

LAB CHRONICLE

OrderID:	Q1216	OrderDate:	1/29/2025 11:54:00 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
Q1216-03	JPP-18.1-012825	SOIL			01/28/25 08:41			01/29/25
			Paint Filter	9095B			01/31/25 11:08	
Q1216-04	JPP-18.1-012825	SOIL			01/28/25 08:41			01/29/25
			Corrosivity	9045D			01/30/25 14:33	
			Ignitability	1030			01/31/25 09:52	
			Reactive Cyanide	9012B		01/30/25	01/30/25 13:14	
			Reactive Sulfide	9034		01/30/25	01/30/25 15:42	
Q1216-07	JPP-21.1-012825	SOIL			01/28/25 09:30			01/29/25
			Paint Filter	9095B			01/31/25 11:15	
Q1216-08	JPP-21.1-012825	SOIL			01/28/25 09:30			01/29/25
			Corrosivity	9045D			01/30/25 14:37	
			Ignitability	1030			01/31/25 10:00	
			Reactive Cyanide	9012B		01/30/25	01/30/25 13:14	
			Reactive Sulfide	9034		01/30/25	01/30/25 15:45	

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Q1216-11	JPP-21.2-012825	SOIL		01/28/25 10:50		01/29/25
			Paint Filter	9095B		01/31/25 11:22
Q1216-12	JPP-21.2-012825	SOIL		01/28/25 10:50		01/29/25
			Corrosivity	9045D		01/30/25 14:40
			Ignitability	1030		01/31/25 10:08
			Reactive Cyanide	9012B	01/30/25	01/30/25 13:14
			Reactive Sulfide	9034	01/30/25	01/30/25 15:48
Q1216-15	JPP-26.1-012825	SOIL		01/28/25 11:35		01/29/25
			Paint Filter	9095B		01/31/25 11:30
Q1216-16	JPP-26.1-012825	SOIL		01/28/25 11:35		01/29/25
			Corrosivity	9045D		01/30/25 14:46
			Ignitability	1030		01/31/25 10:15
			Reactive Cyanide	9012B	01/30/25	01/30/25 13:14
			Reactive Sulfide	9034	01/30/25	01/30/25 15:52
Q1216-19	JPP-26.2-012825	SOIL		01/28/25 13:32		01/29/25
			Paint Filter	9095B		01/31/25 11:38
Q1216-20	JPP-26.2-012825	SOIL		01/28/25 13:32		01/29/25
			Corrosivity	9045D		01/30/25 14:50

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Ignitability	1030		01/31/25 10:22
Reactive Cyanide	9012B	01/30/25	01/30/25 13:14
Reactive Sulfide	9034	01/30/25	01/30/25 15:55

A

B

C

D



SAMPLE DATA

A

B

C

D

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25 08:41
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	JPP-18.1-012825	SDG No.:	Q1216
Lab Sample ID:	Q1216-03	Matrix:	SOIL
		% Solid:	83.3

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 11:08	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

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25 08:41
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	JPP-18.1-012825	SDG No.:	Q1216
Lab Sample ID:	Q1216-04	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	8.68	H	1	0	0	pH		01/30/25 14:33	9045D
Ignitability	NO		1	0	0	oC		01/31/25 09:52	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	1.59	J	1	0.19	10.0	mg/Kg	01/30/25 11:00	01/30/25 15:42	9034

Comments: pH result reported at temperature 20.2 °C

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25 09:30
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	JPP-21.1-012825	SDG No.:	Q1216
Lab Sample ID:	Q1216-07	Matrix:	SOIL
		% Solid:	90.4

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 11:15	9095B

Comments: _____

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25 09:30
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	JPP-21.1-012825	SDG No.:	Q1216
Lab Sample ID:	Q1216-08	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	8.95	H	1	0	0	pH		01/30/25 14:37	9045D
Ignitability	NO		1	0	0	oC		01/31/25 10:00	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	7.97	J	1	0.19	10.0	mg/Kg	01/30/25 11:00	01/30/25 15:45	9034

Comments: pH result reported at temperature 20.7 °C

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25 10:50
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	JPP-21.2-012825	SDG No.:	Q1216
Lab Sample ID:	Q1216-11	Matrix:	SOIL
		% Solid:	84.3

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 11:22	9095B

Comments:

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25 10:50
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	JPP-21.2-012825	SDG No.:	Q1216
Lab Sample ID:	Q1216-12	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	8.90	H	1	0	0	pH		01/30/25 14:40	9045D
Ignitability	NO		1	0	0	oC		01/31/25 10:08	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	1.59	J	1	0.19	10.0	mg/Kg	01/30/25 11:00	01/30/25 15:48	9034

Comments: pH result reported at temperature 20.9 °C

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25 11:35
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	JPP-26.1-012825	SDG No.:	Q1216
Lab Sample ID:	Q1216-15	Matrix:	SOIL
		% Solid:	82.8

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 11:30	9095B

Comments:

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25 11:35
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	JPP-26.1-012825	SDG No.:	Q1216
Lab Sample ID:	Q1216-16	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	8.56	H	1	0	0	pH		01/30/25 14:46	9045D
Ignitability	NO		1	0	0	oC		01/31/25 10:15	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	4.74	J	1	0.19	10.0	mg/Kg	01/30/25 11:00	01/30/25 15:52	9034

Comments: pH result reported at temperature 20.1 °C

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J = Estimated Value

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:	RU2 Engineering, LLC	Date Collected:	01/28/25 13:32
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	JPP-26.2-012825	SDG No.:	Q1216
Lab Sample ID:	Q1216-19	Matrix:	SOIL
		% Solid:	85.8

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 11:38	9095B

Comments:

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25 13:32
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	JPP-26.2-012825	SDG No.:	Q1216
Lab Sample ID:	Q1216-20	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	9.26	H	1	0	0	pH		01/30/25 14:50	9045D
Ignitability	NO		1	0	0	oC		01/31/25 10:22	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	4.76	J	1	0.19	10.0	mg/Kg	01/30/25 11:00	01/30/25 15:55	9034

Comments: pH result reported at temperature 20.9 °C

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MDL = Method Detection Limit

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QC RESULT SUMMARY

Initial and Continuing Calibration Verification

Client: RU2 Engineering, LLC

SDG No.: Q1216

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

Initial and Continuing Calibration Verification

Client: RU2 Engineering, LLC

SDG No.: Q1216

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

Initial and Continuing Calibration Blank Summary

Client: RU2 Engineering, LLC

SDG No.: Q1216

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

Preparation Blank Summary

Client: RU2 Engineering, LLC

SDG No.: Q1216

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

Duplicate Sample Summary

Client:	RU2 Engineering, LLC	SDG No.:	Q1216
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

Duplicate Sample Summary

Client:	RU2 Engineering, LLC	SDG No.:	Q1216
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

Duplicate Sample Summary

Client:	RU2 Engineering, LLC	SDG No.:	Q1216
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

Duplicate Sample Summary

Client:	RU2 Engineering, LLC	SDG No.:	Q1216
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

Duplicate Sample Summary

Client:	RU2 Engineering, LLC	SDG No.:	Q1216
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