

LAB CHRONICLE

OrderID:	Q1382	OrderDate:	2/18/2025 10:57:00 AM
Client:	Nobis Group	Project:	Raymark Superfund Site
Contact:	Adam Roy	Location:	H31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1382-01	OU4-PCS-TC-01-0217 25	SOIL			02/17/25 08:30			02/18/25
			Cyanide	9012B		02/19/25	02/19/25 13:27	
Q1382-03	OU4-PCS-TC-02-0217 25	SOIL			02/17/25 08:35			02/18/25
			Cyanide	9012B		02/19/25	02/19/25 13:27	
Q1382-05	OU4-PCS-TC-03-0217 25	SOIL			02/17/25 08:40			02/18/25
			Cyanide	9012B		02/19/25	02/19/25 13:34	
Q1382-07	OU4-PCS-TC-04-0217 25	SOIL			02/17/25 08:45			02/18/25
			Cyanide	9012B		02/19/25	02/19/25 13:34	
Q1382-09	OU4-PCS-TC-05-0217 25	SOIL			02/17/25 08:50			02/18/25
			Cyanide	9012B		02/19/25	02/19/25 13:34	
Q1382-11	OU4-PCS-TC-06-0217 25	SOIL			02/17/25 08:55			02/18/25
			Cyanide	9012B		02/19/25	02/19/25 13:34	
Q1382-13	OU4-PCS-TC-07-0217 25	SOIL			02/17/25 09:00			02/18/25
			Cyanide	9012B		02/19/25	02/19/25 13:34	

LAB CHRONICLE

Q1382-15	OU4-PCS-TC-08-0217 25	SOIL	02/17/25 09:05				02/18/25
			Cyanide	9012B	02/19/25	02/19/25 13:34	
Q1382-17	OU4-PCS-TC-09-0217 25	SOIL	02/17/25 09:10				02/18/25
			Cyanide	9012B	02/19/25	02/19/25 13:34	
Q1382-19	OU4-PCS-TC-10-0217 25	SOIL	02/17/25 09:15				02/18/25
			Cyanide	9012B	02/19/25	02/19/25 13:34	



SAMPLE DATA

A

B

C

D

Report of Analysis

Client:	Nobis Group	Date Collected:	02/17/25 08:30
Project:	Raymark Superfund Site	Date Received:	02/18/25
Client Sample ID:	OU4-PCS-TC-01-021725	SDG No.:	Q1382
Lab Sample ID:	Q1382-01	Matrix:	SOIL
		% Solid:	91.9

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.21	U	1	0.047	0.21	0.27	mg/Kg	02/19/25 08:15	02/19/25 13:27	9012B

Comments: _____

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Nobis Group	Date Collected:	02/17/25 08:35
Project:	Raymark Superfund Site	Date Received:	02/18/25
Client Sample ID:	OU4-PCS-TC-02-021725	SDG No.:	Q1382
Lab Sample ID:	Q1382-03	Matrix:	SOIL
		% Solid:	91.7

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.21	U	1	0.046	0.21	0.26	mg/Kg	02/19/25 08:15	02/19/25 13:27	9012B

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Report of Analysis

Client:	Nobis Group	Date Collected:	02/17/25 08:40
Project:	Raymark Superfund Site	Date Received:	02/18/25
Client Sample ID:	OU4-PCS-TC-03-021725	SDG No.:	Q1382
Lab Sample ID:	Q1382-05	Matrix:	SOIL
		% Solid:	92.4

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.21	U	1	0.045	0.21	0.26	mg/Kg	02/19/25 08:15	02/19/25 13:34	9012B

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Report of Analysis

Client:	Nobis Group	Date Collected:	02/17/25 08:45
Project:	Raymark Superfund Site	Date Received:	02/18/25
Client Sample ID:	OU4-PCS-TC-04-021725	SDG No.:	Q1382
Lab Sample ID:	Q1382-07	Matrix:	SOIL
		% Solid:	92.5

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.095	J	1	0.047	0.21	0.27	mg/Kg	02/19/25 08:15	02/19/25 13:34	9012B

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Report of Analysis

Client:	Nobis Group	Date Collected:	02/17/25 08:50
Project:	Raymark Superfund Site	Date Received:	02/18/25
Client Sample ID:	OU4-PCS-TC-05-021725	SDG No.:	Q1382
Lab Sample ID:	Q1382-09	Matrix:	SOIL
		% Solid:	92

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.058	J	1	0.046	0.21	0.26	mg/Kg	02/19/25 08:15	02/19/25 13:34	9012B

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LOD = Limit of Detection

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J = Estimated Value

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Report of Analysis

Client:	Nobis Group	Date Collected:	02/17/25 08:55
Project:	Raymark Superfund Site	Date Received:	02/18/25
Client Sample ID:	OU4-PCS-TC-06-021725	SDG No.:	Q1382
Lab Sample ID:	Q1382-11	Matrix:	SOIL
		% Solid:	92.2

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.21	U	1	0.047	0.21	0.27	mg/Kg	02/19/25 08:15	02/19/25 13:34	9012B

Comments:

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 LOD = Limit of Detection
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 H = Sample Analysis Out Of Hold Time

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Report of Analysis

Client:	Nobis Group	Date Collected:	02/17/25 09:00
Project:	Raymark Superfund Site	Date Received:	02/18/25
Client Sample ID:	OU4-PCS-TC-07-021725	SDG No.:	Q1382
Lab Sample ID:	Q1382-13	Matrix:	SOIL
		% Solid:	92.2

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.13	J	1	0.048	0.22	0.27	mg/Kg	02/19/25 08:15	02/19/25 13:34	9012B

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OR = Over Range

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Report of Analysis

Client:	Nobis Group	Date Collected:	02/17/25 09:05
Project:	Raymark Superfund Site	Date Received:	02/18/25
Client Sample ID:	OU4-PCS-TC-08-021725	SDG No.:	Q1382
Lab Sample ID:	Q1382-15	Matrix:	SOIL
		% Solid:	92.6

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.21	U	1	0.047	0.21	0.27	mg/Kg	02/19/25 08:15	02/19/25 13:34	9012B

Comments:

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LOD = Limit of Detection
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H = Sample Analysis Out Of Hold Time

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B = Analyte Found in Associated Method Blank
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OR = Over Range
N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Nobis Group	Date Collected:	02/17/25 09:10
Project:	Raymark Superfund Site	Date Received:	02/18/25
Client Sample ID:	OU4-PCS-TC-09-021725	SDG No.:	Q1382
Lab Sample ID:	Q1382-17	Matrix:	SOIL
		% Solid:	92.6

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.070	J	1	0.047	0.21	0.26	mg/Kg	02/19/25 08:15	02/19/25 13:34	9012B

Comments:

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MDL = Method Detection Limit

LOD = Limit of Detection

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H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Nobis Group	Date Collected:	02/17/25 09:15
Project:	Raymark Superfund Site	Date Received:	02/18/25
Client Sample ID:	OU4-PCS-TC-10-021725	SDG No.:	Q1382
Lab Sample ID:	Q1382-19	Matrix:	SOIL
		% Solid:	93.4

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.21	U	1	0.046	0.21	0.26	mg/Kg	02/19/25 08:15	02/19/25 13:34	9012B

Comments:

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QC RESULT SUMMARY

Initial and Continuing Calibration Verification

Client: Nobis Group

SDG No.: Q1382

Project: Raymark Superfund Site

RunNo.: LB134755

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 Cyanide	mg/L	0.096	0.099	97	90-110	02/19/2025
Sample ID: CCV1 Cyanide	mg/L	0.24	0.25	96	90-110	02/19/2025
Sample ID: CCV2 Cyanide	mg/L	0.24	0.25	96	90-110	02/19/2025
Sample ID: CCV3 Cyanide	mg/L	0.25	0.25	100	90-110	02/19/2025
Sample ID: CCV4 Cyanide	mg/L	0.24	0.25	96	90-110	02/19/2025
Sample ID: CCV5 Cyanide	mg/L	0.25	0.25	100	90-110	02/19/2025

Initial and Continuing Calibration Blank Summary

Client: Nobis Group

SDG No.: Q1382

Project: Raymark Superfund Site

RunNo.: LB134755

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	02/19/2025
Sample ID: CCB1 Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	02/19/2025
Sample ID: CCB2 Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	02/19/2025
Sample ID: CCB3 Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	02/19/2025
Sample ID: CCB4 Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	02/19/2025
Sample ID: CCB5 Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	02/19/2025

Preparation Blank Summary

Client: Nobis Group

SDG No.: Q1382

Project: Raymark Superfund Site

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: Cyanide	PB166756BL mg/Kg	< 0.1250	0.1250	U	0.044	0.25	02/19/2025

Matrix Spike Summary

Client:	Nobis Group	SDG No.:	Q1382
Project:	Raymark Superfund Site	Sample ID:	Q1382-19
Client ID:	OU4-PCS-TC-10-021725MS	Percent Solids for Spike Sample:	93.4

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Cyanide	mg/Kg	75-125	1.90		0.046	U	2	1	95		02/19/2025

Matrix Spike Summary

Client:	Nobis Group	SDG No.:	Q1382
Project:	Raymark Superfund Site	Sample ID:	Q1382-19
Client ID:	OU4-PCS-TC-10-021725MSD	Percent Solids for Spike Sample:	93.4

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Cyanide	mg/Kg	75-125	1.90		0.046	U	2	1	95		02/19/2025

Duplicate Sample Summary

Client: Nobis Group Project: Raymark Superfund Site Client ID: OU4-PCS-TC-10-021725DUP	SDG No.: Q1382 Sample ID: Q1382-19 Percent Solids for Spike Sample: 93.4
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Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Cyanide	mg/Kg	+/-20	0.046	U	0.045	U	1	0		02/19/2025

Duplicate Sample Summary

Client:	Nobis Group	SDG No.:	Q1382
Project:	Raymark Superfund Site	Sample ID:	Q1382-19
Client ID:	OU4-PCS-TC-10-021725MSD	Percent Solids for Spike Sample:	93.4

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Cyanide	mg/Kg	+/-20	1.90		1.90		1	0		02/19/2025

Laboratory Control Sample Summary

Client: Nobis Group

SDG No.: Q1382

Project: Raymark Superfund Site

Run No.: LB134755

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB166756BS							
Cyanide	mg/Kg	5	4.70		94	1	85-115	02/19/2025