

DNAPL RECOVERY LETTER REPORT

WORK ASSIGNMENT D007622-30

FORMER SPIC AND SPAN CLEANERS & DYERS, INC. SITE GREENPOINT/EAST WILLIAMSBURG INDUSTRIAL AREA

SITE NO. 224129 KINGS (C), NY

Prepared for:

NEW YORK STATE

DEPARTMENT OF ENVIRONMENTAL CONSERVATION

625 Broadway, Albany, New York

Basil Seggos, Acting Commissioner

DIVISION OF ENVIRONMENTAL REMEDIATION REMEDIAL BUREAU B

URS Corporation

257 West Genesee Street, Suite 400 Buffalo, New York 14202-2657

URS

February 18, 2016

Mr. David Harrington, P.E., Project Manager New York State Department of Environmental Conservation Division of Environmental Remediation Remedial Bureau B 625 Broadway, 12th Floor Albany, NY 12233-7016

RE: Contract D007622, Work Assignment No. 30

Former Spic and Span Cleaners & Dyers, Inc. Site No. 224129, Brooklyn, New York DNAPL Recovery Status Letter Report

Dear Mr. Harrington:

URS Corporation – New York (URS) has prepared this letter updating on the status of DNAPL removal activities at the former Spic and Span Cleaners & Dyers, Inc. site, located at 315 Kingsland Avenue (Figure 1). DNAPL removal activities began on September 14, 2015, and continued through October 30, 2015 (Table 1). DNAPL removal was performed at wells DEC-136, DEC-136D, DEC-092D, EW-01, EW-02, DEC-024D, and DEC-024DR (Figure 2). At the end of October 2015, DNAPL removal was temporarily suspended due to only trace quantities of DNAPL accumulation and recovery during the latter part of October 2015. The temporary hiatus should allow the formation to re-equilibrate.

DNAPL Removal

DNAPL removal at DEC-136 was performed using a Waterra Inertial Hydrolift pump with dedicated/disposable HDPE tubing and check valves. At DEC-136D, DEC-092D, EW-01, EW-02, DEC-024, DEC-024D, and DEC-024DR, DNAPL removal was performed using dedicated/disposable, 36 inch long 1-liter HDPE bailers. In total 267.50 gallons (3,357.44 lbs) of DNAPL was removed at the site through October 30, 2015 (Table 2). The majority of DNAPL was removed from one well, DEC-136. Attachment I provides DNAPL product recovery summaries for each well and Attachment II provides the well construction logs. A photographic log is provided as Attachment III.

Well Redevelopment/Surging

Well redevelopment took place at wells DEC-024, DEC-024D, DEC-024DR, DEC-092D and EW-02. Redevelopment was performed using a Waterra Inertial Hydrolift pump with dedicated/disposable HDPE tubing and check valves to induce a hydraulic gradient to the wells and promote DNAPL accumulation. The purge water removed from all wells had visible sheens, with occasional blebs of product, and also exhibited concentrated levels of dissolved phase chlorinated volatile organic compounds (CVOCs) as evidenced by high photoionization detector (PID) readings. Total groundwater purge volumes were: 165 gallons was removed from DEC-024 over three days; 110

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gallons was removed from DEC-024D on a single day; 105 gallons was removed from DEC-024DR on a single day; 110 gallons was removed from DEC-092D over two days; and 110 gallons was removed from EW-02 on a single day.

Air Monitoring

Throughout DNAPL removal activities, air monitoring was performed using a combination of PID readings, as well as substance-specific monitoring using a Dräger Chip Measurement System (CMS). CMS chips employed included Vinyl Chloride, Tetrachloroethene, Trichloroethene, and Benzene. At no point during DNAPL removal did concentrations of these four substances exceed Occupational Health Safety Administration (OSHA) permissible exposure limits (PELs) or short-term exposure limits (STELs). Additionally, breathing zone and downwind PID measurements ranged from background to 2.3 ppm and were within community air monitoring requirements at all times per the Health and Safety Plan.

Recommendations

DNAPL monitoring and removal activities (if DNAPL is present) should resume in February 2016. If DNAPL remains at only trace quantities, DNAPL monitoring should be conducted at monthly intervals. One or two additional shallow DNAPL extraction wells should be installed in the area north of DEC-136 and constructed similarly to target the DNAPL-contaminated upper sand layer observed during drilling at other nearby soil borings as part of the remedial investigation and pilot study. The new wells should be included in DNAPL monitoring and removal activities.

We appreciate working with the Department on this challenging project.

Sincerely,

URS Corporation

Michael Gutmann Project Manager

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Figure 1 – Site Location

Figure 2 - Monitoring Well and Soil Boring Locations

Table 1 – Daily Summary of DNAPL Recovery at Well Location

Table 2 – Combined Summary of DNAPL Observations/DNAPL Recovery

Attachment I – DNAPL Product Recovery Summaries

Attachment II – Well Construction Logs

Attachment III - Photographic Log

cc:

George Kisluk, URS Buffalo, NY

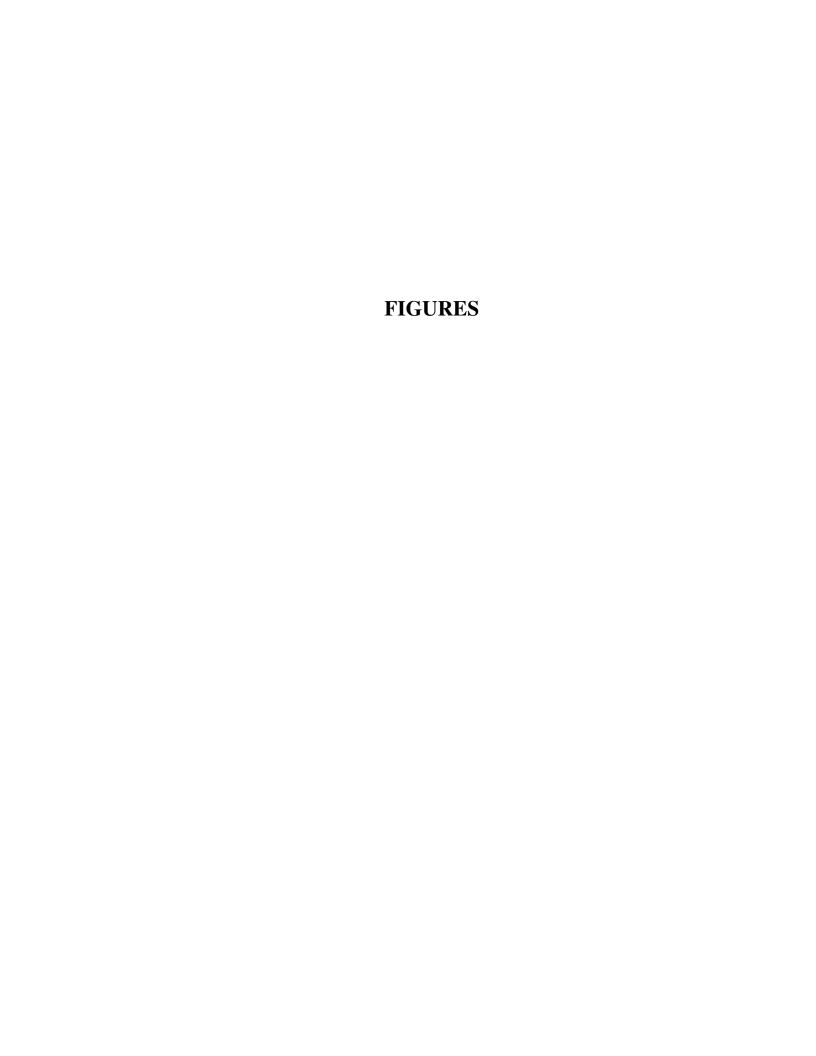






TABLE 1

DAILY SUMARY OF DNAPL RECOVERY AT WELL LOCATION
FORMER SPIC AND SPAN CLEANERS AND DYERS SITE

Date	DEC-136	DEC-136D	DEC-092D	EW-01	EW-02	DEC-024	DEC-024D	DEC-024DR
2/4/2015	0.35	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2/5/2015	45.42	n/a	n/a	4.03	n/a	n/a	n/a	n/a
2/6/2015	34.07	n/a	n/a	n/a	18.93	n/a	n/a	n/a
6/4/2014	n/a	n/a	0.24	n/a	n/a	n/a	0.42	0.61
6/9/2014	n/a	n/a	0.29	n/a	n/a	n/a	0.85	1.00
6/11/2014	n/a	n/a	0.40	n/a	n/a	n/a	0.42	1.35
2/5/2015	n/a	n/a	0.03	n/a	n/a	n/a	0.03	0.50
2/6/2015	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
3/23/2015	102.21	n/a	n/a	n/a	n/a	n/a	n/a	n/a
3/24/2015	90.85	n/a	n/a	n/a	n/a	n/a	n/a	n/a
3/25/2015	94.64	n/a	n/a	n/a	n/a	n/a	n/a	n/a
3/26/2015	140.06	n/a	n/a	n/a	n/a	n/a	n/a	n/a
3/27/2015	85.17	n/a	n/a	n/a	n/a	n/a	n/a	n/a
9/14/2015	trace	0.33	n/a	trace	trace	n/a	n/a	0.14
9/15/2015	39.75	trace	0.33	trace	n/a	n/a	0.08	0.33
9/16/2015	82.33	0.83	0.89	trace	n/a	n/a	trace	1.00
9/17/2015	51.10	0.17	0.29	0.17	trace	n/a	trace	0.11
9/18/2015	14.20	0.14	trace	0.19	trace	n/a	trace	0.11
9/22/2015	54.89	trace	trace	0.69	trace	n/a	n/a	n/a
9/23/2015	34.07	trace	0.11	trace	trace	n/a	0.50	1.22
9/24/2015	34.07	0.11	0.50	trace	0.17	trace	trace	trace
9/25/2015	11.36	trace	trace	0.28	trace	trace	trace	trace
9/28/2015	n/a	trace	trace	trace	trace	trace	trace	n/a
9/29/2015	12.30	trace	trace	trace	trace	0.17	trace	trace
9/30/2015	15.14	trace	trace	trace	trace	0.61	0.17	0.25
10/1/2015	1.32	trace	trace	trace	trace	trace	0.22	trace
10/2/2015	trace	trace	trace	trace	trace	trace	trace	trace
10/5/2015	n/a	trace	trace	trace	trace	trace	trace	trace
10/6/2015	11.36	trace	trace	trace	trace	trace	trace	trace
10/7/2015	1.89	trace	0.17	trace	trace	0.22	trace	trace
10/8/2015	0.00	trace	0.11	trace	trace	trace	trace	trace
10/9/2015	0.00	trace	trace	trace	trace	trace	trace	trace
10/12/2015	0.00	trace	trace	trace	trace	trace	trace	trace
10/13/2015	7.57	trace	trace	trace	trace	trace	trace	trace
10/14/2015	6.62	trace	trace	trace	trace	trace	trace	trace
10/15/2015	2.08	trace	trace	trace	trace	trace	trace	trace
10/16/2015	trace	trace	trace	trace	trace	trace	trace	trace
10/27/2015	trace	trace	trace	trace	trace	trace	trace	trace
10/28/2015	trace	0.03	trace	trace	trace	trace	0.03	trace
10/29/2015	trace	trace	trace	trace	trace	trace	trace	trace
10/30/2015	trace	trace	trace	trace	trace	trace	trace	trace
Total DNAPL Recovery (L)	972.82	1.61	3.36	5.36	19.10	1.00	2.72	6.63

TABLE 2
COMBINED SUMMARY OF DNAPL OBSERVATIONS/DNAPL RECOVERY
FORMER SPIC AND SPAN CLEANERS AND DYERS SITE

Well ID	Screen Interval (ft bgs)	Date Checked	DNAPL Observation/ Recovery (L)	Total DNAPL Recovered to Date (L)	Total DNAPL Recovered in Bailer (in.)*	Total DNAPL Recovered to Date (in.)*
	~85 <i>j</i>	9/24/2015	trace	trace	trace	0
		9/25/2015	trace	0.00	trace	0
		9/28/2015	trace	0.00	trace	0
		9/29/2015	0.17	0.17	6	6
		9/30/2015	0.61	0.78	22	28
		10/1/2015	trace	0.78	trace	28
		10/2/2015	trace	0.78	trace	28
		10/5/2015	trace	0.78	trace	28
		10/6/2015	trace	0.78	trace	28
		10/7/2015	0.22	1.00	8	36
DEC-024	17 to 32	10/8/2015	trace	1.00	trace	36
		10/9/2015	trace	1.00	trace	36
		10/12/2015	trace	1.00	trace	36
		10/13/2015	trace	1.00	trace	36
		10/14/2015	trace	1.00	trace	36
		10/15/2015	trace	1.00	trace	36
		10/16/2015	trace	1.00	trace	36
		10/27/2015	trace	1.00	trace	36
		10/28/2015	trace	1.00	trace	36
		10/29/2015	trace	1.00	trace	36
		10/30/2015	trace	1.00	trace	36

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	Screen		DNAPL	Total DNAPL	Total DNAPL	Total DNAPL
Well ID	Interval (ft	Date Checked	Observation/	Recovered to		Recovered to
	bgs)		Recovery (L)	Date (L)	Bailer (in.)*	Date (in.)*
		6/4/2014	0.42	0.42	15	15
		6/9/2014	0.85	1.27	30.5	45.5
		6/11/2014	0.42	1.69	15.25	60.75
		2/5/2015	0.03	1.72	Trace	60.75
		9/15/2015	0.08	1.80	3	63.75
		9/16/2015	trace	1.80	trace	63.75
		9/17/2015	trace	1.80	trace	63.75
		9/18/2015	trace	1.80	trace	63.75
		9/23/2015	0.50	2.30	18	81.75
		9/24/2015	trace	2.30	trace	81.75
	44 to 54	9/25/2015	trace	2.30	trace	81.75
		9/28/2015	trace	2.30	trace	81.75
		9/29/2015	trace	2.30	trace	81.75
		9/30/2015	0.17	2.47	6	87.75
DEC-024D		10/1/2015	0.22	2.69	8	95.75
DEC-024D		10/2/2015	trace	2.69	trace	95.75
		10/5/2015	trace	2.69	trace	95.75
		10/6/2015	trace	2.69	trace	95.75
		10/7/2015	trace	2.69	trace	95.75
		10/8/2015	trace	2.69	trace	95.75
		10/9/2015	trace	2.69	trace	95.75
		10/12/2015	trace	2.69	trace	95.75
		10/13/2015	trace	2.69	trace	95.75
		10/14/2015	trace	2.69	trace	95.75
		10/15/2015	trace	2.69	trace	95.75
		10/16/2015	trace	2.69	trace	95.75
		10/27/2015	trace	2.69	trace	95.75
		10/28/2015	0.03	2.72	1	96.75
		10/29/2015	trace	2.72	trace	96.75
		10/30/2015	trace	2.72	trace	96.75

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	bgs)		Recovery (L)	Date (L)	Bailer (in.)*	Date (in.)*
		6/4/2014	0.61	0.61	22	22
		6/9/2014	1.00	1.61	36	58.00
		6/11/2014	1.35	2.96	48.25	106.25
		2/5/2015	0.50	3.46	18	124.25
		9/14/2015	0.14	3.60	5	129.25
		9/15/2015	0.33	3.93	12	141.25
		9/16/2015	1.00	4.93	36	177.25
		9/17/2015	0.11	5.04	4	181.25
		9/18/2015	0.11	5.15	4	185.25
		9/23/2015	1.22	6.38	44	229.25
	43 to 53	9/24/2015	trace	6.38	trace	229.25
		9/25/2015	trace	6.38	trace	229.25
		9/29/2015	trace	6.38	trace	229.25
		9/30/2015	0.25	6.63	9	238.25
DEC-024DR		10/1/2015	trace	6.63	trace	238.25
DEC-024DIX		10/2/2015	trace	6.63	trace	238.25
		10/5/2015	trace	6.63	trace	238.25
		10/6/2015	trace	6.63	trace	238.25
		10/7/2015	trace	6.63	trace	238.25
		10/8/2015	trace	6.63	trace	238.25
		10/9/2015	trace	6.63	trace	238.25
		10/12/2015	trace	6.63	trace	238.25
		10/13/2015	trace	6.63	trace	238.25
		10/14/2015	trace	6.63	trace	238.25
		10/15/2015	trace	6.63	trace	238.25
		10/16/2015	trace	6.63	trace	238.25
		10/27/2015	trace	6.63	trace	238.25
		10/28/2015	trace	6.63	trace	238.25
		10/29/2015	trace	6.63	trace	238.25
		10/30/2015	trace	6.63	trace	238.25

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	Screen		DNAPL	Total DNAPL	Total DNAPL	Total DNAPL
Well ID	Interval (ft	Date Checked	Observation/	Recovered to	Recovered in	Recovered to
	bgs)		Recovery (L)	Date (L)	Bailer (in.)*	Date (in.)*
		6/4/2014	0.24	0.24	8.5	8.5
		6/9/2014	0.29	0.53	10.5	19.00
		6/11/2014	0.40	0.93	14.5	33.50
		2/5/2015	0.03	0.96	Trace	33.50
		9/15/2015	0.33	1.29	12	45.50
		9/16/2015	0.89	2.18	32	77.50
		9/17/2015	0.29	2.47	10.5	88.00
		9/18/2015	trace	2.47	trace	88.00
		9/22/2015	trace	2.47	trace	88.00
		9/23/2015	0.11	2.59	4	92.00
		9/24/2015	0.50	3.09	18	110.00
		9/25/2015	trace	3.09	trace	110.00
		9/28/2015	trace	3.09	trace	110.00
	48 to 58	9/29/2015	trace	3.09	trace	110.00
		9/30/2015	trace	3.09	trace	110.00
DEC-092D		10/1/2015	trace	3.09	trace	110.00
		10/2/2015	trace	3.09	trace	110.00
		10/5/2015	trace	3.09	trace	110.00
		10/6/2015	trace	3.09	trace	110.00
		10/7/2015	0.17	3.25	6	116.00
		10/8/2015	0.11	3.36	4	120.00
		10/9/2015	trace	3.36	trace	120.00
		10/12/2015	trace	3.36	trace	120.00
		10/13/2015	trace	3.36	trace	120.00
		10/14/2015	trace	3.36	trace	120.00
		10/15/2015	trace	3.36	trace	120.00
		10/16/2015	trace	3.36	trace	120.00
		10/27/2015	trace	3.36	trace	120.00
		10/28/2015	trace	3.36	trace	120.00
		10/29/2015	trace	3.36	trace	120.00
		10/30/2015	trace	3.36	trace	120.00

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	Screen		DNAPL	Total DNAPL	Total DNAPL	Total DNAPL
Well ID	Interval (ft	Date Checked	Observation/	Recovered to	Recovered in	Recovered to
	bgs)	- 1 - 1	Recovery (L)	Date (L)	Bailer (in.)*	Date (in.)*
		2/4/2015	0.35	0.35		
		2/5/2015	45.42	45.77		
		2/6/2015	34.07	79.84		
		3/23/2015	102.21	182.05		
		3/24/2015	90.85	272.90		
		3/25/2015	94.64	367.54		
		3/26/2015	140.06	507.60		
		3/27/2015	85.17	592.77		
		9/14/2015	trace	592.77		
		9/15/2015	39.75	632.52		
		9/16/2015	82.33	714.85		
		9/17/2015	51.10	765.95		
		9/18/2015	14.20	780.15		
		9/22/2015	54.89	835.04		
		9/23/2015	34.07	869.11		
		9/24/2015	34.07	903.18		
DEC-136	12.5 to 27.5	9/25/2015	11.36	914.54		
		9/29/2015	12.30	926.84		
		9/30/2015	15.14	941.98		
		10/1/2015	1.32	943.30		
		10/2/2015	trace	943.30		
		10/6/2015	11.36	954.66		
		10/7/2015	1.89	956.55		
		10/8/2015	0.00	956.55		
		10/9/2015	0.00	956.55		
		10/12/2015	0.00	956.55		
		10/13/2015	7.57	964.12		
		10/14/2015	6.62	970.74		
		10/15/2015	2.08	972.82		
		10/16/2015	trace	972.82		
		10/27/2015	trace	972.82		
		10/28/2015	trace	972.82		
		10/29/2015	trace	972.82		
		10/30/2015	trace	972.82		

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	Screen		DNAPL	Total DNAPL	Total DNAPL	Total DNAPL
Well ID	Interval (ft	Date Checked	Observation/	Recovered to	Recovered in	Recovered to
	bgs)		Recovery (L)	Date (L)	Bailer (in.)*	Date (in.)*
		9/14/2015	0.33	0.33		
		9/15/2015	trace	0.33		
		9/16/2015	0.83	1.17		
		9/17/2015	0.17	1.33		
		9/18/2015	0.14	1.47		
		9/22/2015	trace	1.47		
		9/23/2015	trace	1.47		
		9/24/2015	0.11	1.58		
		9/25/2015	trace	1.58		
		9/28/2015	trace	1.58		
		9/29/2015	trace	1.58		
		9/30/2015	trace	1.58		
		10/1/2015	trace	1.58		
DEC-136D	43 to 53	10/2/2015	trace	1.58		
220 1302	13 13 33	10/5/2015	trace	1.58		
		10/6/2015	trace	1.58		
		10/7/2015	trace	1.58		
		10/8/2015	trace	1.58		
		10/9/2015	trace	1.58		
		10/12/2015	trace	1.58		
		10/13/2015	trace	1.58		
		10/14/2015	trace	1.58		
		10/15/2015	trace	1.58		
		10/16/2015	trace	1.58		
		10/27/2015	trace	1.58		
		10/28/2015	0.03	1.61		
		10/29/2015	trace	1.61		
		10/30/2015	trace	1.61		

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FORMER SPIC AND SPAN CLEANERS AND DYERS SITE

	Screen		DNAPL	Total DNAPL	Total DNAPL	Total DNAPL
Well ID	Interval (ft	Date Checked	Observation/	Recovered to	Recovered in	Recovered to
	bgs)		Recovery (L)	Date (L)	Bailer (in.)*	Date (in.)*
		2/5/2015	4.03	4.03		
		9/14/2015	trace	4.03	trace	0.00
		9/15/2015	trace	4.03	trace	0.00
		9/16/2015	trace	4.03	trace	0.00
		9/17/2015	0.17	4.20	6	6.00
		9/18/2015	0.19	4.39	7	13.00
		9/22/2015	0.69	5.09	25	38.00
		9/23/2015	trace	5.09	trace	38.00
		9/24/2015	trace	5.09	trace	38.00
		9/25/2015	0.28	5.36	10	48.00
		9/28/2015	trace	5.36	trace	48.00
		9/29/2015	trace	5.36	trace	48.00
		9/30/2015	trace	5.36	trace	48.00
		10/1/2015	trace	5.36	trace	48.00
EW-01	40 to 55	10/2/2015	trace	5.36	trace	48.00
		10/5/2015	trace	5.36	trace	48.00
		10/6/2015	trace	5.36	trace	48.00
		10/7/2015	trace	5.36	trace	48.00
		10/8/2015	trace	5.36	trace	48.00
		10/9/2015	trace	5.36	trace	48.00
		10/12/2015	trace	5.36	trace	48.00
		10/13/2015	trace	5.36	trace	48.00
		10/14/2015	trace	5.36	trace	48.00
		10/15/2015	trace	5.36	trace	48.00
		10/16/2015	trace	5.36	trace	48.00
		10/27/2015	trace	5.36	trace	48.00
		10/28/2015	trace	5.36	trace	48.00
		10/29/2015	trace	5.36	trace	48.00
		10/30/2015	trace	5.36	trace	48

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FORMER SPIC AND SPAN CLEANERS AND DYERS SITE

	Screen		DNAPL	Total DNAPL	Total DNAPL	Total DNAPL
Well ID	Interval (ft	Date Checked	Observation/	Recovered to	Recovered in	Recovered to
	bgs)		Recovery (L)	Date (L)	Bailer (in.)*	Date (in.)*
		2/6/2015	18.93	18.93		
		9/14/2015	trace	18.93	trace	0.00
		9/17/2015	trace	18.93	trace	0.00
		9/18/2015	trace	18.93	trace	0.00
		9/22/2015	trace	18.93	trace	0.00
		9/23/2015	trace	18.93	trace	0.00
		9/24/2015	0.17	19.10	6	6.00
		9/25/2015	trace	19.10	trace	6.00
		9/28/2015	trace	19.10	trace	6.00
		9/29/2015	trace	19.10	trace	6.00
		9/30/2015	trace	19.10	trace	6.00
		10/1/2015	trace	19.10	trace	6.00
		10/2/2015	trace	19.10	trace	6.00
EW-02	43.5 to 58.5	10/5/2015	trace	19.10	trace	6.00
		10/6/2015	trace	19.10	trace	6.00
		10/7/2015	trace	19.10	trace	6.00
		10/8/2015	trace	19.10	trace	6.00
		10/9/2015	trace	19.10	trace	6.00
		10/12/2015	trace	19.10	trace	6.00
		10/13/2015	trace	19.10	trace	6.00
		10/14/2015	trace	19.10	trace	6.00
		10/15/2015	trace	19.10	trace	6.00
		10/16/2015	trace	19.10	trace	6.00
		10/27/2015	trace	19.10	trace	6.00
		10/28/2015	trace	19.10	trace	6.00
		10/29/2015	trace	19.10	trace	6.00
		10/30/2015	trace	19.10	trace	6.00
			Total DNAPL Recovered to Date (L)	1012.60		
			Total DNAPL Recovered to Date (Gals)	267.50	DNAPL Mass Recovered to Date (Lbs)	3357.44

^{* -} DNAPL in DEC-024D, DEC-024DR, and DEC-092D was collected using a dedicated HDPE bailer. DNAPL in DEC-136, EW-01, and EW-02 was collected using a hydrolift pump.

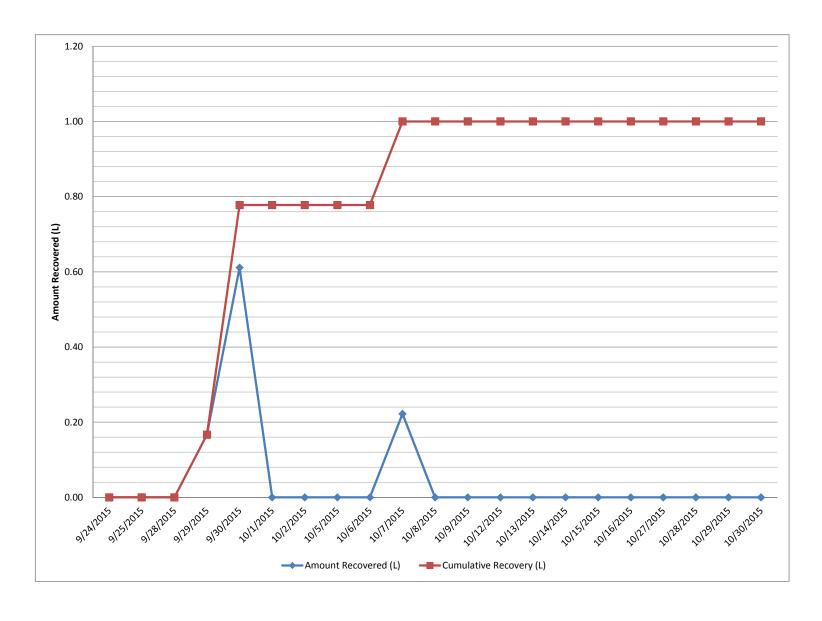
ft bgs - feet below ground surface

L - liters

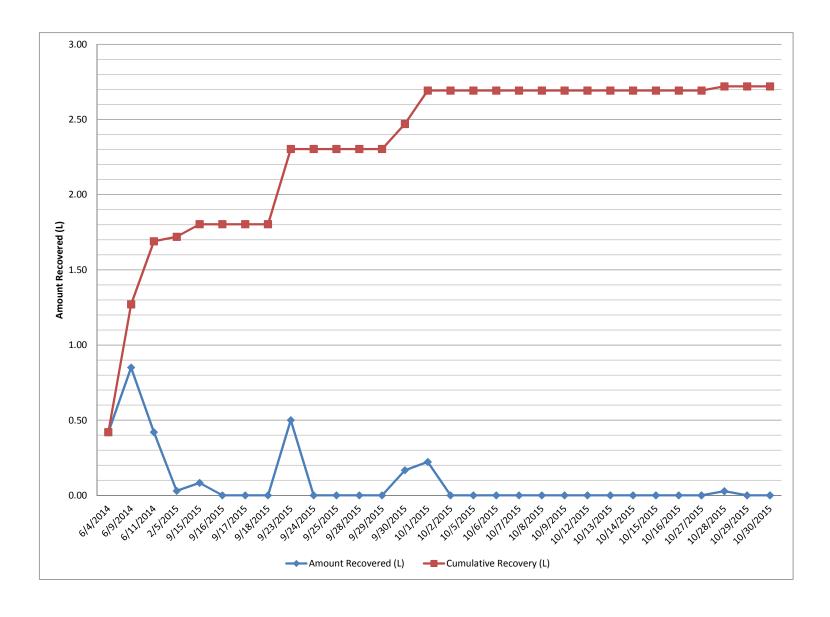
in. - inches

ATTACHMENT I DNAPL PRODUCT RECOVERY SUMMARIES

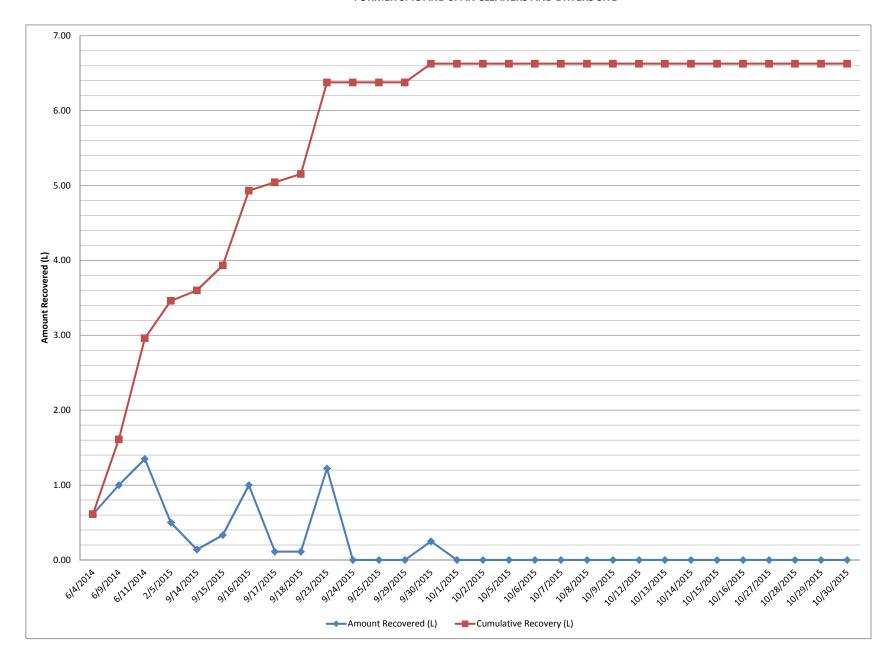
SUMMARY OF DNAPL PRODUCT RECOVERY IN DEC-024 FORMER SPIC AND SPAN CLEANERS AND DRYERS SITE



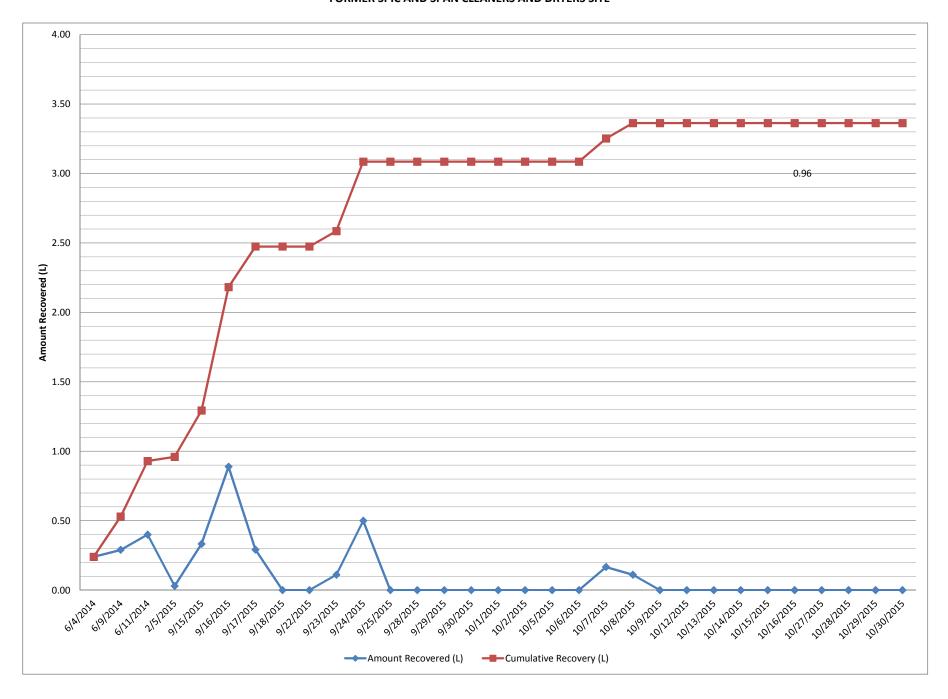
SUMMARY OF DNAPL PRODUCT RECOVERY IN DEC-024D FORMER SPIC AND SPAN CLEANERS AND DRYERS SITE



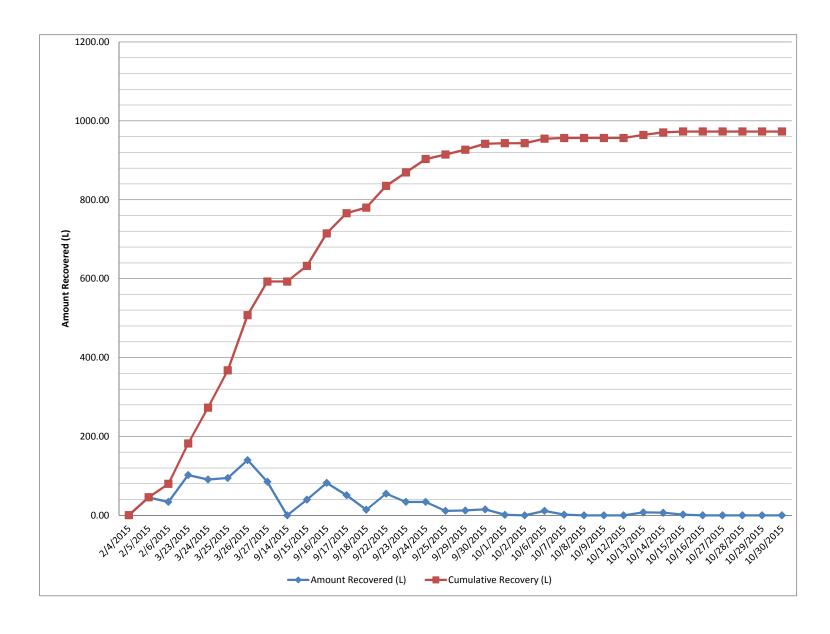
SUMMARY OF DNAPL PRODUCT RECOVERY IN DEC-024DR FORMER SPIC AND SPAN CLEANERS AND DRYERS SITE



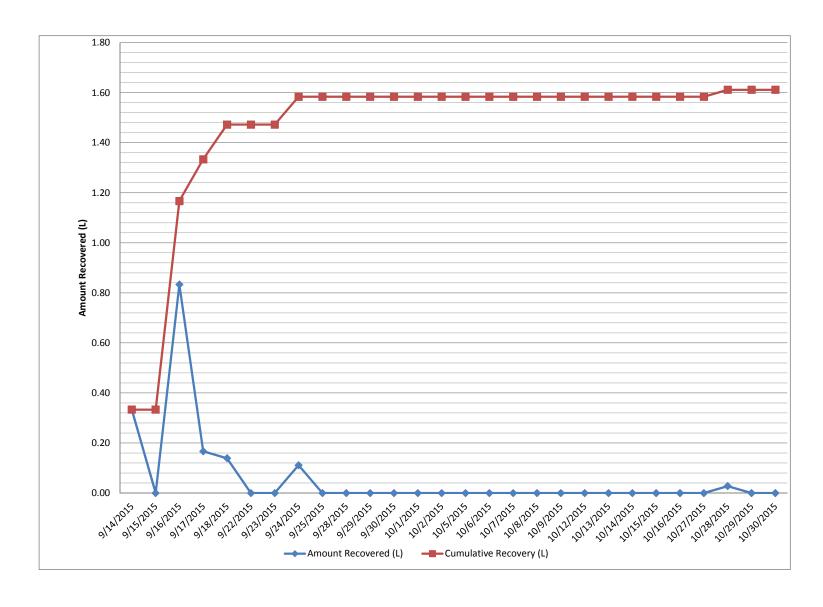
SUMMARY OF DNAPL PRODUCT RECOVERY IN DEC-092D FORMER SPIC AND SPAN CLEANERS AND DRYERS SITE



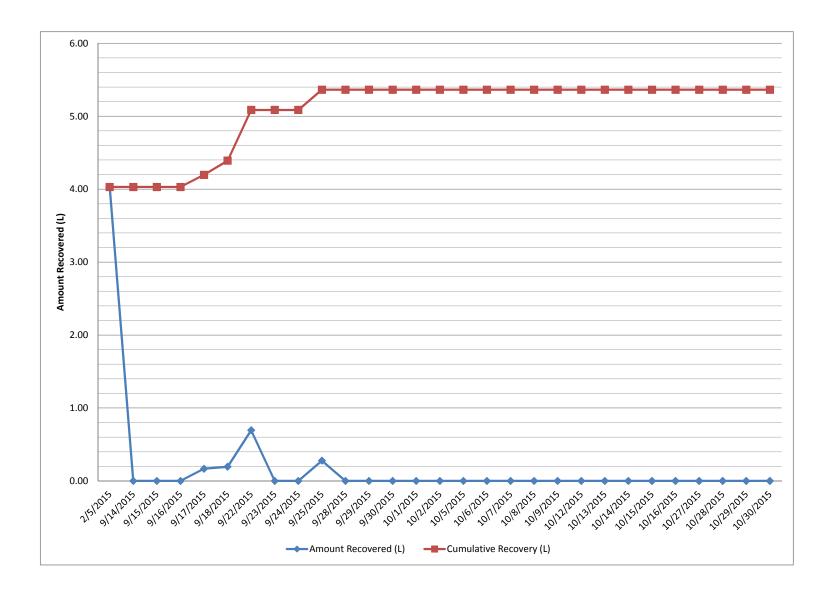
SUMMARY OF DNAPL PRODUCT RECOVERY IN DEC-136 FORMER SPIC AND SPAN CLEANERS AND DRYERS SITE



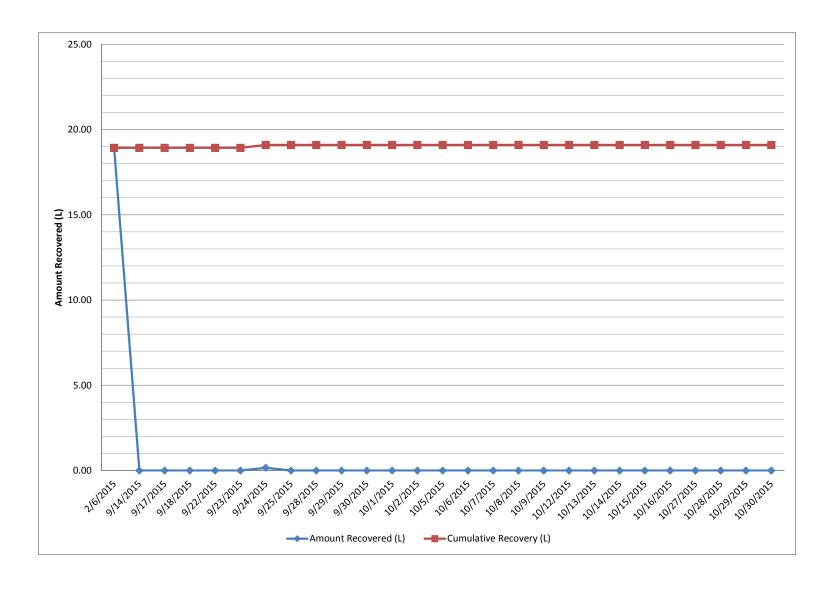
SUMMARY OF DNAPL PRODUCT RECOVERY IN DEC-136D FORMER SPIC AND SPAN CLEANERS AND DRYERS SITE



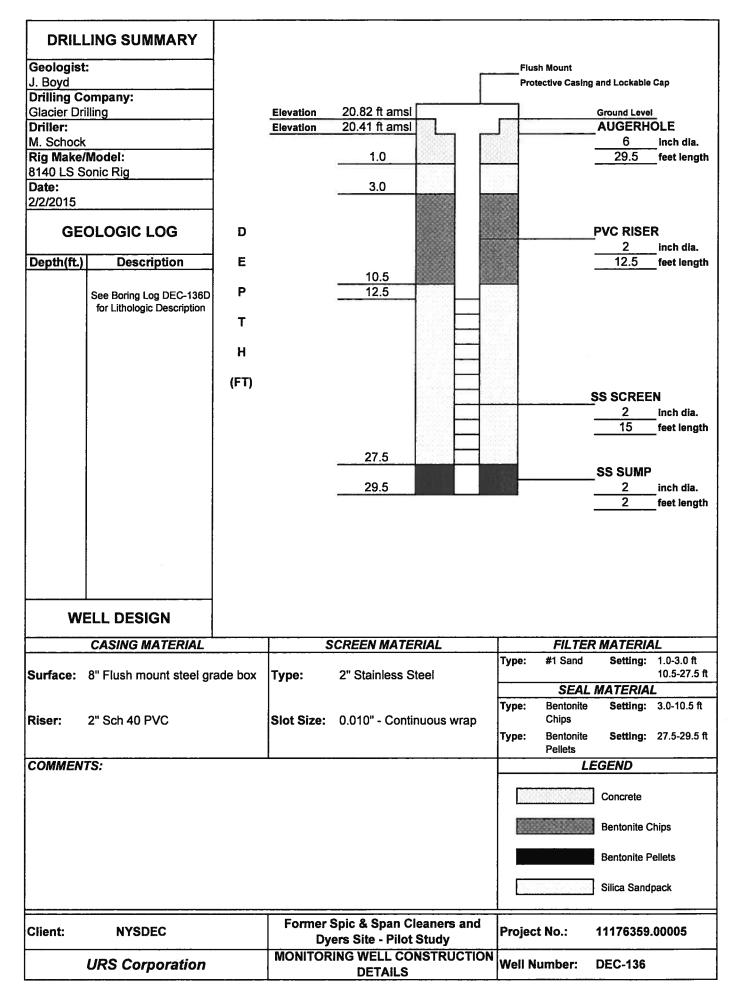
SUMMARY OF DNAPL PRODUCT RECOVERY IN EW-01 FORMER SPIC AND SPAN CLEANERS AND DRYERS SITE

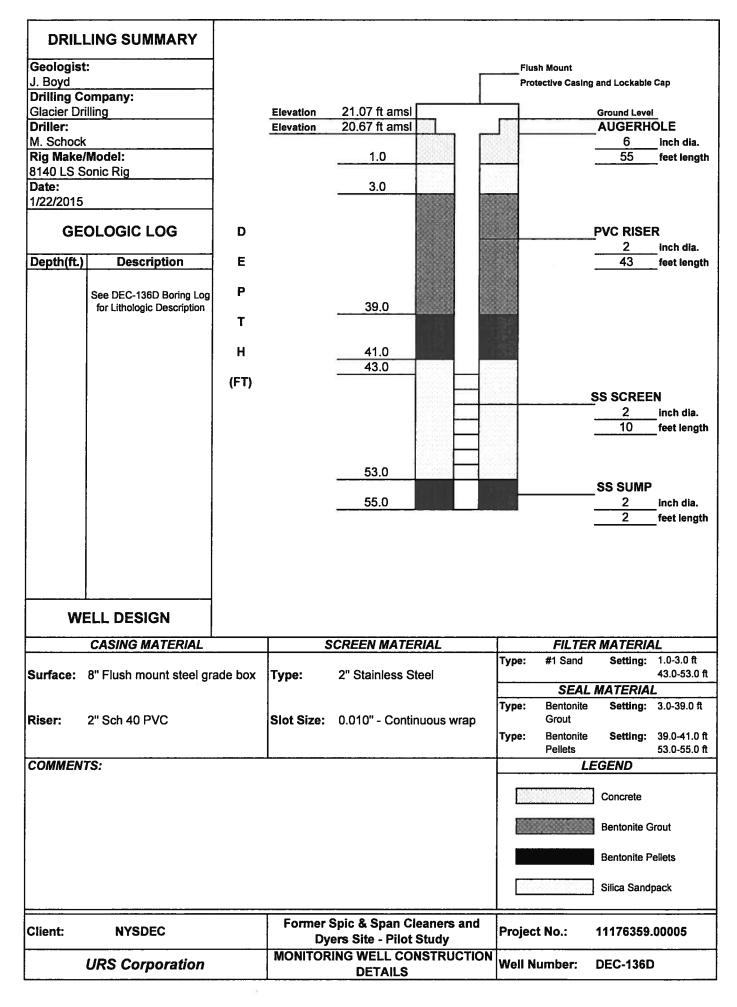


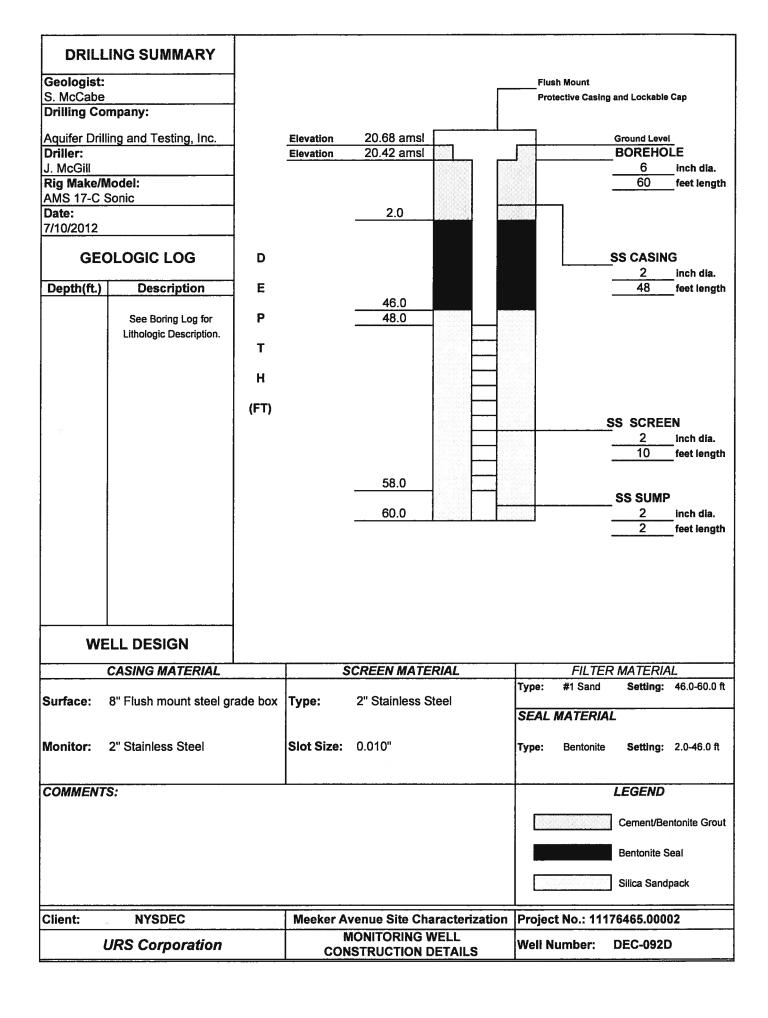
SUMMARY OF DNAPL PRODUCT RECOVERY IN EW-02 FORMER SPIC AND SPAN CLEANERS AND DRYERS SITE

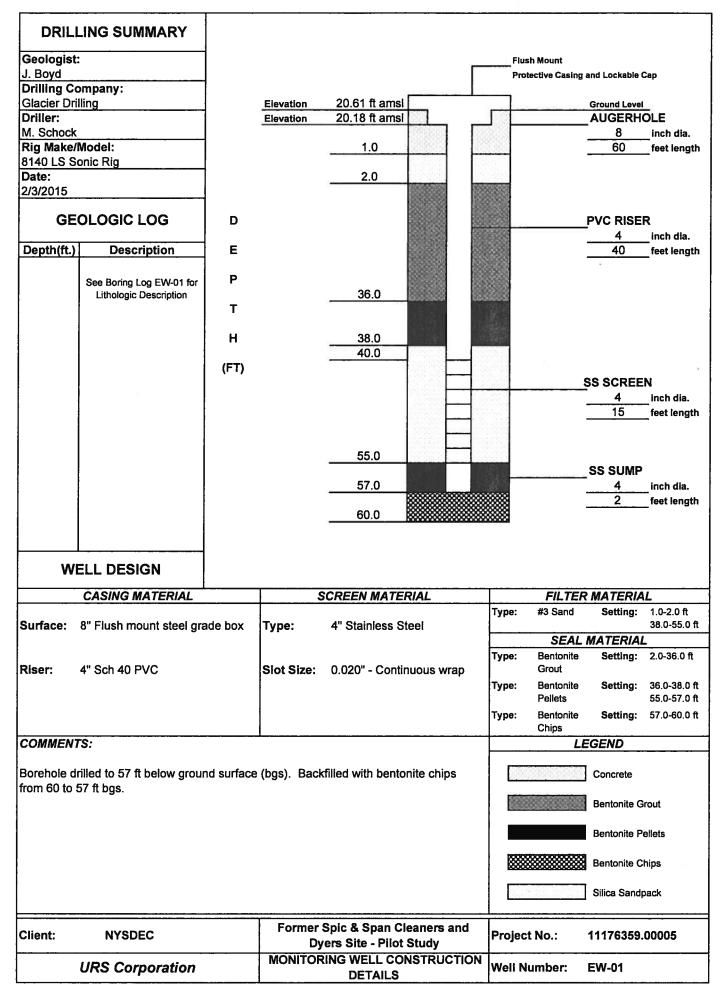


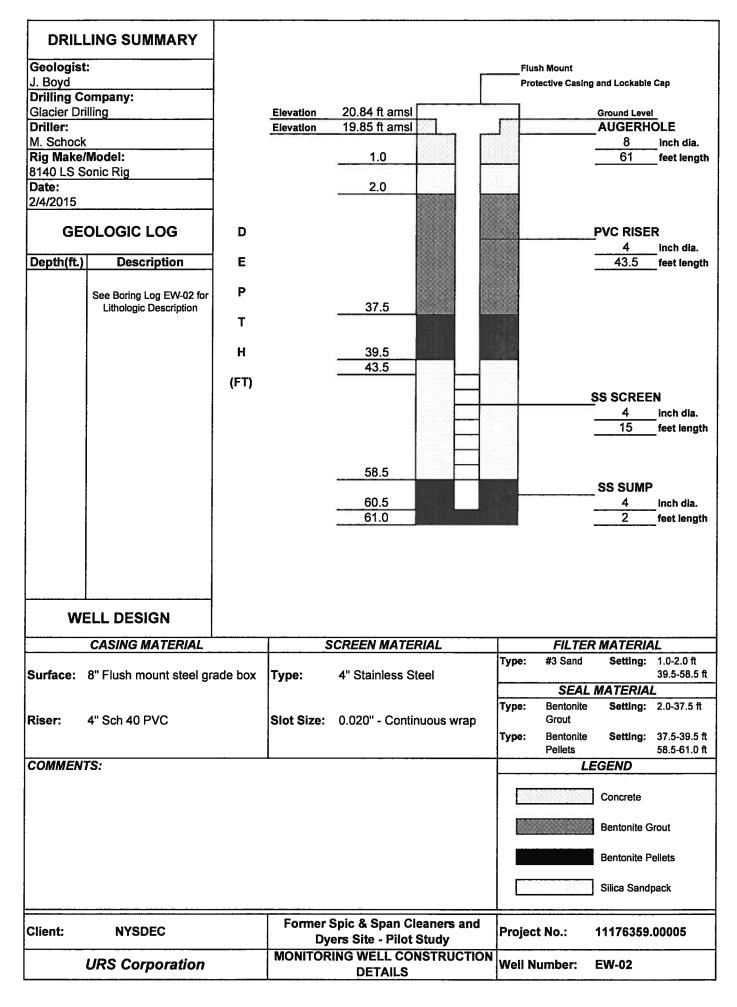
ATTACHMENT II WELL CONSTRUCTION LOGS

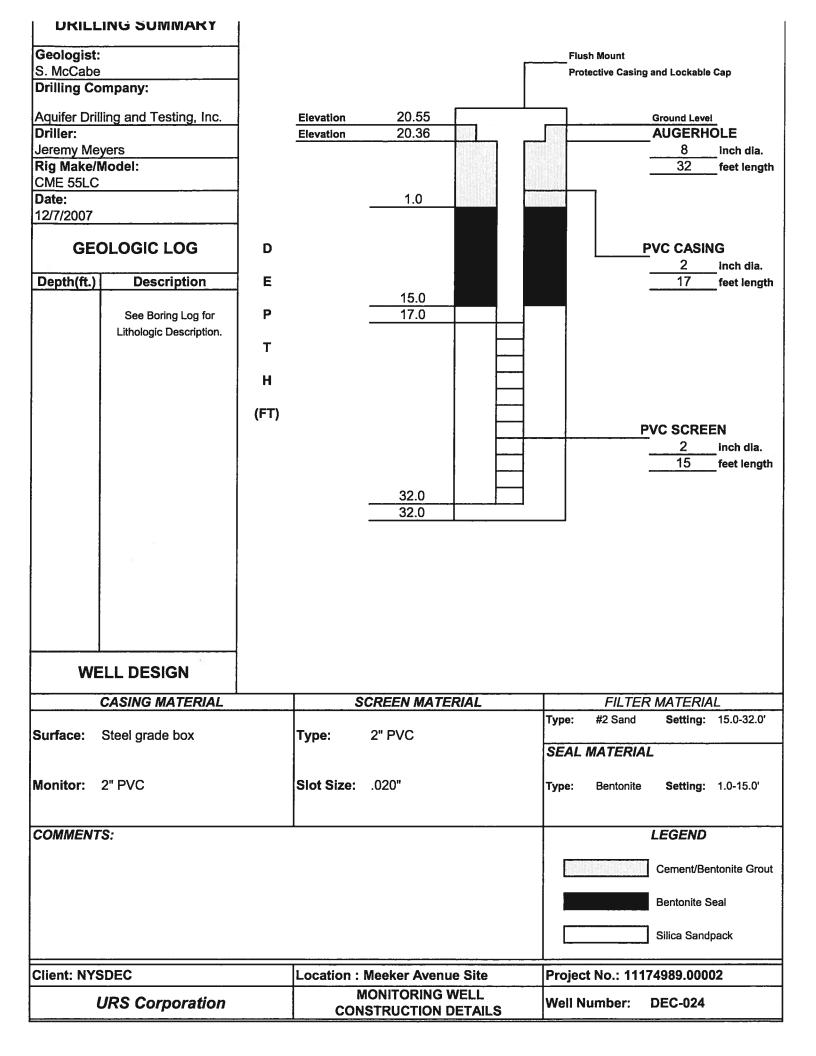


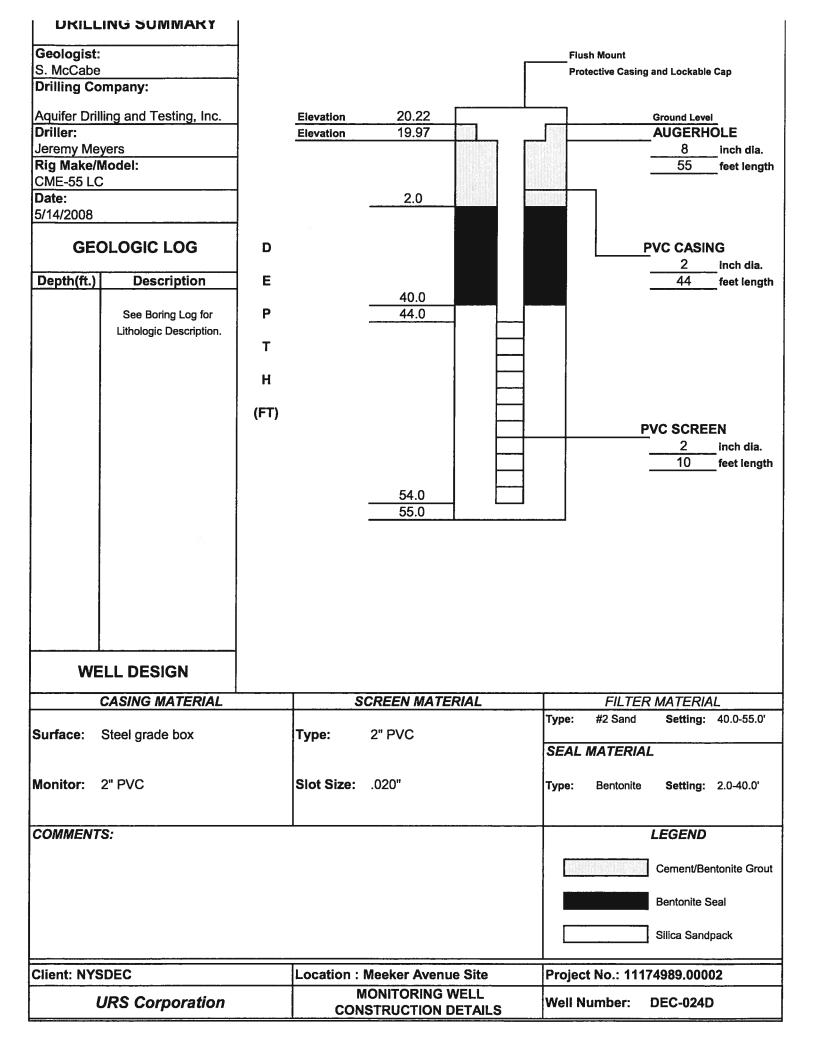


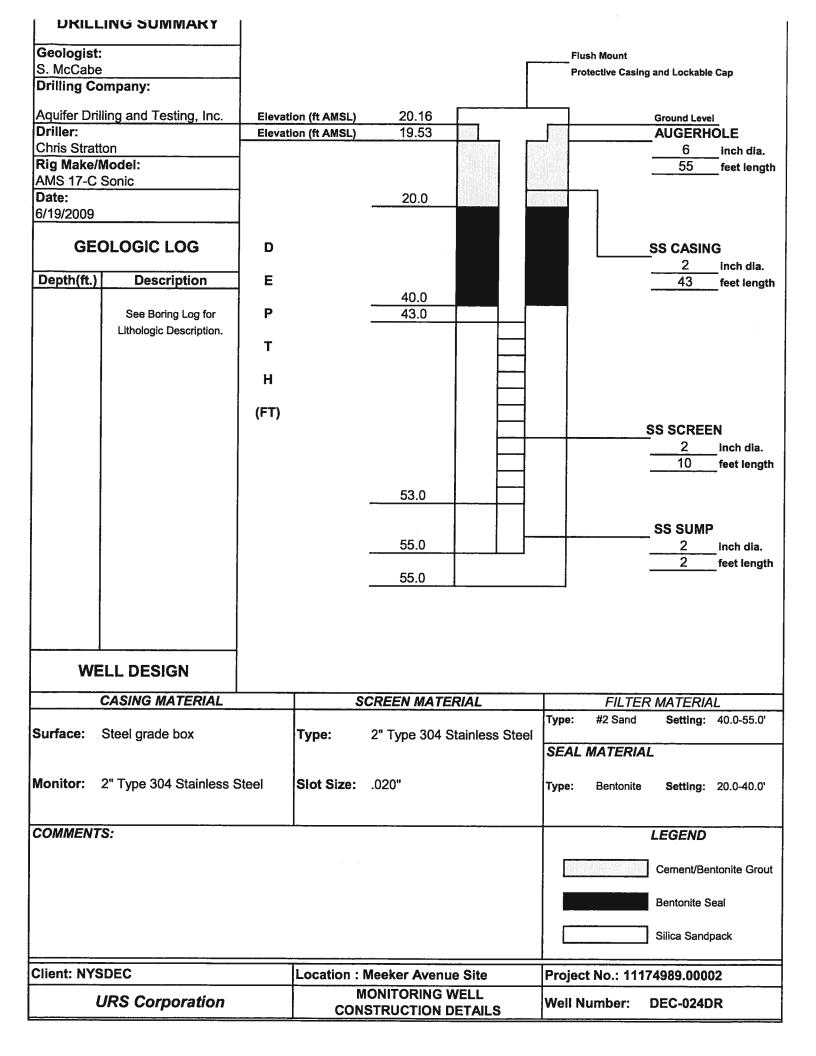












ATTACHMENT III PHOTOGRAPHIC LOG

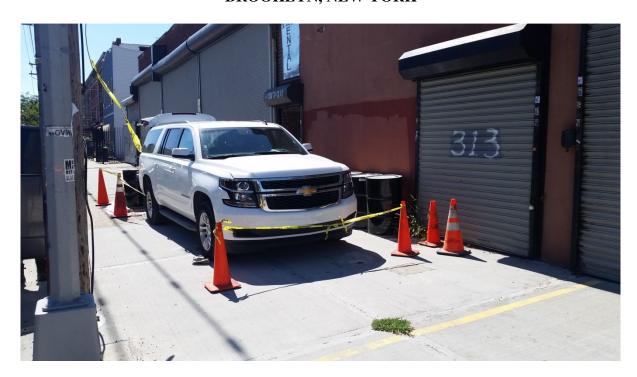


Photo 1: 9/14/15: Site Setup for DNAPL removal at 315 Kingsland Ave



Photo 2: 9/14/15: Site Setup for DNAPL removal at 315 Kingsland Ave



Photo 3: 9/14/15: Site Setup for DNAPL removal at 315 Kingsland Ave

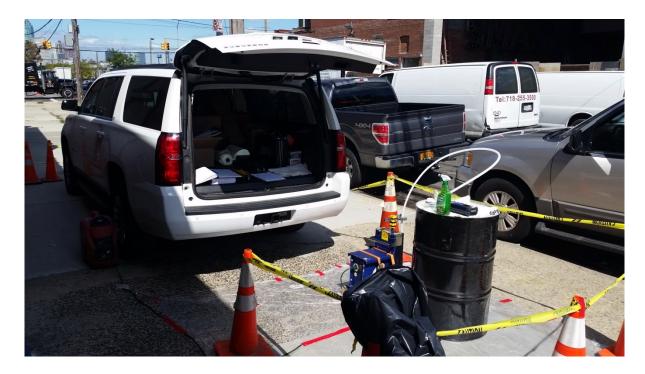


Photo 4: 9/14/15: Site Setup for DNAPL removal at 315 Kingsland Ave



Photo 5: 9/14/15: Site Setup for DNAPL removal at 315 Kingsland Ave



Photo 6: 9/14/15: Waterra pump and drum set up for DNAPL removal at DEC-136

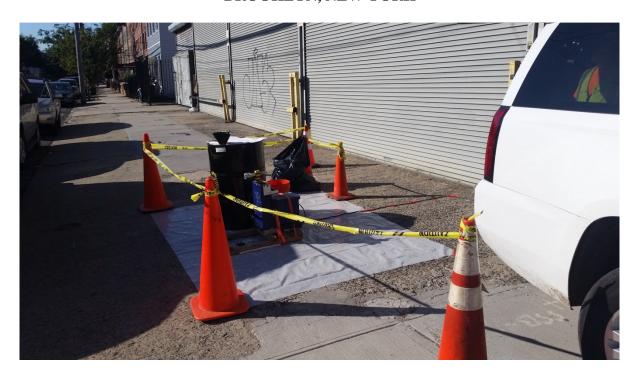


Photo 7: 9/15/15: Waterra pump set up for DNAPL removal at DEC-136.

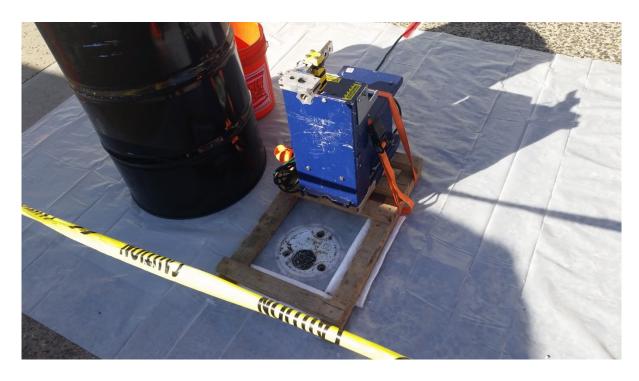


Photo 8: 9/15/15: Waterra pump set up for DNAPL removal at DEC-136



Photo 9: 9/15/15: Waterra pump and drum set up for DNAPL removal at DEC-136



Photo 10: 9/15/15: Site Setup for DNAPL removal at 315 Kingsland Ave

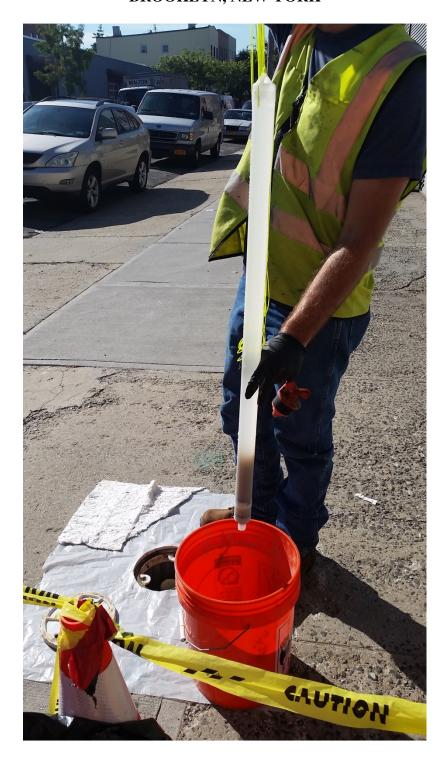


Photo 11: 9/16/15: Bailer showing DNAPL at DEC-136D