LAB CHRONICLE

OrderID:Q1383OrderDate:2/18/2025 11:19:00 AMClient:Nobis GroupProject:Raymark Superfund Site

Contact: Adam Roy Location: H31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1383-01	OU4-PCS-TC-11-0217 25	SOIL			02/17/25 09:20			02/18/25
			Cyanide	9012B		02/19/25	02/19/25 13:42	
Q1383-03	OU4-PCS-TC-12-0217 25	SOIL			02/17/25 09:25			02/18/25
			Cyanide	9012B		02/19/25	02/19/25 13:42	
Q1383-05	OU4-PCS-TC-13-0217 25	SOIL			02/17/25 09:30			02/18/25
			Cyanide	9012B		02/19/25	02/19/25 13:42	
Q1383-07	OU4-PCS-TC-14-0217 25	SOIL			02/17/25 09:35			02/18/25
			Cyanide	9012B		02/19/25	02/19/25 13:49	
Q1383-09	OU4-PCS-TC-15-0217 25	SOIL			02/17/25 09:40			02/18/25
			Cyanide	9012B		02/19/25	02/19/25 13:49	
Q1383-11	OU4-PCS-TC-16-0217 25	SOIL			02/17/25 09:45			02/18/25
			Cyanide	9012B		02/19/25	02/19/25 13:49	
Q1383-13	OU4-PCS-TC-17-0217 25	SOIL			02/17/25 09:50			02/18/25
			Cyanide	9012B		02/19/25	02/19/25 13:49	

LAB CHRONICLE

Q1383-15	OU4-PCS-TC-18-0217 25	SOIL			2/17/25 09:55	02/18/25
			Cyanide	9012B	02/19/25	02/19/25 13:49
Q1383-17	OU4-PCS-TC-19-0217 25	SOIL			2/17/25 10:00	02/18/25
			Cyanide	9012B	02/19/25	02/19/25 13:49
Q1383-19	OU4-PCS-TC-20-0217 25	SOIL			2/17/25 10:05	02/18/25
			Cyanide	9012B	02/19/25	02/19/25 13:55
Q1383-21	OU4-CF-15-021725	SOIL			2/17/25 08:15	02/18/25
			Cyanide	9012B	02/19/25	02/19/25 13:49



В



SAMPLE DATA



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Report of Analysis

Client: Nobis Group Date Collected: 02/17/25 09:20 Project: Raymark Superfund Site Date Received: 02/18/25 Client Sample ID: OU4-PCS-TC-11-021725 SDG No.: Q1383 Lab Sample ID: Q1383-01 Matrix: SOIL % Solid: 92.6

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weigh	nt) Prep Date	Date Ana.	Ana Met.
Cyanide	0.075	J	1	0.048	0.22	0.27	mg/Kg	02/19/25 10:15	02/19/25 13:42	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



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Report of Analysis

Client: Nobis Group Date Collected: 02/17/25 09:25 Project: Raymark Superfund Site Date Received: 02/18/25 Client Sample ID: OU4-PCS-TC-12-021725 SDG No.: Q1383 Lab Sample ID: Q1383-03 Matrix: SOIL % Solid: 92.2

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weigh	t) Prep Date	Date Ana.	Ana Met.
Cyanide	0.067	J	1	0.047	0.21	0.27	mg/Kg	02/19/25 10:15	02/19/25 13:42	9012B

Comments:

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LOD = Limit of Detection

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J = Estimated Value

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OR = Over Range



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Report of Analysis

Client: Nobis Group Date Collected: 02/17/25 09:30 Project: Raymark Superfund Site Date Received: 02/18/25 Client Sample ID: OU4-PCS-TC-13-021725 SDG No.: Q1383 Lab Sample ID: Q1383-05 Matrix: SOIL % Solid: 92.5

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weigh	t) Prep Date	Date Ana.	Ana Met.
Cyanide	0.094	J	1	0.047	0.21	0.26	mg/Kg	02/19/25 10:15	02/19/25 13:42	9012B

Comments:

U = Not Detected

LOQ = Limit of Quantitation

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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

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Report of Analysis

Client: Nobis Group Date Collected: 02/17/25 09:35 Project: Raymark Superfund Site Date Received: 02/18/25 Client Sample ID: OU4-PCS-TC-14-021725 SDG No.: Q1383 Lab Sample ID: Q1383-07 Matrix: SOIL % Solid: 92.1

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weigh	nt) Prep Date	Date Ana.	Ana Met.
Cyanide	0.054	J	1	0.045	0.21	0.26	mg/Kg	02/19/25 10:15	02/19/25 13:49	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.

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Report of Analysis

Client: Nobis Group Date Collected: 02/17/25 09:40 Project: Raymark Superfund Site Date Received: 02/18/25 Client Sample ID: OU4-PCS-TC-15-021725 SDG No.: Q1383 Lab Sample ID: Q1383-09 Matrix: SOIL % Solid: 92.5

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weigh	t) Prep Date	Date Ana.	Ana Met.
Cyanide	0.082	J	1	0.047	0.21	0.27	mg/Kg	02/19/25 10:15	02/19/25 13:49	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.

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Report of Analysis

Client: Nobis Group Date Collected: 02/17/25 09:45 Project: Raymark Superfund Site Date Received: 02/18/25 Client Sample ID: OU4-PCS-TC-16-021725 SDG No.: Q1383 Lab Sample ID: Q1383-11 Matrix: SOIL % Solid: 92.1

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weigh	it) Prep Date	Date Ana.	Ana Met.
Cyanide	0.21	U	1	0.046	0.21	0.26	mg/Kg	02/19/25 10:15	02/19/25 13:49	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.

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Report of Analysis

Client: Nobis Group Date Collected: 02/17/25 09:50 Project: Date Received: Raymark Superfund Site 02/18/25 Client Sample ID: OU4-PCS-TC-17-021725 SDG No.: Q1383 Lab Sample ID: Q1383-13 Matrix: SOIL % Solid: 91.4

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weigh	t) Prep Date	Date Ana.	Ana Met.
Cyanide	0.091	J	1	0.047	0.21	0.27	mg/Kg	02/19/25 10:15	02/19/25 13:49	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.

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OR = Over Range



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Report of Analysis

Client: Nobis Group Date Collected: 02/17/25 09:55 Project: Date Received: Raymark Superfund Site 02/18/25 Client Sample ID: OU4-PCS-TC-18-021725 SDG No.: Q1383 Lab Sample ID: Q1383-15 Matrix: SOIL % Solid: 91.9

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weigh	t) Prep Date	Date Ana.	Ana Met.
Cyanide	0.069	J	1	0.046	0.21	0.26	mg/Kg	02/19/25 10:15	02/19/25 13:49	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.

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OR = Over Range



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Report of Analysis

Client: Nobis Group Date Collected: 02/17/25 10:00 Project: Raymark Superfund Site Date Received: 02/18/25 Client Sample ID: OU4-PCS-TC-19-021725 SDG No.: Q1383 Lab Sample ID: Q1383-17 Matrix: SOIL % Solid: 92.1

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weigh	it) Prep Date	Date Ana.	Ana Met.
Cyanide	0.22	U	1	0.047	0.22	0.27	mg/Kg	02/19/25 10:15	02/19/25 13:49	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.

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Report of Analysis

Client: Nobis Group Date Collected: 02/17/25 10:05 Project: Raymark Superfund Site Date Received: 02/18/25 Client Sample ID: OU4-PCS-TC-20-021725 SDG No.: Q1383 Lab Sample ID: Q1383-19 Matrix: SOIL % Solid: 92.2

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weigh	t) Prep Date	Date Ana.	Ana Met.
Cyanide	0.062	J	1	0.047	0.21	0.27	mg/Kg	02/19/25 10:15	02/19/25 13:55	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



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Report of Analysis

Client: Nobis Group Date Collected: 02/17/25 08:15 Project: Raymark Superfund Site Date Received: 02/18/25 Client Sample ID: OU4-CF-15-021725 SDG No.: Q1383 Lab Sample ID: Q1383-21 Matrix: SOIL % Solid: 92.5

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weigh	it) Prep Date	Date Ana.	Ana Met.
Cyanide	0.21	U	1	0.047	0.21	0.26	mg/Kg	02/19/25 10:15	02/19/25 13:49	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



В



QC RESULT SUMMARY



Initial and Continuing Calibration Verification

Client: Nobis Group SDG No.: Q1383

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



Е



Initial and Continuing Calibration Blank Summary

Client: Nobis Group SDG No.: Q1383

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:	ССВ3							
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



E



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Preparation Blank Summary

Client: Nobis Group SDG No.: Q1383

Project: Raymark Superfund Site

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: Cyanide	PB166780BL mg/Kg	< 0.1250	0.1250	U	0.044	0.25	02/19/2025



В





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Matrix Spike Summary

Client: Nobis Group SDG No.: Q1383

Project: Raymark Superfund Site Sample ID: Q1383-21

Client ID: OU4-CF-15-021725MS Percent Solids for Spike Sample: 92.5

		Acceptance	Spiked	Conc.	Sample	Conc.	Spike	Dilution	%		Analysis
Analyte	Units	Limit %R	Result	Qualifier	Result	Qualifier	Added	Factor	Rec	Qual	Date
Cyanide	mg/Kg	75-125	2.10		0.047	U	2.1	1	100		02/19/2025









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Matrix Spike Summary

Client: Nobis Group SDG No.: Q1383

Project: Raymark Superfund Site Sample ID: Q1383-21

Client ID: OU4-CF-15-021725MSD Percent Solids for Spike Sample: 92.5

		Acceptance	Spiked	Conc.	Sample	Conc.	Spike	Dilution	%		Analysis
Analyte	Units	Limit %R	Result	Qualifier	Result	Qualifier	Added	Factor	Rec	Qual	Date
Cyanide	mg/Kg	75-125	2.00		0.047	U	2.1	1	95		02/19/2025









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Duplicate Sample Summary

Client: Nobis Group SDG No.: Q1383

Project: Raymark Superfund Site Sample ID: Q1383-21

Client ID: OU4-CF-15-021725DUP Percent Solids for Spike Sample: 92.5

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date	
Cyanide	mg/Kg	+/-20	0.047	U	0.047	U	1	0		02/19/2025	_









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Duplicate Sample Summary

Client: Nobis Group SDG No.: Q1383

Project: Raymark Superfund Site Sample ID: Q1383-21

Client ID: OU4-CF-15-021725MSD Percent Solids for Spike Sample: 92.5

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date	
Cyanide	mg/Kg	+/-20	2.10		2.00		1	5		02/19/2025	_









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Laboratory Control Sample Summary

Client: Nobis Group SDG No.: Q1383

Project: Raymark Superfund Site Run No.: LB134755

Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB166780BS								
Cyanide		mg/Kg	5	4.90		98	1	85-115	02/19/2025





