

SEPTEMBER 2018 DNAPL RECOVERY STATUS LETTER REPORT

FORMER SPIC AND SPAN CLEANERS & DYERS, INC. SITE

INTERIM REMEDIAL MEASURE

SITE ID NO. 224129

BROOKLYN, KINGS COUNTY, NEW YORK

PREPARED FOR:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

DIVISION OF ENVIRONMENTAL REMEDIATION

REMEDIAL BUREAU B

WORK ASSIGNMENT NUMBER D007622-30.2

PREPARED BY:

URS CORPORATION – NEW YORK

257 WEST GENESEE STREET, SUITE 400

BUFFALO, NEW YORK 14202

OCTOBER 2018

October 9, 2018

Mr. Michael Haggerty, QEP
Project Manager
Remedial Bureau B
Division of Environmental Remediation
NYS Department of Environmental Conservation
625 Broadway, 12th Floor
Albany, New York 12233-7016

**Re: NYSDEC Standby Contract, Work Assignment No. D007622-30.2
Former Spic and Span Cleaners & Dyers, Inc., Site ID No. 224129
August/September 2018 DNAPL Recovery Status Letter Report**

Dear Mr. Haggerty:

URS Corporation - New York (URS) has prepared this dense non-aqueous phase liquid (DNAPL) Recovery Letter Report to update the status of DNAPL removal activities completed in August and September 2018, at the 315 Kingsland Avenue property (i.e., Former Spic and Span Cleaners & Dyers, Inc. Site [New York State Department of Environmental Conservation {NYSDEC} Site Number 224129]) in the Greenpoint/East Williamsburg Industrial Area section of Brooklyn, New York (Figure 1). DNAPL removal was performed at wells DEC-024, DEC-024D, DEC-024DR, DEC-092D, DEC-136, DEC-136D, EW-01, EW-02, EW-03, EW-05 and EW-06 (Figure 2). Well EW-04 was inaccessible in August and September 2018 due to a stripped security bolt on the protective curb box. The protective curb box for this well needs replacement. Table 1 summarizes DNAPL removal periods and quantities of DNAPL removed from each well. The work was completed under NYSDEC Work Assignment No. D007622-30.2. Copies of the daily field notes are provided in Appendix A.

1.0 DNAPL RECOVERY FIELD ACTIVITIES

DNAPL was removed from extraction well EW-02 and monitoring well DEC-136 using a 12-volt submersible pump, and in extraction wells EW-01, EW-03, EW-05, EW-06 and monitoring wells DEC-136D, DEC-092D, DEC-024, DEC-024D, and DEC-024DR using dedicated/disposable HDPE tubing and check valves, and/or dedicated/disposable, 36 inch long 1-liter HDPE bailers. In total, approximately 305.4 gallons (3,803 pounds) of DNAPL was removed at the site through September 19, 2018 (Table 1). The majority of DNAPL was removed from DEC-136 (265 gallons). Approximately 27 gallons of DNAPL has been removed from well EW-02 through September 2018.

1.1 Well Surging/ Cumulative and Volume Recovered per Event, per Well

Well surging and subsequent DNAPL recovery took place at wells DEC-136 and EW-02 during the August and September 2018 events. Surging was performed using Water Spout 12-volt submersible pumps 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/or emulsions, and also exhibited concentrated levels of volatile organic compounds (VOCs) as evidenced by high photoionization detector (PID) readings. Total groundwater purge volumes were approximately:

70 gallons removed from EW-02 and 30 gallons removed from DEC-136 during the August 2018 event; and 55 gallons removed from EW-02 and 20 gallons removed from DEC-136 during the September 2018 event. Details on the well surging/ DNAPL recovery can be found in Appendix A.

1.2 Waste Disposal

All recovered aqueous liquids and DNAPL generated from the DNAPL recovery activities were containerized in Department of Transportation (DOT) approved 55-gallon drums and picked up by Island Pump & Tank Corp. of East Northport, NY (IP&T) for off-site disposal at a permitted facility. Copies of the hazardous waste manifests from August and September 2018 are provided in Appendix B.

Closing

We appreciate working with the Department on this challenging project. Please contact me at 716-856-5636 if you have any questions or comments.

Sincerely,

URS Corporation



Michael Gutmann, PG
Project Manager

cc: File: 60429463 (R-1)
George Kisluk URS

Enc. Figure 1 – Site Location
Figure 2 – Monitoring Well and Soil Boring Locations

Table 1 – Summary of DNAPL Observations/ Recovery by Well Location

Appendix A - Field Notes
Appendix B - Waste Disposal Documents

FIGURES

FIGURE 2

TABLES

TABLE 1
SUMMARY OF DNAPL OBSERVATIONS/RECOVERY BY WELL LOCATION
FORMER SPIC AND SPAN CLEANERS AND DYERS SITE

Date	DEC-024	DEC-024D	DEC-024DR	DEC-092D	DEC-136	DEC-136D	EW-01	EW-02	EW-03	EW-04	EW-05	EW-06
6/4/2014	n/r	0.42	0.61	0.24	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r
6/9/2014	n/r	0.85	1.00	0.29	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r
6/11/2014	n/r	0.42	1.35	0.40	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r
2/4/2015	n/r	n/r	n/r	n/r	0.35	n/r	n/r	n/r	n/r	n/r	n/r	n/r
2/5/2015	n/r	0.03	0.50	0.03	45.42	n/r	4.03	n/r	n/r	n/r	n/r	n/r
2/6/2015	n/r	n/r	n/r	n/r	34.07	n/r	n/r	18.93	n/r	n/r	n/r	n/r
3/23/2015	n/r	n/r	n/r	n/r	102.21	n/r	n/r	n/r	n/r	n/r	n/r	n/r
3/24/2015	n/r	n/r	n/r	n/r	90.85	n/r	n/r	n/r	n/r	n/r	n/r	n/r
3/25/2015	n/r	n/r	n/r	n/r	94.64	n/r	n/r	n/r	n/r	n/r	n/r	n/r
3/26/2015	n/r	n/r	n/r	n/r	140.06	n/r	n/r	n/r	n/r	n/r	n/r	n/r
3/27/2015	n/r	n/r	n/r	n/r	85.17	n/r	n/r	n/r	n/r	n/r	n/r	n/r
9/14/2015	n/r	n/r	0.14	n/r	trace	0.33	trace	trace	n/r	n/r	n/r	n/r
9/15/2015	n/r	0.08	0.33	0.33	39.75	trace	trace	n/r	n/r	n/r	n/r	n/r
9/16/2015	n/r	trace	1.00	0.89	82.33	0.83	trace	n/r	n/r	n/r	n/r	n/r
9/17/2015	n/r	trace	0.11	0.29	51.10	0.17	0.17	trace	n/r	n/r	n/r	n/r
9/18/2015	n/r	trace	0.11	trace	14.20	0.14	0.19	trace	n/r	n/r	n/r	n/r
9/22/2015	n/r	n/r	n/r	trace	54.89	trace	0.69	trace	n/r	n/r	n/r	n/r
9/23/2015	n/r	0.50	1.22	0.11	34.07	trace	trace	trace	n/r	n/r	n/r	n/r
9/24/2015	trace	trace	trace	0.50	34.07	0.11	trace	0.17	n/r	n/r	n/r	n/r
9/25/2015	trace	trace	trace	trace	11.36	trace	0.28	trace	n/r	n/r	n/r	n/r
9/28/2015	trace	trace	n/r	trace	n/r	trace	trace	trace	n/r	n/r	n/r	n/r
9/29/2015	0.17	trace	trace	trace	12.30	trace	trace	trace	n/r	n/r	n/r	n/r
9/30/2015	0.61	0.17	0.25	trace	15.14	trace	trace	trace	n/r	n/r	n/r	n/r
10/1/2015	trace	0.22	trace	trace	1.32	trace	trace	trace	n/r	n/r	n/r	n/r
10/2/2015	trace	trace	trace	trace	trace	trace	trace	trace	n/r	n/r	n/r	n/r
10/5/2015	trace	trace	trace	trace	n/r	trace	trace	trace	n/r	n/r	n/r	n/r
10/6/2015	trace	trace	trace	trace	11.36	trace	trace	trace	n/r	n/r	n/r	n/r
10/7/2015	0.22	trace	trace	0.17	1.89	trace	trace	trace	n/r	n/r	n/r	n/r
10/8/2015	trace	trace	trace	0.11	0.00	trace	trace	trace	n/r	n/r	n/r	n/r
10/9/2015	trace	trace	trace	trace	0.00	trace	trace	trace	n/r	n/r	n/r	n/r
10/12/2015	trace	trace	trace	trace	0.00	trace	trace	trace	n/r	n/r	n/r	n/r
10/13/2015	trace	trace	trace	trace	7.57	trace	trace	trace	n/r	n/r	n/r	n/r
10/14/2015	trace	trace	trace	trace	6.62	trace	trace	trace	n/r	n/r	n/r	n/r
10/15/2015	trace	trace	trace	trace	2.08	trace	trace	trace	n/r	n/r	n/r	n/r
10/16/2015	trace	trace	trace	trace	trace	trace	trace	trace	n/r	n/r	n/r	n/r
10/27/2015	trace	trace	trace	trace	trace	trace	trace	trace	n/r	n/r	n/r	n/r
10/28/2015	trace	0.03	trace	trace	trace	0.03	trace	trace	n/r	n/r	n/r	n/r
10/29/2015	trace	trace	trace	trace	trace	trace	trace	trace	n/r	n/r	n/r	n/r
10/30/2015	trace	trace	trace	trace	trace	trace	trace	trace	n/r	n/r	n/r	n/r
2/22/2016	trace	trace	trace	trace	2.90	0.06	trace	0.64	n/r	n/r	n/r	n/r
2/23/2016	trace	trace	0.03	trace	3.40	trace	trace	1.24	n/r	n/r	n/r	n/r
2/24/2016	trace	trace	trace	trace	0.03	trace	trace	0.03	n/r	n/r	n/r	n/r
4/26/2016	0.48	0.00	trace	trace	0.00	0.00	0.06	0.41	n/r	n/r	n/r	n/r
4/27/2016	trace	0.00	trace	trace	1.10	0.00	1.00	1.09	n/r	n/r	n/r	n/r
4/28/2016	trace	0.00	trace	trace	0.26	0.00	trace	1.00	n/r	n/r	n/r	n/r
11/15/2016	n/r	n/r	n/r	n/r	n/r	n/r	0.41	n/r	n/r	n/r	n/r	n/r
11/16/2016	n/r	n/r	n/r	n/r	0.10	trace	n/r	0.06	n/r	n/r	n/r	n/r
11/17/2016	0.17	trace	trace	0.11	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r
11/18/2016	n/r	n/r	n/r	n/r	0.75	n/r	n/r	n/r	n/r	n/r	n/r	n/r

TABLE 1
SUMMARY OF DNAPL OBSERVATIONS/RECOVERY BY WELL LOCATION
FORMER SPIC AND SPAN CLEANERS AND DYERS SITE

Date	DEC-024	DEC-024D	DEC-024DR	DEC-092D	DEC-136	DEC-136D	EW-01	EW-02	EW-03	EW-04	EW-05	EW-06
11/29/2016	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r	5.50	n/r	n/r
11/30/2016	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r	4.00	n/r	4.90	0.50
12/1/2016	n/r	n/r	n/r	n/r	trace	n/r	n/r	n/r	n/r	n/r	n/r	n/r
12/2/2016	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r	n/r	3.20	n/r	n/r
1/13/2017	0.00	0.00	0.00	0.00	trace	0.00	trace	1.24	0.00	0.00	0.00	0.00
1/17/2017	0.00	0.20	0.62	trace	trace	trace	0.12	1.57	trace	trace	0.00	trace
1/18/2017	trace	trace	trace	n/r	trace	0.00	0.03	1.73	trace	0.75	0.20	trace
1/19/2017	trace	trace	trace	n/r	trace	0.00	0.03	1.51	0.07	0.15	0.07	trace
3/21/2017	0.02	0.01	0.01	0.00	0.02	0.01	0.08	4.21	0.00	0.01	0.00	0.00
3/22/2017	0.08	0.03	0.03	0.00	0.00	0.00	1.50	1.82	0.00	0.03	0.00	0.00
3/23/2017	0.88	0.01	0.01	0.00	0.00	0.00	0.75	2.53	0.00	0.00	0.00	0.00
10/30/2017	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
10/31/2017	0.00	0.00	0.00	0.00	9.63	0.00	0.00	0.00	0.26	0.50	0.00	0.09
11/1/2017	0.00	0.00	0.00	0.00	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.27
11/2/2017	0.00	0.00	0.00	0.00	2.31	0.00	0.00	0.00	0.04	0.44	0.00	0.00
11/3/2017	0.00	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.05	0.55	0.00	0.07
11/8/2017	n/r	n/r	n/r	0.00	0.00	0.00	0.00	12.52	0.01	0.15	0.00	0.01
11/9/2017	n/r	n/r	n/r	0.00	0.63	0.00	0.00	10.21	0.02	0.68	0.00	0.00
11/10/2017	n/r	n/r	n/r	0.00	0.26	0.00	0.00	10.29	0.01	0.62	0.00	0.00
11/14/2017	n/r	n/r	n/r	0.00	0.36	0.00	0.00	10.29	0.02	0.17	0.00	0.00
11/15/2017	n/r	n/r	n/r	0.00	0.82	0.00	0.00	10.29	0.16	0.30	0.00	0.02
12/20/2017	n/r	n/r	n/r	0.00	0.42	0.00	0.00	6.40	0.16	0.33	0.00	0.03
8/7/2018	0.25	0.00	0.00	0.00	0.50	0.00	0.00	2.00	0.00	n/r	0.00	0.00
8/8/2018	trace	0.00	0.00	0.00	trace	0.00	0.00	2.00	0.00	n/r	trace	0.00
9/18-19/2018	trace	0.00	0.00	0.00	trace	0.00	0.00	trace	trace	n/r	trace	0.00
Total DNAPL Recovery (L)	2.88	2.96	7.32	3.47	1000.05	1.68	9.34	102.46	4.80	13.36	5.17	0.99
Total DNAPL Recovery (gallons)	0.76	0.78	1.94	0.92	264.56	0.44	2.47	27.11	1.27	3.53	1.37	0.26
Total DNAPL Recovery to Date (gallons)	305.42											
Total DNAPL Recovery to Date (lbs)	3803.41											

n/r = No Recovery Efforts. Daily measurements in liters (L). lbs = Pounds.

APPENDIX A

FIELD NOTES

8/16/18 - Sean P. Conway

8/30 - LEFT APARTMENT

900 - ARRIVED @ RENTAL (ENTERPRISE)

915 - LEFT ENTERPRISE W/ SILVER F-150

430 - ARRIVED @ FLOW RENTAL @

645 - CHECKED IN @ HOTEL @

8/17/18 - LEFT HOTEL FOR STORAGE UNIT @ 730

815 - PICKED UP @ STORAGE UNIT

- CONES

- CLEANING SUPPLIES

830 - LEFT STORAGE UNIT FOR ADAPTOR TO PICK UP DOWELS (3)

850 - LEFT ADAPTOR @ 315 KINGSLAND (SPK + SPAN)

900 - ARRIVED @ 315 KINGSLAND (SPK + SPAN)

- MET MECHANICAL HAGERET

- BEGAN DAYS WORK OF DNAPL REMOVAL

- TOOK WATER LEVELS + DNAPL LEVELS OF ALL WELLS

- EW-04 BAT WOULDN'T COME LOOSE. NO MEASUREMENTS

1130 - MECHANICAL HAGERET LEFT SITE AROUND AFTERN FINISHED MEASUREMENTS

Continued on Page _____

[Signature]

Signed

8/17/18

Date

Read and Understood By

Signed

Date

Well ID:	DEC24	DEC24D	DEC24DR	DEC092D
Water Level:	19.39	18.63'	18.1'	18.83'
DNAPL Level:	18.74	None	None	None
Depth Of Well:	29.4'	54.42	52.65'	60.84'
Date:	8/2/18	8/7/18	8/7/18	8/7/18
Time:		10:13	10:10	10:53
DNAPL Recovery:	0.25	NA	NA	NA

Well ID:	DEC136	DEC136D	FW-01	FW-02	FW-03
Water Level:	14.94'	19.05'	19.71	18.32	16.4'
DNAPL Level:	None	None	None	None	None
Depth Of Well:	26.7	54.45	50.05'	62.0'	25.75
Date:	8/2/18	8/7/18	8/7/18	8/2/18	8/7/18
Time:	11:03	11:07	10:24	10:44	10:49
DNAPL Recovery:	~7 Gallons Water Sample Undetect			0.5 gallon	

1150 - Began pumping DEC-136 w/ water sprout. Milky white water / product ~ 7 gallons (estimate) before well began to go dry w/ recovery (9 total gallons)

1157 - Moved To DEC-24DR. Began Pumping Well
MADE New Table of Record water / DNAPL. Decided To
Purge Well w/ pump

Continued on Page _____

Read and Understood By



8/7/18

Signed

Date

Signed

Date

WELL ID:	EW 04	EW 05	EW 06
WATER LEVEL:	Conduit Got Stuck Screen Out To Open The Well	18.71	17.28
DNAPL LEVEL:		None	None
DEPTH OF WELL:		27.55	25.70
DATE:		8/7/18	8/7/18
TIME:			1058
DNAPL Recovery:			

WELL ID	TOTAL WATER PUMPED	DNAPL	PFO Reading
DRC 024	1.5 Gallons	0.25 (about one full strength)	88.5 ppm
DRC 024D	2.0 Gallons	---	
DRC 024DRC	2.0 Gallons	---	
DRC 092	3.0 Gallons	---	
DRC 136	2.0 Gallons	7 Gallons (Super White Product)	699
DRC 136D	2.0 Gallons	---	
EW-01	40 2.0 Gallons	---	
EW-02	25 Gallons	0.5 Gallons	6.7 ppm
EW-03	2.5 Gallons	---	
EW-04	2.5 Gallons	---	
EW-05	2.0 Gallons	---	
EW-06	2.5 Gallons	---	

1245 - Began Pumping on EW-02. SIGHT DNAPL @ PFS (See Video) Turned to clear water. Maybe 0.5 Gallon DNAPL. WATER LEVEL RASER @ 18.73 FROM TOP OF RISER. TURNED PUMP OFF AFTER ~ 25 GALLONS OF WATER PUMPED OUT

Continued on Page

Read and Understood By



Signed

8/7/18

Date

Signed

Date

- 1304 - FINISHED AT EW-02, LEFT PUMP + TUBING IN WORK
1310 - Began BAILING WELLS, 4 BAILERS OUT OF EACH →
MOVE TO NEXT ONE. DON'T LEAVE BAILERS IN
WELLS
1345 - TURNED PUMP BACK ON ~~EW-02~~ EW-02 + SET UP
OTHER PUMP ON DRC-136. FILLER DRAIN W/ RW-02
Purge WATER / PRODUCT. → POSITIONED TRUCK ON DRC-136 +
BEGAN PUMPING CONTINUED TO BARE WELLS.
~1450 - Island Pump + TANK SHOWED UP ON SITE
1520 - Island Pump + TANK LOADED DRUMS → PARKED UP
SITE
1530 - LEFT SITE FOR STORAGE UNIT
1540 - ARRIVED AT STORAGE UNIT + BEGAN UNLOADING
1600 - LAA STORAGE UNIT FOR HOTEL

Continued on Page

Read and Understood By

L.P. Ly. 8/7/18
Signed Date

Signed

Date

DATE: 8/8/18PERSONNEL: SPAN P. CANNERY

7:15 - LEFT / CHECKED OUT OF COMPANY TRUCK. HEADED TO STORAGE UNIT

7:55 - ARRIVED @ STORAGE UNIT

8:10 - LEFT STORAGE UNIT

8:20 - ARRIVED @ 315 KINGSLAND (FORMER SPC + SPAN SITE)
BEGAN SETTING UP FOR THE DAYGOAL: SET PUMPS UP ON DEC-136 + RW-02 +
PUMP CONTINUOUSLY + BACK OUT OTHER WELLS

WELL ID	TOTAL WATER REMOVED	DNAPL REMOVED	PFO READINGS
DEC 136	9 GALLONS	NO DNAPL - ALL WHITE INSISTENT	52.8
RW-02	30 GALLONS	0.5	108.2
DEC 240A	1.0 GALLON	NONE	137.2
DEC 240D	1.0 GALLONS	NONE	76.5
DEC 024	~5 GALLONS	TRACE / MIXED	297.8
DEC 092	1.0	NONE	20.2
DEC 136D	1.0	NONE	13.3
RW 01	1.0 GALLONS	NONE	169.8
RW 02	1.0 GALLONS	NONE	72.7 86.6 (New Basin)
RW 03			
RW 05	1.5 GALLONS	(TRACE)	887.5 (New Basin)
RW 06	1.0 GALLONS	NONE	3.6

SPC 8/8/18

10:00 - BACKING DEC-024. ~~Silty~~ ^{Sandy} SANDY DARK WATER w/ STRONG PETROLEUM SMELL. BACKED 5 GALLONS

10:15 - BACKED RW-05, SLIGHT OILY TRACE OF DNAPL. HIGH PFO READINGS

11:00 - ISLAND PUMP + TRUCK ON SITE

11:30 - LOADED UP PUMPS + BEGAN PUMPING UP SITE

11:58 - FINISHED PUMPING UP SITE + HEADED TO STORAGE UNIT

Continued on Page _____

Read and Understood By



Signed

8/8/18

Date

Signed

Date

- 1210 - Arrived @ Storage Unit + Unloaded Equipment
1220 - Left Storage Unit for Eco Rental
1335 - Left Eco Rental
2000 - Arrived Back @ Home. Where Return Rental
Car in Morning

8/9/18

- 730 - Left Apartment for Enterprise
750 - Arrived @ Enterprise + Dropped Off Truck →
Got Rear Hole

[Handwritten signature]

Continued on Page _____

[Handwritten signature] 8/9/18

Signed

Date

Read and Understood By

Signed

Date

Date: 9/12/18Personnel: Sam P. Connolly

- 0800 - Left for Enterprise
- 0830 - Picked up Truck from Enterprise on Transit
Ford F-150 4 door
- 0845 - Fueled up truck and left for Eco Rental Solutions
- 1600 - Arrived @ Eco Rental Solutions to pick up equipment
- 1620 - Left Eco Rental Solutions for Storage Unit
- 1730 - Arrived @ Storage Unit to pick up supplies
- 1745 - Left Storage Unit for Hotel (Comfort Inn + Suites)
- 1805 - Arrived @ Comfort Inn + Suites

Continued on Page



Signed

9/12/18

Date

Read and Understood By

Signed

Date

DATE: 9/18/18PERSONNEL: Sam P. Connolly

0630 - LEFT HOTEL FOR ADELPHI TO PICK UP DRUMS

0645 - ARRIVED C. ADELPHI

0658 - LEFT ADELPHI FOR 315 KINGSLAND (SPE + SPAN)

0710 - ARRIVED C 315 KINGSLAND (SPE + SPAN)

0715 - BEGAN SETTING UP TO PUMP WELLS

- SET UP WATER SPRAY PUMPS ON DEC 136 and EW-02

- Opened all wells except EW-01 (One screen is stuck).

- Popped lids and took PFD reading + WL fresh.

WELL ID	PFD READING	WATER LEVEL	DNAPL	(Totals from Pump & Water Removed)	DNAPL REMOVED
DEC 024	224 ppm	18.65	-	15	Trace (Petroleum)
DEC 024D	374.1 ppm	18.34	-	7	None
DEC 024DR	1163 ppm	17.84	-	7	None
DEC 092...	56.4 ppm	18.54	-	7	None
DEC 136	133.8	15.22	-	15 20	Trace Trace
EW-01	171.2 ppm	18.44	-	5	None
EW-02	438.8 ppm	18.04	-	Trace 15 55	Trace
EW-03	335.6 ppm	18.62	-	7	Trace
EW-04	-	-	-	-	-
EW-05	1419 ppm	18.49	-	7	Trace
EW-06	1282 ppm	17.18	-	5	None
DEC-136D	21.3 ppm	18.75	-	7	None

0851 - Reson pumping on DEC-136, ~3-4 gallons of water white
Bubbly liquid (Injunctive) No DNAPL

0854 - Moved to EW-02

0905 - Reson pumping on EW-02 - 25 gallons Continued on Page

w/ trace DNAPL (Negligible)

Read and Understood By

S. P. Connolly

Signed

9/18/18

Date

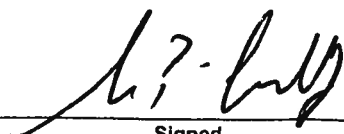
Signed

Date

- 0910 - Moved to DEC-24. Bailed ~ 1 gallon of petroleum odor smelling product. Going to use check valve + pump well
- 0950 - Moved back to DEC 136 to hook pump (Water Sprout) pump up to it + purge dry again 4 more gallons of surfactant
- 1000 - Began Bailing EW-03. Bailed 5 gallons. Brownish dirty water w/ chunky solids small. Trace Naple + Solvent
- 1033 - Moved to DEC-92D. Bailed 5 gallons. Light Brown-Clear
- 1045 - Mike Hooten left site
- 1017 - Moved to EW-06 to begin bailing ~ 3 gallons No DVAPE. Clear → murky water towards end
- 1134 - Moved to DEC-24. Pumped ~ 2 more gallons.
- 1147 - Moved to EW-05 to bail well. Pumped 5 gallons murky brown water. Strong petroleum odor. trace DVAPE.
- 1232 - Moved to EW-01 to begin bailing well. 3 gallons
- 1258 - Rain Delay. Heavy rain + thunder + lightning. Ate lunch
- 1334 - Moved to DEC-24D to begin bailing ~ 5 gallons clear water
- 1352 - Moved to DEC-270R to begin bailing. 5 gallons bailed. Clear liquid
- 1355 - Moved back to DEC 136 to pump on. 4 more gallons of water based surfactant removed.
- 1400 - Move truck to EW-02 to pump well. Pumped ~ 10 more gallons. Clear water No DVAPE. Began to clean up site
- 1500 - Island Pump + Tank Arrive on site to pickup drums.
- 1510 - Left site for hotel

Continued on Page _____

Read and Understood By



Signed

9/12/18

Date

Signed

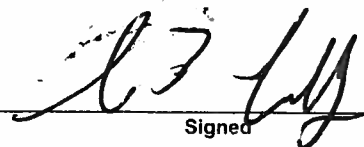
Date

Date: 9/12/18Personnel: Sam P. Connolly

- 0745 - Arrive On Site
- 0750 - Begin setting up to pump EW-02
- 0800 - Begin pumping EW-02 then went to DEC 136 to setup pump
- 0815 - Hand pumped DEC 24 w/ check valve while EW-02 pumps. Removed ~ 4 gallons. Some Blackish grey petroleum smelling water
- 0830 - Turned off pump to EW-02 + moved truck to DEC 136
- 0840 - Went dry after ~ 5 gallons. Moved truck back to EW-02
- 0845 - Pumped EW-02 more. Another 10 gallons → turned off ^{some}
- 0900 - Went back to DEC 136 + pumped dry ~ 3-4 gallons (abandoned)
- 0915 - Hand pumped DEC 21 again. Removed another 4 gallons water was getting more clear.
- 0930 - Began bailing all other wells. Goal to take ~ 2 gallons out of each.
- 1020 - Finished bailing wells. Went back to DEC 21 to hand pump. 4 more gallons. Clearer water.
- 1035 - Pumped ~ 10 gallons more from EW-02. Drum mostly full. Began breaking down site.
- 1040 - Island Pump + Tank arrived. Close drums + let him load it up. Continued to break down site + close wells
- 1050 - Left site for Eco Rental Solutions
- 1130 - Arrived @ Eco Rental Solutions
- 1140 - Left Eco Rental Solutions for home.
- 1830 - Arrived home.
- 1835 - Left to drop off Rental Car
- 1900 - Dropped off Rental → went home.

Continued on Page _____

Read and Understood By



Signed

9/12/18

Date

Signed

Date

APPENDIX B

WASTE DISPOSAL DOCUMENTS

Form Approved: OMB No. 2050-0039

1. Generator ID Number: NYR000217000

2. Page 1 of 1

3. Emergency Response Phone: 800-457-7382

4. Manifest Tracking Number: 009987647 FLE

5. Generator's Name and Mailing Address: NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CO, 825 BROADWAY, ALBANY NY 12233

6. Generator's Phone: 518-457-7382

7. Transporter 1 Company Name: ISLAND PUMP & TANK CORP.

8. Designated Facility Name and Site Address: REPUBLIC ENVIRONMENTAL SYSTEMS (TRANSPORTATION GROUP), LLC, NORTHLAND ENVIRONMENTAL, 275 ALLEN AVENUE, PROVIDENCE RI 02903

9a. HM: X

9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number): HAZARDOUS WASTE, LIQUID, N.O.S., (ETHYLENE) 9, PGIII RC(F002)

10. Containers: 2

11. Total Quantity: 650

12. Unit: DM

13. Waste Codes: F002, B

14. Special Handling Instructions and Additional Information: 007 700976-1 EROH11, 389913 RC N.Y.

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.

16. International Shipments: ☐ Import to U.S., ☐ Export from U.S.

17. Transporter Acknowledgment of Receipt of Materials: Transporter 1 Printed/Typed Name: Joseph E. Sisco, Signature: [Signature], Month: 08, Day: 07, Year: 18

18. Discrepancy: ☐ Quantity, ☐ Type, ☐ Residue, ☐ Partial Rejection, ☐ Full Rejection

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems):

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYR000217638	2. Page 1 of 1	3. Emergency Response Phone 800-457-7362	4. Manifest Tracking Number 009987648 FLE		
5. Generator's Name and Mailing Address NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CO 625 BROADWAY ALBANY NY 12233				Generator's Site Address (if different than mailing address) FORMER SPIC & SPAN IRM SITE 224129 315 KINGSLAND AVENUE BROOKLYN NY 11222			
6. Transporter 1 Company Name ISLAND PUMP & TANK CORP.				U.S. EPA ID Number NYR000191726			
7. Transporter 2 Company Name REPUBLIC ENVIRONMENTAL SYSTEMS (TRANSPORTATION GROUP), LLC				U.S. EPA ID Number PAD082661381			
8. Designated Facility Name and Site Address NORTHLAND ENVIRONMENTAL 276 ALLENS AVENUE PROVIDENCE RI 02906				U.S. EPA ID Number RID040098352			
Facility's Phone: 401-781-6340							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
			No.	Type			
	X	1. NA3082, HAZARDOUS WASTE, LIQUID, N.O.S., (TETRACHLOROETHYLENE) 9, PGIII RQ(F002)	1	DM	250	P	F002 E
		2.					
		3.					
	4.						
14. Special Handling Instructions and Additional Information DTI 780576-1 ERG#171 38993 PC N.Y.							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name JOSEPH E. SISCO				Signature <i>[Signature]</i>		Month Day Year 12 18 2018	
TRANSPORTER	16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
	17. Transporter Acknowledgment of Receipt of Materials						
	Transporter 1 Printed/Typed Name JOSEPH E. SISCO				Signature <i>[Signature]</i>		Month Day Year 09/08/18
	Transporter 2 Printed/Typed Name JOSEPH E. SISCO				Signature <i>[Signature]</i>		Month Day Year 09/08/18
DESIGNATED FACILITY	18. Discrepancy						
	18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection						
	Manifest Reference Number: _____						
	18b. Alternate Facility (or Generator) U.S. EPA ID Number _____						
	Facility's Phone: _____						
	18c. Signature of Alternate Facility (or Generator) Month Day Year _____						
	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
	1.	2.	3.	4.			
	20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
	Printed/Typed Name _____				Signature _____		Month Day Year _____

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number			
		NYR000217838	1	800-467-7362	009987656 FLE			
5. Generator's Name and Mailing Address			Generator's Site Address (if different than mailing address)					
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CO 825 BROADWAY ALBANY NY 12233			FORMER SPIC & SPAN IRM SITE 224120 315 KINGSLAND AVENUE BROOKLYN NY 11222					
Generator's Phone: 518 467-7362								
6. Transporter 1 Company Name			U.S. EPA ID Number					
ISLAND PUMP & TANK CORP.			NYR000191726					
7. Transporter 2 Company Name			U.S. EPA ID Number					
REPUBLIC ENVIRONMENTAL SYSTEMS (TRANSPORTATION GROUP), LLC			PAD982881351					
8. Designated Facility Name and Site Address			U.S. EPA ID Number					
NORTHLAND ENVIRONMENTAL 275 ALLENS AVENUE PROVIDENCE RI 02905								
Facility's Phone: 401 781-0340			RID040098352					
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
			No.	Type				
	1. X NA3082, HAZARDOUS WASTE, LIQUID, N.O.S., (TETRACHLOROETHYLENE) 9, PGII RC(F002)		2	DM	800	P	F002	9
	2.							
	3.							
4.								
14. Special Handling Instructions and Additional Information								
1(T) 780576-1 ER04171 38993 PC N.Y.								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offeror's Printed/Typed Name			Signature			Month Day Year		
Hunt Dec			P.H.Y.			9 12 12		
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:								
17. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name			Signature			Month Day Year		
Joseph E. Sisco			Joseph E. Sisco			09 12 18		
Transporter 2 Printed/Typed Name			Signature			Month Day Year		
18. Discrepancy								
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection								
Manifest Reference Number:								
18b. Alternate Facility (or Generator) U.S. EPA ID Number								
Facility's Phone:								
18c. Signature of Alternate Facility (or Generator) Month Day Year								
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1.		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name			Signature			Month Day Year		

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYR000217689		2. Page 1 of 1		3. Emergency Response Phone 800-457-7382		4. Manifest Tracking Number 009987657 FLE			
		5. Generator's Name and Mailing Address NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CO 825 BROADWAY ALBANY NY 12203 Generator's Phone: 518 467-7382						Generator's Site Address (if different than mailing address) FORMER SPIC & SPAN IRM SITE 224129 316 KINGSLAND AVENUE BROOKLYN NY 11222			
6. Transporter 1 Company Name ISLAND PUMP & TANK CORP.		U.S. EPA ID Number NYR000101720									
7. Transporter 2 Company Name REPUBLIC ENVIRONMENTAL SYSTEMS (TRANSPORTATION GROUP), LLC		U.S. EPA ID Number PAD992881381									
8. Designated Facility Name and Site Address NORTHLAND ENVIRONMENTAL 276 ALLENS AVENUE PROVIDENCE RI 02905 Facility's Phone: 401 781-5340		U.S. EPA ID Number RID040098352									
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))				10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
	X	1HA302, HAZARDOUS WASTE, LIQUID, N.O.S., (TETRACHLOROETHYLENE) 9, PGIII RQ(F002)				1 CM		400	P	F002	B
14. Special Handling Instructions and Additional Information (1) 75006 TERCMTT											
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.											
Generator's/Offor's Printed/Typed Name Joe Downer or ore						Signature [Signature]		Month Day Year 9 15 18			
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____											
17. Transporter Acknowledgment of Receipt of Materials											
Transporter 1 Printed/Typed Name Joseph E. Sisco						Signature [Signature]		Month Day Year 07 19 18			
Transporter 2 Printed/Typed Name						Signature		Month Day Year			
18. Discrepancy											
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection											
Manifest Reference Number: _____											
18b. Alternate Facility (or Generator) U.S. EPA ID Number											
Facility's Phone: _____											
18c. Signature of Alternate Facility (or Generator) Month Day Year											
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)											
1.		2.		3.		4.					
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a											
Printed/Typed Name						Signature		Month Day Year			