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LAB CHRONICLE

OrderID:	Q1215	**OrderDate:**	1/29/2025 11:20:00 AM
Client:	RU2 Engineering, LLC	**Project:**	NYCDDC SANTWOBR Brooklyn Bridge BBMCR
Contact:	Rutu Manani	**Location:**	E11,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1215-03	**JPP-29.1-012825**	**SOIL**			**01/28/25 14:30**			**01/29/25**
			Paint Filter	9095B			01/31/25 10:45	
Q1215-04	**JPP-29.1-012825**	**SOIL**			**01/28/25 14:30**			**01/29/25**
			Corrosivity	9045D			01/30/25 14:25	
			Ignitability	1030			01/31/25 09:30	
			Reactive Cyanide	9012B		01/30/25	01/30/25 13:14	
			Reactive Sulfide	9034		01/30/25	01/30/25 15:36	
Q1215-07	**JPP-29.2-012825**	**SOIL**			**01/28/25 15:22**			**01/29/25**
			Paint Filter	9095B			01/31/25 11:00	
Q1215-08	**JPP-29.2-012825**	**SOIL**			**01/28/25 15:22**			**01/29/25**
			Corrosivity	9045D			01/30/25 14:30	
			Ignitability	1030			01/31/25 09:45	
			Reactive Cyanide	9012B		01/30/25	01/30/25 13:14	
			Reactive Sulfide	9034		01/30/25	01/30/25 15:39	

SAMPLE DATA

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25 14:30
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	JPP-29.1-012825	SDG No.:	Q1215
Lab Sample ID:	Q1215-03	Matrix:	SOIL
		% Solid:	88.8

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm		01/31/25 10:45	9095B

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

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25 14:30
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	JPP-29.1-012825	SDG No.:	Q1215
Lab Sample ID:	Q1215-04	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	8.23	H	1	0	0	pH		01/30/25 14:25	9045D
Ignitability	NO		1	0	0	oC		01/31/25 09:30	1030
Reactive Cyanide	0.050	U	1	0.0088	0.050	mg/Kg	01/30/25 09:00	01/30/25 13:14	9012B
Reactive Sulfide	4.78	J	1	0.19	10.0	mg/Kg	01/30/25 11:00	01/30/25 15:36	9034

Comments: pH result reported at temperature 20.2 °C

U = Not Detected
LOQ = Limit of Quantitation
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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

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25 15:22
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	JPP-29.2-012825	SDG No.:	Q1215
Lab Sample ID:	Q1215-07	Matrix:	SOIL
		% Solid:	88.8

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Paint Filter	1.00	U	1	1.00	1.00	ml/100gm		01/31/25 11:00	9095B

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

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25 15:22
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	JPP-29.2-012825	SDG No.:	Q1215
Lab Sample ID:	Q1215-08	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	8.86	H	1	0	0	pH		01/30/25 14:30	9045D
Ignitability	NO		1	0	0	oC		01/31/25 09:45	1030
Reactive Cyanide	0.050	U	1	0.0087	0.050	mg/Kg	01/30/25 09:00	01/30/25 13:14	9012B
Reactive Sulfide	3.19	J	1	0.19	10.0	mg/Kg	01/30/25 11:00	01/30/25 15:39	9034

Comments: pH result reported at temperature 20.3 °C

U = Not Detected
LOQ = Limit of Quantitation
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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QC RESULT SUMMARY

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Initial and Continuing Calibration Verification

Client:	RU2 Engineering, LLC	**SDG No.:**	Q1215
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	**RunNo.:**	LB134487

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Reactive Cyanide	mg/L	0.098	0.099	99	85-115	01/30/2025
Sample ID: CCV1						
Reactive Cyanide	mg/L	0.24	0.25	96	90-110	01/30/2025
Sample ID: CCV2						
Reactive Cyanide	mg/L	0.24	0.25	96	90-110	01/30/2025
Sample ID: CCV3						
Reactive Cyanide	mg/L	0.24	0.25	96	90-110	01/30/2025
Sample ID: CCV4						
Reactive Cyanide	mg/L	0.25	0.25	100	90-110	01/30/2025

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Initial and Continuing Calibration Verification

Client: RU2 Engineering, LLC **SDG No.:** Q1215

Project: NYCDDC SANTWOBR Brooklyn Bridge BBMCR **RunNo.:** LB134491

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV						
Corrosivity		pH	7.01	7	100	90-110	01/30/2025
Sample ID:	CCV1						
Corrosivity		pH	2.01	2.00	101	90-110	01/30/2025
Sample ID:	CCV2						
Corrosivity		pH	12.02	12.00	100	90-110	01/30/2025
Sample ID:	CCV3						
Corrosivity		pH	2.01	2.00	101	90-110	01/30/2025
Sample ID:	CCV4						
Corrosivity		pH	12.02	12.00	100	90-110	01/30/2025

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Initial and Continuing Calibration Blank Summary

Client: RU2 Engineering, LLC **SDG No.:** Q1215

Project: NYCDDC SANTWOBR Brooklyn Bridge BBMCR **RunNo.:** LB134487

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	01/30/2025
Sample ID: CCB1							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	01/30/2025
Sample ID: CCB2							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	01/30/2025
Sample ID: CCB3							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	01/30/2025
Sample ID: CCB4							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	01/30/2025

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Preparation Blank Summary

Client: RU2 Engineering, LLC **SDG No.:** Q1215

Project: NYCDDC SANTWOBR Brooklyn Bridge BBMCR

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: PB166323BL							
Reactive Sulfide	mg/Kg	< 5.0000	5.0000	U	0.186	10	01/30/2025
Sample ID: PB166380BL							
Reactive Cyanide	mg/Kg	< 0.0250	0.0250	U	0.0088	0.05	01/30/2025

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Duplicate Sample Summary

Client: RU2 Engineering, LLC
SDG No.: Q1215
Project: NYCDDC SANTWOBR Brooklyn Bridge BBMCR
Sample ID: Q1205-02
Client ID: VNJ-236DUP
Percent Solids for Spike Sample: 100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Reactive Cyanide	mg/Kg	+/-20	0.0087	U	0.0088	U	1	0		01/30/2025
Reactive Sulfide	mg/Kg	+/-20	3.17	J	3.17	J	1	0		01/30/2025

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Duplicate Sample Summary

Client: RU2 Engineering, LLC
SDG No.: Q1215
Project: NYCDDC SANTWOBR Brooklyn Bridge BBMCR
Sample ID: Q1215-03
Client ID: JPP-29.1-012825DUP
Percent Solids for Spike Sample: 88.8

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Paint Filter	ml/100gm	+/-20	1.00	U	1.00	U	1	0		01/31/2025

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Duplicate Sample Summary

Client: RU2 Engineering, LLC
SDG No.: Q1215
Project: NYCDDC SANTWOBR Brooklyn Bridge BBMCR
Sample ID: Q1215-04
Client ID: JPP-29.1-012825DUP
Percent Solids for Spike Sample: 100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Corrosivity	pH	+/-20	8.23		8.24		1	0.12		01/30/2025
Ignitability	oC	+/-20	NO		NO		1	0		01/31/2025

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Duplicate Sample Summary

Client: RU2 Engineering, LLC
SDG No.: Q1215
Project: NYCDDC SANTWOBR Brooklyn Bridge BBMCR
Sample ID: Q1239-11
Client ID: 357DUP
Percent Solids for Spike Sample: 100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Corrosivity	pH	+/-20	8.03		8.04		1	0.12		01/30/2025

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Duplicate Sample Summary

Client: RU2 Engineering, LLC
SDG No.: Q1215
Project: NYCDDC SANTWOBR Brooklyn Bridge BBMCR
Sample ID: Q1242-04
Client ID: JPP-6.2-013025DUP
Percent Solids for Spike Sample: 100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Ignitability	oC	+/-20	NO		NO		1	0		01/31/2025