

DAILY STATUS REPORT

Prepared By: Antonio Cardenas

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Bright Sun	X
TEMP.	< 32		32-50		50-70	X	70-85	X	>85	

NYSDEC BCP Site No:	C224219	Date:	8/23/2024
Project Name:	450 Union Street, Brooklyn, NY		

Consultant: Vektor Consultants – Antonio Cardenas Visitors: WSP – Chris Disclafani	Personnel On-Site: Geo-Solutions Inc.- Subcontractor
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Work Activities Performed: <ul style="list-style-type: none"> GSI introduced a 9% total cement addition using slag to Portland ratio 2:1 by weight of soil reagent mix for ISS-2 within two overlapping columns. The performance parameters from the ISS rig's onboard data monitoring device are appended to this report as part of GSI's daily report.

Community Air Monitoring Program (CAMP) <p>An Upwind and Downwind CAMP stations were placed within the perimeters of the Site during drilling activities. The Upwind CAMP station was in the northwest portion of the Site and the Downwind CAMP station was in the southeast portion of the Site as the wind was consistently coming from the northwest.</p> <p>Background Levels (Initial Readings at Start of Day): PID: 0.0 ppm Dust: 0.0363 mg/m³</p> <p>Highest Levels: PID: 0.0 ppm Dust: 0.0976 mg/m³</p> <ul style="list-style-type: none"> Upwind CAMP was implemented during C&D restaging. CAMP equipment consisted of a DustTrack II Model 8530; S/N: 8530210705, AND MiniRAE 3000, Model PGM-7320 photoionization detector (PID); S/N: 592-601281. Downwind CAMP was implemented during C&D restaging. CAMP equipment consisted of a DustTrack II Model 8530; S/N: 8530221304, AND MiniRAE 3000, Model PGM-7320 photoionization detector (PID); S/N:592-926055. No VOC or dust concentrations were detected in exceedance of the daily short-term exposure limit (STEL) at the work area CAMP stations.
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Problems Encountered None

Planned Activities for the Next Day Continued removal of the obstructions within the entire treatment area as per the NYSDEC approval of the Addendum Letter to the Pilot Test Work Plan for ISS.

SITE PLAN WITH LOCATIONS

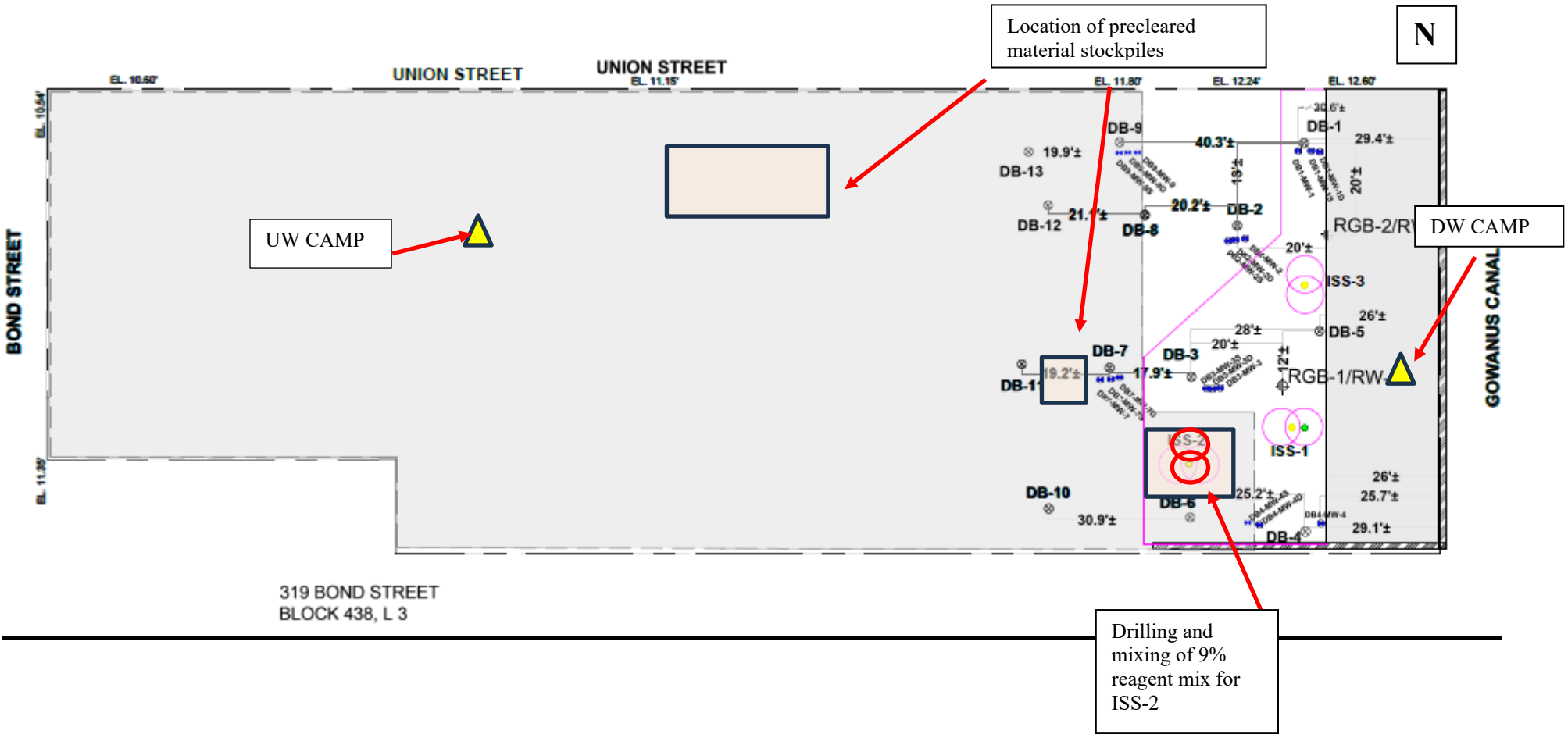


Photo Log

Photo 1:
View of preparation for ISS-2 drilling,
facing west.



Photo 2:
ISS drilling and introduction of the 9%
reagent mix for ISS-2, facing north.



Photo 3:
GSI mixing drilling spoils with grout
mix, facing north.



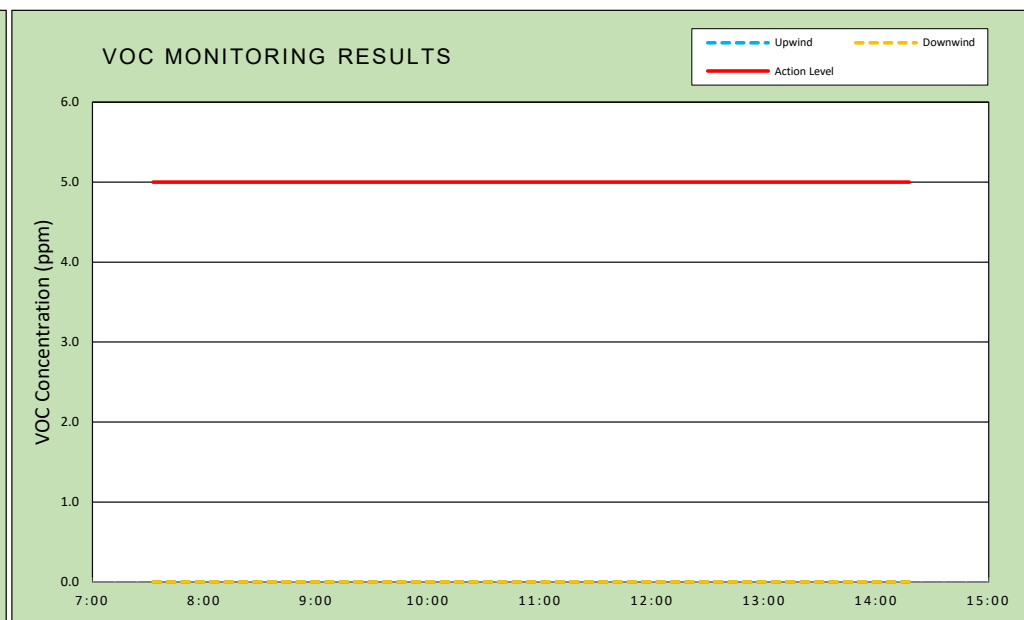
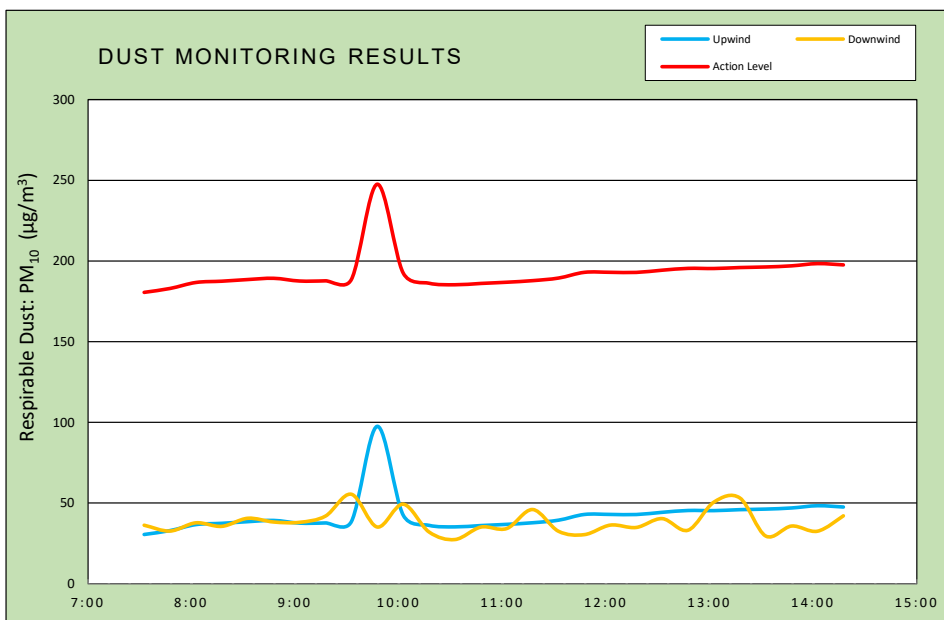
Photo 4:
View of remaining spoils covered with
poly sheeting, facing south.



vEKtor consultants	DAILY AIR MONITORING REPORT 450 Union Street Brooklyn, New York	08/23/2024	
		Rev. No. 0	Page 1 of 2
		Project Number:	
		Dust Action Level	150 µg/m ³
37 W. 37th St, 6th Floor - New York, NY		VOC Action Level	5 ppm

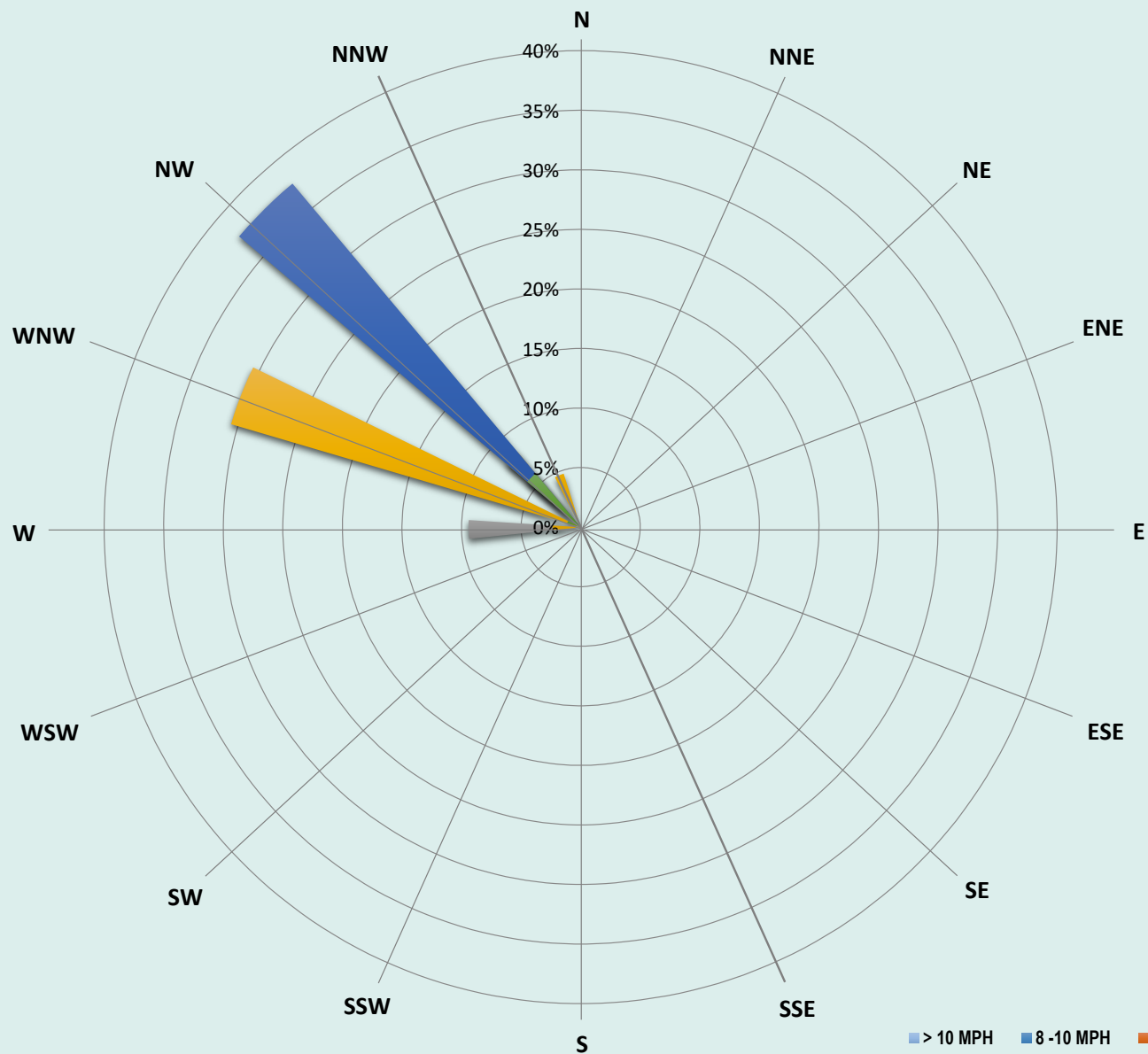
Weather Data Range for Work Day		Wind Direction	NW	Relative Humidity (%)	36.0 - 75.0	Daily Rain Total (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temperature (°F)	65.0 - 82.0	Wind Speed (MPH)	0.6 - 5.5	Barometer (inHg)	30.30 - 30.30	Avg. Dew Point Temp (°F)	55.5	

Station Location	Daily Avg. Dust Concentration ($\mu\text{g}/\text{m}^3$)	Max 15-Min Dust Concentration ($\mu\text{g}/\text{m}^3$)	Time of Max Dust Reading	Daily Avg. VOC Concentration (ppm)	Max 15-Min VOC Concentration (ppm)	Time of Max VOC Reading
Upwind	42.5	97.6	9:48	0.0	0.0	7:33
Downwind	38.2	55.5	9:33	0.0	0.0	7:33



Air Monitoring Notes:

Weather Notes:



vEKtor - 450 Union St
Air Monitoring
08/23/24
Wind Speed & Direction
Daily Readings

■ > 10 MPH
 ■ 8 - 10 MPH
 ■ 6 - 8 MPH
 ■ 4 - 6 MPH
 ■ 2 - 4 MPH
 ■ 1 - 2 MPH
 ■ Calm

Friday, August 23, 2024				
Number of Instances Where Downwind Particulates				0
Number of Comparable Data Points =				28
Start Time:				7:33
End Time:				14:18
PARTICULATE DATA				
Upwind		Downwind		Exceeds Particulate Alarm Limit
Time	15-Min Avg Concentration (ug/m ³)	Time	15-Min Avg Concentration (ug/m ³)	
7:33	30.6	7:33	36.3	-
7:48	33.0	7:48	32.7	-
8:03	36.7	8:03	37.8	-
8:18	37.5	8:18	35.6	-
8:33	38.5	8:33	40.6	-
8:48	39.3	8:48	38.3	-
9:03	37.6	9:03	38.1	-
9:18	37.7	9:18	41.9	-
9:33	38.5	9:33	55.5	-
9:48	97.6	9:48	35.2	-
10:03	42.6	10:03	49.3	-
10:18	36.2	10:18	32.1	-
10:33	35.3	10:33	27.4	-
10:48	36.1	10:48	35.1	-
11:03	36.8	11:03	34.2	-
11:18	37.8	11:18	46.0	-
11:33	39.4	11:33	32.5	-
11:48	43.0	11:48	30.5	-
12:03	43.0	12:03	36.4	-
12:18	42.9	12:18	34.9	-
12:33	44.3	12:33	40.4	-
12:48	45.4	12:48	33.2	-
13:03	45.3	13:03	50.6	-
13:18	45.9	13:18	53.2	-
13:33	46.3	13:33	29.6	-
13:48	47.0	13:48	35.8	-
14:03	48.4	14:03	32.6	-
14:18	47.6	14:18	42.1	-

Friday, August 23, 2024				
Number of Instances Where Downwind VOCs Exceeds				0
Number of Comparable Data Points =				0
Start Time:				7:33
End Time:				14:18
PID DATA				
Upwind		Downwind		Exceeds VOC Alarm Limit
Time	15-Min Avg Concentration (ppm)	Time	15-Min Avg Concentration (ppm)	
7:33	0.0	7:33	0.0	-
7:48	0.0	7:48	0.0	-
8:03	0.0	8:03	0.0	-
8:18	0.0	8:18	0.0	-
8:33	0.0	8:33	0.0	-
8:48	0.0	8:48	0.0	-
9:03	0.0	9:03	0.0	-
9:18	0.0	9:18	0.0	-
9:33	0.0	9:33	0.0	-
9:48	0.0	9:48	0.0	-
10:03	0.0	10:03	0.0	-
10:18	0.0	10:18	0.0	-
10:33	0.0	10:33	0.0	-
10:48	0.0	10:48	0.0	-
11:03	0.0	11:03	0.0	-
11:18	0.0	11:18	0.0	-
11:33	0.0	11:33	0.0	-
11:48	0.0	11:48	0.0	-
12:03	0.0	12:03	0.0	-
12:18	0.0	12:18	0.0	-
12:33	0.0	12:33	0.0	-
12:48	0.0	12:48	0.0	-
13:03	0.0	13:03	0.0	-
13:18	0.0	13:18	0.0	-
13:33	0.0	13:33	0.0	-
13:48	0.0	13:48	0.0	-
14:03	0.0	14:03	0.0	-
14:18	0.0	14:18	0.0	-

Project:	450 Union Remediation	Project No.:	24-071	Date:	08/23/24
Client:	2201 Union LLC	Location:	Brooklyn, NY	Day of Week:	Friday
Owner:	2201 Union LLC	Superintendent:	Rick McKay	Days on Site:	14
Manager:	Trae Deri	Engineer:	Srujan Prasad	Shift Times:	7:00-17:00

Weather:		
Low: 63	Cloud Cover: Sunny	Wind: 5-10MPH
High: 79	Precipitation: 0"	Direction: NW
Description of Work Activities:		
<ul style="list-style-type: none"> - 0700 to 0730, GSI held a tailgate safety meeting and discussed the day's planned activities with site personnel. - 0730 to 0930, GSI backfilled the columns B3 and B4 using kobelco excavator and moving spoils. - 0800 to 0830, prepped batch plant for production of grout. - 0830 to 0900, GSI added grout line, staked column. - From 0950 to 1057, GSI Installed column B3. Following the completion of the column, GSI collected a sample at 25 ftbgs and casted the material into cylinders. - From 1136 to 1245, GSI Installed column B4. Following the completion of the column, GSI collected a sample at 35 ftbgs and casted the material into cylinders. - 1330 to 1400, Kobelco excavator managed ISS spoils, fueled equipment, washed out lines and performed general maintenance. - 1500, All GSI personnel offsite. 		
Conversation with Client/Inspector:		
Production Delays:		
Safety Topics:		
Discussed: Burn Hazards and Injury Prevention Safety Talk.		

Rick McKay
 Foreman/Superintendent

08/23/24
 Date

Project:	450 Union Remediation	Project No.:	24-071	Date:	08/23/24
Client:	2201 Union LLC	Location:	Brooklyn, NY	Day of Week:	Friday
Owner:	2201 Union LLC	Superintendent:	Rick Mckay	Days on Site:	14
Manager:	Trae Deri	Engineer:	Srujan Prasad	Shift Times:	7:00-17:00
Production:			Completion:		
Today:	228.31 CY	2 Columns	9% Columns		
To-Date:	455.65 CY	4 Columns	10.36% CY		
Materials Received:					
Material	Unit	Today	Total	Notes	
Slag- Grade 120	Ton	0	76		
Portland Cement - Type 1L	Ton	0	25		
Hours	Equipment	Task	Hours	Employees On Site	Trade
8.0	Offroad Forklift	Material Handling		Trae Deri	PM
8.0	185 Air Compressor	ISS Mixing	10.0	Rick McKay	SUPT
8.0	Conex box(1)	Storage	10.0	Srujan Prasad	ENG
8.0	300kw Generator	Batch Plant	8.0	Eric Shannon	DRILL
8.0	Lo-pro silo(2)	Cement Storage	8.0	Miguel Maldonado	LAB
8.0	Flash mixers (2)	Batch Plant	8.0	Daniel Oliveira	BPO
8.0	Moyno pump(2)	Batch Plant	8.0	Peter Liota	OP
8.0	Delmag Hydraulic Rig	ISS Mixing	8.0	Christopher Ramdial	Oiler
8.0	Manlift(1)	Maintenance	8.0	Steven Reda	LAB
8.0	Kobelco Excavaor	ISS Mixing	8.0	Santo Oliveri	OP
8.0	250kw Generator	Batch Plant			
88	TOTAL DAY HOURS		76	TOTAL DAY HOURS	

LEGEND:

SUPT- Superintendent, **PM**- Project Manager, **ENG** - Engineer, **SSHC** - Health & Safety Coordinator, **LAB** - Laborer, **OP** - Operator, **BPO** - Batch plant Operator, **OILER** - Oiler, **DRILLER** - Rig Opeartor

Rick McKay
Foreman/Superintendent

08/23/24

Date



Project:	450 Union Remediation	Project No:	24-071	Date:	08/23/24
Client:	2201 Union LLC	Location:	Brooklyn, NY	Day of Week:	Friday
Owner:	2201 Union LLC	Superintendent	Rick McKay	Days on Site:	14
Manager:	Trae Deri	Engineer:	Srujan Prasad	Shift Times:	7:00-17:00

Operator: Drill Rig: Delmag

AS-BUILT				Calculated Addition Rates																		
Date	Column ID	Start Time	Stop Time	Top of Col	Bottom of Col	Depth	Mixing Passes	Col. Dia.	# of Overlaps	Overlap Area	Effective Area	Effective Volume	Grout Required	Grout Used	Target Reagent Mix	Slag Addition		Portland Cement Addition		Water: Cement Ratio		
				ELEV	ELEV	FT		FT		FT²	FT²	CY	GAL	GAL	%	LBS	%	LBS	%			
8/23/2024	B3	9:50	10:57	12.0	-28.7	40.7	3	10	0	0	78.5	118.45	5,291	5,370	9.0%	22,397	6.1%	11,199	3.0%	1.0		
8/23/2024	B4	11:36	12:45	12.0	-28.0	40.0	3	10	1	4.5	74.1	109.86	4,907	5,049	9.0%	21,058	6.2%	10,529	3.1%	1.0		
										Production Today		228.31 CY			Material Used Today		21.7	Tons	10.9	Tons		
										Production To-Date		455.65 CY			Material Used To-Date		21.7	Tons	10.9	Tons		

Comments:
- GSI sampled column B3 and B4 at a depth of 25 and 35 feet.

Rick McKay
Foreman/Superintendent

SIGNED: _____
Client OC Manager

Project:	450 Union Remediation	Project No.:	24-071	Date:	08/23/24
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Owner:	2201 Union LLC	Superintendent:	Rick Mckay	Days on Site:	14
Manager:	Trae Deri	Engineer:	Srujan Prasad	Shift Times:	7:00-17:00

IN-SITU SOIL STABILIZATION - AUGER MIXING BATCH PLANT QUALITY CONTROL TESTING

Grout Testing

Date	Time	Water: Cement Ratio	Mud Balance S.G.
8/23/2024	10:05	1.0:1	1.51
8/23/2024	11:30	1.0:1	1.51
8/23/2024	12:15	1.0:1	1.51

Calibration Log

Device	Date	Calibration (Y/N)	NOTES
Mud Balance	8/23/2024	Y	
Scales	8/23/2024	Y	Verified scales accuracy within 1%
Comments:			

Rick Mckay

Foreman/Superintendent

Client QC Manager

Project: 450 Union Remediation	Project No.: 24-071	Date: 08/23/24
Client: 2201 Union LLC	Location: Brooklyn, NY	Day of Week: Friday
Owner: 2201 Union LLC	Superintendent: Rick McKay	Days on Site: 14
Manager: Trae Deri	Engineer: Srujan Prasad	Shift Times: 7:00-17:00

IN-SITU SOIL STABILIZATION - AUGER MIXING SAMPLE TESTING RESULTS

Project Specifications:

Perm:	$\leq 1 \times 10^{-6}$
UCS:	> 50 psi

Lab Results

Date	Time	Sample ID	Depth (bgs) (ft.)	Number of cylinders casted		UCS	Permeability	
				3x6s	2x4s	28 Day (psi)	28 Day (cm/s)	
8/19/24	11:42 AM	E6	18	8	8			
8/19/24	2:10 PM	E7	22	8	8			
8/23/24	11:10 AM	B3	25	8	8			
8/23/24	12:56 PM	B4	35	8	8			

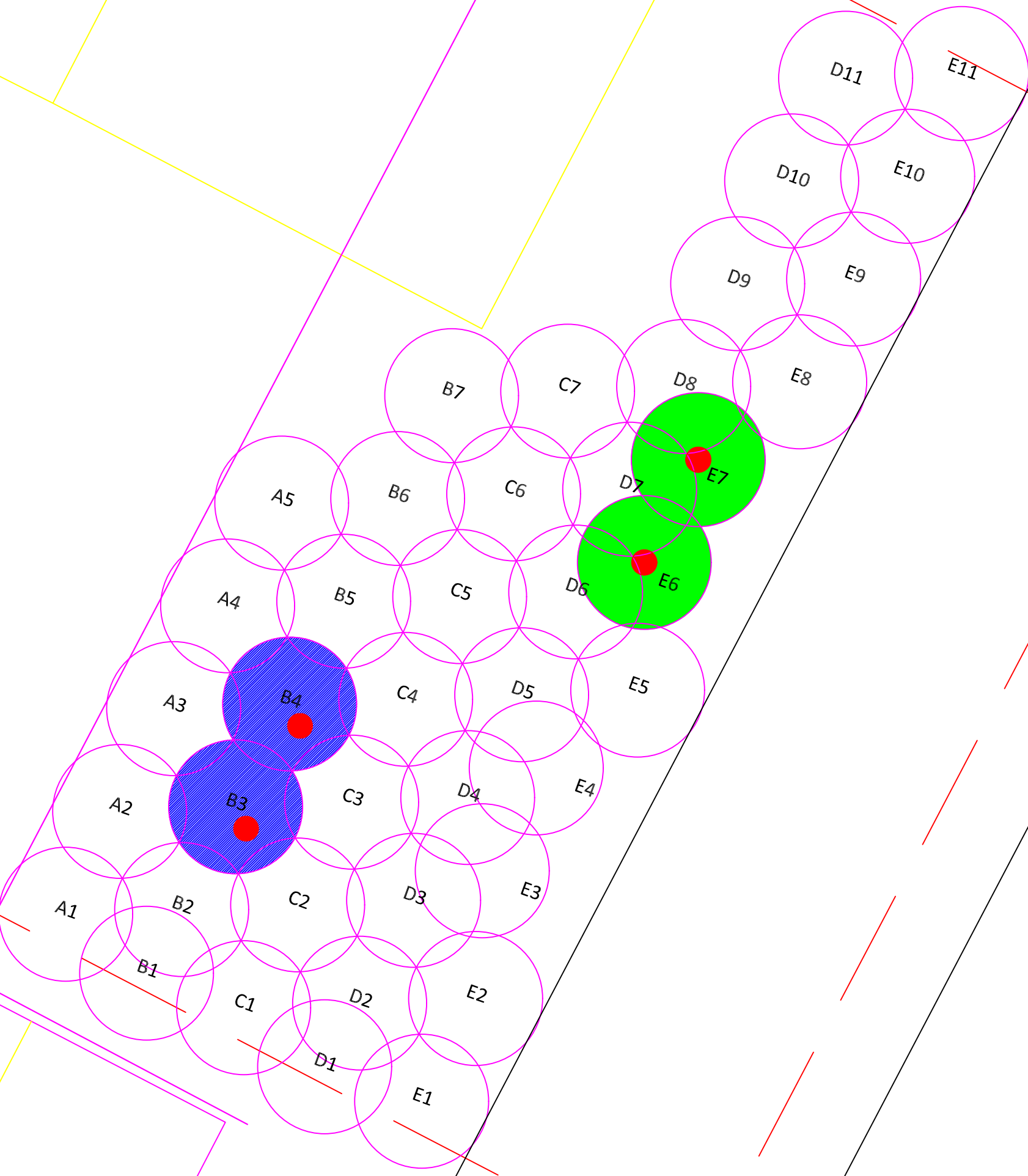
Comments:

Rick McKay

Foreman/Superintendent

Client QC Manager

- Previously completed Columns
- Columns completed today
- Sampled Columns
- Obstructed Columns



GOWANUS CANAL

GOWANUS

CANAL

REV		DESCRIPTION			CHECKED	
					APPROVED	
(A)	Revised	Check	Approved	PROPERTY OF GEO-SOLUTIONS, INC. IMPORTANT: THIS DRAWING PRINT IS LOANED FOR MUTUAL ASSISTANCE AND AS SUCH IS SUBJECT TO RECALL AT ANY TIME. INFORMATION CONTAINED HEREON IS NOT TO BE DISCLOSED OR REPRODUCED IN ANY FORM FOR THE BENEFIT OF PARTIES OTHER THAN NECESSARY SUBCONTRACTORS AND SUPPLIERS WITHOUT THE WRITTEN CONSENT OF GEO-SOLUTIONS, INC.		
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REV						
(C)	Revised	Check	Revised	Approved	Check	Approved

Brooklyn, NY Auger ISS Report



Job Site Data

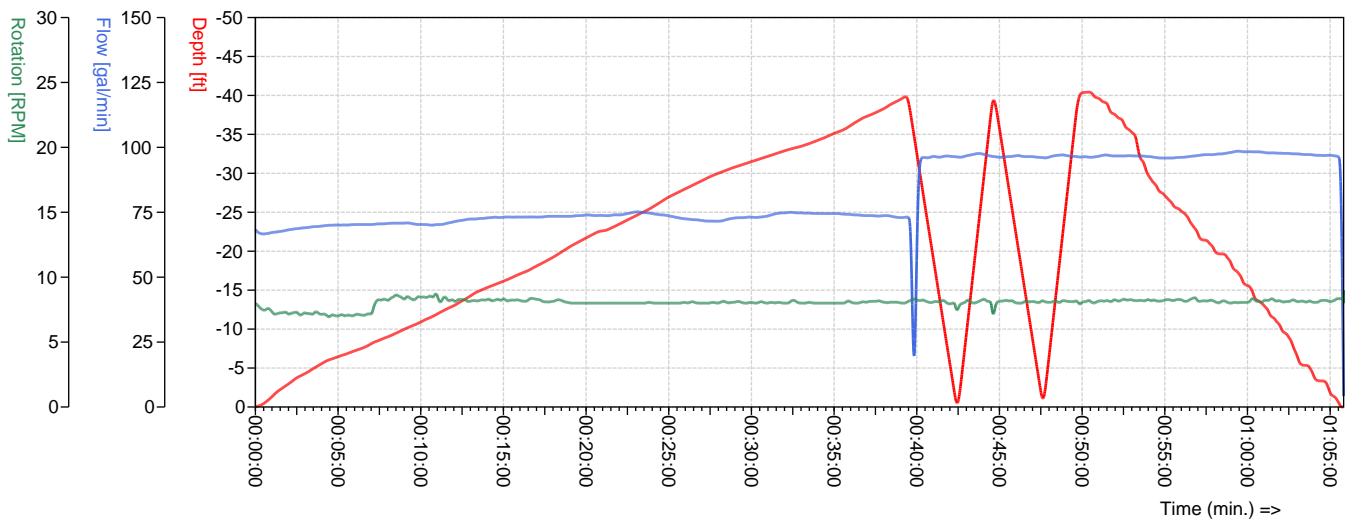
Project: Brooklyn, NY
JobID: 24-071
Client: Union LLC
Contractor: Geo-Solutions
Equipment ID: Delmag Rig

Data for Pile No: B3

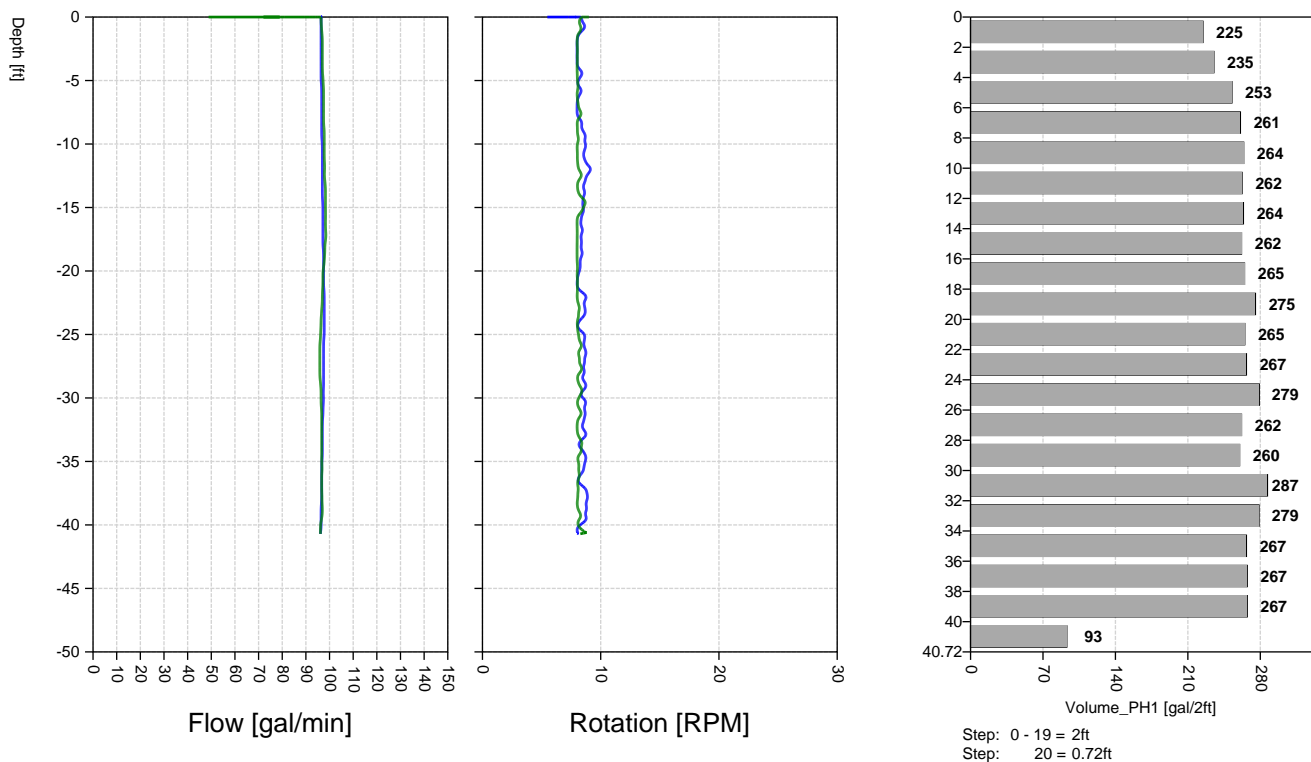
Date: 8/23/2024
Start of production: 9:51:04 AM
End of production: 10:56:52 AM
Total time: 01:05:48
Pause time: 00:00:00

Pile length: 40.72 ft
Total Grout: 5370 gal
Strokes: 3

Parameters vs. Time



Parameters vs. Depth



Comment

Brooklyn, NY Auger ISS Report



Job Site Data

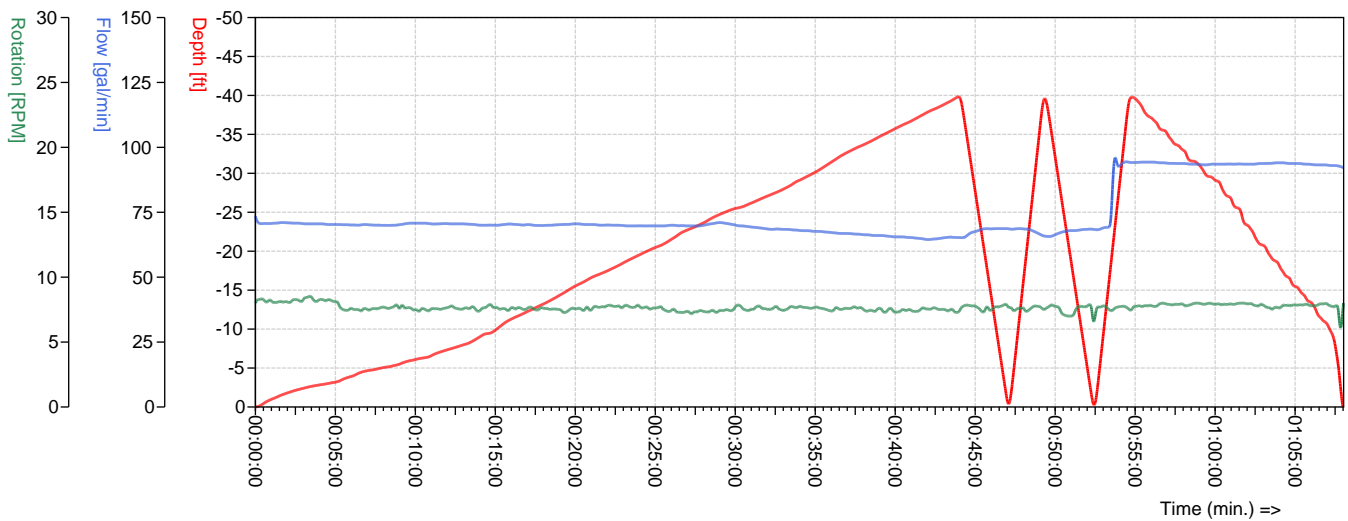
Project: Brooklyn, NY
JobID: 24-071
Client: Union LLC
Contractor: Geo-Solutions
Equipment ID: Delmag Rig

Data for Pile No: B4

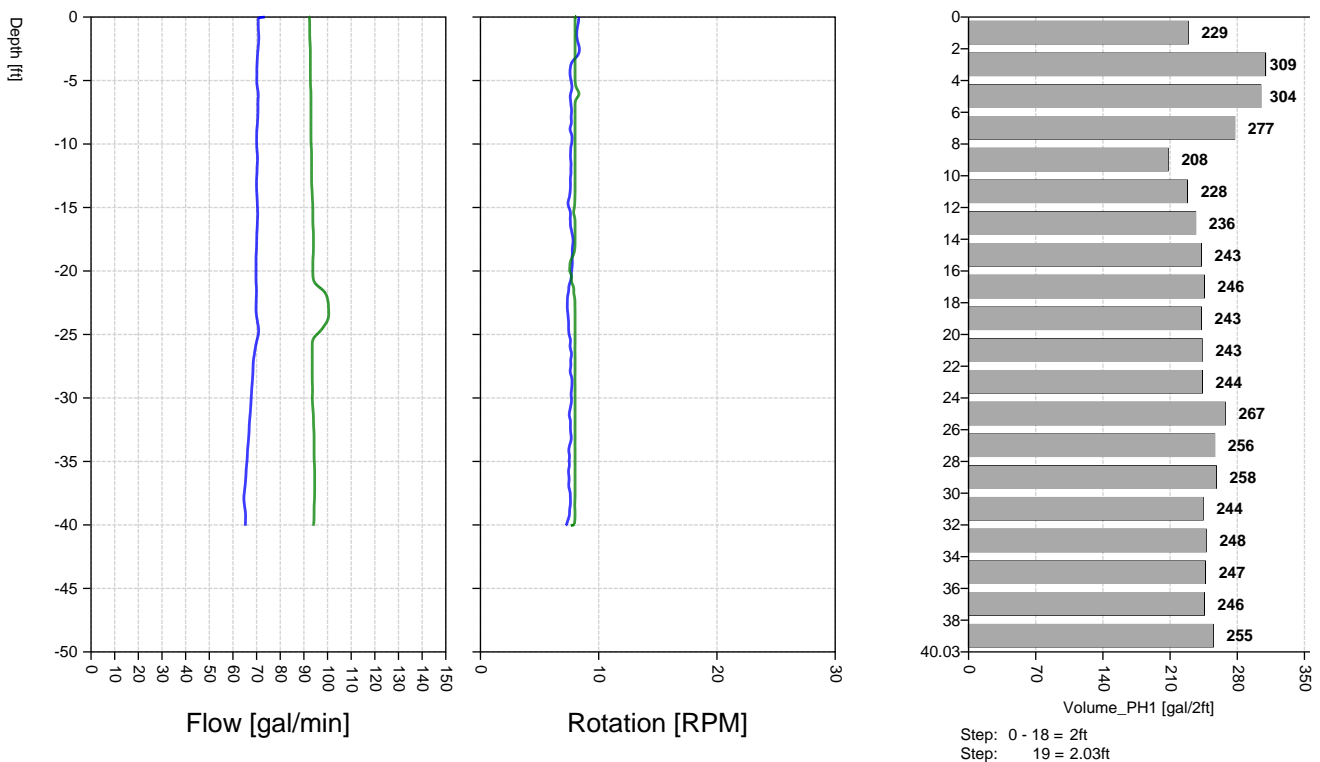
Date: 8/23/2024
Start of production: 11:37:01 AM
End of production: 12:45:02 PM
Total time: 01:08:01
Pause time: 00:00:00

Pile length: 40.03 ft
Total Grout: 5049 gal
Strokes: 3

Parameters vs. Time



Parameters vs. Depth



Comment