

450 UNION STREET NAPL GAUGING AND RECOVERY MONTHLY REPORT SEPTEMBER 2023

BCP Site No. C224219

This report serves to document Dense Non-Aqueous Phase Liquid (DNAPL) gauging and recovery performed by GZA GeoEnvironmental, Inc. (GZA), on behalf of National Grid, at the 450 Union Street property in Brooklyn, New York (Site). Consistent with the October 2020 Remedial Action Work Plan (RAWP) prepared by Langan on behalf of 450 Union LLC and 450 Union Developer LLC, DNAPL gauging, and recovery was performed at two wells (RW-01 and RW-02) which are located on the eastern portion of the Site.

Summary of Field Activities:

On September 19, 2023, GZA performed DNAPL gauging and recovery at RW-01 and RW-02. The table below provides a summary of this event, and the attached Table 1 summarizes gauging and recovery data collected by GZA to date.

		Post Recovery					
Well ID	Date	Depth to Water (ft)	Depth to NAPL (ft)	DNAPL Thickness (ft)	DNAPL Volume Removed (gal)	Depth to NAPL (ft)	DNAPL Thickness (ft)
RW-01	9/19/23	9.62	43.80	5.10	25	Trace	Trace
RW-02	9/19/23	9.70	51.81	6.54	110	Trace	Trace

- The area around each well was covered with polyethylene sheeting prior to performance of gauging and recovery activities.
- Approximately 135 gallons of DNAPL/water mixture was recovered from the two wells during the September 19, 2023, recovery event with a submersible pump and the Pulse Pump [®] Model LP1301.
- The recovered DNAPL/water and polyethylene sheeting/PPE were containerized in 55-gallon drums. Prior to leaving the Site, these drums were transported off-Site for disposal by Miller Environmental Group at the Waterworks, facility in Newburgh, New York (PPE), and Norlite facility in Cohoes, New York (DNAPL). A copy of the disposal manifests are attached.

Attachments: Table 1: Summary of NAPL Gauging and Recovery Activities

Attachment A: Disposal Manifest



Certification

I, James J. Clark, certify that I am currently a Qualified Environmental Professional as defined in 6 NYCRR Part 375 and that this field report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

James J. Clark, P.E., LEP **Qualified Environmental Professional** 10/18/2023 Date

Signature



TABLE 1

SUMMARY OF NAPL GAUGING ACTIVITIES

TABLE 1Summary of NAPL Gauging and Recovery Activities450 Union StreetBrooklyn, NY

Location	Prior to DNAPL Recovery				NAPL Recove		Volume of DNAPL Removed	Cumulative Volume of DNAPL Removed	Comments	
	Date	Depth to DNAPL (ft.)	DNAPL Thickness (ft)	Date/Time	Depth to DNAPL (ft.)	DNAPL Thickness (ft)	(gallons)	(gallons)		
RW-01 Total well depth = 48.90 ft.	4/19/2022	38.2	10.7	4/19/22 8:30	Trace	Trace	14	14	Flooding oberved prior to DNAPL recovery	
	5/20/2022	40	8.90	5/20/22 8:55	Trace	Trace	20	34	Some flooding oberved prior to DNAPL recovery	
	6/21/2022	39.17	9.73	6/21/2022	Trace	Trace	40	74	No flooding oberved	
	7/28/2022	39.34	9.56	7/28/2022	Trace	Trace	16	90	Flooding oberved prior to DNAPL recovery	
	8/30/2022	39.15	9.75	8/30/2022	Trace	Trace	20	110	No flooding oberved	
	9/28/2022	39.19	9.71	9/28/2022	Trace	Trace	15	125	No flooding oberved	
	10/26/2022	38.65	10.25	10/26/2022	Trace	Trace	35	160	Some flooding oberved prior to DNAPL recovery	
	11/29/2022	45.30	3.6	11/29/2022	Trace	Trace	20	180	No flooding oberved	
	12/28/2022	39.51	9.39	12/28/2022	Trace	Trace	35	215	No flooding oberved	
	1/31/2023	39.10	9.8	1/31/2023	Trace	Trace	25	240	Flooding observed prior to DNAPL recovery	
	2/21/2023	39.05	9.85	2/21/2023	Trace	Trace	27	267	Flooding observed prior to DNAPL recovery	
	3/28/2023	38.45	10.45	3/28/2023	Trace	Trace	50	317	No flooding oberved	
	4/1/2023								Site Inaccessible due to demolition	
	5/1/2023					1			Site Inaccessible due to demolition	
	6/8/2023	38.60	10.3	3/28/2023	Trace	Trace	40	357	No flooding oberved	
	7/6/2023	39.45	9.45	7/6/2023	Trace	Trace	40	397	No flooding oberved	
	8/15/2023	38.85	10.05	8/15/2023	Trace	Trace	20	417	Flooding observed prior to DNAPL recovery	
	9/19/2023	43.80	5.1	9/19/2023	Trace	Trace	25	442	Flooding observed prior to DNAPL recovery	

TABLE 1Summary of NAPL Gauging and Recovery Activities450 Union StreetBrooklyn, NY

Location	Prior to DNAPL Recovery		Recovery after Removal			Volume of DNAPL Removed	Cumulative Volume of DNAPL Removed	Total Cumulative Volume of DNAPL Removed	Comments	
	Date	Depth to DNAPL (ft.)	DNAPL Thickness (ft)	Date/Time	Depth to DNAPL (ft.)	DNAPL Thickness (ft)	(gallons)	(gallons)	(gallons)	
RW-02 Total well depth = 58.35 ft.	4/19/2022	39.00	19.35	4/19/22 10:30	42.0	16.35	31	31	45	Well cap damaged - needs to be replaced
	5/20/2022	39.75	18.60	5/20/22 11:00	50.41	10.66	68	99	133	Well cap damaged - needs to be replaced
	6/21/2022	43.17	15.18	6/21/2022	Trace	Trace	80	179	253	Well cap replaced wih a 6-inch J-Plug
	7/28/2022	51.75	6.60	7/28/2022	Trace	Trace	22	201	291	
	8/30/2022	49.9	8.45	8/30/2022	56.85	1.5	35	236	346	
	9/28/2022	46.82	11.53	9/28/2022	Trace	Trace	65	301	426	
	10/26/2022	47.20	11.15	10/26/2022	Trace	Trace	105	406	566	
	11/29/2022	49.20	9.15	11/29/2022	Trace	Trace	80	486	666	
	12/28/2022	50.53	7.82	12/28/2022	Trace	Trace	55	541	756	
	1/31/2023	52.60	5.75	1/31/2023	Trace	Trace	70	611	851	
	2/21/2023	52.67	5.68	2/21/2023	57.5	0.85	82	693	960	
	3/28/2023	52.53	5.82	2/21/2023	Trace	Trace	50	743	1060	
										Site Inaccessible due to demolition
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	6/8/2023	45.40	12.95	6/8/2023	56.5	1.85	140	883	1240	
	7/6/2023	48.25	10.10	7/6/2023	57	1.35	110	993	1390	
	8/15/2023	49.50	8.85	8/15/2023	Trace	Trace	130	1123	1540	
	9/19/2023	51.81	6.54	9/19/2023	Trace	Trace	110	1233	1675	



ATTACHMENT A

DISPOSAL MANIFEST

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GZA GeoEnvironmental of New York