Date	Time	# Cont.	Res. Results	Units
3Q25-LF-6	WT		7/29/25	09:27	7/29/25	09:27	3		
3Q25-EBLANK2	WT		7/29/25	12:10	7/29/25	12:10	3		
3Q25-Barnstead	WT		7/29/25	07:45	7/29/25	07:45	2		

Additional Instructions from Pace®:

Collected By: (Printed Name) Signature: OAS Pace

Received by/Company: (Signature) Date/Time: 8/1/25 10:00

Received by/Company: (Signature) Date/Time:

Received by/Company: (Signature) Date/Time:

Received by/Company: (Signature) Date/Time:

Page 66 of 84

Sample Condition Upon Receipt
WO#: 35974619

Pace

Project #
Project Manager:
Client:

PM: JSB Due Date: 08/25/25
CLIENT: DEELAB

Date and Initials of person:

Examining contents: AWJ

Verifying pH: ✓

Thermometer Used: T-425

Date: 8/7/25

Time: 1028

Initials: OAS

State of Origin:

☐ For WV projects, all containers verified to $\leq 6^{\circ}\text{C}$

Cooler #1 Temp. $^{\circ}\text{C}$ 1.4 (Visual) -0.2 (Correction Factor) 1.2 (Actual)

Cooler #2 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

Cooler #3 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

Cooler #4 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

Cooler #5 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

Cooler #6 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

Recheck for OOT $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Shipping Method: ☐ Standard Overnight ☐ First Overnight ☒ Priority Overnight ☐ Ground ☐ International Priority ☐ Other:

Tracking # 3918 3895 3029

Custody Seal Present: ☐ Yes ☒ No Seal properly placed and intact: ☐ Yes ☒ No

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other:

Ice: ☒ Wet ☐ Blue ☐ Dry ☐ None ☐ Melted

Samples shorted to lab: ☐ Yes ☒ No (If yes, complete the following)

Shorted Date:

Bottle Quantity / Type:

Shorted Time:

Chain of Custody: Present ☒ Yes ☐ No Filled Out: ☐ Yes ☒ No ☐ N/A Sampler Name: ☒ Yes ☐ No ☐ N/A	
Relinquished To Pace: ☒ Yes ☐ No ☐ N/A Sampling Date(s): ☒ Yes ☐ No ☐ N/A Sampling Time(s): ☒ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☒ Yes ☐ No ☐ N/A
Rush Turnaround Requested on COC	☐ Yes ☒ No ☐ N/A
Sufficient Volume	☐ Yes ☒ No ☐ N/A
Correct Containers Used	☒ Yes ☐ No ☐ N/A
Containers Intact	☒ Yes ☐ No ☐ N/A
Sample Labels Match COC (Sample ID, Date/Time of Collection)	☒ Yes ☐ No ☐ N/A
All containers needing acid / base preservation have been checked	☒ Yes ☐ No ☐ N/A
All containers needing preservation are found to be in compliance with EPA recommendation:	☒ Yes ☐ No ☐ N/A
Exceptions: Vials, Microbiology, O&G, PFAS	
Headspace in Volatile Vials? (>6mm):	☐ Yes ☐ No ☒ N/A
Trip Blank Present:	☐ Yes ☐ No ☒ N/A

Comments / Resolutions (use back for additional comments):

Container types not marked on COC.

Labeled by: JSB

Reviewed by: OAS



Kanapaha Laboratory

3901 South West 63rd Blvd
Gainesville, FL 32608
(352) 393-6777

Florida Department of Health Certification E52099

August 29, 2025

Kim Morrison
Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

RE: Environmental - Deerhaven CCR Wells

Enclosed are the results of analyses for samples received by the laboratory on 7/31/2025. If you have any questions concerning this report, please feel free to contact me.

Please note that all results were determined in accordance with NELAP requirements. All data is subject to a degree of uncertainty. Kanapaha Lab uncertainty is based upon LCS quality control statistics.

Sincerely,

Jaclyn M Dlhos
Laboratory Supervisor



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 3Q25 CCR
Project Manager: Kim Morrison

Reported:
08/29/2025 0:44

ANALYTICAL REPORT FOR SAMPLES

Laboratory ID	Sample ID	Matrix	Date Sampled	Date Received
K25G086-01	LF-1	Groundwater	07/29/2025 08:27	07/31/2025 08:17
K25G086-02	LF-2	Groundwater	07/29/2025 13:50	07/31/2025 08:17
K25G086-03	LF-3	Groundwater	07/29/2025 12:53	07/31/2025 08:17
K25G086-04	LF-4	Groundwater	07/29/2025 11:45	07/31/2025 08:17
K25G086-05	LF-5	Groundwater	07/29/2025 10:49	07/31/2025 08:17
K25G086-06	LF-6	Groundwater	07/29/2025 09:27	07/31/2025 08:17
K25G086-07	EBLANK2	Groundwater	07/29/2025 12:10	07/31/2025 08:17



Kanapaha Laboratory

3901 South West 63rd Blvd
Gainesville, FL 32608
(352) 393-6777

Florida Department of Health Certification E52099

Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 3Q25 CCR
Project Manager: Kim Morrison

Reported:
08/29/2025 0:44

LF-1

K25G086-01 (Groundwater, Grab)

Collected: 07/29/2025 8:27 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U	2.5	10.0	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Barium	191		0.20	0.80	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Calcium	45.0		0.10	0.40	mg/L	1	08/20/2025	08/27/2025	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Molybdenum	11.9		2.5	10.0	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	08/06/2025	08/06/2025	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	189		10	40	mg/L	1	08/04/2025	08/04/2025	SM 2540C
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Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 3Q25 CCR
Project Manager: Kim Morrison

Reported:
08/29/2025 0:44

LF-2

K25G086-02 (Groundwater, Grab)

Collected: 07/29/2025 1:50 pm

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U	2.5	10.0	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Barium	34.8		0.20	0.80	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Beryllium	0.14	I	0.10	0.40	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Calcium	22.4		0.10	0.40	mg/L	1	08/20/2025	08/27/2025	EPA 200.7
Chromium	3.3	I	1.2	4.8	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Cobalt	4.9		1.0	4.0	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	08/06/2025	08/06/2025	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	237		10	40	mg/L	1	08/04/2025	08/04/2025	SM 2540C
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Kanapaha Laboratory

3901 South West 63rd Blvd
Gainesville, FL 32608
(352) 393-6777

Florida Department of Health Certification E52099

Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 3Q25 CCR
Project Manager: Kim Morrison

Reported:
08/29/2025 0:44

LF-3

K25G086-03 (Groundwater, Grab)

Collected: 07/29/2025 12:53 pm

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U	2.5	10.0	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Barium	47.6		0.20	0.80	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Calcium	13.2		0.10	0.40	mg/L	1	08/20/2025	08/27/2025	EPA 200.7
Chromium	6.0		1.2	4.8	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	08/06/2025	08/06/2025	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	375		10	40	mg/L	1	08/04/2025	08/04/2025	SM 2540C
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Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 3Q25 CCR
Project Manager: Kim Morrison

Reported:
08/29/2025 0:44

LF-4

K25G086-04 (Groundwater, Grab)

Collected: 07/29/2025 11:45 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U	2.5	10.0	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Barium	19.8		0.20	0.80	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Calcium	9.56		0.10	0.40	mg/L	1	08/20/2025	08/27/2025	EPA 200.7
Chromium	1.8	I	1.2	4.8	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Molybdenum	3.0	I	2.5	10.0	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	08/06/2025	08/06/2025	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	96		10	40	mg/L	1	08/04/2025	08/04/2025	SM 2540C
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Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 3Q25 CCR
Project Manager: Kim Morrison

Reported:
08/29/2025 0:44

LF-5

K25G086-05 (Groundwater, Grab)

Collected: 07/29/2025 10:49 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U	2.5	10.0	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Barium	36.0		0.20	0.80	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Calcium	53.7		0.10	0.40	mg/L	1	08/20/2025	08/27/2025	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Cobalt	5.3		1.0	4.0	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Lead	3.4	I	3.0	12.0	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Molybdenum	14.6		2.5	10.0	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	08/06/2025	08/06/2025	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	648		10	40	mg/L	1	08/04/2025	08/04/2025	SM 2540C
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Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 3Q25 CCR
Project Manager: Kim Morrison

Reported:
08/29/2025 0:44

LF-6

K25G086-06 (Groundwater, Grab)

Collected: 07/29/2025 9:27 am

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U	2.5	10.0	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Barium	10.1		0.20	0.80	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Calcium	28.7		0.10	0.40	mg/L	1	08/20/2025	08/27/2025	EPA 200.7
Chromium	1.3	I	1.2	4.8	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	08/06/2025	08/06/2025	EPA 245.1

Wet Chemistry by APHA/EPA Methods

Total Dissolved Solids	114		10	40	mg/L	1	08/04/2025	08/04/2025	SM 2540C
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EBLANK2

K25G086-07 (Groundwater, Grab)

Collected: 07/29/2025 12:10 pm

Analyte	Result	Qual	MDL	PQL	Units	Dil	Prepared	Analyzed	Method
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Laboratory: Kanapaha Laboratory

Metals by EPA 200 Series Methods

Arsenic	2.5	U	2.5	10.0	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Barium	0.20	U	0.20	0.80	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Beryllium	0.10	U	0.10	0.40	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Cadmium	0.30	U	0.30	1.20	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Calcium	0.10	U	0.10	0.40	mg/L	1	08/20/2025	08/27/2025	EPA 200.7
Chromium	1.2	U	1.2	4.8	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Cobalt	1.0	U	1.0	4.0	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Lead	3.0	U	3.0	12.0	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Molybdenum	2.5	U	2.5	10.0	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Selenium	4.0	U	4.0	16.0	ug/L	1	08/20/2025	08/27/2025	EPA 200.7
Mercury	0.100	U	0.100	0.400	ug/L	1	08/06/2025	08/06/2025	EPA 245.1



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 3Q25 CCR
Project Manager: Kim Morrison

Reported:
08/29/2025 0:44

Metals by EPA 200 Series Methods - Quality Control

Laboratory: Kanapaha Laboratory

Analyte	Result	Qual	MDL	PQL	Units	Spike Level	Source Result	%REC	% REC Limits	RSD	RSD Limit
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Batch B25H029 - MERCURY

Blank (B25H029-BLK1)

Prepared & Analyzed: 8/6/2025

Mercury	0.100 U		0.100	0.400	ug/L						
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LCS (B25H029-BS1)

Prepared & Analyzed: 8/6/2025

Mercury	1.81		0.100	0.400	ug/L	2.00		90.5	90-110		
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Duplicate (B25H029-DUP1)

Source: K25G086-02

Prepared & Analyzed: 8/6/2025

Mercury	0.100 U		0.100	0.400	ug/L		ND			NR	
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Matrix Spike (B25H029-MS1)

Source: K25G086-02

Prepared & Analyzed: 8/6/2025

Mercury	1.94		0.100	0.400	ug/L	2.00	ND	97.2	90-110		
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Batch B25H130 - EPA 200.7

Blank (B25H130-BLK1)

Prepared: 8/20/2025 Analyzed: 8/27/2025

Lead	3.0 U		3.0	12.0	ug/L						
Cadmium	0.30 U		0.30	1.20	ug/L						
Chromium	1.2 U		1.2	4.8	ug/L						
Cobalt	1.0 U		1.0	4.0	ug/L						
Calcium	0.10 U		0.10	0.40	mg/L						
Barium	0.20 U		0.20	0.80	ug/L						
Beryllium	0.10 U		0.10	0.40	ug/L						
Arsenic	2.5 U		2.5	10.0	ug/L						
Molybdenum	2.5 U		2.5	10.0	ug/L						
Selenium	4.0 U		4.0	16.0	ug/L						

LCS (B25H130-BS1)

Prepared: 8/20/2025 Analyzed: 8/27/2025

Arsenic	105				ug/L	100		105	90-110		
Beryllium	101				ug/L	100		101	90-110		
Cadmium	99.4				ug/L	100		99.4	90-110		
Barium	97.6				ug/L	100		97.6	90-110		
Cobalt	102				ug/L	100		102	90-110		
Calcium	24.6				mg/L	24.9		98.9	90-110		
Molybdenum	101				ug/L	100		101	90-110		
Chromium	98.5				ug/L	100		98.5	90-110		
Selenium	92.6				ug/L	100		92.6	90-110		
Lead	100				ug/L	100		100	90-110		

Duplicate (B25H130-DUP1)

Source: K25G086-04

Prepared: 8/20/2025 Analyzed: 8/27/2025

Molybdenum	3.1 I		2.5	10.0	ug/L		3.0			3.44	
Lead	3.0 U		3.0	12.0	ug/L		ND			25.0	



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 3Q25 CCR
Project Manager: Kim Morrison

Reported:
08/29/2025 0:44

Metals by EPA 200 Series Methods - Quality Control

Laboratory: Kanapaha Laboratory

Analyte	Result	Qual	MDL	PQL	Units	Spike Level	Source Result	%REC	% REC Limits	RSD	RSD Limit
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Batch B25H130 - EPA 200.7 (Continued)

Duplicate (B25H130-DUP1)

Source: K25G086-04

Prepared: 8/20/2025 Analyzed: 8/27/2025

Cobalt	1.0 U		1.0	4.0	ug/L		ND			27.7	
Selenium	4.0 U		4.0	16.0	ug/L		ND			1.70	
Calcium	9.78		0.10	0.40	mg/L		9.56			1.63	
Cadmium	0.30 U		0.30	1.20	ug/L		ND			17.4	
Beryllium	0.10 U		0.10	0.40	ug/L		ND			42.2	
Barium	20.4		0.20	0.80	ug/L		19.8			2.00	
Arsenic	2.5 U		2.5	10.0	ug/L		ND			22.5	
Chromium	1.9 I		1.2	4.8	ug/L		1.8			1.42	

Matrix Spike (B25H130-MS1)

Source: K25G086-04

Prepared: 8/20/2025 Analyzed: 8/27/2025

Barium	519		0.20	0.80	ug/L	500	19.8	99.8	90-110		
Molybdenum	533		2.5	10.0	ug/L	500	3.0	106	90-110		
Cadmium	49.8		0.30	1.20	ug/L	50.0	ND	99.6	90-110		
Lead	202		3.0	12.0	ug/L	200	ND	101	90-110		
Arsenic	199		2.5	10.0	ug/L	200	ND	99.6	90-110		
Cobalt	210		1.0	4.0	ug/L	200	ND	105	90-110		
Chromium	212		1.2	4.8	ug/L	200	1.8	105	90-110		
Selenium	48.0		4.0	16.0	ug/L	50.0	ND	95.9	90-110		
Beryllium	201		0.10	0.40	ug/L	200	ND	101	90-110		
Calcium	35.5		0.10	0.40	mg/L	25.0	9.56	104	90-110		



Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 3Q25 CCR
Project Manager: Kim Morrison

Reported:
08/29/2025 0:44

Wet Chemistry by APHA/EPA Methods - Quality Control

Laboratory: Kanapaha Laboratory

Analyte	Result	Qual	MDL	PQL	Units	Spike Level	Source Result	%REC	% REC Limits	RSD	RSD Limit
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Batch B25H016 - DEFAULT PREP - Wet Chem

Blank (B25H016-BLK1)

Prepared & Analyzed: 8/4/2025

Total Dissolved Solids	10 U		10	40	mg/L						
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Duplicate (B25H016-DUP1)

Source: K25G086-03

Prepared & Analyzed: 8/4/2025

Total Dissolved Solids	357		10	40	mg/L		375			3.48	
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Reference (B25H016-SRM1)

Prepared & Analyzed: 8/4/2025

Total Dissolved Solids	239				mg/L	240		99.6	90-110		
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Deerhaven Laboratory
Station D-38
Gainesville, FL/USA 32614-7117

Project: Environmental - Deerhaven CCR Wells
Project Number: 3Q25 CCR
Project Manager: Kim Morrison

Reported:
08/29/2025 0:44

Notes and Definitions

<u>Qualifier</u>	<u>Description</u>
NR	Not Reported
RSD	Relative Standard Deviation
U	Compound was analyzed for but not detected
N	Presumptive evidence of presence of material
L	Off-scale high. Actual value is known to be greater than value given
I	The reported value is between the laboratory MDL and the laboratory PQL
V	Analyte was detected in both the sample and the associated method blank

CHAIN OF CUSTODY - Analytical Request Document

Deerhaven Generating Station
10001 NW 13th St., Gainesville, FL 32653

Preservations:

I = Ice

N = Nitric Acid

S = Sulfuric Acid

Matrix:

GW = Groundwater

W = Water

Batch:		ENV3Q25		Container Preservation Type											
Sample Collector(s):		CD, KB		N	N	I	I	I	N	N	N	N	I	I	N
				Analysis Requested											
Sample ID	Matrix	Collection Date/Time	# of Ctns	Metals by 200.7 (Al, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, Se, Ag, Sr, V, Zn)	Mercury by 245.1	Color by 2120B	TSS by 2540D	TDS by 2540C	Metals by 200.7 (As, Ba, Be, Cd, Ca, Cr, Co, Pb, Mo, Se)	Metals by 200.7 (As, Ba, Cd, Ca, Cr, Co, Pb, Mo, Se)	Metals by 200.7 (As, Ba, Be, Ca, Cr, Co, Pb, Mo, Se)	Metals by 200.7 (Mn, Mo, Ni, Na, Zn)	Chloride by 4500-Cl-C	Sulfate by 4500-SO4-E	Arsenic by 200.7
3Q25-R6T8	GW	7/30/25 @ 09:30	2	X	X	X	X	X							
3Q25-R6T12	GW	7/30/25 @ 10:45	2	X	X	X	X	X							
3Q25-R8T10	GW	7/30/25 @ 12:39	2	X	X	X	X	X							
3Q25-DEEP	GW	7/30/25 @ 14:12	2	X	X	X	X	X							
3Q25-LF-1	GW	7/29/25 @ 08:27	2		X			X	X						
3Q25-LF-2	GW	7/29/25 @ 13:50	2		X			X	X						
3Q25-LF-3	GW	7/29/25 @ 12:53	2		X			X	X						
3Q25-LF-4	GW	7/29/25 @ 11:45	2		X			X	X						
3Q25-LF-5	GW	7/29/25 @ 10:49	2		X			X	X						
3Q25-LF-6	GW	7/29/25 @ 09:27	2		X			X	X						
3Q25-EBLANK-2	GW	7/29/25 @ 12:10	1		X				X						
3Q25-BARNSTEAD	GW	7/27/25 @ 07:45	1	X											

Sample ID

-01
-02
-03
-04
-05
-06
-07

Kimberly J. Lanza
Released By

7/31/25/7:16

Date/Time

Received By

07/31/25

0817

Date/Time

Released By

Date/Time

Received By

Date/Time

Work Order # K25G0860

Page 1 of 1

Project # 3Q2500R

Attachment B

Groundwater Sampling Field and
Calibration Logs

DGS Groundwater Sampling Log



WELL ID: EBLANK	Location: na	Latitude: na	Longitude: na	MSL @ TOC Date In Service: 0
Quarter: 1Q25	Date: 2/3/2025	Well Type: na		

Purging Data

Purging Method: PP	Equipment Volum = 750 ml
Well Collected at: RITG	Purge Start Time: N/A
Time Depth meter decon: 1115	Purge Stop Time: N/A

♣ FDEP SOP Section 2212.3

Sampling Data

Decon Depth Mtr - rinse with analyte free water

§ Purge method FDEP-SOP 2212.3.1

Sampled By(Print): JCD arls			Sampler(s) Signatures: <i>JCD</i>			
Sampling Method: pump/ bailing/other			Sampling Started at: 1116		Sampling completed at 1130	
Field Decon: NO		Field Filtered: NO		Duplicate: YES NO		
Sample Container Specification			Sample Preservation			Intended Analysis or method
ID:	Material	Volume(mL)	Preservative	Volume added	final pH	
1Q25 EBI-E	PE	1000 (500)	HNO3	2 mL (1 mL)	1.0	Metals
N/A	PE	1700	Chill 4 deg C	none	n/a	Physical Analysis
1Q25 EBI	PE	250	H2SO4	2 mL (Pre)	N/A	Demand-NPDOC (F, Cl, SO4)
1Q25 EBI	PE	250	Chill 4 deg C	none (Pre)	n/a	Anion (NO3+NO2)
1Q25 EBI	PE	1700 (1000)	HNO3	4 mL (PRE)	N/A	Radiological-Gross Alpha
1Q25 EBI	Glass	40x2	Chill <6°C	Pre	N/A	TOC

N/A Well found locked on arrival. **N/A** Well left locked on departure.

Temperature: **66°F** Winds: **6 mph E** Cloud cover: **cloudy** Precipitation: **0**
Remarks:

Codes: PP/S + Polypropylene+Silicone tubing

PP: Peristaltic Pump

PE: Polyethylene B

DGS Groundwater Sampling Log



WELL ID: **LF-1** Location: Latitude: Longitude: MSL @ TOC Date In Service
 29°45'59.0544" -82°23'51.8244" 185.76 2017

Quarter: **1Q25** Date: **2/4/25** Well Type: **U**

Purging Data

Diameter(in)	2	Total well depth(ft)	14.88	Depth to water(ft)	6.08	Well capacity(L/ft)	0.6
Distance from TOC to top of screen		4.88	ft.	Purging Method: PP		Equipment Volume = 750 mL	
1 WELL VOLUME(L)=(Total Well Depth-Depth to water)X Well Capacity				Time of Depth Meter Decon: 0854			
Well Vol = (14.88 - 6.08) X 0.6 = 5.3 L				1/4 well vol. =			
Init Tubing Dpth(ft)	9.0	Final Tube Dpth(ft)	9.0	Purge Start Time:	0856	Purge Stop time:	0928
				Total Volume Purged	11.5 L		

Time	Volume Purged (L)	Cumul. Volume Purged (L)	Purge rate mL/min	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O2 (mg/L)	Turbidity (ntu)	ORP (mv)	Observed odor or color
					± 0.2§	± 0.2§	± 5%§	20% sat§	20 max§		
0912	5.5	5.5	400	6.25	5.78	17.64	248.4	1.08	4.54	54.0	Clear w/ particulates No color Sulfur odor
0916	1.5	7.0	400	6.25	5.72	17.71	233.0	0.91	2.36	46.2	
0920	1.5	8.5	400	6.25	5.68	17.78	224.9	0.79	2.12	41.7	
0924	1.5	10.0	400	6.27	5.65	17.81	219.8	0.79	1.73	39.1	
0928	1.5	11.5	400	6.27	5.65	17.85	218.2	0.70	1.80	37.6	

◆ FDEP SOP Section 2212.3

Sampling Data

Decon Depth Mtr - rinse with analyte free water
 §Purge method FDEP-SOP 2212.3.1

Sampled By(Print): R. Brakefield, JCD mis				Sampler(s) Signatures: R. Brakefield, JCD mis			
Sampling Method: PP		Tube Material: PP/S		Sampling Started Tube Dpth(ft): 6.77 Time: 0930		Sampling Completed Tube Dpth(ft): 6.77 Time: 0938	
Field Decon: NO		Field Filtered: NO		Duplicate: YES (NO)		Acid ID# HNO3: NS0077 H2SO4: N/A	

Sample Container Specification			Sample Preservation			Intended Analysis or method
ID:	Material	Volume(mL)	Preservative	Volume added	final pH	
1Q25-LF-1-G	PE	500	HNO3	1.0 mL	1.3	Kanapaha: Metals (full) + Hg
1Q25-LF-1	PE	250	HNO3	0.5 mL pre	N/A	Pace: Metals (Sb, Ti, B, Li) 6020
1Q25-LF-1	PE	250	Chill <6 deg	n/a	n/a	Pace: Anions (F, Cl, SO4)
1Q25-LF-1	PE	1000	HNO3	4 mL pre	N/A	Pace: Radium 226+228 Combined
1Q25-LF-1	PE	-2000 500	Chill <6 deg	n/a	n/a	Kanapaha: Solids (TSS, TDS)

☒ Well found locked on arrival ☒ Well left locked on departure

Temperature: **60°F** Winds: **NW @ 4 mph** Cloud Cover: **overcast** Precip: **0**

Remarks:

DGS Groundwater Sampling Log



WELL ID: LF-2	Location:	Latitude: 29°45'50.46"	Longitude: -82°23'47.40"	MSL @ TOC	Date In Service: 2019
Quarter: 1Q25	Date: 2/5/25	Well Type: D			

Purging Data

Diameter(in)	2	Total well depth(ft)	15.36	Depth to water(ft)	4.98	Well capacity(L/ft)	0.6
Distance from TOC to top of screen		5.36	ft.	Purging Method: PP		Equipment Volume = 750 mL	
1 WELL VOLUME(L)=(Total Well Depth-Depth to water)X Well Capacity				Time of Depth Meter Decon: 0926			
Well Vol = (15.36 - 4.98) X 0.6 = 6.25 L				1/4 well vol. = 1.6 L			
Init Tubing Dpth(ft)	9.0	Final Tube Dept(ft)	9.0	Purge Start Time:	0930	Purge Stop time:	1028
				Total Volume Purged		11.0 L	

Time	Volume Purged (L)	Cumul. Volume Purged (L)	Purge rate mL/min	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O2 (mg/L)	Turbidity (ntu)	ORP (mv)	Observed odor or color
					± 0.2§	± 0.2§	± 5%§	20% sat§	20 max§		
1005	6.5	6.5	200	5.33	5.53	16.52	486.8	0.16	1.82	65.6	clear No color Sulfur odor
1009	0.75	7.25	200	5.33	5.55	16.52	504.9	0.16	1.28	61.5	
1013	0.75	8.0	200	5.33	5.56	16.52	525.6	0.16	1.49	56.9	
1017	0.75	8.75	200	5.33	5.57	16.46	535.2	0.15	1.31	54.2	
1020	0.75	9.5	200	5.33	5.57	16.49	562.5	0.15	0.84	48.6	
1024	0.75	10.25	200	5.33	5.57	16.45	573.7	0.14	0.87	46.5	
1028	0.75	11.0	200	5.33	5.57	16.50	584.3	0.14	0.95	44.3	

◆ FDEP SOP Section 2212.3

Sampling Data

Decon Depth Mtr - rinse with analyte free water
§Purge method FDEP-SOP 2212.3.1

Sampled By(Print): K. Brakefield JCDump		Sampler(s) Signatures: K. Brakefield JCDump	
Sampling Method: PP	Tube Material: PP/S	Samoling Started Tube Dpth(ft): 9.0 Time: 1030	Samoling completed Tube Dpth(ft): 9.0 Time: 1044
Field Decon: NO	Field Filtered: NO	Duplicate: YES (NO)	Acid ID# HNO3: D50077 H2SO4: N/A

Sample Container Specification			Sample Preservation			Intended Analysis or method
ID:	Material	Volume(mL)	Preservative	Volume added	final pH	
1Q25-LF-2-	PE	500	HNO3	1.0 mL	1.3	Kanapaha: Metals (full) + Hg
1Q25-LF-2	PE	250	HNO3	0.5 mL pre	N/A	Pace: Metals (Sb,Ti,B,Li) 6020
1Q25-LF-2	PE	250	Chill <6 deg	n/a	n/a	Pace: Anions (F, Cl, SO4)
1Q25-LF-2	PE	1000	HNO3	4 mL pre	N/A	Pace: Radium 226+228 Combined
1Q25-LF-2-	PE	2000 500	Chill <6 deg	n/a	n/a	Kanapaha: Solids (TSS, TDS)

☒ Well found locked on arrival	☒ Well left locked on departure
Temperature: 68°F	Winds: calm
Cloud Cover: mostly sunny	Precip: 0
Remarks:	

DGS Groundwater Sampling Log



WELL ID: LF-3	Location:	Latitude: 29°45'50.38"	Longitude: -82°23'52.30"	MSL @ TOC Date In Service: 183.7 2019
Quarter: 1Q25	Date: 2/5/25	Well Type: D		

Purging Data

Diameter(in) 2	Total well depth(ft) 16.29	Depth to water(ft) 4.63	Well capacity(L/ft) 0.6
Distance from TOC to top of screen 6.29 ft.		Purging Method: PP	Equipment Volume = 750 mL
1 WELL VOLUME(L)=(Total Well Depth-Depth to water)X Well Capacity		Time of Depth Meter Decon: 1051	
Well Vol = (16.29 - 4.63) X 0.6 = 7.0 L 1/4 well vol. = 1.75 L			
Init Tubing Dpth(ft) 9.0	Final Tube Dpth(ft) 9.0	Purge Start Time: 1053	Purge Stop time: 1109
		Total Volume Purged 3.1 L	

Time	Volume Purged (L)	Cumul. Volume Purged (L)	Purge rate mL/min	Depth to water (ft)	pH (SU) ± 0.2§	Temp (°C) ± 0.2§	Cond (µmho) ± 5%§	Diss O2 (mg/L) 20% sat§	Turbidity (ntu) 20 max§	ORP (mv)	Observed odor or color
1102	1.5	1.5	270	4.80	6.00	16.34	496.8	0.35	2.95	1.2	Clear No color Sulfur odor
1105	0.8	2.3	270	4.80	6.00	16.27	491.8	0.25	2.99	-5.6	
1109	0.8	3.1	270	4.80	5.99	16.19	481.1	0.13	2.88	-13.1	

♣ FDEP SOP Section 2212.3

Sampling Data

Decon Depth Mtr - rinse with analyte free water
§Purge method FDEP-SOP 2212.3.1

Sampled By(Print): K. Brakefield, JC Davis			Sampler(s) Signatures: K. Brakefield, JC Davis		
Sampling Method: PP	Tube Material: PP/S	Samoling Started Tube Dpth(ft): 9.0 Time: 1112	Samoling completed Tube Dpth(ft): 9.0 Time: 1129		
Field Decon: NO	Field Filtered: NO	Duplicate: YES (NO)	Acid ID# HNO3: D50077	H2SO4: N/A	

Sample Container Specification			Sample Preservation			Intended Analysis or method
ID:	Material	Volume(mL)	Preservative	Volume added	final pH	
1Q25-LF-3-G	PE	500	HNO3	1.0 mL	1.3	Kanapaha: Metals (full) + Hg
1Q25-LF-3	PE	250	HNO3	0.5 mL pre	N/A	Pace: Metals (Sb,Ti,B,Li) 6020
1Q25-LF-3	PE	250	Chill <6 deg	n/a	n/a	Pace: Anions (F, Cl, SO4)
1Q25-LF-3	PE	1000	HNO3	4 mL pre	N/A	Pace: Radium 226+228 Combined
1Q25-LF-3-F	PE	2000-500	Chill <6 deg	n/a	n/a	Kanapaha: Solids (TSS, TDS)

☒ Well found locked on arrival	☒ Well left locked on departure
Temperature: 73°F	Winds: E @ 2 mph
Cloud Cover: Mostly Sunny	Precip: 0
Remarks: Fully submerged screen	

DGS Groundwater Sampling Log



WELL ID: LF-4	Location:	Latitude: 29°45'50.43"	Longitude: -82°23'58.46"	MSL @ TOC: 184.83	Date In Service: 2019
Quarter: 1Q25	Date: 2/5/25	Well Type: D			

Purging Data

Diameter(in) 2	Total well depth(ft) 16.06	Depth to water(ft) 5.04	Well capacity(L/ft) 0.6
Distance from TOC to top of screen 6.06 ft.	Purging Method: PP	Equipment Volume = 750 mL	
1 WELL VOLUME(L)=(Total Well Depth-Depth to water)X Well Capacity		Time of Depth Meter Decon: 1126	
Well Vol = (16.06 - 5.04) X 0.6 = 6.4 L		1/4 well vol. = 1.6 L	
Init Tubing Dpth(ft) 9.0	Final Tube Dept(ft) 9.0	Purge Start Time: 1131	Purge Stop time: 1204
		Total Volume Purged 9.6 L	

Time	Volume Purged (L)	Cumul. Volume Purged (L)	Purge rate mL/min	Depth to water (ft)	pH (SU) ± 0.2§	Temp (°C) ± 0.2§	Cond (µmho) ± 5%§	Diss O2 (mg/L) 20% sat§	Turbidity (ntu) 20 max§	ORP (mv)	Observed odor or color
1153	6.4	6.4	300	5.42	5.20	15.06	163.0	0.88	12.5	107.7	Clear No color Sulfur odor
1159	1.6	8.0	300	5.42	5.21	14.99	162.1	0.84	5.36	103.8	
1204	1.6	9.6	300	5.42	5.20	14.89	161.9	0.84	3.83	102.3	

♣ FDEP SOP Section 2212.3

Sampling Data

Decon Depth Mtr - rinse with analyte free water
§Purge method FDEP-SOP 2212.3.1

Sampled By(Print): K. Brakefield, JCD				Sampler(s) Signatures: K. Brakefield, JCD			
Sampling Method: PP		Tube Material: PP/S		Samoling Started Tube Dpth(ft): 9.0 Time: 1206		Samoling completed Tube Dpth(ft): 9.0 Time: 1216	
Field Decon: NO		Field Filtered: NO		Duplicate: YES NO		Acid ID# HNO3: 050077 H2SO4: N/A	

Sample Container Specification			Sample Preservation			Intended Analysis or method
ID:	Material	Volume(mL)	Preservative	Volume added	final pH	
1Q25-LF-4-G	PE	500	HNO3	1.0 mL	1.3	Kanapaha: Metals (full) + Hg
1Q25-LF-4	PE	250	HNO3	0.5 mL pre	N/A	Pace: Metals (Sb,TI,B,LI) 6020
1Q25-LF-4	PE	250	Chill <6 deg	n/a	n/a	Pace: Anions (FI, CI, SO4)
1Q25-LF-4	PE	1000	HNO3	4 mL pre	N/A	Pace: Radium 226+228 Combined
1Q25-LF-4-F	PE	2000-500	Chill <6 deg	n/a	n/a	Kanapaha: Solids (TSS, TDS)

☒ Well found locked on arrival	☒ Well left locked on departure
Temperature: 79°F	Winds: Calin
Cloud Cover: Mostly Sunny	Precip: 0
Remarks:	

DGS Groundwater Sampling Log



WELL ID: LF-5	Location: 29°45'53.70"	Latitude: -82°23'59.83"	Longitude: 184.33	MSL @ TOC Date In Service: 2020
Quarter: 1Q25	Date: 2/5/25	Well Type: D		

Purging Data

Diameter(in) 2	Total well depth(ft) 14.52	Depth to water(ft) 5.49	Well capacity(L/ft) 0.6
Distance from TOC to top of screen 4.04 ft.	Purging Method: PP	Equipment Volume = 750 mL	
1 WELL VOLUME(L)=(Total Well Depth-Depth to water)X Well Capacity		Time of Depth Meter Decon: 1236	
Well Vol = (14.52 - 5.49) X 0.6 = 5.5 L		1/4 well vol. = 1.4 L	
Init Tubing Dpth(ft) 9.0	Final Tube Dpth(ft) 9.0	Purge Start Time: 1240	Purge Stop time: 1339
Total Volume Purged 17.0 L			

Time	Volume Purged (L)	Cumul. Volume Purged (L)	Purge rate mL/min	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O2 (mg/L)	Turbidity (ntu)	ORP (mv)	Observed odor or color
					± 0.2§	± 0.2§	± 5%§	20% sat§	20 max§		
1315	10.0	10.0	300	5.65	5.59	16.99	802.0	2.04	5.67	108.6	Clear No color Sulfur odor
1320	1.4	11.4	300	5.65	5.58	16.93	829.1	2.05	3.43	104.2	
1325	1.4	12.8	300	5.65	5.58	16.97	854.5	2.07	3.91	99.4	
1329	1.4	14.2	300	5.65	5.57	16.95	881.4	2.07	4.09	94.8	
1334	1.4	15.6	300	5.65	5.56	16.98	902.9	2.05	2.45	90.9	
1339	1.4	17.0	300	5.65	5.55	16.97	924.3	2.04	2.43	88.2	

◆ FDEP SOP Section 2212.3

Sampling Data

Decon Depth Mtr - rinse with analyte free water
§Purge method FDEP-SOP 2212.3.1

Sampled By(Print): K. Brakefield, JCD	Sampler(s) Signatures: K. Brakefield, JCD
Sampling Method: PP	Tube Material: PP/S
Tube Dpth(ft): 9.0	Time: 1342
Tube Dpth(ft): 9.0	Time: 1349
Field Decon: NO	Field Filtered: NO
Duplicate: YES	Acid ID# HNO3: D50077
H2SO4: N/A	

Sample Container Specification			Sample Preservation			Intended Analysis or method
ID:	Material	Volume(mL)	Preservative	Volume added	final pH	
1Q25-LF-5-G	PE	500	HNO3	1.0 mL	1.0	Kanapaha: Metals (full) + Hg
1Q25-LF-5	PE	250	HNO3	-0.5 mL pre	N/A	Pace: Metals (Sb, Ti, B, Li) 6020
1Q25-LF-5	PE	250	Chill <6 deg	n/a	n/a	Pace: Anions (F, Cl, SO4)
1Q25-LF-5	PE	1000	HNO3	-4 mL pre	N/A	Pace: Radium 226+228 Combined
1Q25-LF-5-F	PE	-2000-500	Chill <6 deg	n/a	n/a	Kanapaha: Solids (TSS, TDS)

☒ Well found locked on arrival	☒ Well left locked on departure
Temperature: 82°F	Winds: WSW @ 3 mph
Cloud Cover: Mostly Sunny	Precip: 0
Remarks:	

DGS Groundwater Sampling Log



WELL ID: LF-6	Location:	Latitude: 29°45'56.71"	Longitude: -82°23'59.75"	MSL @ TOC Date In Service: 184.59 2020
Quarter: 1Q25	Date: 2/5/25	Well Type: D		

Purging Data

Diameter(in) 2	Total well depth(ft) 14.52	Depth to water(ft) 5.94	Well capacity(L/ft) 0.6
Distance from TOC to top of screen 4.04 ft.		Purging Method: PP	Equipment Volume = 750 mL
1 WELL VOLUME(L)=(Total Well Depth-Depth to water)X Well Capacity		Time of Depth Meter Decon: 1401	
Well Vol = (14.52 - 5.94) X 0.6 = 5.2 L 1/4 well vol. = 1.3 L			
Init Tubing Dpth(ft) 9.0	Final Tube Dept(ft) 9.0	Purge Start Time: 1405	Purge Stop time: 1426
		Total Volume Purged	7.8 L

Time	Volume Purged (L)	Cumul. Volume Purged (L)	Purge rate mL/min	Depth to water (ft)	pH (SU) ± 0.2§	Temp (°C) ± 0.2§	Cond (µmho) ± 5%§	Diss O2 (mg/L) 20% sat§	Turbidity (ntu) 20 max§	ORP (mv)	Observed odor or color
1419	5.2	5.2	390	6.46	6.58	17.34	141.3	1.39	12.0	62.3	Clear No color No odor
1422	1.3	6.5	390	6.46	6.57	17.27	149.6	1.23	9.82	67.3	
1426	1.3	7.8	390	6.46	6.55	17.19	152.8	1.19	7.42	70.6	

♣ FDEP SOP Section 2212.3

Sampling Data

Decon Depth Mtr - rinse with analyte free water
§Purge method FDEP-SOP 2212.3.1

Sampled By(Print): K. Bracketfield, JCD			Sampler(s) Signatures: K. Bracketfield, JCD		
Sampling Method: PP	Tube Material: PP/S	Tube Dpth(ft): 9.0	Time: 1429	Tube Dpth(ft): 9.0	Time: 1435
Field Decon: NO	Field Filtered: NO	Duplicate: YES ☒ NO	Acid ID# HNO3: D50077	H2SO4: N/A	

Sample Container Specification			Sample Preservation			Intended Analysis or method
ID:	Material	Volume(mL)	Preservative	Volume added	final pH	
1Q25-LF-6-	PE	500	HNO3	1.0 mL	1.3	Kanapaha: Metals (full) + Hg
1Q25-LF-6	PE	250	HNO3	0.5 mL pre	N/A	Pace: Metals (Sb,Ti,B,Li) 6020
1Q25-LF-6	PE	250	Chill <6 deg	n/a	n/a	Pace: Anions (F, Cl, SO4)
1Q25-LF-6	PE	1000	HNO3	4 mL pre	N/A	Pace: Radium 226+228 Combined
1Q25-LF-6-	PE	2000-500	Chill <6 deg	n/a	n/a	Kanapaha: Solids (TSS, TDS)

☒ Well found locked on arrival	☒ Well left locked on departure
Temperature: 81°F	Winds: SW @ 4 mph
Cloud Cover: Partly cloudy	Precip: 0
Remarks:	

DGS Groundwater Sampling Log



WELL ID: EBLANK 2	Location: na	Latitude: na	Longitude: na	MSL @ TOC Date In Service: 0
Quarter: 1Q25	Date: 2/5/25	Well Type: na		

Purging Data

Purging Method: PP	Equipment Volum = 750 ml
Well Collected at: LF-4	Purge Start Time: KSB 2/5/25 + 2227 N/A
Time Depth meter decon: 1222	Purge Stop Time: KSB 2/5/25 + 2227 N/A

• FDEP SOP Section 2212.3

Sampling Data

Decon Depth Mtr - rinse with analyte free water

§ Purge method FDEP-SOP 2212.3.1

Sampled By(Print): R. Brakefield			Sampler(s) Signatures: R. Brakefield			
Sampling Method: pump/ bailing/other			Sampling Started at: 1224		Sampling completed at 1227	
Field Decon: NO		Field Filtered: NO		Duplicate: YES (NO)		
Sample Container Specification			Sample Preservation			Intended Analysis or method
ID:	Material	Volume(mL)	Preservative	Volume added	final pH	
1Q25-EB2-E	PE	1000 (500)	HNO3	2 mL (1 mL)	1.3	Metals
N/A	PE	1700	Chill 4 deg C	none	n/a	Physical Analysis
1Q25-EB2	PE	250	H2SO4	2 mL pre	N/A	Demand-NPDOC
1Q25-EB2	PE	250	Chill 4 deg C	none	n/a	Anion/NO3+NO2
1Q25-EB2	PE	1700 (1000)	HNO3	4 mL pre	N/A	Radiological-Gross Alpha Ra 226+228
1Q25-EB2	40 x 2	40 x 2	Chill + HCl	pre	N/A	5310B TOC

N/A Well found locked on arrival. **N/A** Well left locked on departure.

Temperature: **79°F** Winds: **calm** Cloud cover: **Mostly Sunny** Precipitation: **0**

Remarks:

Codes: PP/S + Polypropylene+Silicone tubing PP: Peristaltic Pump PE: Polyethylene B

DGS Groundwater Sampling Log

WELL ID: EBLANK1		Latitude: n/a	Longitude: n/a	msl @ toc: n/a	Date In Service: n/a						
Quarter: 3Q25		Date: 7/28/25	Well Type: n/a								
Purging Data											
Diameter(in) n/a	Total well depth(ft) n/a	Depth to water(ft) n/a	Well capacity(L/ft) n/a								
Distance from TOC to top of screen n/a ft.		Purging method: PP	Equipment Volume = 750 mL								
1 WELL VOLUME(L)=(Total Well Depth - Depth to water) x Well capacity			Time of Depth Meter Decon 0952								
Well Vol = (n/a - n/a) x n/a = n/a L			1/4 well vol = n/a								
Init. Tubing Depth: N/A ft. Final Tube Depth: N/A ft. Purge Start Time: N/A Purge Stop Time: N/A Total Volume Purged: N/A L											
Time	Volume Purged	Cum. Vol. Purged (L)	Purge Rate	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O ₂ (mg/L)	Turbidity (ntu)	Orp (mv)	Observed odor/color
Collected at R3T7											
+ FDEP SOP Section 2212.3			Sampling Data			Decon Depth mtr - rinse with analyte-free water			SPurge method FDEP-SOP 2212.3.1		
Sampled by(Print): K. Brakefield			Sampler(s) Signatures: K. Brakefield								
Sampling Method: PP		Tube Material: PP/S	Tube Dpth(ft): N/A	Sampling Started Time: 0959	Tube Dpth(ft): N/A	Sampling Completed Time: 1006					
Field Decon: NO		Field Filtered: NO	Duplicate: YES (NO)	Acid ID# HNO₃: D50077	H₂SO₄: N/A						
Sample Container Specification Sample Preservation							Intended Analysis or method				
Sample ID:	Material	Vol(mL)	preservative	Vol Added	Final pH						
3Q25-EBLANK1-	PE	250	Chill < 6°C	n/a	n/a		Pace: Chloride, Sulfate				
3Q25-EBLANK1-	PE	250	H ₂ SO ₄ /Chill	n/a	n/a		Pace: 353.2 Nitrogen, NO ₂ , NO ₃				
3Q25-EBLANK1-	PE	1000	HNO ₃	n/a	n/a		Pace: Radium/ Gross Alpha by 7110C				
3Q25-EBLANK1- E	PE	(500) 250	HNO ₃	(1.0) 0.5 mL	1.3		Kanapaha: Metals + Hg				
3Q25-EBLANK1-	VOA Vial	40 x 2	HNO ₃	n/a	n/a		Pace: 5310B TOC				
Tubing Depth is N/A ft below depth to water for every instance. N/A Well found locked on arrival N/A Well left locked on departure Temperature: 87°F Winds: NW @ 4 mph Cloud cover: clear Precip: Ø Remarks: Depth probe was deconned and then dipped into the equipment blank container prior to collecting samples.											

DGS Groundwater Sampling Log

WELL ID: LF-1		Latitude: 29°45'59.0544"		Longitude: -82°23'51.8244"		msl @ toc 185.76		Date In Service 2017			
Quarter: 3Q25		Date: 7/29/25		Well Type: U							
Purging Data											
Diameter(in)	2	Total well depth(ft)	14.88	Depth to water(ft)	5.43	Well capacity(L/ft)		0.6			
Distance from TOC to top of screen		4.88 ft.		Purging method: PP		Equipment Volume = 750 mL					
1 WELL VOLUME(L)=(Total Well Depth - Depth to water) x Well capacity						Time of Depth Meter Decon 0746					
Well Vol = (14.88 - 5.43) x 0.6 = 5.7 L						1/4 well vol = 1.42					
Init. Tubing Depth: 9.0 ft.		Final Tube Depth: 9.0 ft.		Purge Start Time: 0752		Purge Stop Time: 0824		Total Volume Purged: 1.7 L			
Time	Volume Purged	Cum. Vol. Purged (L)	Purge Rate	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O ₂ (mg/L)	Turbidity (ntu)	Orp (mv)	Observed odor/color
0816	5.7	5.7	240	5.55	6.32	27.16	392.8	0.78	1.80	37.1	
0820	1.0	6.7	240	5.55	6.30	27.10	384.5	0.71	2.26	16.0	clear
0824	1.0	7.7	240	5.55	6.26	27.10	377.0	0.65	2.25	6.0	No odor
No odor											
+ FDEP SOP Section 2212.3				Sampling Data				Decon Depth mtr - rinse with analyte-free water §Purge method FDEP-SOP 2212.3.1			
Sampled by(Print): K. Brakefield, J.C. Davis				Sampler(s) Signatures: K. Brakefield, J.C. Davis							
Sampling Method: PP		Tube Material: PP/S		Tube Dpth(ft): 9.0		Sampling Started Time: 0827		Sampling Completed Tube Dpth(ft): 9.0		Time: 0844	
Field Decon: NO		Field Filtered: NO		Duplicate: YES (NO)		Acid ID#		HNO ₃ : D50077		H ₂ SO ₄ : N/A	
Sample Container Specification						Sample Preservation					
Sample ID:		Material	Vol(mL)	preservative	Vol Added	Final pH					
3Q25-LF-1-F		PE	4000(500)	Chill < 6°C	n/a	n/a					
3Q25-LF-1-		PE	250	Chill < 6°C	n/a	n/a					
3Q25-LF-1-		PE	250	HNO ₃	n/a	n/a					
3Q25-LF-1-		PE	1000 x 2	HNO ₃	n/a	n/a					
3Q25-LF-1-G		PE	(500)250	HNO ₃	1.00.5 mL	1.3		Kanapaha: Metals			
3Q25-LF-1		VOA Vial	40 x 2	HNO₃	n/a	n/a		Pace: 5310B TOC			
Tubing Depth is <u>N/A</u> ft below depth to water for every instance. ☒ Well found locked on arrival ☒ Well left locked on departure Temperature: <u>83°F</u> Winds: <u>SE @ 2 mph</u> Cloud cover: <u>clear</u> Precip: <u>Ø</u> Remarks:											

DGS Groundwater Sampling Log



WELL ID: LF-2		Latitude: 29°45'50.46"		Longitude: -82°23'47.40"		msl @ toc 182.33		Date In Service 2019			
Quarter: 3Q25		Date: 7/29/25		Well Type: D							
Purging Data											
Diameter(in)	2	Total well depth(ft)	15.36	Depth to water(ft)	4.78	Well capacity(L/ft)		0.6			
Distance from TOC to top of screen		5.36 ft.		Purging method: PP		Equipment Volume = 750 mL					
1 WELL VOLUME(L)=(Total Well Depth - Depth to water) x Well capacity						Time of Depth Meter Decon 1313					
Well Vol = (15.36 - 4.78) x 0.6 = 6.35 L						1/4 well vol = 1.6 L					
Init. Tubing Depth: 9.0 ft.		Final Tube Depth: 9.0 ft.		Purge Start Time: 1310		Purge Stop Time: 1340		Total Volume Purged: 10.9 L			
Time	Volume Purged	Cum. Vol. Purged (L)	Purge Rate	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O ₂ (mg/L)	Turbidity (ntu)	Orp (mv)	Observed odor/color
1335	6.4	6.4	400	5.16	5.28	28.77	253.5	0.19	5.03	-169.1	no color
1339	1.5	7.9	400	5.20	5.29	28.72	260.4	0.19	4.52	-172.6	to clear
1342	1.5	9.4	400	5.20	5.31	28.68	270.1	0.18	3.20	-174.6	7/29/25
1346	1.5	10.9	400	5.20	5.32	28.59	272.2	0.17	4.16	-176.9	clear slight sulfur odor
Sampling Data											
+ FDEP SOP Section 2212.3					Decon Depth mtr - rinse with analyte-free water						
					Purge method FDEP-SOP 2212.3.1						
Sampled by(Print): K. Brakefield, JC Davis				Sampler(s) Signatures: K. Brakefield, JC Davis							
Sampling Method: PP		Tube Material: PP/S		Sampling Started Tube Dpth(ft): 9.0 Time: 1350		Sampling Completed Tube Dpth(ft): 9.0 Time: 1400					
Field Decon: NO		Field Filtered: NO		Duplicate: YES (NO)		Acid ID# HNO ₃ : D50077		H ₂ SO ₄ : N/A			
Sample Container Specification						Sample Preservation					
Sample ID:		Material	Vol(mL)	preservative	Vol Added	Final pH					
3Q25-LF-2-F		PE	4000(500)	Chill < 6°C	n/a	n/a					
3Q25-LF-2-		PE	250	Chill < 6°C	n/a	n/a					
3Q25-LF-2-		PE	250	HNO ₃	n/a	n/a					
3Q25-LF-2-		PE	1000 x 2	HNO ₃	n/a	n/a					
3Q25-LF-2-G		PE	(500)/250	HNO ₃	1.0/0.5 mL	1.3					
3Q25-LF-2		VOA Vial	40 x 2	HNO ₃	n/a	n/a					
Tubing Depth is N/A ft below depth to water for every instance. ☒ Well found locked on arrival ☒ Well left locked on departure											
Temperature: 91°F Winds: SW @ 7 mph Cloud cover: partly cloudy Precip: 0											
Remarks:											

Codes: PP/S + Polypropylene+Silcone tubing PP: Peristaltic Pump PE: Polyethylene Bottle

DGS Groundwater Sampling Log

WELL ID: LF-4		Latitude:		Longitude:		msl @ toc		Date In Service			
		Location: 29°45'50.43"		-82°23'58.46"		184.83		2019			
Quarter: 3Q25		Date: 7/29/25		Well Type:				D			
Purging Data											
Diameter(in) 2		Total well depth(ft) 16.06		Depth to water(ft) 5.21		Well capacity(L/ft) 0.6					
Distance from TOC to top of screen 6.06 ft.		Purging method: PP		Equipment Volume = 750 mL							
1 WELL VOLUME(L)=(Total Well Depth - Depth to water) x Well capacity											
Time of Depth Meter Decon 1113											
Well Vol = (16.06 - 5.21) x 0.6 = 6.51 L 1/4 well vol = 1.63											
Init. Tubing Depth: 9.0 ft.		Final Tube Depth: 9.0 ft.		Purge Start Time: 1117		Purge Stop Time: 1143		Total Volume Purged: 8.8 L			
Time	Volume Purged	Cum. Vol. Purged (L)	Purge Rate	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O₂ (mg/L)	Turbidity (ntu)	Orp (mv)	Observed odor/color
1137	6.6	6.6	360	5.59	5.31	30.22	129.1	1.13	14.5	60.2	
1140	1.1	7.7	360	5.59	5.30	30.22	129.8	1.11	14.1	58.6	Clear No color No odor
1143	1.1	8.8	360	5.59	5.30	30.17	130.3	1.08	12.1	53.7	
+ FDEP SOP Section 2212.3		Sampling Data				Decon Depth mtr - rinse with analyte-free water \$Purge method FDEP-SOP 2212.3.1					
Sampled by(Print): K. Brakfield, JC Davis					Sampler(s) Signatures: K. Brakfield, JC Davis						
Sampling Method: PP		Tube Material: PP/S		Tube Dpth(ft): 9.0		Sampling Started Time: 1145		Sampling Completed Time: 1159			
Field Decon: NO		Field Filtered: NO		Duplicate: YES ☒ NO		Acid ID# HNO ₃ : D50077		H₂SO₄: N/A			
Sample Container Specification						Sample Preservation					
Sample ID:		Material	Vol(mL)	preservative	Vol Added	Final pH	Intended Analysis or method				
3Q25-LF-4- F		PE	4000/500	Chill < 6°C	n/a	n/a	Kanapaha: Physical				
3Q25-LF-4-		PE	250	Chill < 6°C	n/a	n/a	Pace: Chloride, Sulfate				
3Q25-LF-4-		PE	250	HNO ₃	n/a	n/a	Pace: Metals 6020 (Sb, Ti, B, Li)				
3Q25-LF-4-		PE	1000 x 2	HNO ₃	n/a	n/a	Pace: <u>Radium</u> Gross Alpha by 7110C				
3Q25-LF-4-G		PE	500/250	HNO ₃	1.0/0.5 mL	1.3	Kanapaha: Metals				
3Q25-LF-4		VOA Vial	40 x 2	HNO₃	n/a	n/a	Pace: 5310B TOC				
Tubing Depth is <u>N/A</u> ft below depth to water for every instance. ☒ Well found locked on arrival ☒ Well left locked on departure Temperature: <u>95°F</u> Winds: <u>SW @ 6 mph</u> Cloud cover: <u>partly cloudy</u> Precip: <u>0</u> Remarks:											

DGS Groundwater Sampling Log

WELL ID: LF-5		Latitude:		Longitude:		msl @ toc		Date In Service			
		Location: 29°45'53.70"		-82°23'59.83"		184.33		2020			
Quarter: 3Q25		Date: 7/29/25		Well Type: D							
Purging Data											
Diameter(in) 2		Total well depth(ft) 14.52		Depth to water(ft) 5.69		Well capacity(L/ft) 0.6					
Distance from TOC to top of screen 4.04 ft.		Purging method: PP		Equipment Volume = 750 mL							
1 WELL VOLUME(L)=(Total Well Depth - Depth to water) x Well capacity						Time of Depth Meter Decon 0949					
Well Vol = (14.52 - 5.69) x 0.6 = 5.3 L						1/4 well vol = 1.32 L					
Init. Tubing Depth: 9.0 ft.		Final Tube Depth: 9.0 ft.		Purge Start Time: 0953		Purge Stop Time: 1046		Total Volume Purged: 16.5 L			
Time	Volume Purged	Cum. Vol. Purged (L)	Purge Rate	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O₂ (mg/L)	Turbidity (ntu)	Orp (mv)	Observed odor/color
1011	5.3	5.3	330	5.89	6.38	29.26	428.1	1.37	14.3	37.7	
1015	1.2	6.5	330	5.89	6.24	29.23	518.6	1.29	12.7	22.8	
1040	8.0	14.5	330	5.87	5.85	29.12	833.2	1.20	4.37	5.5	Clear
1043	1.0	15.5	330	5.87	5.84	29.12	846.7	1.19	3.17	3.0	No color
1046	1.0	16.5	330	5.87	5.82	29.10	860.3	1.19	2.13	1.2	No odor
Sampling Data											
+ FDEP SOP Section 2212.3					Decon Depth mtr - rinse with analyte-free water						
					\$Purge method FDEP-SOP 2212.3.1						
Sampled by(Print): K. Brakefield, JC Davis					Sampler(s) Signatures: K. Brakefield, JC Davis						
Sampling Method: PP		Tube Material: PP/S		Tube Dpth(ft): 9.0		Sampling Started Time: 1049		Sampling Completed Time: 1101			
Field Decon: NO		Field Filtered: NO		Duplicate: YES <u>NO</u>		Acid ID# HNO ₃ : D50077 H ₂ SO ₄ : N/A					
Sample Container Specification						Sample Preservation					
Sample ID:		Material	Vol(mL)	preservative	Vol Added	Intended Analysis or method					
3Q25-LF-5-F		PE	4000/500	Chill < 6°C	n/a	Knapaha: Physical					
3Q25-LF-5-		PE	250	Chill < 6°C	n/a	Pace: Chloride, Sulfate					
3Q25-LF-5-		PE	250	HNO ₃	n/a	Pace: Metals 6020 (Sb, Ti, B, Li)					
3Q25-LF-5-		PE	1000 x 2	HNO ₃	n/a	Pace: <u>Radium</u> Gross Alpha by 7110C					
3Q25-LF-5-G		PE	500/250	HNO ₃	1.0/0.5 mL	Knapaha: Metals					
3Q25-LF-5-		VOA Vial	40 x 2	HNO₃	n/a	Pace: 5310B TOC					
Tubing Depth is <u>N/A</u> ft below depth to water for every instance. ☒ Well found locked on arrival ☒ Well left locked on departure Temperature: 90°F Winds: SW @ 5mph Cloud cover: clear Precip: ☒ Remarks: * Extended purge to allow parameters to stabilize.											

DGS Groundwater Sampling Log



WELL ID: LF-6		Latitude: 29°45'56.71"		Longitude: -82°23'59.75"		msl @ toc: 184.59		Date In Service: 2020			
Quarter: 3Q25		Date: 7/29/25		Well Type: D							
Purging Data											
Diameter(in)	2	Total well depth(ft)	14.52	Depth to water(ft)	5.89	Well capacity(L/ft)		0.6			
Distance from TOC to top of screen		4.04 ft.		Purging method: PP		Equipment Volume = 750 mL					
1 WELL VOLUME(L)=(Total Well Depth - Depth to water) x Well capacity						Time of Depth Meter Decon: 0854					
Well Vol = (14.52 - 5.89) x 0.6 = 5.2 L						1/4 well vol = 1.3 L					
Init. Tubing Depth: 9.0 ft.		Final Tube Depth: 9.0 ft.		Purge Start Time: 0857		Purge Stop Time: 0924		Total Volume Purged: 7.2			
Time	Volume Purged	Cum. Vol. Purged (L)	Purge Rate	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O ₂ (mg/L)	Turbidity (ntu)	Orp (mv)	Observed odor/color
0916	5.2	5.2	260	6.23	6.33	29.01	161.5	0.34	3.58	144.5	
0920	1.0	6.2	260	6.23	6.34	29.04	161.0	0.34	3.23	141.1	clear
0924	1.0	7.2	260	6.23	6.33	29.04	160.6	0.34	3.13	141.3	No color No odor
Sampling Data											
+ FDEP SOP Section 2212.3				Decon Depth mtr - rinse with analyte-free water				Purge method FDEP-SOP 2212.3.1			
Sampled by(Print): K. Brakefield, JC Davis				Sampler(s) Signatures: K. Brakefield, JC Davis							
Sampling Method: PP		Tube Material: PP/S		Tube Dpth(ft): 9.0		Sampling Started Time: 0927		Sampling Completed Time: 0941			
Field Decon: NO		Field Filtered: NO		Duplicate: YES (NO)		Acid ID#		HNO ₃ : D50077 H ₂ SO ₄ : N/A			
Sample Container Specification						Sample Preservation					
Sample ID:	Material	Vol(mL)	preservative	Vol Added	Final pH	Intended Analysis or method					
3Q25-LF-6-F	PE	4000(500)	Chill < 6°C	n/a	n/a	Knapaha: Physical					
3Q25-LF-6-	PE	250	Chill < 6°C	n/a	n/a	Pace: Chloride, Sulfate					
3Q25-LF-6-	PE	250	HNO ₃	n/a	n/a	Pace: Metals 6020 (Sb, Ti, B, Li)					
3Q25-LF-6-	PE	1000 x 2	HNO ₃	n/a	n/a	Pace: (Radium) Gross Alpha by 7110C					
3Q25-LF-6-G	PE	(500)/250	HNO ₃	1.0/0.5 mL	1.3	Knapaha: Metals					
3Q25-LF-6	VOA Vial	40 x 2	HNO ₃	n/a	n/a	Pace: 5310B TOC					
Tubing Depth is N/A ft below depth to water for every instance. ☒ Well found locked on arrival ☒ Well left locked on departure Temperature: 86°F Winds: SW @ 4 Cloud cover: clear Precip: 0 Remarks:											

DGS Groundwater Sampling Log



WELL ID: EBLANK2		Latitude:		Longitude:		msl @ toc		Date In Service			
Location: n/a		n/a		n/a		n/a		n/a			
Quarter: 3Q25		Date: 7/29/25		Well Type:		n/a					
Purging Data											
Diameter(in) n/a		n/a		Depth to water(ft)		Well capacity(L/ft) n/a					
Distance from TOC to top of screen n/a ft.		Purging method:PP		Equipment Volume = 750 mL							
1 WELL VOLUME(L)=(Total Well Depth - Depth to water) x Well capacity						Time of Depth Meter Decon 1204					
Well Vol = (n/a -) x n/a = N/A L						1/4 well vol = N/A					
Init. Tubing Depth: N/A ft.		Final Tube Depth: N/A ft.		Purge Start Time: N/A		Purge Stop Time: N/A		Total Volume Purged: N/A L			
Time	Volume Purged	Cum. Vol. Purged (L)	Purge Rate	Depth to water (ft)	pH (SU)	Temp (°C)	Cond (µmho)	Diss O ₂ (mg/L)	Turbidity (ntu)	Orp (mv)	Observed odor/color
Collected at LF-3.											
+ FDEP SOP Section 2212.3				Sampling Data				Decon Depth mtr - rinse with analyte-free water §Purge method FDEP-SOP 2212.3.1			
Sampled by(Print): K. Brakefield				Sampler(s) Signatures: K. Brakefield							
Sampling Method: PP		Tube Material: PP/S		Sampling Started Tube Dpth(ft): N/A Time: 1210		Sampling Completed Tube Dpth(ft): N/A Time: 1214					
Field Decon: NO		Field Filtered: NO		Duplicate: YES ☒ NO		Acid ID#		HNO ₃ : D50077		H ₂ SO ₄ : N/A	
Sample Container Specification						Sample Preservation					
Sample ID:		Material	Vol(mL)	preservative	Vol Added	Final pH	Intended Analysis or method				
3Q25-EBLANK2-		PE	250	Chill < 6°C	n/a	n/a	Pace: Chloride, Sulfate				
3Q25-EBLANK2-		PE	250	HNO ₃	n/a	n/a	Pace: Metals 6020 (Sb, Ti, B, Li)				
3Q25-EBLANK2-		PE	1000 x 2	HNO ₃	n/a	n/a	Pace: <u>Radium</u> Gross Alpha by 7110C				
3Q25-EBLANK2-		PE	<u>500</u> 250	HNO ₃	<u>1.0</u> 0.5 mL	1.3	Knapaha: Metals (full) + Hg				
Tubing Depth is <u>N/A</u> ft below depth to water for every instance. ☒ Well found locked on arrival ☒ Well left locked on departure Temperature: <u>96°F</u> Winds: <u>SW @ 6mph</u> Cloud cover: <u>partly cloudy</u> Precip: <u>Ø</u> Remarks: <u>Depth probe was deconned and dipped into the equipment blank container prior to collecting samples.</u>											

Instrument Calibration Log

Model RTD Meter 91428-07

Serial Number M: 4013055 / P: CP346548

Manufacturer: Digi-Sense

Date Purchased unk

Parameter: Temperature

GRU Prop Tag# none

QTR: 3Q25 :used manufactures SOP for calibrations and FT1400 SOP for verifications

	Standard Concentration, ID#, Expiration Date	Unit
Standard A	Solinst Depth Meter ^{SN} 609924	°C
Standard B	Conductivity ^{sensor} VQ1 19405	°C
Standard C	D.D. Sensor 08701 OMD - 10868 4/17	°C

Date	Time	STD A,B,C	STD Value	Instrument Response	Dev./ P or F	Calibrated (Yes/No)	Type (Int/Cont)	Sampler Initials
7/25/25	13:18	A	21.9	22.1	P	NO		KM
7/25/25	13:18	B	21.9	21.9	P	NO		KM
7/25/25	13:18	C	21.9	22.2	P	NO		KM
7/25/25	13:23	A	24.0 ⁴	24.5	P	NO		KM
7/25/25	13:23	B	24.0 ⁴	24.5	P	NO		KM
7/25/25	13:23	C	24.0 ⁴	24.5	P	NO		KM
7/25/25	13:29	A	27.3	27.3	P	NO		KM
7/25/25	13:29	B	27.3	27.4	P	NO		KM
7/25/25	13:29	C	27.3	27.3	P	NO		KM
8/18/25	07:37	A	19.2	19.4	P	No		KSB
8/18/25	07:37	B	19.2	19.4	P	No		KSB
8/18/25	07:37	C	19.2	19.5	P	No		KSB
8/18/25	07:43	A	25.0	25.0	P	No		KSB
8/18/25	07:43	B	25.0	25.0	P	No		KSB
8/18/25	07:43	C	25.0	25.0	P	No		KSB
8/18/25	07:47	A	31.7	31.6	P	No		KSB
8/18/25	07:47	B	31.7	31.8	P	No		KSB
8/18/25	07:47	C	31.7	31.7	P	No		KSB

Instrument Calibration Log

Model Star A329

Serial Number G16074

Manufacturer: Thermo Orion

Date Purchased 08-2022

Parameter: pH/ISE/Cond/DO

GRU Prop Tag# none

QTR: 3Q25 : used manufacture SOP for calibrations and FT 1100 SOP for verifications

Standard Concentration, ID#, Expiration Date

Unit

Standard A	7.00	DS0086	exp. 11/2026	µm
Standard B	4.00	DS0085	exp 11/2028	µm
Standard C	10.00	DS0087	exp 11/2025	µm

Date	Time	STD A,B,C	STD Value	Instrument Response	Dev./ P or F	Calibrated (Yes/No)	Type (Int/Cont)	Sampler Initials
7/25/25	7:19	A	7.00	7.01	P	yes	Int	Km
7/25/25	7:20	B	4.00	4.00	P	yes	Int	Km
7/25/25	7:21	C	10.00	10.07	P	yes	Int	Km
7/25/25	7:24	A	7.00	7.02	P	NO	cont	Km
7/25/25	7:26	C	10.00	10.07	P	NO	cont	Km
7/25/25	7:28	B	4.00	4.00	P	NO	cont	Km
7/25/25	7:32	QC	6.00	6.01	P	NO	cont	Km
7/28/25	6:48	A	7.00	7.01	P	No	cont	KSB
7/28/25	6:51	B	4.00	4.05	P	No	cont	KSB
7/29/25	6:56	A	7.00	7.00	P	No	cont	KSB
7/29/25	6:59	B	4.00	4.04	P	No	cont	KSB
7/30/25	7:33	A	7.00	6.99	P	No	cont	KSB
7/30/25	7:40	B	4.00	4.04	P	No	cont	KSB
7/31/25	6:41	A	7.00	6.99	P	No	cont	KSB
7/31/25	6:43	B	4.00	4.04	P	No	cont	KSB
7/31/25	6:46	C	10.00	10.07	P	No	cont	KSB
8/1/25	7:26	A	7.00	7.04	P	No	cont	KSB
8/1/25	7:30	B	4.00	4.05	P	No	cont	KSB
8/1/25	7:33	C	10.00	10.11	P	No	cont	KSB

Slope
98.1%

DS0095
exp
03/27

Instrument Calibration Log

Model Star A329

Serial Number G16074

Manufacturer: Thermo Orion

Date Purchased 08-2022

Parameter: pH/ISE/Cond/DO

GRU Prop Tag# none

QTR: 3025 :used manufacture SOP for calibrations and FT 1200 SOP for verifications

	Standard Concentration, ID#, Expiration Date			Unit
Standard A	100	DS0084	Exp. 07/2026	µS/cm
Standard B	1413	DS0063 ⁹⁰	Exp. 02/2027	µS/cm
Standard C	10,000	DS0088	Exp. 12/2026	µS/cm
QC	250	DS0074	Exp 02/2026	µS/cm

Date	Time	STD A,B,C	STD Value	Instrument Response	Dev./ P or F	Calibrated (Yes/No)	Type (Int/Cont)	Sampler Initials
7/25/25	7:28	A	100	100.7	P	No		Km
7/25/25	7:29	B	1413	1427	P	No		Km
7/25/25	7:32	C	10,000	10,300	P	No		Km
7/25/25	7:36	QC	250	249.2	P	No		Km
7/28/25	6:48	B	1413	1464	P	No		KSB
7/28/25	6:51	A	100	99.95	P	No		KSB
7/29/25	6:56	B	1413	1442	P	No		KSB
7/29/25	6:59	A	100	102.5	P	No		KSB
7/30/25	7:36	B	1413	1459	P	No		KSB
7/30/25	7:40	A	100	102.0	P	No		KSB
7/31/25	6:41	B	1413	1438	P	No		KSB
7/31/25	6:43	A	100	103.0	P	No		KSB
8/1/25	7:27	B	1413	1457	P	No		KSB
8/1/25	7:30	A	100	101.8	P	No		KSB

Km 7/25/25
Exp 12/26

Instrument Calibration Log

Model 2100QIS01

Serial Number 23020D000369

Manufacturer: Hach

Date Purchased 08-2023

Parameter: Turbidity

GRU Prop Tag# none

QTR: 3Q25 : used manufacture SOP for calibrations and FT1600 SOP for verifications

	Standard Concentration, ID#, Expiration Date	Unit
Standard A	<u>6.04 Gelex Stds.</u>	<u>NTU</u>
Standard B	<u>57.7 Gelex Stds.</u>	<u>NTU</u>
Standard C	<u>578 Gelex Stds.</u>	<u>NTU</u>

Date	Time	STD A,B,C	STD Value	Instrument Response	Dev./ P or F	Calibrated (Yes/No)	Type (Int/Cont)	Sampler Initials
7/25/25	12:48	A	6.04	6.03	P	yes	Int	KM
7/25/25	12:49	B	57.7	57.7	P	yes	Int	KM
7/25/25	12:49	C	578	578	P	yes	Int	KM
7/25/25	12:55	QC	0.1	0.07	P	No	Cont	KM
7/25/25	12:58	QC	20	18.5	P	No	Cont	KM
7/25/25	13:04	A	6.04	6.04	P	No	Cont	KM
7/25/25	13:06	B	57.7	58.1	P	No	Cont	KM
7/25/25	13:08	C	578	578	P	No	Cont	KM
7/28/25	06:43	A	6.04	6.09	P	No	Cont	KSB
7/28/25	14:43	A	6.04	6.06	P	No	Cont	KSB
7/30/25	7:43	A	6.04	6.09	P	No	Cont	KSB
7/30/25	7:45	B	57.7	58.6	P	No	Cont	KSB
7/31/25	6:47	A	6.04	6.07	P	No	Cont	KSB
7/31/25	6:51	B	57.7	58.7	P	No	Cont	KSB
8/1/25	7:38	A	6.04	6.04	P	No	Cont	KSB
8/1/25	7:39	B	57.7	58.3	P	No	Cont	KSB

DS0075/exp 09/25.
DS0089 exp 12/26

Primary Standards

10 NTU, ID# DS0091, EXP. 6-2026
 20 NTU, ID# DS0092, EXP. 6-2026
 100 NTU, ID# DS0093, EXP. 6-2026
 800 NTU, ID# DS0094, EXP. 6-2026

Acceptance Criteria

0.1 to 10.0 NTU = +/- 10%
 11 to 40 NTU = +/- 8%
 41 to 100 NTU = +/- 6.5%
 >100 NTU = +/- 5%

Instrument Calibration Log

Model Star A321

Serial Number G04430

Manufacturer: Thermo Orion

Date Purchased 11-2014

Parameter: pH/Redox/Cond

GRU Prop Tag# none

QTR: <u>3Q25</u> : used <u>manufacture</u> SOP for calibrations and <u>Ft 1000</u> SOP for verifications	
Standard Concentration, ID#, Expiration Date	Unit
Standard A <u>220 +/- 60 mV DS0083 exp 3/26</u>	<u>mV</u>
Standard B	
Standard C	

[illegible]

Instrument Calibration Log

Model Star A329

Serial Number G16074

Manufacturer: Thermo Orion

Date Purchased 08-2022

Parameter: pH/ISE/Cond/DO

GRU Prop Tag# none

QTR: 3025 :used manufacture SOP for calibrations and FT 1500 SOP for verifications

Standard Concentration, ID#, Expiration Date

Unit

Standard A	Saturation Table ± 0.3	mg/L
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Standard B		
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Standard C		
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[illegible]

Attachment C
Potentiometric Contours and Site-Wide
Groundwater Flow Direction, February
2025 and July 2025

Deerhaven Generating Station Water Elevations

Date: 2/1/25

<u>Well</u>	<u>Time</u>	<u>MSL @TOC</u>	<u>Depth to Water</u>	<u>Time Depth Mtr Cleaned</u>	<u>Locked Arrival</u>	<u>Locked Depart.</u>
R1T6	11:03	188.95	5.65	11:02	✓	✓
R2T1	11:10	185.19	4.6	11:09	✓	✓
R3T7	10:50	182.55	4.02	10:53	✓	✓
R4T5	10:44	187.46	10.34	10:43	✓	✓
R6T1	10:24	185.28	5.94	10:23	✓	✓
R6T4	10:31	183.60	3.53	10:30	✓	✓
R6T8	10:51	177.97	3.65	10:50	✓	✓
R6T12	10:22	173.38	4.1	10:21	✓	✓
R8T10	10:27	177.40	4.99	10:26	✓	✓
R9T5	11:09	184.64	5.98	11:08	✓	✓
R10T8	10:34	181.42	6.14	10:33	✓	✓
R11T4	10:39	178.76	3.97	10:38	✓	✓
SIS1	10:36	185.11	4.55	10:35	✓	✓
SIS2	10:40	183.30	5.53	10:39	✓	✓
SIS3	10:48	183.11	2.91	10:47	✓	✓
SIS4	10:52	183.87	4.91	10:51	✓	✓
LF1	10:57	185.76	5.98	10:56	✓	✓
LF2	11:30	182.33	4.95	11:29	✓	✓
LF3	11:25	183.70	4.51	11:24	✓	✓
LF4	11:22	184.83	4.85	11:21	✓	✓
LF5	11:15	184.33	5.18	11:14	✓	✓
LF6	11:11	184.59	5.75	11:10	✓	✓
LF7	11:02	185.74	7.05	11:01	✓	✓

PZ8	11:19	213.13	34.01	11:17	✓	✓
PZ9	11:18	184.79	5.62	11:17	✓	✓
PZ10	11:24	203.79	25.75	11:22	✓	✓

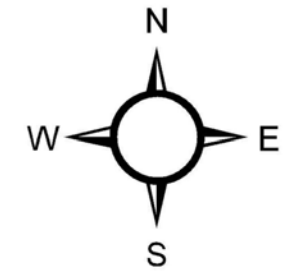
Deerhaven Generating Station Water Elevations

Date: 7/26/2025

<u>Well</u>	<u>Time</u>	<u>MSL @TOC</u>	<u>Depth to Water</u>	<u>Water Level NGVD (FEET)</u>	<u>Time Depth Mtr Cleaned</u>	<u>Locked Arrival</u>	<u>Locked Depart.</u>
R1T6	8:06	188.95	5.29	183.66	8:04	✓	✓
R2T1	8:10	185.19	4.53	180.66	8:09	✓	✓
R3T7	10:29	182.55	2.60	179.95	10:28	✓	✓
R4T5	8:41	187.46	9.84	177.62	8:40	✓	✓
R6T1	9:43	185.28	5.59	179.69	9:42	✓	✓
R6T4	8:51	183.60	2.60	181	8:50	✓	✓
R6T8	9:50	177.97	3.60	174.37	9:49	✓	✓
R6T12	9:57	173.38	4.51	168.87	9:56	✓	✓
R8T10	10:02	177.40	5.09	172.31	10:01	✓	✓
R9T5	9:22	184.64	5.55	179.09	9:21	✓	✓
R10T8	10:17	181.42	5.72	175.7	10:16	✓	✓
R11T4	10:12	178.76	3.56	175.2	10:11	✓	✓
SIS1	8:18	185.11	3.98	181.13	8:17	✓	✓
SIS2	8:35	183.30	4.67	178.63	8:34	✓	✓
SIS3	8:44	183.11	2.54	180.57	8:43	✓	✓
SIS4	8:48	183.87	4.53	179.34	8:47	✓	✓
LF1	9:29	185.76	5.12	180.64	9:28	✓	✓
LF2	8:55	182.33	4.75	177.58	8:54	✓	✓
LF3	8:58	183.70	4.95	178.75	8:57	✓	✓
LF4	9:02	184.83	4.82	180.01	9:01	✓	✓
LF5	9:05	184.33	4.98	179.35	9:04	✓	✓
LF6	9:15	184.59	5.09	179.5	9:14	✓	✓
PZ7	9:25	185.74	5.82	179.92	9:24	✓	✓
PZ8	9:11	213.13	34.15	178.98	9:08	✓	✓
PZ9	9:07	184.79	5.44	179.35	9:06	✓	✓
PZ10	9:19	203.79	25.45	178.34	9:17	✓	✓

Surveyed by: K. Brakefield

CCR Units January 2025 Annual Groundwater Monitoring and Corrective Action Report



0 760 1,520 Feet



Legend

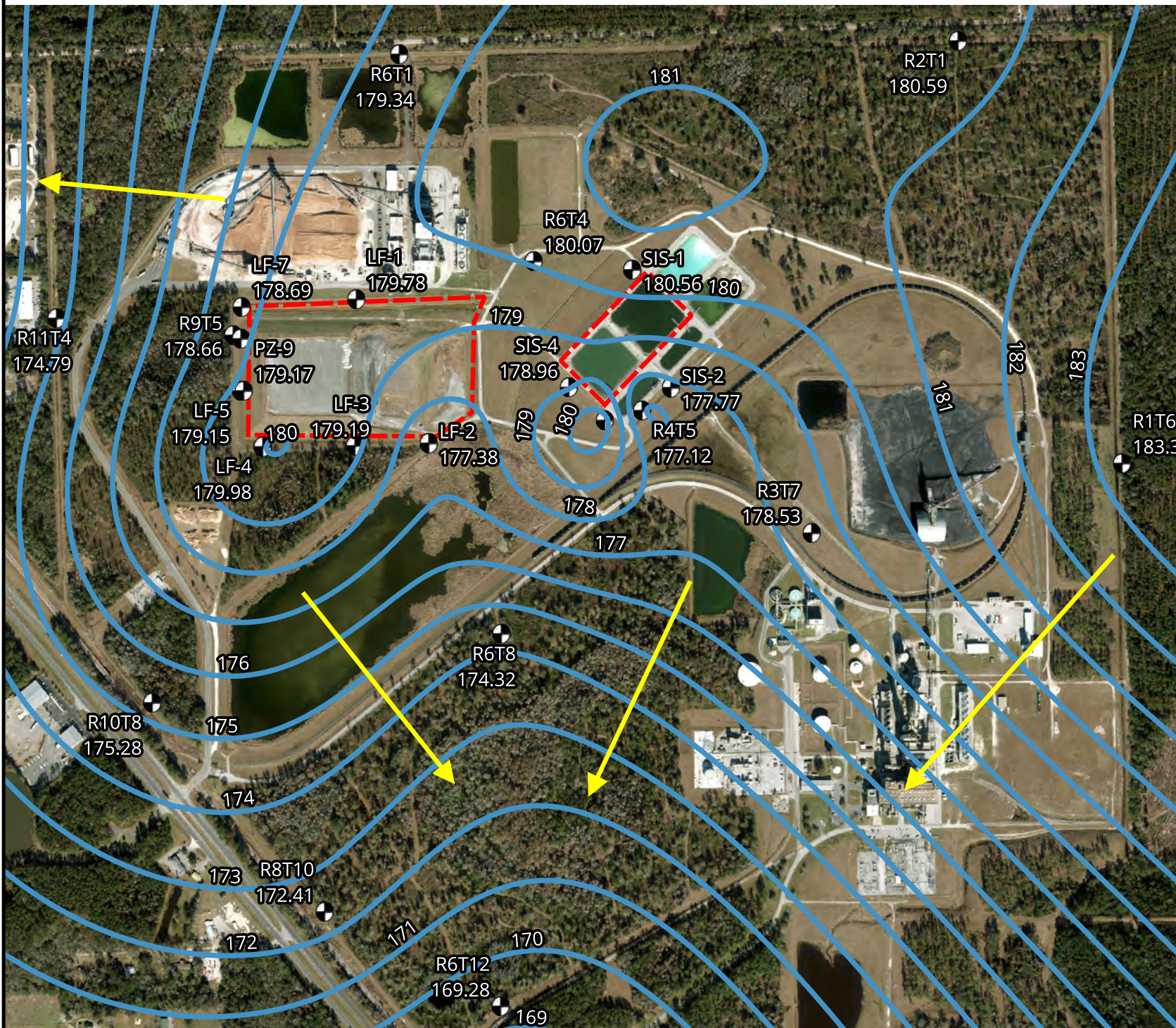
-  Groundwater Well
-  Groundwater Contours
-  Groundwater Flow Direction

Approximate Groundwater Flow Direction February 1, 2025

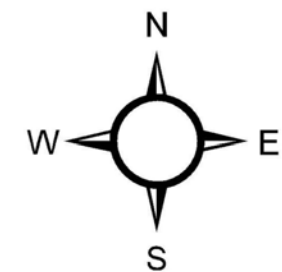
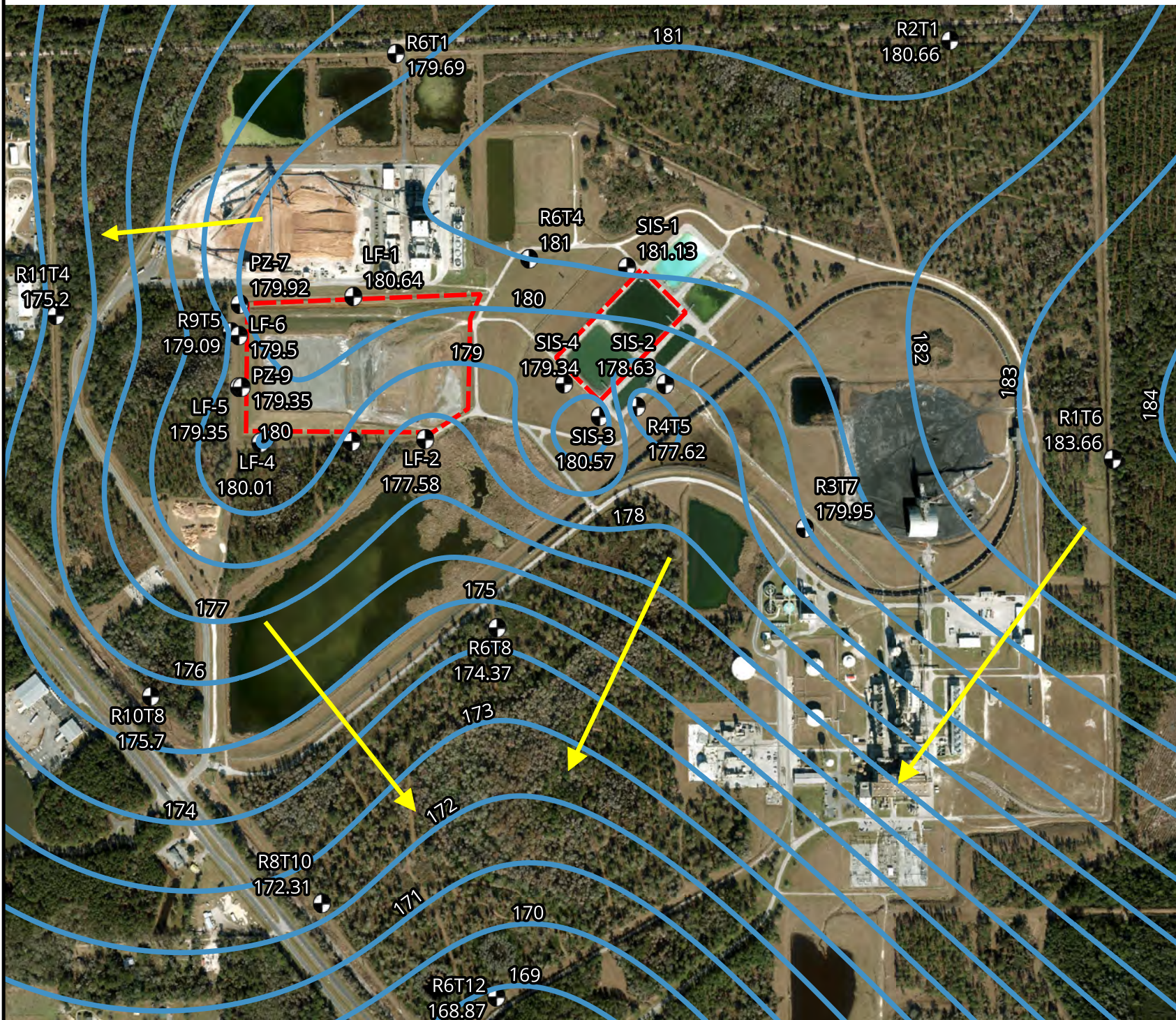
NOTES:

1. THE CCR LANDFILL AND CCR SURFACE IMPOUNDMENT SYSTEM (AND ADJACENT PROCESS PONDS) ARE SURROUNDED BY A SLURRY WALL CONTAINMENT SYSTEM KEYED INTO AN EXISTING NATURAL CLAY LINER - THE CCR UNITS WERE DESIGNED TO BE HYDRAULICALLY ISOLATED FROM THE SURROUNDING SURFICIAL AQUIFER. THEREFORE, THE POTENTIOMETRIC SURFACES PRESENTED IN THESE DRAWINGS WERE USED TO ROUGHLY INFER THE GROUNDWATER FLOW DIRECTION OUTSIDE THE EXTENT OF THE CCR UNITS
2. 2017 AERIAL IMAGERY FROM FLORIDA DEPARTMENT OF ENVIRONMENTAL PROJECTION LAND BOUNDARY INFORMATION SYSTEM
3. GROUNDWATER ELEVATIONS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988
4. EXTENTS OF CCR UNITS ARE APPROXIMATE.

Drawn by: KW



CCR Units July 2025 Annual Groundwater Montiring and Corrective Action Report



Legend

- Groundwater Well
- Groundwater Contours
- Groundwater Flow Direction

Approximate Groundwater Flow Direction July 26, 2025

- NOTES:
1. THE CCR LANDFILL AND CCR SURFACE IMPOUNDMENT SYSTEM (AND ADJACENT PROCESS PONDS) ARE SURROUNDED BY A SLURRY WALL CONTAINMENT SYSTEM KEYED INTO AN EXISTING NATURAL CLAY LINER - THE CCR UNITS WERE DESIGNED TO BE HYDRAULICALLY ISOLATED FROM THE SURROUNDING SURFICIAL AQUIFER. THEREFORE, THE POTENTIOMETRIC SURFACES PRESENTED IN THESE DRAWINGS WERE USED TO ROUGHLY INFER THE GROUNDWATER FLOW DIRECTION OUTSIDE THE EXTENT OF THE CCR UNITS
 2. 2017 AERIAL IMAGERY FROM FLORIDA DEPARTMENT OF ENVIRONMENTAL PROJECTION LAND BOUNDARY INFORMATION SYSTEM
 3. GROUNDWATER ELEVATIONS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988
 4. EXTENTS OF CCR UNITS ARE APPROXIMATE.

Drawn by: KW