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Automated Report

Technical Report for

Civitas

ENSOCOWR: Dutch Lake 22-34H

09C2407120

SGS Job Number: DA77462

Sampling Date: 11/20/25

Report to:

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Total number of pages in report: **158**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

Eric Hoffman

Client Service contact: Joseph Rhoades 303-425-6021
Certifications: CO (CO00049), ND (R-027), UT (NELAP CO00049), LA (LA150028), TX (T104704511), WY (8TMS-L) HI (CO00049), NJ (CO011), NV (CO00049), AK (CO00049), CA (3076), and NC (08701)

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SGS North America Inc.

Sample Summary

Civitas

Job No: DA77462

ENSOCOWR: Dutch Lake 22-34H
Project No: 09C2407120

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
DA77462-1	11/20/25	08:10	MB	11/20/25	SO	Soil	WH-B01@6'
DA77462-1A	11/20/25	08:10	MB	11/20/25	SO	Soil	WH-B01@6'
DA77462-1B	11/20/25	08:10	MB	11/20/25	SO	Soil	WH-B01@6'
DA77462-1C	11/20/25	08:10	MB	11/20/25	SO	Soil	WH-B01@6'
DA77462-2	11/20/25	08:15	MB	11/20/25	SO	Soil	WH-N01@3'
DA77462-2A	11/20/25	08:15	MB	11/20/25	SO	Soil	WH-N01@3'
DA77462-2B	11/20/25	08:15	MB	11/20/25	SO	Soil	WH-N01@3'
DA77462-2C	11/20/25	08:15	MB	11/20/25	SO	Soil	WH-N01@3'
DA77462-3	11/20/25	08:20	MB	11/20/25	SO	Soil	WH-S01@3'
DA77462-3A	11/20/25	08:20	MB	11/20/25	SO	Soil	WH-S01@3'
DA77462-3B	11/20/25	08:20	MB	11/20/25	SO	Soil	WH-S01@3'
DA77462-3C	11/20/25	08:20	MB	11/20/25	SO	Soil	WH-S01@3'
DA77462-4	11/20/25	08:25	MB	11/20/25	SO	Soil	WH-E01@3'

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

Civitas

Job No: DA77462

ENSOCOWR: Dutch Lake 22-34H
Project No: 09C2407120

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
DA77462-4A	11/20/25	08:25	MB	11/20/25	SO	Soil	WH-E01@3'
DA77462-4B	11/20/25	08:25	MB	11/20/25	SO	Soil	WH-E01@3'
DA77462-4C	11/20/25	08:25	MB	11/20/25	SO	Soil	WH-E01@3'
DA77462-5	11/20/25	08:30	MB	11/20/25	SO	Soil	WH-W01@3'
DA77462-5A	11/20/25	08:30	MB	11/20/25	SO	Soil	WH-W01@3'
DA77462-5B	11/20/25	08:30	MB	11/20/25	SO	Soil	WH-W01@3'
DA77462-5C	11/20/25	08:30	MB	11/20/25	SO	Soil	WH-W01@3'
DA77462-6	11/20/25	08:35	MB	11/20/25	SO	Soil	FL-B01@3'
DA77462-6A	11/20/25	08:35	MB	11/20/25	SO	Soil	FL-B01@3'
DA77462-6B	11/20/25	08:35	MB	11/20/25	SO	Soil	FL-B01@3'
DA77462-6C	11/20/25	08:35	MB	11/20/25	SO	Soil	FL-B01@3'
DA77462-7	11/20/25	09:00	MB	11/20/25	SO	Soil	FL-B03@3'
DA77462-7A	11/20/25	09:00	MB	11/20/25	SO	Soil	FL-B03@3'

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

Civitas

Job No: DA77462

ENSOCOWR: Dutch Lake 22-34H
Project No: 09C2407120

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
DA77462-7B	11/20/25	09:00	MB	11/20/25	SO	Soil	FL-B03@3'
DA77462-7C	11/20/25	09:00	MB	11/20/25	SO	Soil	FL-B03@3'
DA77462-8	11/20/25	09:10	MB	11/20/25	SO	Soil	SEP-B01@3'
DA77462-8A	11/20/25	09:10	MB	11/20/25	SO	Soil	SEP-B01@3'
DA77462-8B	11/20/25	09:10	MB	11/20/25	SO	Soil	SEP-B01@3'
DA77462-8C	11/20/25	09:10	MB	11/20/25	SO	Soil	SEP-B01@3'
DA77462-9	11/20/25	09:12	MB	11/20/25	SO	Soil	SEP-B02@3'
DA77462-9A	11/20/25	09:12	MB	11/20/25	SO	Soil	SEP-B02@3'
DA77462-9B	11/20/25	09:12	MB	11/20/25	SO	Soil	SEP-B02@3'
DA77462-9C	11/20/25	09:12	MB	11/20/25	SO	Soil	SEP-B02@3'
DA77462-10	11/20/25	08:40	MB	11/20/25	SO	Soil	SP-CS01@6'
DA77462-10A	11/20/25	08:40	MB	11/20/25	SO	Soil	SP-CS01@6'
DA77462-10B	11/20/25	08:40	MB	11/20/25	SO	Soil	SP-CS01@6'

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

Civitas

Job No: DA77462

ENSOCOWR: Dutch Lake 22-34H
Project No: 09C2407120

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
DA77462-10C	11/20/25	08:40	MB	11/20/25	SO	Soil	SP-CS01@6'
DA77462-11	11/20/25	09:22	MB	11/20/25	SO	Soil	SP-CS02@3'
DA77462-11A	11/20/25	09:22	MB	11/20/25	SO	Soil	SP-CS02@3'
DA77462-11B	11/20/25	09:22	MB	11/20/25	SO	Soil	SP-CS02@3'
DA77462-11C	11/20/25	09:22	MB	11/20/25	SO	Soil	SP-CS02@3'

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: DA77462
Account: Civitas
Project: ENSOCOWR: Dutch Lake 22-34H
Collected: 11/20/25

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
DA77462-1	**WH-B01@6'**					
1,3,5-Trimethylbenzene		0.0024	0.0022		mg/kg	SW846 8260D
o-Xylene		0.0025	0.0022		mg/kg	SW846 8260D
Xylene (total)		0.0040	0.0022		mg/kg	SW846 8260D
Fluorene		0.0092	0.0043		mg/kg	SW846 8270E
1-Methylnaphthalene		0.0236	0.0043		mg/kg	SW846 8270E
2-Methylnaphthalene		0.0089	0.0043		mg/kg	SW846 8270E
Pyrene		0.0071	0.0043		mg/kg	SW846 8270E
TPH-DRO (C10-C28)		558	4.4		mg/kg	SW846-8015C
TPH-ORO (> C28-C36)		416	6.6		mg/kg	SW846-8015C
DA77462-1A	**WH-B01@6'**					
Calcium		87.9	6.0		mg/l	SW846 6010C
Sodium		86.4	6.0		mg/l	SW846 6010C
Sodium Adsorption Ratio [a]		2.53			ratio	USDA HANDBOOK 60
DA77462-1B	**WH-B01@6'**					
No hits reported in this sample.						
DA77462-1C	**WH-B01@6'**					
Arsenic		5.0	0.21		mg/kg	SW846 6020B
Barium		512	2.1		mg/kg	SW846 6020B
Cadmium		0.16	0.11		mg/kg	SW846 6020B
Copper		8.8	2.1		mg/kg	SW846 6020B
Lead		6.5	0.53		mg/kg	SW846 6020B
Nickel		6.2	2.1		mg/kg	SW846 6020B
Zinc		88.1	11		mg/kg	SW846 6020B
pH [b]		11.06			su	WREP-125,4E-SATPASTE
Specific Conductivity [b]		1.1	0.0010		mmhos/cm	SM 2510B-2011 MOD
DA77462-2	**WH-N01@3'**					
Fluorene		0.0086	0.0042		mg/kg	SW846 8270E
1-Methylnaphthalene		0.0242	0.0042		mg/kg	SW846 8270E
2-Methylnaphthalene		0.0062	0.0042		mg/kg	SW846 8270E
Pyrene		0.0064	0.0042		mg/kg	SW846 8270E
TPH-DRO (C10-C28)		353	4.4		mg/kg	SW846-8015C
TPH-ORO (> C28-C36)		315	6.6		mg/kg	SW846-8015C

Summary of Hits

Job Number: DA77462
Account: Civitas
Project: ENSOCOWR: Dutch Lake 22-34H
Collected: 11/20/25

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
DA77462-2A	**WH-N01@3'**					
Calcium		36.4	6.0		mg/l	SW846 6010C
Magnesium		7.50	3.0		mg/l	SW846 6010C
Sodium		72.2	6.0		mg/l	SW846 6010C
Sodium Adsorption Ratio [a]		2.85			ratio	USDA HANDBOOK 60
DA77462-2B	**WH-N01@3'**					
No hits reported in this sample.						
DA77462-2C	**WH-N01@3'**					
Arsenic		5.5	0.20		mg/kg	SW846 6020B
Barium		492	2.0		mg/kg	SW846 6020B
Cadmium		0.16	0.098		mg/kg	SW846 6020B
Copper		8.5	2.0		mg/kg	SW846 6020B
Lead		6.0	0.49		mg/kg	SW846 6020B
Nickel		6.0	2.0		mg/kg	SW846 6020B
Zinc		84.1	9.8		mg/kg	SW846 6020B
pH [b]		8.20			su	WREP-125,4E-SATPASTE
Specific Conductivity [b]		0.57	0.0010		mmhos/cm	SM 2510B-2011 MOD
DA77462-3	**WH-S01@3'**					
TPH-DRO (C10-C28)		67.7	4.4		mg/kg	SW846-8015C
TPH-ORO (> C28-C36)		74.9	6.7		mg/kg	SW846-8015C
DA77462-3A	**WH-S01@3'**					
Calcium		54.1	6.0		mg/l	SW846 6010C
Magnesium		3.75	3.0		mg/l	SW846 6010C
Sodium		84.5	6.0		mg/l	SW846 6010C
Sodium Adsorption Ratio [a]		2.99			ratio	USDA HANDBOOK 60
DA77462-3B	**WH-S01@3'**					
No hits reported in this sample.						
DA77462-3C	**WH-S01@3'**					
Arsenic		4.3	0.21		mg/kg	SW846 6020B
Barium		1640	2.1		mg/kg	SW846 6020B
Cadmium		0.12	0.10		mg/kg	SW846 6020B
Copper		17.1	2.1		mg/kg	SW846 6020B

Summary of Hits

Job Number: DA77462
Account: Civitas
Project: ENSOCOWR: Dutch Lake 22-34H
Collected: 11/20/25

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Lead		6.6	0.51		mg/kg	SW846 6020B
Nickel		5.8	2.1		mg/kg	SW846 6020B
Zinc		34.7	10		mg/kg	SW846 6020B
pH [b]		9.94			su	WREP-125,4E-SATPASTE
Specific Conductivity [b]		0.67	0.0010		mmhos/cm	SM 2510B-2011 MOD
DA77462-4	**WH-E01@3'**					
Fluorene		0.0053	0.0045		mg/kg	SW846 8270E
1-Methylnaphthalene		0.0119	0.0045		mg/kg	SW846 8270E
2-Methylnaphthalene		0.0050	0.0045		mg/kg	SW846 8270E
Pyrene		0.0103	0.0045		mg/kg	SW846 8270E
TPH-DRO (C10-C28)		340	4.5		mg/kg	SW846-8015C
TPH-ORO (> C28-C36)		283	6.7		mg/kg	SW846-8015C
DA77462-4A	**WH-E01@3'**					
Calcium		31.4	6.0		mg/l	SW846 6010C
Magnesium		25.1	3.0		mg/l	SW846 6010C
Sodium		82.5	6.0		mg/l	SW846 6010C
Sodium Adsorption Ratio [a]		2.66			ratio	USDA HANDBOOK 60
DA77462-4B	**WH-E01@3'**					
No hits reported in this sample.						
DA77462-4C	**WH-E01@3'**					
Arsenic		3.6	0.22		mg/kg	SW846 6020B
Barium		1230	2.2		mg/kg	SW846 6020B
Cadmium		0.12	0.11		mg/kg	SW846 6020B
Copper		11.1	2.2		mg/kg	SW846 6020B
Lead		6.6	0.54		mg/kg	SW846 6020B
Nickel		6.8	2.2		mg/kg	SW846 6020B
Zinc		172	11		mg/kg	SW846 6020B
pH [b]		8.00			su	WREP-125,4E-SATPASTE
Specific Conductivity [b]		0.73	0.0010		mmhos/cm	SM 2510B-2011 MOD
DA77462-5	**WH-W01@3'**					
m,p-Xylene		0.0030	0.0025		mg/kg	SW846 8260D
Xylene (total)		0.0030	0.0025		mg/kg	SW846 8260D

Summary of Hits

Job Number: DA77462
Account: Civitas
Project: ENSOCOWR: Dutch Lake 22-34H
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Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
DA77462-5A	**WH-W01@3'**					
Calcium		24.8	6.0		mg/l	SW846 6010C
Magnesium		10.2	3.0		mg/l	SW846 6010C
Sodium		28.2	6.0		mg/l	SW846 6010C
Sodium Adsorption Ratio [a]		1.20			ratio	USDA HANDBOOK 60
DA77462-5B	**WH-W01@3'**					
No hits reported in this sample.						
DA77462-5C	**WH-W01@3'**					
Arsenic		4.3	0.24		mg/kg	SW846 6020B
Barium		201	2.4		mg/kg	SW846 6020B
Copper		4.3	2.4		mg/kg	SW846 6020B
Lead		6.0	0.61		mg/kg	SW846 6020B
Nickel		5.4	2.4		mg/kg	SW846 6020B
Zinc		21.9	12		mg/kg	SW846 6020B
pH [b]		8.06			su	WREP-125,4E-SATPASTE
Specific Conductivity [b]		0.31	0.0010		mmhos/cm	SM 2510B-2011 MOD
DA77462-6	**FL-B01@3'**					
Fluorene		0.0047	0.0043		mg/kg	SW846 8270E
1-Methylnaphthalene		0.0110	0.0043		mg/kg	SW846 8270E
2-Methylnaphthalene		0.0051	0.0043		mg/kg	SW846 8270E
Pyrene		0.0044	0.0043		mg/kg	SW846 8270E
TPH-DRO (C10-C28)		170	4.4		mg/kg	SW846-8015C
TPH-ORO (> C28-C36)		137	6.7		mg/kg	SW846-8015C
DA77462-6A	**FL-B01@3'**					
Calcium		48.2	6.0		mg/l	SW846 6010C
Magnesium		6.00	3.0		mg/l	SW846 6010C
Sodium		54.3	6.0		mg/l	SW846 6010C
Sodium Adsorption Ratio [a]		1.96			ratio	USDA HANDBOOK 60
DA77462-6B	**FL-B01@3'**					
No hits reported in this sample.						
DA77462-6C	**FL-B01@3'**					
Arsenic		4.7	0.22		mg/kg	SW846 6020B

Summary of Hits

Job Number: DA77462
Account: Civitas
Project: ENSOCOWR: Dutch Lake 22-34H
Collected: 11/20/25

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Barium		315	2.2		mg/kg	SW846 6020B
Cadmium		0.14	0.11		mg/kg	SW846 6020B
Copper		5.6	2.2		mg/kg	SW846 6020B
Lead		6.1	0.55		mg/kg	SW846 6020B
Nickel		6.2	2.2		mg/kg	SW846 6020B
Zinc		34.5	11		mg/kg	SW846 6020B
pH [b]		9.35			su	WREP-125,4E-SATPASTE
Specific Conductivity [b]		0.47	0.0010		mmhos/cm	SM 2510B-2011 MOD
DA77462-7	**FL-B03@3'**					
No hits reported in this sample.						
DA77462-7A	**FL-B03@3'**					
Calcium		52.8	6.0		mg/l	SW846 6010C
Magnesium		6.75	3.0		mg/l	SW846 6010C
Sodium Adsorption Ratio [a]		0.0310			ratio	USDA HANDBOOK 60
DA77462-7B	**FL-B03@3'**					
No hits reported in this sample.						
DA77462-7C	**FL-B03@3'**					
Arsenic		6.6	0.18		mg/kg	SW846 6020B
Barium		167	1.8		mg/kg	SW846 6020B
Cadmium		0.17	0.090		mg/kg	SW846 6020B
Copper		5.4	1.8		mg/kg	SW846 6020B
Lead		6.5	0.45		mg/kg	SW846 6020B
Nickel		6.4	1.8		mg/kg	SW846 6020B
Zinc		18.2	9.0		mg/kg	SW846 6020B
pH [b]		8.04			su	WREP-125,4E-SATPASTE
Specific Conductivity [b]		0.24	0.0010		mmhos/cm	SM 2510B-2011 MOD
DA77462-8	**SEP-B01@3'**					
No hits reported in this sample.						
DA77462-8A	**SEP-B01@3'**					
Calcium		43.2	6.0		mg/l	SW846 6010C
Magnesium		4.35	3.0		mg/l	SW846 6010C
Sodium		34.8	6.0		mg/l	SW846 6010C
Sodium Adsorption Ratio [a]		1.35			ratio	USDA HANDBOOK 60

Summary of Hits

Job Number: DA77462
Account: Civitas
Project: ENSOCOWR: Dutch Lake 22-34H
Collected: 11/20/25

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
DA77462-8B	**SEP-B01@3'**					
No hits reported in this sample.						
DA77462-8C	**SEP-B01@3'**					
Arsenic		3.2	0.21		mg/kg	SW846 6020B
Barium		166	2.1		mg/kg	SW846 6020B
Cadmium		0.15	0.10		mg/kg	SW846 6020B
Copper		4.0	2.1		mg/kg	SW846 6020B
Lead		4.4	0.51		mg/kg	SW846 6020B
Nickel		3.8	2.1		mg/kg	SW846 6020B
Zinc		15.1	10		mg/kg	SW846 6020B
pH [b]		8.10			su	WREP-125,4E-SATPASTE
Specific Conductivity [b]		0.31	0.0010		mmhos/cm	SM 2510B-2011 MOD
DA77462-9	**SEP-B02@3'**					
No hits reported in this sample.						
DA77462-9A	**SEP-B02@3'**					
Calcium		47.1	6.0		mg/l	SW846 6010C
Magnesium		5.40	3.0		mg/l	SW846 6010C
Sodium Adsorption Ratio [a]		0.0441			ratio	USDA HANDBOOK 60
DA77462-9B	**SEP-B02@3'**					
No hits reported in this sample.						
DA77462-9C	**SEP-B02@3'**					
Arsenic		5.9	0.20		mg/kg	SW846 6020B
Barium		87.3	2.0		mg/kg	SW846 6020B
Cadmium		0.12	0.098		mg/kg	SW846 6020B
Copper		4.7	2.0		mg/kg	SW846 6020B
Lead		5.5	0.49		mg/kg	SW846 6020B
Nickel		5.3	2.0		mg/kg	SW846 6020B
Zinc		17.3	9.8		mg/kg	SW846 6020B
pH [b]		8.03			su	WREP-125,4E-SATPASTE
Specific Conductivity [b]		0.21	0.0010		mmhos/cm	SM 2510B-2011 MOD

Summary of Hits

Job Number: DA77462
Account: Civitas
Project: ENSOCOWR: Dutch Lake 22-34H
Collected: 11/20/25

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
DA77462-10	**SP-CS01@6'**					
TPH-DRO (C10-C28)		176	4.7		mg/kg	SW846-8015C
TPH-ORO (> C28-C36)		151	7.1		mg/kg	SW846-8015C
DA77462-10A	**SP-CS01@6'**					
Calcium		47.1	6.0		mg/l	SW846 6010C
Magnesium		11.3	3.0		mg/l	SW846 6010C
Sodium		99.8	6.0		mg/l	SW846 6010C
Sodium Adsorption Ratio [a]		3.39			ratio	USDA HANDBOOK 60
DA77462-10B	**SP-CS01@6'**					
No hits reported in this sample.						
DA77462-10C	**SP-CS01@6'**					
Arsenic		4.2	0.22		mg/kg	SW846 6020B
Barium		551	2.2		mg/kg	SW846 6020B
Cadmium		0.12	0.11		mg/kg	SW846 6020B
Copper		7.5	2.2		mg/kg	SW846 6020B
Lead		10.5	0.56		mg/kg	SW846 6020B
Nickel		6.2	2.2		mg/kg	SW846 6020B
Zinc		82.0	11		mg/kg	SW846 6020B
pH [b]		8.09			su	WREP-125,4E-SATPASTE
Specific Conductivity [b]		0.82	0.0010		mmhos/cm	SM 2510B-2011 MOD
DA77462-11	**SP-CS02@3'**					
1,2,4-Trimethylbenzene		0.0024	0.0021		mg/kg	SW846 8260D
m,p-Xylene		0.0033	0.0021		mg/kg	SW846 8260D
Xylene (total)		0.0048	0.0021		mg/kg	SW846 8260D
Fluorene		0.0053	0.0042		mg/kg	SW846 8270E
1-Methylnaphthalene		0.0229	0.0042		mg/kg	SW846 8270E
2-Methylnaphthalene		0.0212	0.0042		mg/kg	SW846 8270E
Naphthalene		0.0025	0.0021		mg/kg	SW846 8270E
TPH-DRO (C10-C28)		43.4	4.2		mg/kg	SW846-8015C
TPH-ORO (> C28-C36)		51.7	6.3		mg/kg	SW846-8015C
DA77462-11A	**SP-CS02@3'**					
Calcium		39.4	6.0		mg/l	SW846 6010C
Magnesium		4.80	3.0		mg/l	SW846 6010C
Sodium Adsorption Ratio [a]		0.0780			ratio	USDA HANDBOOK 60

Summary of Hits

Job Number: DA77462
Account: Civitas
Project: ENSOCOWR: Dutch Lake 22-34H
Collected: 11/20/25

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
DA77462-11B	**SP-CS02@3'**					
No hits reported in this sample.						
DA77462-11C	**SP-CS02@3'**					
Arsenic		2.9	0.19		mg/kg	SW846 6020B
Barium		94.6	1.9		mg/kg	SW846 6020B
Copper		3.6	1.9		mg/kg	SW846 6020B
Lead		5.7	0.48		mg/kg	SW846 6020B
Nickel		4.0	1.9		mg/kg	SW846 6020B
Zinc		15.0	9.5		mg/kg	SW846 6020B
pH [b]		7.93			su	WREP-125,4E-SATPASTE
Specific Conductivity [b]		0.21	0.0010		mmhos/cm	SM 2510B-2011 MOD

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]
(b) Saturated paste was generated on 11/21/25.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	WH-B01@6'		
Lab Sample ID:	DA77462-1	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
Method:	SW846 8260D	**Percent Solids:**	89.9
Project:	ENSOCOWR: Dutch Lake 22-34H		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	10V1950.D	1	11/26/25 04:42	MB	n/a	n/a	V0V31
Run #2							

	Initial Weight	Final Volume
Run #1	5.04 g	5.0 ml
Run #2		

VOA COGCC Table 915 soil list

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	< 0.0011	0.0011	mg/kg	
100-41-4	Ethylbenzene	< 0.0022	0.0022	mg/kg	
108-88-3	Toluene	< 0.0022	0.0022	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	< 0.0022	0.0022	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	0.0024	0.0022	mg/kg	
	m,p-Xylene	< 0.0022	0.0022	mg/kg	
95-47-6	o-Xylene	0.0025	0.0022	mg/kg	
1330-20-7	Xylene (total)	0.0040	0.0022	mg/kg	
	TPH-GRO (C6-C10)	< 0.22	0.22	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		70-130%
2037-26-5	Toluene-D8	102%		70-130%
460-00-4	4-Bromofluorobenzene	102%		70-130%
17060-07-0	1,2-Dichloroethane-D4	106%		70-130%

RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WH-B01@6'		
Lab Sample ID:	DA77462-1	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
Method:	SW846 8270E SW846 3570	**Percent Solids:**	89.9
Project:	ENSOCOWR: Dutch Lake 22-34H		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	9G003204.D	1	11/23/25 22:08	ZL	11/22/25 16:00	OP29370	E9G125
Run #2							

	Initial Weight	Final Volume
Run #1	5.2 g	10.0 ml
Run #2		

COGCC Table 915-1 PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	< 0.0043	0.0043	mg/kg	
120-12-7	Anthracene	< 0.0043	0.0043	mg/kg	
56-55-3	Benzo(a)anthracene	< 0.0053	0.0053	mg/kg	
205-99-2	Benzo(b)fluoranthene	< 0.0043	0.0043	mg/kg	
207-08-9	Benzo(k)fluoranthene	< 0.0043	0.0043	mg/kg	
50-32-8	Benzo(a)pyrene	< 0.0043	0.0043	mg/kg	
218-01-9	Chrysene	< 0.0043	0.0043	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	< 0.0043	0.0043	mg/kg	
206-44-0	Fluoranthene	< 0.0043	0.0043	mg/kg	
86-73-7	Fluorene	0.0092	0.0043	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	< 0.0043	0.0043	mg/kg	
90-12-0	1-Methylnaphthalene	0.0236	0.0043	mg/kg	
91-57-6	2-Methylnaphthalene	0.0089	0.0043	mg/kg	
91-20-3	Naphthalene	< 0.0021	0.0021	mg/kg	
129-00-0	Pyrene	0.0071	0.0043	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	96%		22-138%
4165-60-0	Nitrobenzene-d5	116%		32-143%
1718-51-0	Terphenyl-d14	105%		48-149%

RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WH-B01@6'		
Lab Sample ID:	DA77462-1	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
Method:	SW846-8015C SW846 3570	**Percent Solids:**	89.9
Project:	ENSOCOWR: Dutch Lake 22-34H		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LW50422.D	1	11/25/25 15:26	JB	11/22/25 13:00	OP29364	GLW1186
Run #2							

	Initial Weight	Final Volume
Run #1	5.1 g	10.0 ml
Run #2		

DRO C10-C28, ORO > C28-C36

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (C10-C28)	558	4.4	mg/kg	
	TPH-ORO (> C28-C36)	416	6.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	98%		20-142%

RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WH-B01@6'		
Lab Sample ID:	DA77462-1A	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	89.9
Project:	ENSOCOWR: Dutch Lake 22-34H		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	87.9	6.0	mg/l	1	11/21/25	12/09/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Magnesium	< 3.0	3.0	mg/l	1	11/21/25	12/09/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Sodium	86.4	6.0	mg/l	1	11/21/25	12/09/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]

(1) Instrument QC Batch: MA19941
(2) Prep QC Batch: MP44604

RL = Reporting Limit

Report of Analysis

Client Sample ID:	WH-B01@6'		
Lab Sample ID:	DA77462-1A	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	89.9
Project:	ENSOCOWR: Dutch Lake 22-34H		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio [a]	2.53		ratio	1	12/09/25 22:32	BR	USDA HANDBOOK 60

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]

RL = Reporting Limit

Report of Analysis

Client Sample ID:	WH-B01@6'		
Lab Sample ID:	DA77462-1B	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	89.9
Project:	ENSOCOWR: Dutch Lake 22-34H		

Hot Water Soluble Boron Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Boron	< 0.25	0.25	mg/l	1	11/22/25	12/08/25	CDL	SW846 6010C [1]	HWS-B [2]

(1) Instrument QC Batch: MA19931
(2) Prep QC Batch: MP44585

RL = Reporting Limit

Report of Analysis

Client Sample ID:	WH-B01@6'		
Lab Sample ID:	DA77462-1C	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	89.9
Project:	ENSOCOWR: Dutch Lake 22-34H		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	5.0	0.21	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Barium	512	2.1	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Cadmium	0.16	0.11	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Copper	8.8	2.1	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Lead	6.5	0.53	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Nickel	6.2	2.1	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Selenium	< 0.21	0.21	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Silver	< 0.11	0.11	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Zinc	88.1	11	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA19906
(2) Prep QC Batch: MP44584

RL = Reporting Limit

Report of Analysis

Client Sample ID:	WH-B01@6'		
Lab Sample ID:	DA77462-1C	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	89.9
Project:	ENSOCOWR: Dutch Lake 22-34H		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
pH-saturated paste method							
pH [a]	11.06		su	1	11/21/25 14:41	SG	WREP-125,4E-SATPASTE
prep: DEPT.OF AG, BOOK N9							
Specific Conductivity [a]	1.1	0.0010	mmhos/cm	1	11/21/25 14:41	SG	SM 2510B-2011 MOD
Chromium, Hexavalent [b]	< 0.44	0.44	mg/kg	1	12/21/25 14:40	ANJ	SW846 3060A/7199

(a) Saturated paste was generated on 11/21/25.
(b) Analysis performed at SGS Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	WH-N01@3'		
Lab Sample ID:	DA77462-2	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
Method:	SW846 8260D	**Percent Solids:**	90.9
Project:	ENSOCOWR: Dutch Lake 22-34H		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	10V1951.D	1	11/26/25 05:07	MB	n/a	n/a	V0V31
Run #2							

	Initial Weight	Final Volume
Run #1	5.27 g	5.0 ml
Run #2		

VOA COGCC Table 915 soil list

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	< 0.0010	0.0010	mg/kg	
100-41-4	Ethylbenzene	< 0.0021	0.0021	mg/kg	
108-88-3	Toluene	< 0.0021	0.0021	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	< 0.0021	0.0021	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	< 0.0021	0.0021	mg/kg	
	m,p-Xylene	< 0.0021	0.0021	mg/kg	
95-47-6	o-Xylene	< 0.0021	0.0021	mg/kg	
1330-20-7	Xylene (total)	< 0.0021	0.0021	mg/kg	
	TPH-GRO (C6-C10)	< 0.21	0.21	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		70-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	102%		70-130%
17060-07-0	1,2-Dichloroethane-D4	102%		70-130%

RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WH-N01@3'		
Lab Sample ID:	DA77462-2	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
Method:	SW846 8270E SW846 3570	**Percent Solids:**	90.9
Project:	ENSOCOWR: Dutch Lake 22-34H		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	9G003205.D	1	11/23/25 22:29	ZL	11/22/25 16:00	OP29370	E9G125
Run #2							

	Initial Weight	Final Volume
Run #1	5.3 g	10.0 ml
Run #2		

COGCC Table 915-1 PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	< 0.0042	0.0042	mg/kg	
120-12-7	Anthracene	< 0.0042	0.0042	mg/kg	
56-55-3	Benzo(a)anthracene	< 0.0052	0.0052	mg/kg	
205-99-2	Benzo(b)fluoranthene	< 0.0042	0.0042	mg/kg	
207-08-9	Benzo(k)fluoranthene	< 0.0042	0.0042	mg/kg	
50-32-8	Benzo(a)pyrene	< 0.0042	0.0042	mg/kg	
218-01-9	Chrysene	< 0.0042	0.0042	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	< 0.0042	0.0042	mg/kg	
206-44-0	Fluoranthene	< 0.0042	0.0042	mg/kg	
86-73-7	Fluorene	0.0086	0.0042	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	< 0.0042	0.0042	mg/kg	
90-12-0	1-Methylnaphthalene	0.0242	0.0042	mg/kg	
91-57-6	2-Methylnaphthalene	0.0062	0.0042	mg/kg	
91-20-3	Naphthalene	< 0.0021	0.0021	mg/kg	
129-00-0	Pyrene	0.0064	0.0042	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	85%		22-138%
4165-60-0	Nitrobenzene-d5	103%		32-143%
1718-51-0	Terphenyl-d14	107%		48-149%

RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WH-N01@3'		
Lab Sample ID:	DA77462-2	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
Method:	SW846-8015C SW846 3570	**Percent Solids:**	90.9
Project:	ENSOCOWR: Dutch Lake 22-34H		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LW50423.D	1	11/25/25 15:40	JB	11/22/25 13:00	OP29364	GLW1186
Run #2							

	Initial Weight	Final Volume
Run #1	5.0 g	10.0 ml
Run #2		

DRO C10-C28, ORO > C28-C36

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (C10-C28)	353	4.4	mg/kg	
	TPH-ORO (> C28-C36)	315	6.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	101%		20-142%

RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WH-N01@3'		
Lab Sample ID:	DA77462-2A	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	90.9
Project:	ENSOCOWR: Dutch Lake 22-34H		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	36.4	6.0	mg/l	1	11/21/25	12/09/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Magnesium	7.50	3.0	mg/l	1	11/21/25	12/09/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Sodium	72.2	6.0	mg/l	1	11/21/25	12/09/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]

(1) Instrument QC Batch: MA19941
(2) Prep QC Batch: MP44604

RL = Reporting Limit

Report of Analysis

Client Sample ID:	WH-N01@3'		
Lab Sample ID:	DA77462-2A	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	90.9
Project:	ENSOCOWR: Dutch Lake 22-34H		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio [a]	2.85		ratio	1	12/09/25 22:33	BR	USDA HANDBOOK 60

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]

RL = Reporting Limit

Report of Analysis

Client Sample ID:	WH-N01@3'		
Lab Sample ID:	DA77462-2B	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	90.9
Project:	ENSOCOWR: Dutch Lake 22-34H		

Hot Water Soluble Boron Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Boron	< 0.25	0.25	mg/l	1	11/22/25	12/08/25	CDL	SW846 6010C [1]	HWS-B [2]

(1) Instrument QC Batch: MA19931
(2) Prep QC Batch: MP44585

RL = Reporting Limit

Report of Analysis

Client Sample ID:	WH-N01@3'		
Lab Sample ID:	DA77462-2C	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	90.9
Project:	ENSOCOWR: Dutch Lake 22-34H		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	5.5	0.20	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Barium	492	2.0	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Cadmium	0.16	0.098	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Copper	8.5	2.0	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Lead	6.0	0.49	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Nickel	6.0	2.0	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Selenium	< 0.20	0.20	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Silver	< 0.098	0.098	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Zinc	84.1	9.8	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA19906
(2) Prep QC Batch: MP44584

RL = Reporting Limit

Report of Analysis

Client Sample ID:	WH-N01@3'		
Lab Sample ID:	DA77462-2C	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	90.9
Project:	ENSOCOWR: Dutch Lake 22-34H		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
pH-saturated paste method							
pH [a]	8.20		su	1	11/21/25 14:41	SG	WREP-125,4E-SATPASTE
prep: DEPT.OF AG, BOOK N9							
Specific Conductivity [a]	0.57	0.0010	mmhos/cm	1	11/21/25 14:41	SG	SM 2510B-2011 MOD
Chromium, Hexavalent [b]	< 0.43	0.43	mg/kg	1	12/21/25 14:55	ANJ	SW846 3060A/7199

(a) Saturated paste was generated on 11/21/25.
(b) Analysis performed at SGS Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	WH-S01@3'		
Lab Sample ID:	DA77462-3	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
Method:	SW846 8260D	**Percent Solids:**	89.5
Project:	ENSOCOWR: Dutch Lake 22-34H		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	10V1934.D	1	11/25/25 22:02	MB	n/a	n/a	V0V31
Run #2							

	Initial Weight	Final Volume
Run #1	5.17 g	5.0 ml
Run #2		

VOA COGCC Table 915 soil list

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	< 0.0011	0.0011	mg/kg	
100-41-4	Ethylbenzene	< 0.0022	0.0022	mg/kg	
108-88-3	Toluene	< 0.0022	0.0022	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	< 0.0022	0.0022	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	< 0.0022	0.0022	mg/kg	
	m,p-Xylene	< 0.0022	0.0022	mg/kg	
95-47-6	o-Xylene	< 0.0022	0.0022	mg/kg	
1330-20-7	Xylene (total)	< 0.0022	0.0022	mg/kg	
	TPH-GRO (C6-C10)	< 0.22	0.22	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%
17060-07-0	1,2-Dichloroethane-D4	104%		70-130%

RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WH-S01@3'		
Lab Sample ID:	DA77462-3	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
Method:	SW846 8270E SW846 3570	**Percent Solids:**	89.5
Project:	ENSOCOWR: Dutch Lake 22-34H		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	9G003206.D	1	11/23/25 22:49	ZL	11/22/25 16:00	OP29370	E9G125
Run #2							

	Initial Weight	Final Volume
Run #1	5.0 g	10.0 ml
Run #2		

COGCC Table 915-1 PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	< 0.0045	0.0045	mg/kg	
120-12-7	Anthracene	< 0.0045	0.0045	mg/kg	
56-55-3	Benzo(a)anthracene	< 0.0056	0.0056	mg/kg	
205-99-2	Benzo(b)fluoranthene	< 0.0045	0.0045	mg/kg	
207-08-9	Benzo(k)fluoranthene	< 0.0045	0.0045	mg/kg	
50-32-8	Benzo(a)pyrene	< 0.0045	0.0045	mg/kg	
218-01-9	Chrysene	< 0.0045	0.0045	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	< 0.0045	0.0045	mg/kg	
206-44-0	Fluoranthene	< 0.0045	0.0045	mg/kg	
86-73-7	Fluorene	< 0.0045	0.0045	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	< 0.0045	0.0045	mg/kg	
90-12-0	1-Methylnaphthalene	< 0.0045	0.0045	mg/kg	
91-57-6	2-Methylnaphthalene	< 0.0045	0.0045	mg/kg	
91-20-3	Naphthalene	< 0.0022	0.0022	mg/kg	
129-00-0	Pyrene	< 0.0045	0.0045	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	92%		22-138%
4165-60-0	Nitrobenzene-d5	110%		32-143%
1718-51-0	Terphenyl-d14	111%		48-149%

RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WH-S01@3'		
Lab Sample ID:	DA77462-3	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
Method:	SW846-8015C SW846 3570	**Percent Solids:**	89.5
Project:	ENSOCOWR: Dutch Lake 22-34H		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LW50424.D	1	11/25/25 15:53	JB	11/22/25 13:00	OP29364	GLW1186
Run #2							

	Initial Weight	Final Volume
Run #1	5.0 g	10.0 ml
Run #2		

DRO C10-C28, ORO > C28-C36

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (C10-C28)	67.7	4.4	mg/kg	
	TPH-ORO (> C28-C36)	74.9	6.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	107%		20-142%

RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WH-S01@3'		
Lab Sample ID:	DA77462-3A	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	89.5
Project:	ENSOCOWR: Dutch Lake 22-34H		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	54.1	6.0	mg/l	1	11/21/25	12/09/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Magnesium	3.75	3.0	mg/l	1	11/21/25	12/09/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Sodium	84.5	6.0	mg/l	1	11/21/25	12/09/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]

(1) Instrument QC Batch: MA19941
(2) Prep QC Batch: MP44604

RL = Reporting Limit

Report of Analysis

Client Sample ID:	WH-S01@3'		
Lab Sample ID:	DA77462-3A	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	89.5
Project:	ENSOCOWR: Dutch Lake 22-34H		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio [a]	2.99		ratio	1	12/09/25 22:35	BR	USDA HANDBOOK 60

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]

RL = Reporting Limit

Report of Analysis

Client Sample ID:	WH-S01@3'		
Lab Sample ID:	DA77462-3B	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	89.5
Project:	ENSOCOWR: Dutch Lake 22-34H		

Hot Water Soluble Boron Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Boron	< 0.25	0.25	mg/l	1	11/22/25	12/08/25	CDL	SW846 6010C [1]	HWS-B [2]

(1) Instrument QC Batch: MA19931
(2) Prep QC Batch: MP44585

RL = Reporting Limit

Report of Analysis

Client Sample ID:	WH-S01@3'		
Lab Sample ID:	DA77462-3C	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	89.5
Project:	ENSOCOWR: Dutch Lake 22-34H		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	4.3	0.21	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Barium	1640	2.1	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Cadmium	0.12	0.10	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Copper	17.1	2.1	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Lead	6.6	0.51	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Nickel	5.8	2.1	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Selenium	< 0.21	0.21	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Silver	< 0.10	0.10	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Zinc	34.7	10	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA19906
(2) Prep QC Batch: MP44584

RL = Reporting Limit

Report of Analysis

Client Sample ID:	WH-S01@3'		
Lab Sample ID:	DA77462-3C	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	89.5
Project:	ENSOCOWR: Dutch Lake 22-34H		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
pH-saturated paste method							
pH [a]	9.94		su	1	11/21/25 14:41	SG	WREP-125,4E-SATPASTE
prep: DEPT.OF AG, BOOK N9							
Specific Conductivity [a]	0.67	0.0010	mmhos/cm	1	11/21/25 14:41	SG	SM 2510B-2011 MOD
Chromium, Hexavalent [b]	< 0.45	0.45	mg/kg	1	12/21/25 15:27	ANJ	SW846 3060A/7199

(a) Saturated paste was generated on 11/21/25.
(b) Analysis performed at SGS Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	WH-E01@3'		
Lab Sample ID:	DA77462-4	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
Method:	SW846 8260D	**Percent Solids:**	89.4
Project:	ENSOCOWR: Dutch Lake 22-34H		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	10V1952.D	1	11/26/25 05:32	MB	n/a	n/a	V0V31
Run #2							

	Initial Weight	Final Volume
Run #1	5.49 g	5.0 ml
Run #2		

VOA COGCC Table 915 soil list

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	< 0.0010	0.0010	mg/kg	
100-41-4	Ethylbenzene	< 0.0020	0.0020	mg/kg	
108-88-3	Toluene	< 0.0020	0.0020	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	< 0.0020	0.0020	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	< 0.0020	0.0020	mg/kg	
	m,p-Xylene	< 0.0020	0.0020	mg/kg	
95-47-6	o-Xylene	< 0.0020	0.0020	mg/kg	
1330-20-7	Xylene (total)	< 0.0020	0.0020	mg/kg	
	TPH-GRO (C6-C10)	< 0.20	0.20	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%
17060-07-0	1,2-Dichloroethane-D4	109%		70-130%

RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WH-E01@3'		
Lab Sample ID:	DA77462-4	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
Method:	SW846 8270E SW846 3570	**Percent Solids:**	89.4
Project:	ENSOCOWR: Dutch Lake 22-34H		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	9G003207.D	1	11/23/25 23:09	ZL	11/22/25 16:00	OP29370	E9G125
Run #2							

	Initial Weight	Final Volume
Run #1	5.0 g	10.0 ml
Run #2		

COGCC Table 915-1 PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	< 0.0045	0.0045	mg/kg	
120-12-7	Anthracene	< 0.0045	0.0045	mg/kg	
56-55-3	Benzo(a)anthracene	< 0.0056	0.0056	mg/kg	
205-99-2	Benzo(b)fluoranthene	< 0.0045	0.0045	mg/kg	
207-08-9	Benzo(k)fluoranthene	< 0.0045	0.0045	mg/kg	
50-32-8	Benzo(a)pyrene	< 0.0045	0.0045	mg/kg	
218-01-9	Chrysene	< 0.0045	0.0045	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	< 0.0045	0.0045	mg/kg	
206-44-0	Fluoranthene	< 0.0045	0.0045	mg/kg	
86-73-7	Fluorene	0.0053	0.0045	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	< 0.0045	0.0045	mg/kg	
90-12-0	1-Methylnaphthalene	0.0119	0.0045	mg/kg	
91-57-6	2-Methylnaphthalene	0.0050	0.0045	mg/kg	
91-20-3	Naphthalene	< 0.0022	0.0022	mg/kg	
129-00-0	Pyrene	0.0103	0.0045	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	88%		22-138%
4165-60-0	Nitrobenzene-d5	105%		32-143%
1718-51-0	Terphenyl-d14	112%		48-149%

RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WH-E01@3'		
Lab Sample ID:	DA77462-4	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
Method:	SW846-8015C SW846 3570	**Percent Solids:**	89.4
Project:	ENSOCOWR: Dutch Lake 22-34H		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LW50425.D	1	11/25/25 16:06	JB	11/22/25 13:00	OP29364	GLW1186
Run #2							

	Initial Weight	Final Volume
Run #1	5.0 g	10.0 ml
Run #2		

DRO C10-C28, ORO > C28-C36

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (C10-C28)	340	4.5	mg/kg	
	TPH-ORO (> C28-C36)	283	6.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	103%		20-142%

RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WH-E01@3'		
Lab Sample ID:	DA77462-4A	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	89.4
Project:	ENSOCOWR: Dutch Lake 22-34H		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	31.4	6.0	mg/l	1	11/21/25	12/09/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Magnesium	25.1	3.0	mg/l	1	11/21/25	12/09/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Sodium	82.5	6.0	mg/l	1	11/21/25	12/09/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]

(1) Instrument QC Batch: MA19941
(2) Prep QC Batch: MP44604

RL = Reporting Limit

Report of Analysis

Client Sample ID:	WH-E01@3'		
Lab Sample ID:	DA77462-4A	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	89.4
Project:	ENSOCOWR: Dutch Lake 22-34H		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio [a]	2.66		ratio	1	12/09/25 22:36	BR	USDA HANDBOOK 60

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]

RL = Reporting Limit

Report of Analysis

Client Sample ID:	WH-E01@3'		
Lab Sample ID:	DA77462-4B	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	89.4
Project:	ENSOCOWR: Dutch Lake 22-34H		

Hot Water Soluble Boron Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Boron	< 0.25	0.25	mg/l	1	11/22/25	12/08/25	CDL	SW846 6010C [1]	HWS-B [2]

(1) Instrument QC Batch: MA19931
(2) Prep QC Batch: MP44585

RL = Reporting Limit

Report of Analysis

Client Sample ID:	WH-E01@3'		
Lab Sample ID:	DA77462-4C	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	89.4
Project:	ENSOCOWR: Dutch Lake 22-34H		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	3.6	0.22	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Barium	1230	2.2	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Cadmium	0.12	0.11	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Copper	11.1	2.2	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Lead	6.6	0.54	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Nickel	6.8	2.2	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Selenium	< 0.22	0.22	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Silver	< 0.11	0.11	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Zinc	172	11	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA19906
(2) Prep QC Batch: MP44584

RL = Reporting Limit

Report of Analysis

Client Sample ID:	WH-E01@3'		
Lab Sample ID:	DA77462-4C	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	89.4
Project:	ENSOCOWR: Dutch Lake 22-34H		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
pH-saturated paste method							
pH [a]	8.00		su	1	11/21/25 14:41	SG	WREP-125,4E-SATPASTE
prep: DEPT.OF AG, BOOK N9							
Specific Conductivity [a]	0.73	0.0010	mmhos/cm	1	11/21/25 14:41	SG	SM 2510B-2011 MOD
Chromium, Hexavalent [b]	< 0.45	0.45	mg/kg	1	12/21/25 15:43	ANJ	SW846 3060A/7199

(a) Saturated paste was generated on 11/21/25.
(b) Analysis performed at SGS Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	WH-W01@3'		
Lab Sample ID:	DA77462-5	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
Method:	SW846 8260D	**Percent Solids:**	78.7
Project:	ENSOCOWR: Dutch Lake 22-34H		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	10V1935.D	1	11/25/25 22:27	MB	n/a	n/a	V0V31
Run #2							

	Initial Weight	Final Volume
Run #1	5.17 g	5.0 ml
Run #2		

VOA COGCC Table 915 soil list

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	< 0.0012	0.0012	mg/kg	
100-41-4	Ethylbenzene	< 0.0025	0.0025	mg/kg	
108-88-3	Toluene	< 0.0025	0.0025	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	< 0.0025	0.0025	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	< 0.0025	0.0025	mg/kg	
	m,p-Xylene	0.0030	0.0025	mg/kg	
95-47-6	o-Xylene	< 0.0025	0.0025	mg/kg	
1330-20-7	Xylene (total)	0.0030	0.0025	mg/kg	
	TPH-GRO (C6-C10)	< 0.25	0.25	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%
17060-07-0	1,2-Dichloroethane-D4	106%		70-130%

RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WH-W01@3'		
Lab Sample ID:	DA77462-5	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
Method:	SW846 8270E SW846 3570	**Percent Solids:**	78.7
Project:	ENSOCOWR: Dutch Lake 22-34H		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	9G003208.D	1	11/23/25 23:30	ZL	11/22/25 16:00	OP29370	E9G125
Run #2							

	Initial Weight	Final Volume
Run #1	5.3 g	10.0 ml
Run #2		

COGCC Table 915-1 PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	< 0.0048	0.0048	mg/kg	
120-12-7	Anthracene	< 0.0048	0.0048	mg/kg	
56-55-3	Benzo(a)anthracene	< 0.0060	0.0060	mg/kg	
205-99-2	Benzo(b)fluoranthene	< 0.0048	0.0048	mg/kg	
207-08-9	Benzo(k)fluoranthene	< 0.0048	0.0048	mg/kg	
50-32-8	Benzo(a)pyrene	< 0.0048	0.0048	mg/kg	
218-01-9	Chrysene	< 0.0048	0.0048	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	< 0.0048	0.0048	mg/kg	
206-44-0	Fluoranthene	< 0.0048	0.0048	mg/kg	
86-73-7	Fluorene	< 0.0048	0.0048	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	< 0.0048	0.0048	mg/kg	
90-12-0	1-Methylnaphthalene	< 0.0048	0.0048	mg/kg	
91-57-6	2-Methylnaphthalene	< 0.0048	0.0048	mg/kg	
91-20-3	Naphthalene	< 0.0024	0.0024	mg/kg	
129-00-0	Pyrene	< 0.0048	0.0048	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	72%		22-138%
4165-60-0	Nitrobenzene-d5	85%		32-143%
1718-51-0	Terphenyl-d14	103%		48-149%

RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WH-W01@3'		
Lab Sample ID:	DA77462-5	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
Method:	SW846-8015C SW846 3570	**Percent Solids:**	78.7
Project:	ENSOCOWR: Dutch Lake 22-34H		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LW50426.D	1	11/25/25 16:20	JB	11/22/25 13:00	OP29364	GLW1186
Run #2							

	Initial Weight	Final Volume
Run #1	5.1 g	10.0 ml
Run #2		

DRO C10-C28, ORO > C28-C36

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (C10-C28)	< 5.0	5.0	mg/kg	
	TPH-ORO (> C28-C36)	< 7.5	7.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	102%		20-142%

RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WH-W01@3'		
Lab Sample ID:	DA77462-5A	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	78.7
Project:	ENSOCOWR: Dutch Lake 22-34H		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	24.8	6.0	mg/l	1	11/21/25	12/09/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Magnesium	10.2	3.0	mg/l	1	11/21/25	12/09/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Sodium	28.2	6.0	mg/l	1	11/21/25	12/09/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]

(1) Instrument QC Batch: MA19941
(2) Prep QC Batch: MP44604

RL = Reporting Limit

Report of Analysis

Client Sample ID:	WH-W01@3'		
Lab Sample ID:	DA77462-5A	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	78.7
Project:	ENSOCOWR: Dutch Lake 22-34H		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio [a]	1.20		ratio	1	12/09/25 22:38	BR	USDA HANDBOOK 60

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]

RL = Reporting Limit

Report of Analysis

Client Sample ID:	WH-W01@3'		
Lab Sample ID:	DA77462-5B	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	78.7
Project:	ENSOCOWR: Dutch Lake 22-34H		

Hot Water Soluble Boron Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Boron	< 0.25	0.25	mg/l	1	11/22/25	12/08/25	CDL	SW846 6010C [1]	HWS-B [2]

(1) Instrument QC Batch: MA19931
(2) Prep QC Batch: MP44585

RL = Reporting Limit

Report of Analysis

Client Sample ID:	WH-W01@3'		
Lab Sample ID:	DA77462-5C	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	78.7
Project:	ENSOCOWR: Dutch Lake 22-34H		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	4.3	0.24	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Barium	201	2.4	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Cadmium	< 0.12	0.12	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Copper	4.3	2.4	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Lead	6.0	0.61	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Nickel	5.4	2.4	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Selenium	< 0.24	0.24	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Silver	< 0.12	0.12	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Zinc	21.9	12	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA19906
(2) Prep QC Batch: MP44584

RL = Reporting Limit

Report of Analysis

Client Sample ID:	WH-W01@3'		
Lab Sample ID:	DA77462-5C	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	78.7
Project:	ENSOCOWR: Dutch Lake 22-34H		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
pH-saturated paste method							
pH [a]	8.06		su	1	11/21/25 14:41	SG	WREP-125,4E-SATPASTE
prep: DEPT.OF AG, BOOK N9							
Specific Conductivity [a]	0.31	0.0010	mmhos/cm	1	11/21/25 14:41	SG	SM 2510B-2011 MOD
Chromium, Hexavalent [b]	< 0.51	0.51	mg/kg	1	12/21/25 15:59	ANJ	SW846 3060A/7199

(a) Saturated paste was generated on 11/21/25.
(b) Analysis performed at SGS Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FL-B01@3'		
Lab Sample ID:	DA77462-6	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
Method:	SW846 8260D	**Percent Solids:**	88.8
Project:	ENSOCOWR: Dutch Lake 22-34H		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	10V1953.D	1	11/26/25 05:57	MB	n/a	n/a	V0V31
Run #2							

	Initial Weight	Final Volume
Run #1	5.39 g	5.0 ml
Run #2		

VOA COGCC Table 915 soil list

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	< 0.0010	0.0010	mg/kg	
100-41-4	Ethylbenzene	< 0.0021	0.0021	mg/kg	
108-88-3	Toluene	< 0.0021	0.0021	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	< 0.0021	0.0021	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	< 0.0021	0.0021	mg/kg	
	m,p-Xylene	< 0.0021	0.0021	mg/kg	
95-47-6	o-Xylene	< 0.0021	0.0021	mg/kg	
1330-20-7	Xylene (total)	< 0.0021	0.0021	mg/kg	
	TPH-GRO (C6-C10)	< 0.21	0.21	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		70-130%
2037-26-5	Toluene-D8	101%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%
17060-07-0	1,2-Dichloroethane-D4	106%		70-130%

RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FL-B01@3'		
Lab Sample ID:	DA77462-6	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
Method:	SW846 8270E SW846 3570	**Percent Solids:**	88.8
Project:	ENSOCOWR: Dutch Lake 22-34H		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	9G003209.D	1	11/23/25 23:50	ZL	11/22/25 16:00	OP29370	E9G125
Run #2							

	Initial Weight	Final Volume
Run #1	5.2 g	10.0 ml
Run #2		

COGCC Table 915-1 PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	< 0.0043	0.0043	mg/kg	
120-12-7	Anthracene	< 0.0043	0.0043	mg/kg	
56-55-3	Benzo(a)anthracene	< 0.0054	0.0054	mg/kg	
205-99-2	Benzo(b)fluoranthene	< 0.0043	0.0043	mg/kg	
207-08-9	Benzo(k)fluoranthene	< 0.0043	0.0043	mg/kg	
50-32-8	Benzo(a)pyrene	< 0.0043	0.0043	mg/kg	
218-01-9	Chrysene	< 0.0043	0.0043	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	< 0.0043	0.0043	mg/kg	
206-44-0	Fluoranthene	< 0.0043	0.0043	mg/kg	
86-73-7	Fluorene	0.0047	0.0043	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	< 0.0043	0.0043	mg/kg	
90-12-0	1-Methylnaphthalene	0.0110	0.0043	mg/kg	
91-57-6	2-Methylnaphthalene	0.0051	0.0043	mg/kg	
91-20-3	Naphthalene	< 0.0022	0.0022	mg/kg	
129-00-0	Pyrene	0.0044	0.0043	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	104%		22-138%
4165-60-0	Nitrobenzene-d5	121%		32-143%
1718-51-0	Terphenyl-d14	111%		48-149%

RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FL-B01@3'		
Lab Sample ID:	DA77462-6	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
Method:	SW846-8015C SW846 3570	**Percent Solids:**	88.8
Project:	ENSOCOWR: Dutch Lake 22-34H		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LW50427.D	1	11/25/25 16:33	JB	11/22/25 13:00	OP29364	GLW1186
Run #2							

	Initial Weight	Final Volume
Run #1	5.1 g	10.0 ml
Run #2		

DRO C10-C28, ORO > C28-C36

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (C10-C28)	170	4.4	mg/kg	
	TPH-ORO (> C28-C36)	137	6.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	98%		20-142%

RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FL-B01@3'		
Lab Sample ID:	DA77462-6A	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	88.8
Project:	ENSOCOWR: Dutch Lake 22-34H		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	48.2	6.0	mg/l	1	11/21/25	12/09/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Magnesium	6.00	3.0	mg/l	1	11/21/25	12/09/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Sodium	54.3	6.0	mg/l	1	11/21/25	12/09/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]

(1) Instrument QC Batch: MA19941
(2) Prep QC Batch: MP44604

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FL-B01@3'		
Lab Sample ID:	DA77462-6A	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	88.8
Project:	ENSOCOWR: Dutch Lake 22-34H		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio [a]	1.96		ratio	1	12/09/25 22:40	BR	USDA HANDBOOK 60

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FL-B01@3'		
Lab Sample ID:	DA77462-6B	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	88.8
Project:	ENSOCOWR: Dutch Lake 22-34H		

Hot Water Soluble Boron Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Boron	< 0.25	0.25	mg/l	1	11/22/25	12/08/25	CDL	SW846 6010C [1]	HWS-B [2]

(1) Instrument QC Batch: MA19931
(2) Prep QC Batch: MP44585

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FL-B01@3'		
Lab Sample ID:	DA77462-6C	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	88.8
Project:	ENSOCOWR: Dutch Lake 22-34H		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	4.7	0.22	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Barium	315	2.2	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Cadmium	0.14	0.11	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Copper	5.6	2.2	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Lead	6.1	0.55	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Nickel	6.2	2.2	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Selenium	< 0.22	0.22	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Silver	< 0.11	0.11	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Zinc	34.5	11	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA19906
(2) Prep QC Batch: MP44584

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FL-B01@3'		
Lab Sample ID:	DA77462-6C	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	88.8
Project:	ENSOCOWR: Dutch Lake 22-34H		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
pH-saturated paste method							
pH [a]	9.35		su	1	11/21/25 14:41	SG	WREP-125,4E-SATPASTE
prep: DEPT.OF AG, BOOK N9							
Specific Conductivity [a]	0.47	0.0010	mmhos/cm	1	11/21/25 14:41	SG	SM 2510B-2011 MOD
Chromium, Hexavalent [b]	< 0.43	0.43	mg/kg	1	12/21/25 16:15	ANJ	SW846 3060A/7199

(a) Saturated paste was generated on 11/21/25.
(b) Analysis performed at SGS Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FL-B03@3'		
Lab Sample ID:	DA77462-7	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
Method:	SW846 8260D	**Percent Solids:**	91.1
Project:	ENSOCOWR: Dutch Lake 22-34H		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	10V1954.D	1	11/26/25 06:24	MB	n/a	n/a	V0V31
Run #2							

	Initial Weight	Final Volume
Run #1	5.42 g	5.0 ml
Run #2		

VOA COGCC Table 915 soil list

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	< 0.0010	0.0010	mg/kg	
100-41-4	Ethylbenzene	< 0.0020	0.0020	mg/kg	
108-88-3	Toluene	< 0.0020	0.0020	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	< 0.0020	0.0020	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	< 0.0020	0.0020	mg/kg	
	m,p-Xylene	< 0.0020	0.0020	mg/kg	
95-47-6	o-Xylene	< 0.0020	0.0020	mg/kg	
1330-20-7	Xylene (total)	< 0.0020	0.0020	mg/kg	
	TPH-GRO (C6-C10)	< 0.20	0.20	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	102%		70-130%
17060-07-0	1,2-Dichloroethane-D4	105%		70-130%

RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FL-B03@3'		
Lab Sample ID:	DA77462-7	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
Method:	SW846 8270E SW846 3570	**Percent Solids:**	91.1
Project:	ENSOCOWR: Dutch Lake 22-34H		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	9G003210.D	1	11/24/25 00:10	ZL	11/22/25 16:00	OP29370	E9G125
Run #2							

	Initial Weight	Final Volume
Run #1	5.2 g	10.0 ml
Run #2		

COGCC Table 915-1 PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	< 0.0042	0.0042	mg/kg	
120-12-7	Anthracene	< 0.0042	0.0042	mg/kg	
56-55-3	Benzo(a)anthracene	< 0.0053	0.0053	mg/kg	
205-99-2	Benzo(b)fluoranthene	< 0.0042	0.0042	mg/kg	
207-08-9	Benzo(k)fluoranthene	< 0.0042	0.0042	mg/kg	
50-32-8	Benzo(a)pyrene	< 0.0042	0.0042	mg/kg	
218-01-9	Chrysene	< 0.0042	0.0042	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	< 0.0042	0.0042	mg/kg	
206-44-0	Fluoranthene	< 0.0042	0.0042	mg/kg	
86-73-7	Fluorene	< 0.0042	0.0042	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	< 0.0042	0.0042	mg/kg	
90-12-0	1-Methylnaphthalene	< 0.0042	0.0042	mg/kg	
91-57-6	2-Methylnaphthalene	< 0.0042	0.0042	mg/kg	
91-20-3	Naphthalene	< 0.0021	0.0021	mg/kg	
129-00-0	Pyrene	< 0.0042	0.0042	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	96%		22-138%
4165-60-0	Nitrobenzene-d5	108%		32-143%
1718-51-0	Terphenyl-d14	106%		48-149%

RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FL-B03@3'		
Lab Sample ID:	DA77462-7	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
Method:	SW846-8015C SW846 3570	**Percent Solids:**	91.1
Project:	ENSOCOWR: Dutch Lake 22-34H		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LW50428.D	1	11/25/25 16:46	JB	11/22/25 13:00	OP29364	GLW1186
Run #2							

	Initial Weight	Final Volume
Run #1	5.0 g	10.0 ml
Run #2		

DRO C10-C28, ORO > C28-C36

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (C10-C28)	< 4.4	4.4	mg/kg	
	TPH-ORO (> C28-C36)	< 6.6	6.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	97%		20-142%

RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FL-B03@3'		
Lab Sample ID:	DA77462-7A	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	91.1
Project:	ENSOCOWR: Dutch Lake 22-34H		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	52.8	6.0	mg/l	1	11/21/25	12/09/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Magnesium	6.75	3.0	mg/l	1	11/21/25	12/09/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Sodium	< 6.0	6.0	mg/l	1	11/21/25	12/09/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]

(1) Instrument QC Batch: MA19941
(2) Prep QC Batch: MP44604

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FL-B03@3'		
Lab Sample ID:	DA77462-7A	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	91.1
Project:	ENSOCOWR: Dutch Lake 22-34H		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio [a]	0.0310		ratio	1	12/09/25 22:41	BR	USDA HANDBOOK 60

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FL-B03@3'		
Lab Sample ID:	DA77462-7B	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	91.1
Project:	ENSOCOWR: Dutch Lake 22-34H		

Hot Water Soluble Boron Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Boron	< 0.25	0.25	mg/l	1	11/22/25	12/08/25	CDL	SW846 6010C [1]	HWS-B [2]

(1) Instrument QC Batch: MA19931
(2) Prep QC Batch: MP44585

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FL-B03@3'		
Lab Sample ID:	DA77462-7C	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	91.1
Project:	ENSOCOWR: Dutch Lake 22-34H		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	6.6	0.18	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Barium	167	1.8	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Cadmium	0.17	0.090	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Copper	5.4	1.8	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Lead	6.5	0.45	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Nickel	6.4	1.8	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Selenium	< 0.18	0.18	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Silver	< 0.090	0.090	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Zinc	18.2	9.0	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA19906
(2) Prep QC Batch: MP44584

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FL-B03@3'		
Lab Sample ID:	DA77462-7C	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	91.1
Project:	ENSOCOWR: Dutch Lake 22-34H		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
pH-saturated paste method							
pH [a]	8.04		su	1	11/21/25 14:41	SG	WREP-125,4E-SATPASTE
prep: DEPT.OF AG, BOOK N9							
Specific Conductivity [a]	0.24	0.0010	mmhos/cm	1	11/21/25 14:41	SG	SM 2510B-2011 MOD
Chromium, Hexavalent [b]	< 0.45	0.45	mg/kg	1	12/21/25 16:31	ANJ	SW846 3060A/7199

(a) Saturated paste was generated on 11/21/25.
(b) Analysis performed at SGS Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SEP-B01@3'		
Lab Sample ID:	DA77462-8	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
Method:	SW846 8260D	**Percent Solids:**	91.8
Project:	ENSOCOWR: Dutch Lake 22-34H		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	10V1955.D	1	11/26/25 06:49	MB	n/a	n/a	V0V31
Run #2							

	Initial Weight	Final Volume
Run #1	5.12 g	5.0 ml
Run #2		

VOA COGCC Table 915 soil list

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	< 0.0011	0.0011	mg/kg	
100-41-4	Ethylbenzene	< 0.0021	0.0021	mg/kg	
108-88-3	Toluene	< 0.0021	0.0021	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	< 0.0021	0.0021	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	< 0.0021	0.0021	mg/kg	
	m,p-Xylene	< 0.0021	0.0021	mg/kg	
95-47-6	o-Xylene	< 0.0021	0.0021	mg/kg	
1330-20-7	Xylene (total)	< 0.0021	0.0021	mg/kg	
	TPH-GRO (C6-C10)	< 0.21	0.21	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		70-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%
17060-07-0	1,2-Dichloroethane-D4	105%		70-130%

RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEP-B01@3'		
Lab Sample ID:	DA77462-8	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
Method:	SW846 8270E SW846 3570	**Percent Solids:**	91.8
Project:	ENSOCOWR: Dutch Lake 22-34H		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	9G003211.D	1	11/24/25 00:31	ZL	11/22/25 16:00	OP29370	E9G125
Run #2							

	Initial Weight	Final Volume
Run #1	5.1 g	10.0 ml
Run #2		

COGCC Table 915-1 PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	< 0.0043	0.0043	mg/kg	
120-12-7	Anthracene	< 0.0043	0.0043	mg/kg	
56-55-3	Benzo(a)anthracene	< 0.0053	0.0053	mg/kg	
205-99-2	Benzo(b)fluoranthene	< 0.0043	0.0043	mg/kg	
207-08-9	Benzo(k)fluoranthene	< 0.0043	0.0043	mg/kg	
50-32-8	Benzo(a)pyrene	< 0.0043	0.0043	mg/kg	
218-01-9	Chrysene	< 0.0043	0.0043	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	< 0.0043	0.0043	mg/kg	
206-44-0	Fluoranthene	< 0.0043	0.0043	mg/kg	
86-73-7	Fluorene	< 0.0043	0.0043	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	< 0.0043	0.0043	mg/kg	
90-12-0	1-Methylnaphthalene	< 0.0043	0.0043	mg/kg	
91-57-6	2-Methylnaphthalene	< 0.0043	0.0043	mg/kg	
91-20-3	Naphthalene	< 0.0021	0.0021	mg/kg	
129-00-0	Pyrene	< 0.0043	0.0043	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	98%		22-138%
4165-60-0	Nitrobenzene-d5	106%		32-143%
1718-51-0	Terphenyl-d14	105%		48-149%

RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEP-B01@3'		
Lab Sample ID:	DA77462-8	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
Method:	SW846-8015C SW846 3570	**Percent Solids:**	91.8
Project:	ENSOCOWR: Dutch Lake 22-34H		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LW50429.D	1	11/25/25 16:59	JB	11/22/25 13:00	OP29364	GLW1186
Run #2							

	Initial Weight	Final Volume
Run #1	5.1 g	10.0 ml
Run #2		

DRO C10-C28, ORO > C28-C36

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (C10-C28)	< 4.3	4.3	mg/kg	
	TPH-ORO (> C28-C36)	< 6.4	6.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	103%		20-142%

RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEP-B01@3'		
Lab Sample ID:	DA77462-8A	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	91.8
Project:	ENSOCOWR: Dutch Lake 22-34H		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	43.2	6.0	mg/l	1	11/21/25	12/09/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Magnesium	4.35	3.0	mg/l	1	11/21/25	12/09/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Sodium	34.8	6.0	mg/l	1	11/21/25	12/09/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]

(1) Instrument QC Batch: MA19941
(2) Prep QC Batch: MP44604

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SEP-B01@3'		
Lab Sample ID:	DA77462-8A	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	91.8
Project:	ENSOCOWR: Dutch Lake 22-34H		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio [a]	1.35		ratio	1	12/09/25 22:43	BR	USDA HANDBOOK 60

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SEP-B01@3'		
Lab Sample ID:	DA77462-8B	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	91.8
Project:	ENSOCOWR: Dutch Lake 22-34H		

Hot Water Soluble Boron Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Boron	< 0.25	0.25	mg/l	1	11/22/25	12/08/25	CDL	SW846 6010C [1]	HWS-B [2]

(1) Instrument QC Batch: MA19931
(2) Prep QC Batch: MP44585

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SEP-B01@3'		
Lab Sample ID:	DA77462-8C	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	91.8
Project:	ENSOCOWR: Dutch Lake 22-34H		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	3.2	0.21	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Barium	166	2.1	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Cadmium	0.15	0.10	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Copper	4.0	2.1	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Lead	4.4	0.51	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Nickel	3.8	2.1	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Selenium	< 0.21	0.21	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Silver	< 0.10	0.10	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Zinc	15.1	10	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA19906
(2) Prep QC Batch: MP44584

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SEP-B01@3'		
Lab Sample ID:	DA77462-8C	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	91.8
Project:	ENSOCOWR: Dutch Lake 22-34H		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
pH-saturated paste method							
pH [a]	8.10		su	1	11/21/25 14:41	SG	WREP-125,4E-SATPASTE
prep: DEPT.OF AG, BOOK N9							
Specific Conductivity [a]	0.31	0.0010	mmhos/cm	1	11/21/25 14:41	SG	SM 2510B-2011 MOD
Chromium, Hexavalent [b]	< 0.45	0.45	mg/kg	1	12/21/25 16:46	ANJ	SW846 3060A/7199

(a) Saturated paste was generated on 11/21/25.
(b) Analysis performed at SGS Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SEP-B02@3'		
Lab Sample ID:	DA77462-9	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
Method:	SW846 8260D	**Percent Solids:**	90.0
Project:	ENSOCOWR: Dutch Lake 22-34H		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	10V1956.D	1	11/26/25 07:15	MB	n/a	n/a	V0V31
Run #2							

	Initial Weight	Final Volume
Run #1	5.21 g	5.0 ml
Run #2		

VOA COGCC Table 915 soil list

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	< 0.0011	0.0011	mg/kg	
100-41-4	Ethylbenzene	< 0.0021	0.0021	mg/kg	
108-88-3	Toluene	< 0.0021	0.0021	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	< 0.0021	0.0021	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	< 0.0021	0.0021	mg/kg	
	m,p-Xylene	< 0.0021	0.0021	mg/kg	
95-47-6	o-Xylene	< 0.0021	0.0021	mg/kg	
1330-20-7	Xylene (total)	< 0.0021	0.0021	mg/kg	
	TPH-GRO (C6-C10)	< 0.21	0.21	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	99%		70-130%
17060-07-0	1,2-Dichloroethane-D4	106%		70-130%

RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEP-B02@3'		
Lab Sample ID:	DA77462-9	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
Method:	SW846 8270E SW846 3570	**Percent Solids:**	90.0
Project:	ENSOCOWR: Dutch Lake 22-34H		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	9G003212.D	1	11/24/25 00:51	ZL	11/22/25 16:00	OP29370	E9G125
Run #2							

	Initial Weight	Final Volume
Run #1	5.0 g	10.0 ml
Run #2		

COGCC Table 915-1 PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	< 0.0044	0.0044	mg/kg	
120-12-7	Anthracene	< 0.0044	0.0044	mg/kg	
56-55-3	Benzo(a)anthracene	< 0.0056	0.0056	mg/kg	
205-99-2	Benzo(b)fluoranthene	< 0.0044	0.0044	mg/kg	
207-08-9	Benzo(k)fluoranthene	< 0.0044	0.0044	mg/kg	
50-32-8	Benzo(a)pyrene	< 0.0044	0.0044	mg/kg	
218-01-9	Chrysene	< 0.0044	0.0044	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	< 0.0044	0.0044	mg/kg	
206-44-0	Fluoranthene	< 0.0044	0.0044	mg/kg	
86-73-7	Fluorene	< 0.0044	0.0044	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	< 0.0044	0.0044	mg/kg	
90-12-0	1-Methylnaphthalene	< 0.0044	0.0044	mg/kg	
91-57-6	2-Methylnaphthalene	< 0.0044	0.0044	mg/kg	
91-20-3	Naphthalene	< 0.0022	0.0022	mg/kg	
129-00-0	Pyrene	< 0.0044	0.0044	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	101%		22-138%
4165-60-0	Nitrobenzene-d5	109%		32-143%
1718-51-0	Terphenyl-d14	116%		48-149%

RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEP-B02@3'		
Lab Sample ID:	DA77462-9	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
Method:	SW846-8015C SW846 3570	**Percent Solids:**	90.0
Project:	ENSOCOWR: Dutch Lake 22-34H		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FN97732.D	1	11/25/25 12:27	JB	11/22/25 13:00	OP29365	GFN571
Run #2							

	Initial Weight	Final Volume
Run #1	5.1 g	10.0 ml
Run #2		

DRO C10-C28, ORO > C28-C36

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (C10-C28)	< 4.4	4.4	mg/kg	
	TPH-ORO (> C28-C36)	< 6.6	6.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		20-142%

RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SEP-B02@3'		
Lab Sample ID:	DA77462-9A	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	90.0
Project:	ENSOCOWR: Dutch Lake 22-34H		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	47.1	6.0	mg/l	1	11/21/25	12/09/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Magnesium	5.40	3.0	mg/l	1	11/21/25	12/09/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Sodium	< 6.0	6.0	mg/l	1	11/21/25	12/09/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]

(1) Instrument QC Batch: MA19941
(2) Prep QC Batch: MP44604

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SEP-B02@3'		
Lab Sample ID:	DA77462-9A	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	90.0
Project:	ENSOCOWR: Dutch Lake 22-34H		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio [a]	0.0441		ratio	1	12/09/25 22:44	BR	USDA HANDBOOK 60

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SEP-B02@3'		
Lab Sample ID:	DA77462-9B	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	90.0
Project:	ENSOCOWR: Dutch Lake 22-34H		

Hot Water Soluble Boron Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Boron	< 0.25	0.25	mg/l	1	11/22/25	12/08/25	CDL	SW846 6010C [1]	HWS-B [2]

(1) Instrument QC Batch: MA19931
(2) Prep QC Batch: MP44585

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SEP-B02@3'		
Lab Sample ID:	DA77462-9C	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	90.0
Project:	ENSOCOWR: Dutch Lake 22-34H		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	5.9	0.20	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Barium	87.3	2.0	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Cadmium	0.12	0.098	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Copper	4.7	2.0	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Lead	5.5	0.49	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Nickel	5.3	2.0	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Selenium	< 0.20	0.20	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Silver	< 0.098	0.098	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Zinc	17.3	9.8	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA19906
(2) Prep QC Batch: MP44584

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SEP-B02@3'		
Lab Sample ID:	DA77462-9C	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	90.0
Project:	ENSOCOWR: Dutch Lake 22-34H		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
pH-saturated paste method							
pH [a]	8.03		su	1	11/21/25 14:41	SG	WREP-125,4E-SATPASTE
prep: DEPT.OF AG, BOOK N9							
Specific Conductivity [a]	0.21	0.0010	mmhos/cm	1	11/21/25 14:41	SG	SM 2510B-2011 MOD
Chromium, Hexavalent [b]	< 0.43	0.43	mg/kg	1	12/21/25 17:02	ANJ	SW846 3060A/7199

(a) Saturated paste was generated on 11/21/25.
(b) Analysis performed at SGS Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SP-CS01@6'		
Lab Sample ID:	DA77462-10	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
Method:	SW846 8260D	**Percent Solids:**	83.5
Project:	ENSOCOWR: Dutch Lake 22-34H		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	10V1957.D	1	11/26/25 07:40	MB	n/a	n/a	V0V31
Run #2							

	Initial Weight	Final Volume
Run #1	5.36 g	5.0 ml
Run #2		

VOA COGCC Table 915 soil list

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	< 0.0011	0.0011	mg/kg	
100-41-4	Ethylbenzene	< 0.0022	0.0022	mg/kg	
108-88-3	Toluene	< 0.0022	0.0022	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	< 0.0022	0.0022	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	< 0.0022	0.0022	mg/kg	
	m,p-Xylene	< 0.0022	0.0022	mg/kg	
95-47-6	o-Xylene	< 0.0022	0.0022	mg/kg	
1330-20-7	Xylene (total)	< 0.0022	0.0022	mg/kg	
	TPH-GRO (C6-C10)	< 0.22	0.22	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		70-130%
2037-26-5	Toluene-D8	102%		70-130%
460-00-4	4-Bromofluorobenzene	104%		70-130%
17060-07-0	1,2-Dichloroethane-D4	104%		70-130%

RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SP-CS01@6'		
Lab Sample ID:	DA77462-10	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
Method:	SW846 8270E SW846 3570	**Percent Solids:**	83.5
Project:	ENSOCOWR: Dutch Lake 22-34H		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	9G003213.D	1	11/24/25 01:11	ZL	11/22/25 16:00	OP29370	E9G125
Run #2							

	Initial Weight	Final Volume
Run #1	5.2 g	10.0 ml
Run #2		

COGCC Table 915-1 PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	< 0.0046	0.0046	mg/kg	
120-12-7	Anthracene	< 0.0046	0.0046	mg/kg	
56-55-3	Benzo(a)anthracene	< 0.0058	0.0058	mg/kg	
205-99-2	Benzo(b)fluoranthene	< 0.0046	0.0046	mg/kg	
207-08-9	Benzo(k)fluoranthene	< 0.0046	0.0046	mg/kg	
50-32-8	Benzo(a)pyrene	< 0.0046	0.0046	mg/kg	
218-01-9	Chrysene	< 0.0046	0.0046	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	< 0.0046	0.0046	mg/kg	
206-44-0	Fluoranthene	< 0.0046	0.0046	mg/kg	
86-73-7	Fluorene	< 0.0046	0.0046	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	< 0.0046	0.0046	mg/kg	
90-12-0	1-Methylnaphthalene	< 0.0046	0.0046	mg/kg	
91-57-6	2-Methylnaphthalene	< 0.0046	0.0046	mg/kg	
91-20-3	Naphthalene	< 0.0023	0.0023	mg/kg	
129-00-0	Pyrene	< 0.0046	0.0046	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	102%		22-138%
4165-60-0	Nitrobenzene-d5	115%		32-143%
1718-51-0	Terphenyl-d14	103%		48-149%

RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SP-CS01@6'		
Lab Sample ID:	DA77462-10	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
Method:	SW846-8015C SW846 3570	**Percent Solids:**	83.5
Project:	ENSOCOWR: Dutch Lake 22-34H		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FN97733.D	1	11/25/25 12:41	JB	11/22/25 13:00	OP29365	GFN571
Run #2							

	Initial Weight	Final Volume
Run #1	5.1 g	10.0 ml
Run #2		

DRO C10-C28, ORO > C28-C36

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (C10-C28)	176	4.7	mg/kg	
	TPH-ORO (> C28-C36)	151	7.1	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		20-142%

RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SP-CS01@6'		
Lab Sample ID:	DA77462-10A	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	83.5
Project:	ENSOCOWR: Dutch Lake 22-34H		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	47.1	6.0	mg/l	1	11/21/25	12/09/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Magnesium	11.3	3.0	mg/l	1	11/21/25	12/09/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Sodium	99.8	6.0	mg/l	1	11/21/25	12/09/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]

(1) Instrument QC Batch: MA19941
(2) Prep QC Batch: MP44604

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SP-CS01@6'		
Lab Sample ID:	DA77462-10A	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	83.5
Project:	ENSOCOWR: Dutch Lake 22-34H		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio [a]	3.39		ratio	1	12/09/25 22:46	BR	USDA HANDBOOK 60

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SP-CS01@6'		
Lab Sample ID:	DA77462-10B	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	83.5
Project:	ENSOCOWR: Dutch Lake 22-34H		

Hot Water Soluble Boron Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Boron	< 0.25	0.25	mg/l	1	11/22/25	12/08/25	CDL	SW846 6010C [1]	HWS-B [2]

(1) Instrument QC Batch: MA19931
(2) Prep QC Batch: MP44585

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SP-CS01@6'		
Lab Sample ID:	DA77462-10C	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	83.5
Project:	ENSOCOWR: Dutch Lake 22-34H		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	4.2	0.22	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Barium	551	2.2	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Cadmium	0.12	0.11	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Copper	7.5	2.2	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Lead	10.5	0.56	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Nickel	6.2	2.2	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Selenium	< 0.22	0.22	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Silver	< 0.11	0.11	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Zinc	82.0	11	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA19906
(2) Prep QC Batch: MP44584

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SP-CS01@6'		
Lab Sample ID:	DA77462-10C	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	83.5
Project:	ENSOCOWR: Dutch Lake 22-34H		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
pH-saturated paste method							
pH [a]	8.09		su	1	11/21/25 14:41	SG	WREP-125,4E-SATPASTE
prep: DEPT.OF AG, BOOK N9							
Specific Conductivity [a]	0.82	0.0010	mmhos/cm	1	11/21/25 14:41	SG	SM 2510B-2011 MOD
Chromium, Hexavalent [b]	< 0.48	0.48	mg/kg	1	12/21/25 17:18	ANJ	SW846 3060A/7199

(a) Saturated paste was generated on 11/21/25.
(b) Analysis performed at SGS Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SP-CS02@3'		
Lab Sample ID:	DA77462-11	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
Method:	SW846 8260D	**Percent Solids:**	95.2
Project:	ENSOCOWR: Dutch Lake 22-34H		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	10V1974.D	1	11/26/25 16:19	MB	n/a	n/a	V0V32
Run #2							

	Initial Weight	Final Volume
Run #1	5.04 g	5.0 ml
Run #2		

VOA COGCC Table 915 soil list

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	< 0.0010	0.0010	mg/kg	
100-41-4	Ethylbenzene	< 0.0021	0.0021	mg/kg	
108-88-3	Toluene	< 0.0021	0.0021	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	0.0024	0.0021	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	< 0.0021	0.0021	mg/kg	
	m,p-Xylene	0.0033	0.0021	mg/kg	
95-47-6	o-Xylene	< 0.0021	0.0021	mg/kg	
1330-20-7	Xylene (total)	0.0048	0.0021	mg/kg	
	TPH-GRO (C6-C10)	< 0.21	0.21	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		70-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	99%		70-130%
17060-07-0	1,2-Dichloroethane-D4	102%		70-130%

RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SP-CS02@3'		
Lab Sample ID:	DA77462-11	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
Method:	SW846 8270E SW846 3570	**Percent Solids:**	95.2
Project:	ENSOCOWR: Dutch Lake 22-34H		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	9G003214.D	1	11/24/25 01:32	ZL	11/22/25 16:00	OP29370	E9G125
Run #2							

	Initial Weight	Final Volume
Run #1	5.0 g	10.0 ml
Run #2		

COGCC Table 915-1 PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	< 0.0042	0.0042	mg/kg	
120-12-7	Anthracene	< 0.0042	0.0042	mg/kg	
56-55-3	Benzo(a)anthracene	< 0.0053	0.0053	mg/kg	
205-99-2	Benzo(b)fluoranthene	< 0.0042	0.0042	mg/kg	
207-08-9	Benzo(k)fluoranthene	< 0.0042	0.0042	mg/kg	
50-32-8	Benzo(a)pyrene	< 0.0042	0.0042	mg/kg	
218-01-9	Chrysene	< 0.0042	0.0042	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	< 0.0042	0.0042	mg/kg	
206-44-0	Fluoranthene	< 0.0042	0.0042	mg/kg	
86-73-7	Fluorene	0.0053	0.0042	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	< 0.0042	0.0042	mg/kg	
90-12-0	1-Methylnaphthalene	0.0229	0.0042	mg/kg	
91-57-6	2-Methylnaphthalene	0.0212	0.0042	mg/kg	
91-20-3	Naphthalene	0.0025	0.0021	mg/kg	
129-00-0	Pyrene	< 0.0042	0.0042	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	87%		22-138%
4165-60-0	Nitrobenzene-d5	100%		32-143%
1718-51-0	Terphenyl-d14	106%		48-149%

RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SP-CS02@3'		
Lab Sample ID:	DA77462-11	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
Method:	SW846-8015C SW846 3570	**Percent Solids:**	95.2
Project:	ENSOCOWR: Dutch Lake 22-34H		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FN97734.D	1	11/25/25 12:54	JB	11/22/25 13:00	OP29365	GFN571
Run #2							

	Initial Weight	Final Volume
Run #1	5.0 g	10.0 ml
Run #2		

DRO C10-C28, ORO > C28-C36

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (C10-C28)	43.4	4.2	mg/kg	
	TPH-ORO (> C28-C36)	51.7	6.3	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	94%		20-142%

RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SP-CS02@3'		
Lab Sample ID:	DA77462-11A	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	95.2
Project:	ENSOCOWR: Dutch Lake 22-34H		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	39.4	6.0	mg/l	1	11/21/25	12/09/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Magnesium	4.80	3.0	mg/l	1	11/21/25	12/09/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Sodium	< 6.0	6.0	mg/l	1	11/21/25	12/09/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]

(1) Instrument QC Batch: MA19941
(2) Prep QC Batch: MP44604

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SP-CS02@3'		
Lab Sample ID:	DA77462-11A	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	95.2
Project:	ENSOCOWR: Dutch Lake 22-34H		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio [a]	0.0780		ratio	1	12/09/25 22:51	BR	USDA HANDBOOK 60

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SP-CS02@3'		
Lab Sample ID:	DA77462-11B	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	95.2
Project:	ENSOCOWR: Dutch Lake 22-34H		

Hot Water Soluble Boron Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Boron	< 0.25	0.25	mg/l	1	11/22/25	12/08/25	CDL	SW846 6010C [1]	HWS-B [2]

(1) Instrument QC Batch: MA19931
(2) Prep QC Batch: MP44585

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SP-CS02@3'		
Lab Sample ID:	DA77462-11C	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	95.2
Project:	ENSOCOWR: Dutch Lake 22-34H		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.9	0.19	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Barium	94.6	1.9	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Cadmium	< 0.095	0.095	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Copper	3.6	1.9	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Lead	5.7	0.48	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Nickel	4.0	1.9	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Selenium	< 0.19	0.19	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Silver	< 0.095	0.095	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]
Zinc	15.0	9.5	mg/kg	10	11/20/25	12/03/25	GS	SW846 6020B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA19906
(2) Prep QC Batch: MP44584

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	SP-CS02@3'		
Lab Sample ID:	DA77462-11C	**Date Sampled:**	11/20/25
Matrix:	SO - Soil	**Date Received:**	11/20/25
		Percent Solids:	95.2
Project:	ENSOCOWR: Dutch Lake 22-34H		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
pH-saturated paste method							
pH [a]	7.93		su	1	11/21/25 14:41	SG	WREP-125,4E-SATPASTE
prep: DEPT.OF AG, BOOK N9							
Specific Conductivity [a]	0.21	0.0010	mmhos/cm	1	11/21/25 14:41	SG	SM 2510B-2011 MOD
Chromium, Hexavalent [b]	< 0.41	0.41	mg/kg	1	12/21/25 17:34	ANJ	SW846 3060A/7199

(a) Saturated paste was generated on 11/21/25.
(b) Analysis performed at SGS Dayton, NJ.

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SGS AFE: 250528

CHAIN OF CUSTODY

SGS North America Inc. - Wheat Ridge
4036 Youngfield Street, Wheat Ridge, CO 80033
TEL: 303-425-6021 FAX: 303-425-6854
www.sgs.com/ehsusa

Page 1 of 1

Bottle Order Control #:
FED-EX Tracking #:
SGS Quote #:
SGS Job #: DA77462

Client / Reporting Information

Company: Ensolum
Street: 11049 W. 94th Ave.
City, State ZIP: Wheat Ridge, CO 80033
Project Contact: Tanna Lyon
Phone: 720 363 6476
Email: tlyon@ensolum.com
Sampler(s) Name(s): Max Buffy

Project Information

Project Name: Dutch Lake 22-34 H
Street:
City, State ZIP:
Project #: 09C2407120
Client Purchase Order #:
Project Manager: Tanna Lyon

Billing Information (if different from Report to)

Company: Civitas - CO
Street Address: 650 Southgate Dr.
City, State ZIP: Windsor, CO 80550
Attention: Seth Robinson

Requested Analysis (see TEST CODE sheet)

Full list 915-1

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB - Field Blank
EB-Equipment Blank
RB - Rinse Blank
TB - Trip Blank

	Field ID / Point of Collection	Collection Date	Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: NONE	HCl	NaOH	HNO3	H2SO4	DI Water	MEOH	ENCORE	Na2S2O3	NaHSO3	LAB USE ONLY
01	WH-B0126'	11/20/25	810	MB	SO	3	X										
02	WH-N0123'		815														
03	WH-S0123'		820														
04	WH-E0123'		825														
05	WH-W0123'		830														
06	FL-B0123'		835														
07	FL-B0323'		900														
08	SEP-B0123'		910														
09	SEP-B0223'		912														
10	SP-CS0126'		840														
11	SP-CS0223'	↓	922	↓	↓	↓	↓										

Turnaround Time (Business days)

- [X] Standard 10 Business Days
- [ ] 5 Business Days RUSH
- [ ] 3 Business Days RUSH
- [ ] 2 Business Days RUSH
- [ ] 1 Business Day EMERGENC'

Special Reporting Instructions
- [ ] Report in PPB
- [ ] Report in PPM
- [ ] Report MDLs

Emergency & Rush T/A data available via LabLink. RUSH TAT approval needed.

Data Deliverable Information

- [ ] Commercial "A" (Level 1, Results Only)
- [ ] Commercial "B" (Level 2, Results + QC Summary)
- [ ] COMMBN (Results/QC/Narrative)
- [ ] COMMBN+ [Results/QC/Narrative (+ chromatograms)]
- [ ] REDT2
- [ ] FULT1
- [ ] EDD Format

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery. HD

Relinquished by Sampler:	Date/Time:	Received By:	Relinquished By:	Date/Time:	Received By:
1 M. Buffy	11/20/25 1502	1 11-20 15:10	2		2
Relinquished by Sampler:	Date/Time:	Received By:	Relinquished By:	Date/Time:	Received By:
3		3	4		4

Custody Seal # Intact [X] Not Intact [ ] Absent [ ]
Preserved where applicable [X] Cooler Temp. °C: 4 Therm. ID: IR88 On Ice [X]

http://www.sgs.com/en/terms-and-conditions

DA77462: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: da77462 **Client:** ENSOLUM **Project:** DUTCH LAKE 22-34 H

Date / Time Received: 11/20/2025 3:10:00 PM **Delivery Method:** hd **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (4.0);

Cooler Temps (Corrected) °C: Cooler 1: (4.0);

Cooler Informatio	Y	or	N
1. Custody Seals Present:	☑		☐
2. Custody Seals Intact:	☑		☐
3. Temp criteria achieved:	☑		☐
4. Cooler temp verification:	IR Gun		
5. Cooler media:	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑

	W	or	S	N/A
3. Type of TB Received:	☐		☐	☑

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles:	☑		☐	
2. Samples presented properly:	☑		☐	
3. Suffiient volume/containers recv'd for analysis:	☑		☐	
4. Condition of sample:	Intact			
5. Sample recv'd within HT:	☑		☐	
6. Dates/Times/IDs on COC match sample label:	☑		☐	
7. VOCs have headspace:	☐		☐	☑
8. Bottles received for unspecified tests:	☐		☑	
9. Compositing instructions clear:	☐		☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐		☑	☐
11. % Solids Jar Received?	☐		☑	☐

Misc Information

Number of Encores: 25 Gram 5 Gram

Number of Lab Filtered Metals

Test Strip Lot #s: pH 0-3: _____ pH 10-12: _____ Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot _____

Comments 8260 soils will be in freezer by 7PM.

SM001
Rev. Date 05/04/17

Technician: VALENTIN Date: 11/20/2025 3:13:58 PM Reviewer: _____ Date: _____

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: DA77462
Account: CIVITCOW Civitas
Project: ENSOCOWR: Dutch Lake 22-34H

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V0V31-MB	10V1933.D	1	11/25/25	MB	n/a	n/a	V0V31

The QC reported here applies to the following samples: **Method:** SW846 8260D

DA77462-1, DA77462-2, DA77462-3, DA77462-4, DA77462-5, DA77462-6, DA77462-7, DA77462-8, DA77462-9, DA77462-10

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	2.0	ug/kg	
108-88-3	Toluene	ND	2.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/kg	
	m,p-Xylene	ND	2.0	ug/kg	
95-47-6	o-Xylene	ND	2.0	ug/kg	
1330-20-7	Xylene (total)	ND	2.0	ug/kg	
	TPH-GRO (C6-C10)	ND	200	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	97%	70-130%
2037-26-5	Toluene-D8	100%	70-130%
460-00-4	4-Bromofluorobenzene	98%	70-130%
17060-07-0	1,2-Dichloroethane-D4	107%	70-130%

Method Blank Summary

Job Number: DA77462
Account: CIVITCOW Civitas
Project: ENSOCOWR: Dutch Lake 22-34H

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V0V32-MB	10V1967.D	1	11/26/25	MB	n/a	n/a	V0V32

The QC reported here applies to the following samples: **Method:** SW846 8260D

DA77462-11

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	2.0	ug/kg	
108-88-3	Toluene	1.1	2.0	ug/kg	J
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/kg	
	m,p-Xylene	ND	2.0	ug/kg	
95-47-6	o-Xylene	ND	2.0	ug/kg	
1330-20-7	Xylene (total)	ND	2.0	ug/kg	
	TPH-GRO (C6-C10)	ND	200	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	70-130%
2037-26-5	Toluene-D8	101%	70-130%
460-00-4	4-Bromofluorobenzene	99%	70-130%
17060-07-0	1,2-Dichloroethane-D4	106%	70-130%

Blank Spike Summary

Job Number: DA77462
Account: CIVITCOW Civitas
Project: ENSOCOWR: Dutch Lake 22-34H

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V0V31-BS	10V1929.D	1	11/25/25	MB	n/a	n/a	V0V31

The QC reported here applies to the following samples: **Method:** SW846 8260D

DA77462-1, DA77462-2, DA77462-3, DA77462-4, DA77462-5, DA77462-6, DA77462-7, DA77462-8, DA77462-9, DA77462-10

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
	TPH-GRO (C6-C10)	2000	2480	124	64-144

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	70-130%
2037-26-5	Toluene-D8	103%	70-130%
460-00-4	4-Bromofluorobenzene	100%	70-130%
17060-07-0	1,2-Dichloroethane-D4	97%	70-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: DA77462
Account: CIVITCOW Civitas
Project: ENSOCOWR: Dutch Lake 22-34H

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V0V31-BS	10V1930.D	1	11/25/25	MB	n/a	n/a	V0V31

The QC reported here applies to the following samples: **Method:** SW846 8260D

DA77462-1, DA77462-2, DA77462-3, DA77462-4, DA77462-5, DA77462-6, DA77462-7, DA77462-8, DA77462-9, DA77462-10

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	50	46.8	94	70-130
100-41-4	Ethylbenzene	50	48.2	96	70-130
108-88-3	Toluene	50	47.4	95	70-130
95-63-6	1,2,4-Trimethylbenzene	50	48.0	96	70-134
108-67-8	1,3,5-Trimethylbenzene	50	49.0	98	70-134
	m,p-Xylene	100	97.5	98	70-130
95-47-6	o-Xylene	50	49.5	99	70-136
1330-20-7	Xylene (total)	150	147	98	70-131

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	70-130%
2037-26-5	Toluene-D8	101%	70-130%
460-00-4	4-Bromofluorobenzene	98%	70-130%
17060-07-0	1,2-Dichloroethane-D4	99%	70-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: DA77462
Account: CIVITCOW Civitas
Project: ENSOCOWR: Dutch Lake 22-34H

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V0V32-BS	10V1965.D	1	11/26/25	MB	n/a	n/a	V0V32

The QC reported here applies to the following samples: **Method:** SW846 8260D

DA77462-11

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	50	47.4	95	70-130
100-41-4	Ethylbenzene	50	49.0	98	70-130
108-88-3	Toluene	50	49.1	98	70-130
95-63-6	1,2,4-Trimethylbenzene	50	49.8	100	70-134
108-67-8	1,3,5-Trimethylbenzene	50	50.5	101	70-134
	m,p-Xylene	100	100	100	70-130
95-47-6	o-Xylene	50	50.4	101	70-136
1330-20-7	Xylene (total)	150	150	100	70-131

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	70-130%
2037-26-5	Toluene-D8	101%	70-130%
460-00-4	4-Bromofluorobenzene	97%	70-130%
17060-07-0	1,2-Dichloroethane-D4	100%	70-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: DA77462
Account: CIVITCOW Civitas
Project: ENSOCOWR: Dutch Lake 22-34H

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V0V32-BS	10V1966.D	1	11/26/25	MB	n/a	n/a	V0V32

The QC reported here applies to the following samples: **Method:** SW846 8260D

DA77462-11

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
	TPH-GRO (C6-C10)	2000	1650	83	64-144

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	96%	70-130%
2037-26-5	Toluene-D8	100%	70-130%
460-00-4	4-Bromofluorobenzene	99%	70-130%
17060-07-0	1,2-Dichloroethane-D4	96%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA77462
Account: CIVITCOW Civitas
Project: ENSOCOWR: Dutch Lake 22-34H

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
DA77462-3MS	10V1936.D	1	11/25/25	MB	n/a	n/a	V0V31
DA77462-3MSD	10V1937.D	1	11/25/25	MB	n/a	n/a	V0V31
DA77462-3	10V1934.D	1	11/25/25	MB	n/a	n/a	V0V31

The QC reported here applies to the following samples: **Method:** SW846 8260D

DA77462-1, DA77462-2, DA77462-3, DA77462-4, DA77462-5, DA77462-6, DA77462-7, DA77462-8, DA77462-9, DA77462-10

CAS No.	Compound	DA77462-3 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	< 1.1		54.3	52.2	96	52.9	53.6	101	3	44-150/44
100-41-4	Ethylbenzene	< 2.2		54.3	53.0	98	52.9	54.4	103	3	41-149/49
108-88-3	Toluene	< 2.2		54.3	53.5	98	52.9	54.8	104	2	40-149/47
95-63-6	1,2,4-Trimethylbenzene	< 2.2		54.3	51.3	94	52.9	53.8	102	5	26-164/57
108-67-8	1,3,5-Trimethylbenzene	< 2.2		54.3	52.8	97	52.9	55.1	104	4	30-161/60
	m,p-Xylene	< 2.2		109	108	99	106	110	104	2	36-152/49
95-47-6	o-Xylene	< 2.2		54.3	53.7	99	52.9	54.9	104	2	33-168/49
1330-20-7	Xylene (total)	< 2.2		163	161	99	159	165	104	2	36-157/49

CAS No.	Surrogate Recoveries	MS	MSD	DA77462-3	Limits
1868-53-7	Dibromofluoromethane	98%	101%	98%	70-130%
2037-26-5	Toluene-D8	101%	100%	100%	70-130%
460-00-4	4-Bromofluorobenzene	98%	100%	101%	70-130%
17060-07-0	1,2-Dichloroethane-D4	94%	102%	104%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA77462
Account: CIVITCOW Civitas
Project: ENSOCOWR: Dutch Lake 22-34H

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
DA77462-5MS	10V1938.D	1	11/25/25	MB	n/a	n/a	V0V31
DA77462-5MSD	10V1939.D	1	11/26/25	MB	n/a	n/a	V0V31
DA77462-5	10V1935.D	1	11/25/25	MB	n/a	n/a	V0V31

The QC reported here applies to the following samples: **Method:** SW846 8260D

DA77462-1, DA77462-2, DA77462-3, DA77462-4, DA77462-5, DA77462-6, DA77462-7, DA77462-8, DA77462-9, DA77462-10

CAS No.	Compound	DA77462-5 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	< 250		2440	2260	92	2480	2270	91	0	18-158/83

CAS No.	Surrogate Recoveries	MS	MSD	DA77462-5	Limits
1868-53-7	Dibromofluoromethane	100%	98%	94%	70-130%
2037-26-5	Toluene-D8	100%	101%	100%	70-130%
460-00-4	4-Bromofluorobenzene	98%	101%	101%	70-130%
17060-07-0	1,2-Dichloroethane-D4	99%	99%	106%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA77462
Account: CIVITCOW Civitas
Project: ENSOCOWR: Dutch Lake 22-34H

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
DA77467-17MS	10V1970.D	1	11/26/25	MB	n/a	n/a	V0V32
DA77467-17MSD	10V1971.D	1	11/26/25	MB	n/a	n/a	V0V32
DA77467-17	10V1968.D	1	11/26/25	MB	n/a	n/a	V0V32

The QC reported here applies to the following samples: **Method:** SW846 8260D

DA77462-11

CAS No.	Compound	DA77467-17 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	< 1.0		54	56.5	105	51.6	52.6	102	7	44-150/44
100-41-4	Ethylbenzene	< 2.1		54	58.1	108	51.6	54.5	106	6	41-149/49
108-88-3	Toluene	< 2.1		54	57.9	107	51.6	54.4	105	6	40-149/47
95-63-6	1,2,4-Trimethylbenzene	< 2.1		54	58.9	109	51.6	54.0	105	9	26-164/57
108-67-8	1,3,5-Trimethylbenzene	< 2.1		54	60.2	112	51.6	55.5	108	8	30-161/60
	m,p-Xylene	2.4		108	119	108	103	112	106	6	36-152/49
95-47-6	o-Xylene	< 2.1		54	58.5	108	51.6	55.6	108	5	33-168/49
1330-20-7	Xylene (total)	2.4		162	177	108	155	168	107	5	36-157/49

CAS No.	Surrogate Recoveries	MS	MSD	DA77467-17	Limits
1868-53-7	Dibromofluoromethane	99%	101%	95%	70-130%
2037-26-5	Toluene-D8	100%	101%	100%	70-130%
460-00-4	4-Bromofluorobenzene	100%	100%	101%	70-130%
17060-07-0	1,2-Dichloroethane-D4	106%	106%	100%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA77462
Account: CIVITCOW Civitas
Project: ENSOCOWR: Dutch Lake 22-34H

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
DA77467-20MS	10V1972.D	1	11/26/25	MB	n/a	n/a	V0V32
DA77467-20MSD	10V1973.D	1	11/26/25	MB	n/a	n/a	V0V32
DA77467-20	10V1969.D	1	11/26/25	MB	n/a	n/a	V0V32

The QC reported here applies to the following samples: **Method:** SW846 8260D

DA77462-11

CAS No.	Compound	DA77467-20 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	< 230		2120	1950	92	2100	1860	89	5	18-158/83

CAS No.	Surrogate Recoveries	MS	MSD	DA77467-20	Limits
1868-53-7	Dibromofluoromethane	99%	98%	95%	70-130%
2037-26-5	Toluene-D8	100%	100%	100%	70-130%
460-00-4	4-Bromofluorobenzene	99%	101%	99%	70-130%
17060-07-0	1,2-Dichloroethane-D4	100%	105%	98%	70-130%

* = Outside of Control Limits.

MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: DA77462
Account: CIVITCOW Civitas
Project: ENSOCOWR: Dutch Lake 22-34H

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP29370-MB	9G003197.D	1	11/23/25	ZL	11/22/25	OP29370	E9G125

The QC reported here applies to the following samples: **Method:** SW846 8270E

DA77462-1, DA77462-2, DA77462-3, DA77462-4, DA77462-5, DA77462-6, DA77462-7, DA77462-8, DA77462-9, DA77462-10, DA77462-11

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/kg	
120-12-7	Anthracene	ND	4.0	ug/kg	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	4.0	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	4.0	ug/kg	
50-32-8	Benzo(a)pyrene	ND	4.0	ug/kg	
218-01-9	Chrysene	ND	4.0	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	4.0	ug/kg	
206-44-0	Fluoranthene	ND	4.0	ug/kg	
86-73-7	Fluorene	ND	4.0	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.0	ug/kg	
90-12-0	1-Methylnaphthalene	ND	4.0	ug/kg	
91-57-6	2-Methylnaphthalene	ND	4.0	ug/kg	
91-20-3	Naphthalene	ND	2.0	ug/kg	
129-00-0	Pyrene	ND	4.0	ug/kg	

CAS No.	Surrogate Recoveries		Limits
321-60-8	2-Fluorobiphenyl	82%	22-138%
4165-60-0	Nitrobenzene-d5	92%	32-143%
1718-51-0	Terphenyl-d14	115%	48-149%

Blank Spike Summary

Job Number: DA77462
Account: CIVITCOW Civitas
Project: ENSOCOWR: Dutch Lake 22-34H

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP29370-BS	9G003198.D	1	11/23/25	ZL	11/22/25	OP29370	E9G125

The QC reported here applies to the following samples: **Method:** SW846 8270E

DA77462-1, DA77462-2, DA77462-3, DA77462-4, DA77462-5, DA77462-6, DA77462-7, DA77462-8, DA77462-9, DA77462-10, DA77462-11

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
83-32-9	Acenaphthene	200	211	106	46-152
120-12-7	Anthracene	200	269	135	65-147
56-55-3	Benzo(a)anthracene	200	256	128	64-144
205-99-2	Benzo(b)fluoranthene	200	258	129	70-154
207-08-9	Benzo(k)fluoranthene	200	262	131	70-158
50-32-8	Benzo(a)pyrene	200	261	131	64-159
218-01-9	Chrysene	200	274	137	70-156
53-70-3	Dibenzo(a,h)anthracene	200	236	118	63-156
206-44-0	Fluoranthene	200	257	129	62-155
86-73-7	Fluorene	200	229	115	55-151
193-39-5	Indeno(1,2,3-cd)pyrene	200	228	114	67-156
90-12-0	1-Methylnaphthalene	200	192	96	21-168
91-57-6	2-Methylnaphthalene	200	188	94	18-161
91-20-3	Naphthalene	200	203	102	2-173
129-00-0	Pyrene	200	271	136	61-158

CAS No.	Surrogate Recoveries	BSP	Limits
321-60-8	2-Fluorobiphenyl	93%	22-138%
4165-60-0	Nitrobenzene-d5	101%	32-143%
1718-51-0	Terphenyl-d14	109%	48-149%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA77462
Account: CIVITCOW Civitas
Project: ENSOCOWR: Dutch Lake 22-34H

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP29370-MS	9G003199.D	1	11/23/25	ZL	11/22/25	OP29370	E9G125
OP29370-MSD	9G003200.D	1	11/23/25	ZL	11/22/25	OP29370	E9G125
DA77464-1	9G003201.D	1	11/23/25	ZL	11/22/25	OP29370	E9G125

The QC reported here applies to the following samples: **Method:** SW846 8270E

DA77462-1, DA77462-2, DA77462-3, DA77462-4, DA77462-5, DA77462-6, DA77462-7, DA77462-8, DA77462-9, DA77462-10, DA77462-11

CAS No.	Compound	DA77464-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	< 4.2		218	261	120	218	250	115	4	30-148/32
120-12-7	Anthracene	< 4.2		218	276	127	218	268	123	3	40-148/33
56-55-3	Benzo(a)anthracene	< 5.2		218	245	112	218	250	115	2	44-144/32
205-99-2	Benzo(b)fluoranthene	< 4.2		218	237	109	218	245	112	3	36-166/43
207-08-9	Benzo(k)fluoranthene	< 4.2		218	247	113	218	252	116	2	43-165/41
50-32-8	Benzo(a)pyrene	< 4.2		218	238	109	218	244	112	2	41-161/37
218-01-9	Chrysene	< 4.2		218	276	127	218	271	124	2	52-152/32
53-70-3	Dibenzo(a,h)anthracene	2.6		218	205	93	218	209	95	2	42-155/36
206-44-0	Fluoranthene	< 4.2		218	259	119	218	256	118	1	40-151/34
86-73-7	Fluorene	< 4.2		218	263	121	218	259	119	2	34-149/34
193-39-5	Indeno(1,2,3-cd)pyrene	2.8		218	186	84	218	196	89	5	41-156/37
90-12-0	1-Methylnaphthalene	< 4.2		218	230	106	218	223	102	3	23-149/36
91-57-6	2-Methylnaphthalene	< 4.2		218	223	102	218	219	101	2	18-144/35
91-20-3	Naphthalene	< 2.1		218	248	114	218	236	108	5	18-150/32
129-00-0	Pyrene	< 4.2		218	276	127	218	268	123	3	38-156/33

CAS No.	Surrogate Recoveries	MS	MSD	DA77464-1	Limits
321-60-8	2-Fluorobiphenyl	104%	91%	107%	22-138%
4165-60-0	Nitrobenzene-d5	108%	96%	111%	32-143%
1718-51-0	Terphenyl-d14	105%	99%	112%	48-149%

* = Outside of Control Limits.

GC/LC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: DA77462
Account: CIVITCOW Civitas
Project: ENSOCOWR: Dutch Lake 22-34H

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP29365-MB	LW50558.D	1	12/01/25	JB	11/21/25	OP29365	GLW1190

The QC reported here applies to the following samples: **Method:** SW846-8015C

DA77462-9, DA77462-10, DA77462-11

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (C10-C28)	ND	4.0	mg/kg	
	TPH-ORO (> C28-C36)	ND	6.0	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	102%	20-142%

Method Blank Summary

Job Number: DA77462
Account: CIVITCOW Civitas
Project: ENSOCOWR: Dutch Lake 22-34H

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP29364-MB	LW50401.D	1	11/25/25	JB	11/22/25	OP29364	GLW1186

The QC reported here applies to the following samples: **Method:** SW846-8015C

DA77462-1, DA77462-2, DA77462-3, DA77462-4, DA77462-5, DA77462-6, DA77462-7, DA77462-8

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (C10-C28)	ND	4.0	mg/kg	
	TPH-ORO (> C28-C36)	ND	6.0	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	95%	20-142%

Blank Spike Summary

Job Number: DA77462
Account: CIVITCOW Civitas
Project: ENSOCOWR: Dutch Lake 22-34H

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP29364-BS1	LW50402.D	1	11/25/25	JB	11/22/25	OP29364	GLW1186

The QC reported here applies to the following samples: **Method:** SW846-8015C

DA77462-1, DA77462-2, DA77462-3, DA77462-4, DA77462-5, DA77462-6, DA77462-7, DA77462-8

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-DRO (C10-C28)	200	196	98	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	107%	20-142%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: DA77462
Account: CIVITCOW Civitas
Project: ENSOCOWR: Dutch Lake 22-34H

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP29365-BS1	FN97726.D	1	11/25/25	JB	11/22/25	OP29365	GFN571

The QC reported here applies to the following samples: **Method:** SW846-8015C

DA77462-9, DA77462-10, DA77462-11

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-DRO (C10-C28)	200	172	86	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	96%	20-142%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: DA77462
Account: CIVITCOW Civitas
Project: ENSOCOWR: Dutch Lake 22-34H

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP29364-BS2	LW50403.D	1	11/25/25	JB	11/22/25	OP29364	GLW1186

The QC reported here applies to the following samples: **Method:** SW846-8015C

DA77462-1, DA77462-2, DA77462-3, DA77462-4, DA77462-5, DA77462-6, DA77462-7, DA77462-8

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-ORO (> C28-C36)	200	233	117	70-138

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	100%	20-142%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: DA77462
Account: CIVITCOW Civitas
Project: ENSOCOWR: Dutch Lake 22-34H

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP29365-BS2	FN97727.D	1	11/25/25	JB	11/22/25	OP29365	GFN571

The QC reported here applies to the following samples: **Method:** SW846-8015C

DA77462-9, DA77462-10, DA77462-11

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-ORO (> C28-C36)	200	185	93	70-138

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	95%	20-142%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA77462
Account: CIVITCOW Civitas
Project: ENSOCOWR: Dutch Lake 22-34H

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP29364-MS1	LW50404.D	1	11/25/25	JB	11/22/25	OP29364	GLW1186
OP29364-MSD1	LW50405.D	1	11/25/25	JB	11/22/25	OP29364	GLW1186
DA77430-15	LW50408.D	1	11/25/25	JB	11/22/25	OP29364	GLW1186

The QC reported here applies to the following samples: **Method:** SW846-8015C

DA77462-1, DA77462-2, DA77462-3, DA77462-4, DA77462-5, DA77462-6, DA77462-7, DA77462-8

CAS No.	Compound	DA77430-15 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	5.49		197	177	87	202	207	100	16	59-130/30

CAS No.	Surrogate Recoveries	MS	MSD	DA77430-15	Limits
84-15-1	o-Terphenyl	102%	104%	100%	20-142%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA77462
Account: CIVITCOW Civitas
Project: ENSOCOWR: Dutch Lake 22-34H

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP29365-MS1	FN97728.D	1	11/25/25	JB	11/22/25	OP29365	GFN571
OP29365-MSD1	FN97729.D	1	11/25/25	JB	11/22/25	OP29365	GFN571
DA77462-9	FN97732.D	1	11/25/25	JB	11/22/25	OP29365	GFN571

The QC reported here applies to the following samples: **Method:** SW846-8015C

DA77462-9, DA77462-10, DA77462-11

CAS No.	Compound	DA77462-9 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	< 4.4		220	203	92	217	189	87	7	59-130/30

CAS No.	Surrogate Recoveries	MS	MSD	DA77462-9	Limits
84-15-1	o-Terphenyl	90%	86%	86%	20-142%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA77462
Account: CIVITCOW Civitas
Project: ENSOCOWR: Dutch Lake 22-34H

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP29364-MS2	LW50406.D	1	11/25/25	JB	11/22/25	OP29364	GLW1186
OP29364-MSD2	LW50407.D	1	11/25/25	JB	11/22/25	OP29364	GLW1186
DA77430-16	LW50409.D	1	11/25/25	JB	11/22/25	OP29364	GLW1186

The QC reported here applies to the following samples: **Method:** SW846-8015C

DA77462-1, DA77462-2, DA77462-3, DA77462-4, DA77462-5, DA77462-6, DA77462-7, DA77462-8

CAS No.	Compound	DA77430-16 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-ORO (> C28-C36)	< 6.1		203	232	114	205	302	148	26	70-153/30

CAS No.	Surrogate Recoveries	MS	MSD	DA77430-16	Limits
84-15-1	o-Terphenyl	95%	93%	96%	20-142%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA77462
Account: CIVITCOW Civitas
Project: ENSOCOWR: Dutch Lake 22-34H

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP29365-MS2	FN97730.D	1	11/25/25	JB	11/22/25	OP29365	GFN571
OP29365-MSD2	FN97731.D	1	11/25/25	JB	11/22/25	OP29365	GFN571
DA77462-10	FN97733.D	1	11/25/25	JB	11/22/25	OP29365	GFN571

The QC reported here applies to the following samples: **Method:** SW846-8015C

DA77462-9, DA77462-10, DA77462-11

CAS No.	Compound	DA77462-10 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-ORO (> C28-C36)	151		240	325	73	236	364	90	11	70-153/30

CAS No.	Surrogate Recoveries	MS	MSD	DA77462-10	Limits
84-15-1	o-Terphenyl	86%	87%	86%	20-142%

* = Outside of Control Limits.

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: DA77462
Account: CIVITCOW - Civitas
Project: ENSOCOWR: Dutch Lake 22-34H

QC Batch ID: MP44584
Matrix Type: SOLID

Methods: SW846 6020B
Units: mg/kg

Prep Date: 11/20/25

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	.52	5		
Antimony	0.40	.01	.05		
Arsenic	0.20	.05	.05	0.037	<0.20
Barium	2.0	.096	.24	0.096	<2.0
Beryllium	0.20	.077	.04		
Boron	40	18	10		
Cadmium	0.10	.03	.04	0.0061	<0.10
Calcium	400	25	30		
Chromium	2.0	.087	.6		
Cobalt	0.20	.04	.025		
Copper	2.0	.05	.25	0.088	<2.0
Iron	20	1.6	15		
Lead	0.50	.094	.2	0.015	<0.50
Magnesium	100	10	10		
Manganese	1.0	.079	.2		
Molybdenum	1.0	.037	.27		
Nickel	2.0	.098	.2	0.035	<2.0
Phosphorus	60	7.6	25		
Potassium	200	2	25		
Selenium	0.20	.05	.05	0.028	<0.20
Silver	0.10	.0081	.03	0.0035	<0.10
Sodium	500	10	30		
Strontium	20	.1	1		
Thallium	0.20	.032	.04		
Tin	10	.22	4		
Titanium	2.0	.05	.3		
Uranium	0.20	.015	.1		
Vanadium	1.0	.14	.2		
Zinc	10	.05	1	0.33	<10

Associated samples MP44584: DA77462-1C, DA77462-2C, DA77462-3C, DA77462-4C, DA77462-5C, DA77462-6C, DA77462-7C, DA77462-8C, DA77462-9C, DA77462-10C, DA77462-11C

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA77462
Account: CIVITCOW - Civitas
Project: ENSOCOWR: Dutch Lake 22-34H

QC Batch ID: MP44584 Methods: SW846 6020B
Matrix Type: SOLID Units: mg/kg

Prep Date: 11/20/25

Metal	DA77463-1 Original	MS	Spikelot ICPMS6	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic	5.5	102	100	96.2	75-125
Barium	186	394	201	103.7	75-125
Beryllium					
Boron					
Cadmium	0.21	52.2	50.1	103.7	75-125
Calcium					
Chromium					
Cobalt					
Copper	12.0	60.4	50.1	96.5	75-125
Iron					
Lead	9.8	112	100	101.9	75-125
Magnesium					
Manganese					
Molybdenum					
Nickel	14.9	63.6	50.1	97.1	75-125
Phosphorus					
Potassium					
Selenium	0.24	94.1	100	93.6	75-125
Silver	0.034	20.4	20.1	101.5	75-125
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Uranium					
Vanadium					
Zinc	43.9	94.3	50.1	100.5	75-125

Associated samples MP44584: DA77462-1C, DA77462-2C, DA77462-3C, DA77462-4C, DA77462-5C, DA77462-6C, DA77462-7C, DA77462-8C, DA77462-9C, DA77462-10C, DA77462-11C

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA77462
Account: CIVITCOW - Civitas
Project: ENSOCOWR: Dutch Lake 22-34H

QC Batch ID: MP44584
Matrix Type: SOLID

Methods: SW846 6020B
Units: mg/kg

Prep Date: 11/20/25

Metal	DA77463-1 Original	MSD	Spikelot ICPMS6	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	5.5	107	105	96.5	4.8	20
Barium	186	407	210	105.0	3.2	20
Beryllium						
Boron						
Cadmium	0.21	54.9	52.6	104.0	5.0	20
Calcium						
Chromium						
Cobalt						
Copper	12.0	63.9	52.6	98.7	5.6	20
Iron						
Lead	9.8	118	105	102.9	5.2	20
Magnesium						
Manganese						
Molybdenum						
Nickel	14.9	66.6	52.6	98.3	4.6	20
Phosphorus						
Potassium						
Selenium	0.24	100	105	94.8	6.1	20
Silver	0.034	21.5	21	102.0	5.3	20
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Uranium						
Vanadium						
Zinc	43.9	98.2	52.6	103.2	4.1	20

Associated samples MP44584: DA77462-1C, DA77462-2C, DA77462-3C, DA77462-4C, DA77462-5C, DA77462-6C, DA77462-7C, DA77462-8C, DA77462-9C, DA77462-10C, DA77462-11C

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: DA77462
Account: CIVITCOW - Civitas
Project: ENSOCOWR: Dutch Lake 22-34H

QC Batch ID: MP44584
Matrix Type: SOLID

Methods: SW846 6020B
Units: mg/kg

Prep Date: 11/20/25

Metal	BSP Result	Spikelot ICPMS6	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	104	100	104.0	80-120
Barium	205	200	102.5	80-120
Beryllium				
Boron				
Cadmium	51.6	50	103.2	80-120
Calcium				
Chromium				
Cobalt				
Copper	52.7	50	105.4	80-120
Iron				
Lead	104	100	104.0	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel	52.4	50	104.8	80-120
Phosphorus				
Potassium				
Selenium	103	100	103.0	80-120
Silver	20.5	20	102.5	80-120
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc	52.2	50	104.4	80-120

Associated samples MP44584: DA77462-1C, DA77462-2C, DA77462-3C, DA77462-4C, DA77462-5C, DA77462-6C, DA77462-7C, DA77462-8C, DA77462-9C, DA77462-10C, DA77462-11C

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: DA77462
Account: CIVITCOW - Civitas
Project: ENSOCOWR: Dutch Lake 22-34H

QC Batch ID: MP44584 Methods: SW846 6020B
Matrix Type: SOLID Units: ug/l

Prep Date: 11/20/25

Metal	DA77463-1 Original	SDL 10:50%DIF		QC Limits
Aluminum				
Antimony				
Arsenic	60.7	62.5	3.1	0-20
Barium	2070	2120	2.4	0-20
Beryllium				
Boron				
Cadmium	2.33	0.00	100.0(a)	0-20
Calcium				
Chromium				
Cobalt				
Copper	133	140	5.8	0-20
Iron				
Lead	109	108	1.0	0-20
Magnesium				
Manganese				
Molybdenum				
Nickel	166	172	3.6	0-20
Phosphorus				
Potassium				
Selenium	2.64	2.76	4.4	0-20
Silver	0.374	0.420	12.4	0-20
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc	487	519	6.4	0-20

Associated samples MP44584: DA77462-1C, DA77462-2C, DA77462-3C, DA77462-4C, DA77462-5C, DA77462-6C, DA77462-7C, DA77462-8C, DA77462-9C, DA77462-10C, DA77462-11C

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: DA77462
Account: CIVITCOW - Civitas
Project: ENSOCOWR: Dutch Lake 22-34H

QC Batch ID: MP44585
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 11/22/25

Metal	RL	IDL	MDL	MB raw	final
Aluminum	500	24	75		
Arsenic	130	23	23		
Barium	50	1	6.5		
Beryllium	50	.78	6.5		
Boron	250	52	32	3.5	<250
Cadmium	50	1.8	6.5		
Calcium	2000	35	250		
Chromium	50	3.1	6.5		
Cobalt	25	3.7	3.2		
Copper	50	2.3	6.5		
Iron	350	14	60		
Lithium	25	2.5	6.5		
Magnesium	1000	110	130		
Manganese	25	2.4	3.2		
Molybdenum	50	9.7	14		
Potassium	5000	130	630		
Silver	150	4.5	19		
Sodium	2000	22	250		

Associated samples MP44585: DA77462-1B, DA77462-2B, DA77462-3B, DA77462-4B, DA77462-5B, DA77462-6B, DA77462-7B, DA77462-8B, DA77462-9B, DA77462-10B, DA77462-11B

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA77462
Account: CIVITCOW - Civitas
Project: ENSOCOWR: Dutch Lake 22-34H

QC Batch ID: MP44585
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			11/22/25					11/22/25	
Metal	DA77463-1B Original	DUP	RPD	QC Limits	DA77463-1B Original	MS	Spikelot ICPALL6	% Rec	QC Limits
Aluminum									
Arsenic									
Barium									
Beryllium									
Boron	234	232	0.9	0-20	234	10100	10000	98.7	75-125
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lithium									
Magnesium									
Manganese									
Molybdenum									
Potassium									
Silver									
Sodium									

Associated samples MP44585: DA77462-1B, DA77462-2B, DA77462-3B, DA77462-4B, DA77462-5B, DA77462-6B, DA77462-7B, DA77462-8B, DA77462-9B, DA77462-10B, DA77462-11B

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: DA77462
Account: CIVITCOW - Civitas
Project: ENSOCOWR: Dutch Lake 22-34H

QC Batch ID: MP44585
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 11/22/25

Metal	BSP Result	Spikelot ICPALL6	% Rec	QC Limits
Aluminum				
Arsenic				
Barium				
Beryllium				
Boron	8770	10000	87.7	80-120
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lithium				
Magnesium				
Manganese				
Molybdenum				
Potassium				
Silver				
Sodium				

Associated samples MP44585: DA77462-1B, DA77462-2B, DA77462-3B, DA77462-4B, DA77462-5B, DA77462-6B, DA77462-7B, DA77462-8B, DA77462-9B, DA77462-10B, DA77462-11B

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: DA77462
Account: CIVITCOW - Civitas
Project: ENSOCOWR: Dutch Lake 22-34H

QC Batch ID: MP44585 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 11/22/25

Metal	DA77463-1B Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Arsenic				
Barium				
Beryllium				
Boron	46.8	72.2	54.3 (a)	0-10
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lithium				
Magnesium				
Manganese				
Molybdenum				
Potassium				
Silver				
Sodium				

Associated samples MP44585: DA77462-1B, DA77462-2B, DA77462-3B, DA77462-4B, DA77462-5B, DA77462-6B, DA77462-7B, DA77462-8B, DA77462-9B, DA77462-10B, DA77462-11B

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: DA77462
Account: CIVITCOW - Civitas
Project: ENSOCOWR: Dutch Lake 22-34H

QC Batch ID: MP44604
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 11/21/25

Metal	RL	IDL	MDL	MB raw	final
Aluminum	1500	71	230		
Arsenic	380	68	69		
Barium	150	3	20		
Beryllium	150	2.3	20		
Boron	750	160	95		
Cadmium	150	5.3	20		
Calcium	6000	100	750	216	<6000
Chromium	150	9.4	20		
Cobalt	75	11	9.5		
Copper	150	6.9	20		
Iron	1100	41	180		
Lithium	75	7.5	20		
Magnesium	3000	330	380	0.0	<3000
Manganese	75	7.3	9.5		
Molybdenum	150	29	42		
Potassium	15000	380	1900		
Silver	450	14	57		
Sodium	6000	67	750	0.0	<6000

Associated samples MP44604: DA77462-1A, DA77462-2A, DA77462-3A, DA77462-4A, DA77462-5A, DA77462-6A, DA77462-7A, DA77462-8A, DA77462-9A, DA77462-10A, DA77462-11A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA77462
Account: CIVITCOW - Civitas
Project: ENSOCOWR: Dutch Lake 22-34H

QC Batch ID: MP44604 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 11/21/25

Metal	DA77458-6A Original	MS	Spikelot ICPALL6	% Rec	QC Limits
Aluminum					
Arsenic					
Barium					
Beryllium					
Boron					
Cadmium					
Calcium	529000	901000	375000	99.2	75-125
Chromium					
Cobalt					
Copper					
Iron					
Lithium					
Magnesium	278000	656000	375000	100.8	75-125
Manganese					
Molybdenum					
Potassium					
Silver					
Sodium	304000	679000	375000	100.0	75-125

Associated samples MP44604: DA77462-1A, DA77462-2A, DA77462-3A, DA77462-4A, DA77462-5A, DA77462-6A, DA77462-7A, DA77462-8A, DA77462-9A, DA77462-10A, DA77462-11A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA77462
Account: CIVITCOW - Civitas
Project: ENSOCOWR: Dutch Lake 22-34H

QC Batch ID: MP44604 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 11/21/25

Metal	DA77458-6A Original	MSD	Spikelot ICPALL6	% Rec	MSD RPD	QC Limit
Aluminum						
Arsenic						
Barium						
Beryllium						
Boron						
Cadmium						
Calcium	529000	930000	375000	106.9	3.2	20
Chromium						
Cobalt						
Copper						
Iron						
Lithium						
Magnesium	278000	674000	375000	105.6	2.7	20
Manganese						
Molybdenum						
Potassium						
Silver						
Sodium	304000	695000	375000	104.3	2.3	20

Associated samples MP44604: DA77462-1A, DA77462-2A, DA77462-3A, DA77462-4A, DA77462-5A, DA77462-6A, DA77462-7A, DA77462-8A, DA77462-9A, DA77462-10A, DA77462-11A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: DA77462
Account: CIVITCOW - Civitas
Project: ENSOCOWR: Dutch Lake 22-34H

QC Batch ID: MP44604
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 11/21/25

Metal	BSP Result	Spikelot ICPALL6	% Rec	QC Limits
Aluminum				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium	367000	375000	97.9	80-120
Chromium				
Cobalt				
Copper				
Iron				
Lithium				
Magnesium	371000	375000	98.9	80-120
Manganese				
Molybdenum				
Potassium				
Silver				
Sodium	384000	375000	102.4	80-120

Associated samples MP44604: DA77462-1A, DA77462-2A, DA77462-3A, DA77462-4A, DA77462-5A, DA77462-6A, DA77462-7A, DA77462-8A, DA77462-9A, DA77462-10A, DA77462-11A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: DA77462
Account: CIVITCOW - Civitas
Project: ENSOCOWR: Dutch Lake 22-34H

QC Batch ID: MP44604 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 11/21/25

Metal	DA77458-6A Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium	35200	34500	2.0	0-10
Chromium				
Cobalt				
Copper				
Iron				
Lithium				
Magnesium	18600	17900	3.5	0-10
Manganese				
Molybdenum				
Potassium				
Silver				
Sodium	20300	19400	4.3	0-10

Associated samples MP44604: DA77462-1A, DA77462-2A, DA77462-3A, DA77462-4A, DA77462-5A, DA77462-6A, DA77462-7A, DA77462-8A, DA77462-9A, DA77462-10A, DA77462-11A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA77462
Account: CIVITCOW - Civitas
Project: ENSOCOWR: Dutch Lake 22-34H

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Specific Conductivity	GP40091/GN70939			mmhos/cm	1.409	1.4	99.4(a)	90-110%

Associated Samples:
Batch GP40091: DA77462-1C, DA77462-2C, DA77462-3C, DA77462-4C, DA77462-5C, DA77462-6C, DA77462-7C, DA77462-8C, DA77462-9C, DA77462-10C, DA77462-11C
(*) Outside of QC limits
(a) Saturated paste was generated on 11/21/25.

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA77462
Account: CIVITCOW - Civitas
Project: ENSOCOWR: Dutch Lake 22-34H

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Specific Conductivity	GP40091/GN70939	DA77463-6	mmhos/cm	0.60	0.59(a)	1.3(a)	0-20%
pH	GN70938	DA77458-6	su	7.71	7.73(a)	0.2(a)	0-5%

Associated Samples:
Batch GN70938: DA77462-1C, DA77462-2C, DA77462-3C, DA77462-4C, DA77462-5C, DA77462-6C, DA77462-7C, DA77462-8C, DA77462-9C, DA77462-10C, DA77462-11C
Batch GP40091: DA77462-1C, DA77462-2C, DA77462-3C, DA77462-4C, DA77462-5C, DA77462-6C, DA77462-7C, DA77462-8C, DA77462-9C, DA77462-10C, DA77462-11C
(*) Outside of QC limits
(a) Saturated paste was generated on 11/21/25.

Misc. Forms

Custody Documents and Other Forms

(SGS Dayton, NJ)

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

SGS North America Inc. - Wheat Ridge
4036 Youngfield Street, Wheat Ridge, CO 80033
TEL: 303-425-6021 FAX: 303-425-6854
www.sgs.com/ehsusa

FED-EX Tracking # 4803-6879-5483 | Bottle Order Control #
SGS Quote # | SGS Job # DA77462

Client / Reporting Information	Project Information	Billing Information (If different from Report to)
Company Name: SGS North America Inc.	Project Name: ENSOCOWR: Dutch Lake 22-34H	
Street Address: 4036 Youngfield Street	Street	Company Name
City State Zip: Wheat Ridge, CO 8003:	City State	Street Address
Project Contact E-mail: parna.eskandaripayandeh@sgs.com	Project #	City State Zip
Phone # Fax #: 303-425-6021	Client Purchase Order #	Attention:
Sampler(s) Name(s) Phone: MB	Project Manager	

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	XCRA7199	LAB USE ONLY
1C	WH-B01@6'		11/20/25	8:10:00 AM	MB	SO										X	
2C	WH-N01@3'		11/20/25	8:15:00 AM	MB	SO										X	
3C	WH-S01@3'		11/20/25	8:20:00 AM	MB	SO										X	
4C	WH-E01@3'		11/20/25	8:25:00 AM	MB	SO										X	
5C	WH-W01@3'		11/20/25	8:30:00 AM	MB	SO										X	
6C	FL-B01@3'		11/20/25	8:35:00 AM	MB	SO										X	
7C	FL-B03@3'		11/20/25	9:00:00 AM	MB	SO										X	
8C	SEP-B01@3'		11/20/25	9:10:00 AM	MB	SO										X	
9C	SEP-B02@3'		11/20/25	9:12:00 AM	MB	SO										X	
10C	SP-CS01@6'		11/20/25	8:40:00 AM	MB	SO										X	
11C	SP-CS02@3'		11/20/25	9:22:00 AM	MB	SO										X	

Turnaround Time (Business days)

Approved By (SGS PM): / Date:

- [ ] Standard 10 Day (business)
- [ ] 5 Business Days RUSH
- [ ] 3 Business Days RUSH
- [ ] 2 Business Days RUSH
- [ ] 1 Business Day EMERGENCY
- [X] other Due 12/4/2025

Emergency & Rush T/A data available via Lablink Approval needed for RUSH/Emergency TAT

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] REDT1 (Level 3)
- [ ] FULT1 (Level 4)
- [ ] Commercial "C"
- [ ] State Forms
- [ ] EDD Format
- [ ] Other
- [X] CC

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

202
Initial Assessment: DJ-ZA
Label Verification

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	11-21-25	1 Fedex	2 Fedex	11/22	2
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3		3	4	10:30	4
Relinquished by:	Date Time:	Received By:	Custody Seal #	Preserved where applicable	On Ice / Cooler Temp.
5		5	[ ] Intact [ ] Not Intact	[ ] Therm. ID:	[X] 2-4

10.1 10

DA77462: Chain of Custody
Page 1 of 2
SGS Dayton, NJ

SGS Sample Receipt Summary

Job Number: da77462 **Client:** SGS NORTH AMERICA INC. **Project:** ENSOCOWR: Dutch Lake 22-34H

Date / Time Received: 11/22/2025 10:30:00 AM **Delivery Method:** FEDEX **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (2.4);

Cooler Temps (Corrected) °C: Cooler 1: (2.5);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR-50		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

General Chemistry

QC Data Summaries

(SGS Dayton, NJ)

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA77462
Account: ALMS - SGS Wheat Ridge, CO
Project: CIVITCOW: ENSOCOWR: Dutch Lake 22-34H

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chromium, Hexavalent	GP66373/GN77548	0.40	0.0	mg/kg	40	37.3	93.3	80-120%
Chromium, Hexavalent	GP66373/GN77548			mg/kg	1130	1100	97.7	80-120%

Associated Samples:
Batch GP66373: DA77462-1C, DA77462-2C, DA77462-3C, DA77462-4C, DA77462-5C, DA77462-6C, DA77462-7C, DA77462-8C, DA77462-9C, DA77462-10C, DA77462-11C
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA77462
Account: ALMS - SGS Wheat Ridge, CO
Project: CIVITCOW: ENSOCOWR: Dutch Lake 22-34H

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chromium, Hexavalent	GP66373/GN77548	DA77458-2C	mg/kg	0.0	0.0	0.0	0-20%

Associated Samples:
Batch GP66373: DA77462-1C, DA77462-2C, DA77462-3C, DA77462-4C, DA77462-5C, DA77462-6C, DA77462-7C, DA77462-8C, DA77462-9C, DA77462-10C, DA77462-11C
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA77462
Account: ALMS - SGS Wheat Ridge, CO
Project: CIVITCOW: ENSOCOWR: Dutch Lake 22-34H

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chromium, Hexavalent	GP66373/GN77548	DA77458-2C	mg/kg	0.0	47.9	41.8	87.3(a)	75-125%
Chromium, Hexavalent	GP66373/GN77548	DA77458-2C	mg/kg	0.0	1190	1030	86.4(b)	75-125%

Associated Samples:
Batch GP66373: DA77462-1C, DA77462-2C, DA77462-3C, DA77462-4C, DA77462-5C, DA77462-6C, DA77462-7C, DA77462-8C, DA77462-9C, DA77462-10C, DA77462-11C
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Good recovery on soluble XCR matrix spike. Good recovery (103.5%) on the post-spike.
(b) Good recovery on insoluble XCR matrix spike. See additional comments on soluble matrix spike recovery.