
ADDENDA H
GROUND WATER
SAMPLING REPORT —
NOVEMBER 2018



November 26, 2018

Town of Southampton
116 Hampton Road
Southampton, New York 11968

Attention: James M. Burke, Town Attorney

Re: **Per- and Polyfluoroalkyl Substances Groundwater Sampling Report
Damascus Road Landfill
End of Damascus Road
East Quogue, NY 11942**

Dear Mr. Burke:

Amec Environment & Engineering, PC (Amec) has prepared this Per- and Polyfluoroalkyl Substances (PFAS) Sampling Report (Report) on behalf of the Town of Southampton for the property located at the end of Damascus Road, East Quogue, Suffolk County, NY (Site). A site location map is included as Figure 1. This Report details the field activities and laboratory analytical data associated with the groundwater sampling event conducted in August 2018. Additionally, a records review search was completed and is appended (Attachment 3).

Site Description

The Site currently consists of a 12.32-acre property comprising vacant land with debris consisting of car parts, tires, and household waste scattered throughout. The neighborhood surrounding the property is a suburban and rural area of Suffolk County and adjacent land use consists primarily of residential properties.

Site Background

A former landfill is reported to have operated at the Site from the 1930s until 1973 primarily accepting municipal waste from local businesses and residents. The Town has no knowledge of and has never authorized the disposal of hazardous materials at this landfill. Beginning in the mid-1970s the property is reported to have been used as an animal shelter. The Site has remained undeveloped since that time. The NYSDEC periodically reevaluates former landfills in an effort to assess

potential environmental impacts from possible hazardous waste disposal. In 2017, the NYSDEC began investigating the subject property due to the former landfill operation at the Site. As described in a memo from the NYSDEC Division of Materials Management, activities consisting of: “storage of used cars, disposal of sewage by means of a leaching field, operation of a transfer station and fire training” had occurred at the subject property without department oversight.

To investigate potential groundwater impacts of the former site operations, the NYSDEC initiated a limited hydrogeologic investigation in January 2018 that consisted of installing three monitoring wells. Figure 2 depicts the monitoring well locations. The monitoring well identified by the NYSDEC as MW-1 is located at the northeast corner of the site and serves as an upgradient well location. The monitoring wells identified as MW-2 and MW-3 are located on the south and southwest boundaries respectively and serve as downgradient groundwater monitoring locations. Figure 2 also provides interpreted direction of groundwater flow. The boring logs and monitoring well diagrams are included as Attachment 1.

In February 2018, the NYSDEC arranged for sampling of the monitoring wells and groundwater samples were analyzed for VOCs, SVOCs, Metals, PFAS, anions, alkalinity, COD, hardness, TDS, and TOC. The laboratory analytical data showed that the water samples collected from the monitoring wells did not exceed the current NYS TOGS ground water standards. PFAS levels (which are not included in the NYS TOGS) were detected at concentrations exceeding the EPA final Health Advisory (HA) of 70 ng/L (nanograms per liter or parts per trillion) for the combined values of Perfluorooctanesulfonic Acid (PFOS) and Perfluorooctanoic Acid (PFOA) in one of the three wells. The concentrations measured in the groundwater sample from MW-2 contained PFOS at 11,200 ng/L and PFOA at 424 ng/L. The concentrations for the groundwater sample collected from MW-3, the other downgradient well, was 5.8 ng/L for PFOS and non-detect PFOA. The concentration for the water sample collected from well MW-1, the upgradient well, was non-detect for PFOS and 3.6 ng/L for PFOA. These results suggest that the detections measured in well MW-2 may be from a localized source and that PFAS concentrations in the range of 1 to 10 ng/L may be considered background levels for a community serviced by on-site septic systems such as this.

The Suffolk County Department of Health Services working in conjunction with the NYSDEC initiated a program to test the private homeowner water supply wells in the vicinity for potential PFAS impacts. There are 118 private homeowner wells in the general area of the landfill. To date, water has been sampled and tested from 91 of these well. PFAS was detected in 41 of those samples with two detections exceeding the EPA HA for PFOS and PFOA. These results are displayed graphically on a figure included as Attachment 2. In response to these detections, the NYSDEC has forwarded a draft Order on Consent (Order) to the Town and requested that a Site Characterization Study be performed.

Amec and the Town concurred the NYSDEC analytical results should be confirmed prior to any further Town discussion of the Draft Order with NYDEC. The schedule and a letter work plan for the confirmation sampling was provided to NYDEC and work initiated with NYDEC concurrence.

Confirmation Sampling Field Procedures

An Amec field crew mobilized to the Site on August 23, 2018 to resample the on-site groundwater monitoring wells for PFAS analysis. The groundwater monitoring wells were sampled using low-flow sampling procedures. A Monsoon™ brand submersible pump was used to evacuate the water from the wells. New high density polyethylene (HDPE) tubing was used for the collection of each sample. The initial depth to water was approximately 40 feet. The wells were purged at a rate of approximately 500 ml per minute with .01 to .02 feet of drawdown. Temperature, specific conductance, pH, dissolved oxygen, turbidity and redox were recorded until they stabilized as the well was purged. These readings were logged on field forms and are included in Attachment 1. The purged water was contained in 5-gallon plastic pails and staged by the gate at the entrance to the landfill. The Town arranged for the proper disposal of this water at a permitted facility. A disposal manifest is attached.

Non-dedicated downhole sampling equipment including the submersible pump and water level indicator were decontaminated after use at each monitoring well location with Alconox and laboratory-supplied contaminant and PFAS-free certified water. The tubing was dedicated for each of the monitoring well locations.

Laboratory Analytical Results

The groundwater samples were collected in laboratory provided PFAS free containers, preserved with 1.25 grams Trizma and submitted under chain of custody to Alpha Analytical of Westborough, MA.

The laboratory analytical results were tabulated and compared to the EPA HAs. The tabulated data is provided as Table 1. The laboratory analytical data collected in August 2018 confirm that the groundwater in MW-2 contains elevated PFOS and PFOA at concentrations in excess of the EPA HA of 70 ng/l, but were present at slightly lower concentrations than those measured in February 2018. PFOS was detected in the water sample at 4,050 ng/l and PFOA was detected at 96.6 ng/l. There were no exceedances of the EPA HAs in the groundwater samples collected from MW-1 and MW-3.

Conclusions

- The laboratory analytical results for groundwater samples collected during the August 2018 confirmation event indicate a similar suite of PFAS compound detections as the results from the February 2018 event, but at lower concentrations. This could be attributed to natural seasonal variations resulting from differences in the amount of precipitation (rainfall) during the Spring and Summer seasons.
- The groundwater collected from the downgradient well, MW-2, contained PFOS and PFOA at concentrations in excess of EPA HAs. There were no exceedances of the EPA HAs for PFOS and PFOA in the groundwater samples collected from the other two on-site monitoring wells.
- The occurrence of PFAS detections in the upgradient monitoring well (MW-1) and at private supply wells located upgradient of the landfill suggests that there could be a background concentration of PFAS compounds in the low (1 ng/l or less) concentration range.
- The Suffolk County Department of Health Services has been sampling and analyzing water samples from private wells in the areas. There are a total of 950 residences in the area, 117 of which have private water supply wells and of these 96 been tested. Water from 2 of these wells contained PFOS and PFOA above the EPA HAs. Water from 47 of these wells had PFAS detections below the EPA guidance value. The water from the remaining 47 wells had no detections of PFAS.

- A record search for other potential sources of PFAS near the Site was performed. A review of aerial photos, topographic maps and an EDR radius search was completed. The area upgradient of the landfill was found to consist of predominantly agricultural land use or vacant land during the years included in the search. There were, however, two locations cross gradient or downgradient of the landfill that could merit further evaluation depending upon residential well sampling results. The Old Quogue Landfill, located on Old Country Road, was operated as a 16 acre municipal landfill from the 1930's to 1973. In addition, Charles Cardo & Sons, Inc. own a three acre site also on Old Country Road that received construction and demolition debris. These sites likely are not related to PFOS and PFOA detections in MW-2
- A file search of the Town of Southampton's records was also performed. The documents obtained in the search and a review of their finding are included in a Records Search Report attached to this document.
- A memo from the NYSDEC Division of Materials Management states that "fire training" had occurred at the landfill in the past. Firemen have practiced using "jaws of life" hydraulic rescue tools on old cars located on the landfill. Other than that, the Town has no knowledge of any fire training being performed at the landfill. In addition, upon completing a thorough search of their records, no files or documents indicating that the Town of Southampton ever authorized or allowed fire training to be performed at the landfill were found. Numerous members of the Fire Marshal Office for the Town of Southampton and the East Quogue Fire Department were interviewed by Town officials. None of these people had any knowledge of any authorized or unauthorized fire training involving fire extinguishing methodologies or the use of fire suppressants having been performed at the property. We suggest that the NYSDEC be asked to provide the Town with any documentation they have indicating the landfill was used for fire training.

Recommendations

A more detailed groundwater investigation should be performed at this site. This investigation should include:

- A network of monitoring wells upgradient of the landfill and between the landfill and Quantuck Bay to accurately define the regional and local direction of groundwater flow. These should include wells downgradient of the Old Quogue Landfill and Charles Cardo & Sons, Inc. properties. The Town should coordinate these efforts with other federal, state and county agencies that may have monitoring wells in the area which can be used create an area-wide well network.;
- Soil borings within the landfill to determine if PFAS is present within the subsurface soils; and,
- Soil borings with groundwater screening samples along the downgradient border of the landfill with the collection of groundwater samples at different depths to determine the vertical extent of PFAS migration.

The Town should consider the intended future use of this property. The intended future use of the land should be discussed with representatives of the NYSDEC. Using the future anticipated use of the land as a goal, the Town should then discuss with the NYSDEC which of the many programs within the state is best suited to achieving the intended future use of the land.

If you have any questions regarding this Report, please do not hesitate to call our office.

Sincerely,

AMEC Environment & Engineering, P.C.



Jazmin Logan
Project Geologist



Eric Weinstock, PG
Principal Geologist

Enclosures:

- Figure 1:** Location Map
- Figure 2:** Groundwater Sampling Locations
- Table 1:** Damascus Road Landfill PFAS Laboratory Data
- Attachment 1:** Field Data Records
- Attachment 2:** Damascus Landfill Road Water Sampling Results
- Attachment 3:** Records Search Report
- Attachment 4:** Alpha Analytical Laboratory Report
- Attachment 5:** IDW Disposal Manifest

cc: Melissa Sweet, NYSDEC
John Swartwout, NYSDEC
Francis Zappone, Town of Southampton

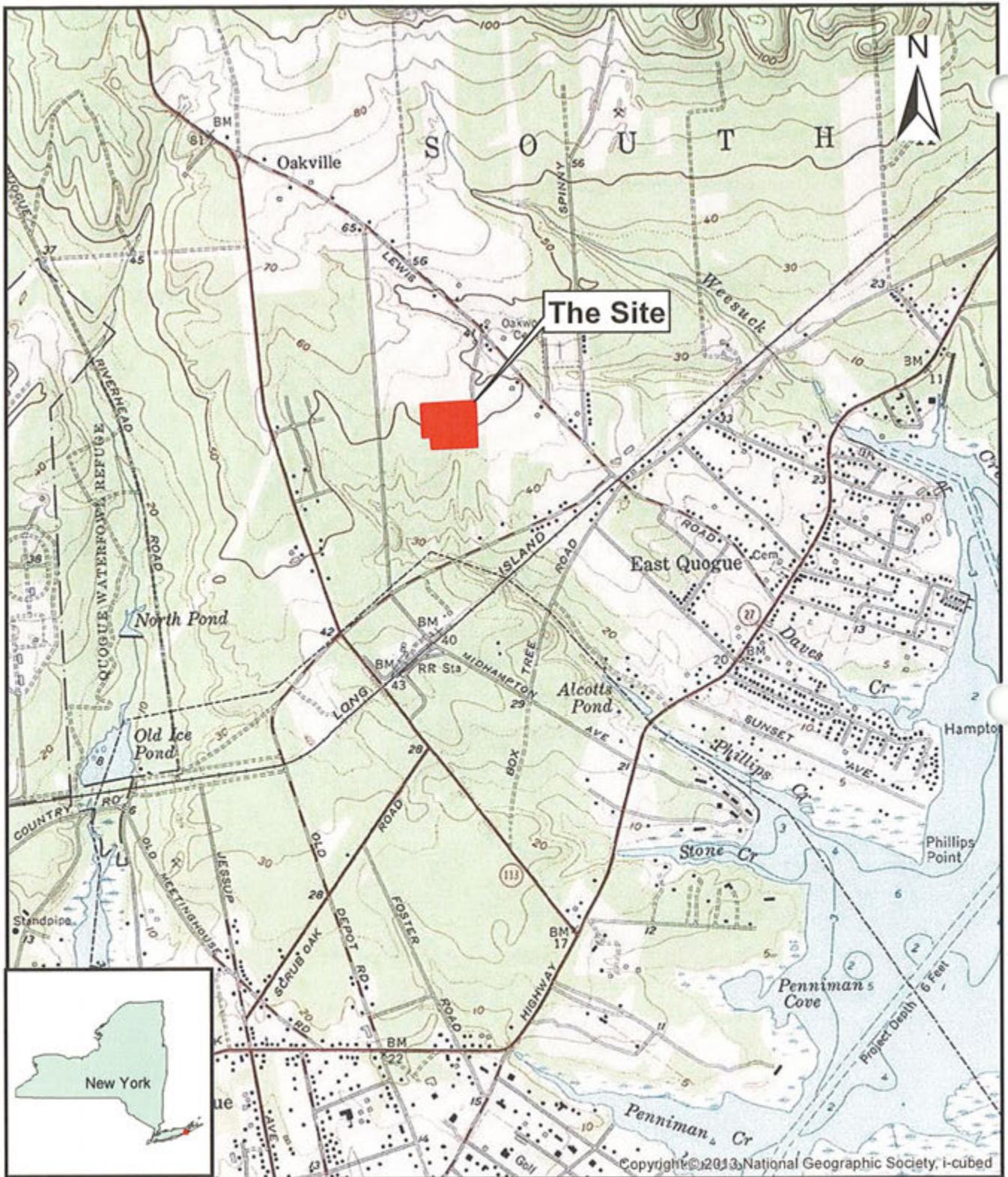


Figure 1
Site Location Map

0 0.5
Miles



Damascus Road Landfill
East Quogue, New York 11942

Prepared/Date: JCL 10/04/18 | Checked/Date: EAW 10/04/18



Figure 2
Monitoring Well Locations and Site-Specific Water Table Map

Damascus Road Landfill
East Quogue, New York 11942

Prepared/Date: JCL 10/04/18 Checked/Date: EAW 10/04/18



Legend

- Monitoring Wells
- Line of Equal Elevation in Feet Above MSL



Table - 1
Damascus Road Landfill
PFAS Laboratory Data

ANALYTE	CAS	EPA Guidance (ug/l)	SAMPLE ID: LAB ID: DATE: MATRX:				MW-2-082318 L1833504-02 8/23/2018 WATER				MW-3-082318 L1833504-03 R1 8/23/2018 WATER			
			Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
PERFLUORINATED ALKYL ACIDS BY ISOTOPE DILUTION														
Perfluorobutanoic Acid (PFBA)	375-22-4		ND		0.00177	0.000116		0.0191	0.00178	0.000117	0.003	0.0018	0.000118	
Perfluoropentanoic Acid (PFPeA)	2706-90-3		ND		0.00177	0.000076		0.0436	0.00178	0.000076	0.008	0.0018	0.000077	
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	400	ND		0.00177	0.000098		0.053	0.00178	0.000098	0.001	J	0.0018	0.000099
Perfluorohexanoic Acid (PFHxA)	307-24-4		ND		0.00177	0.000112		0.237	0.00178	0.000113	0.006	0.0018	0.000114	
Perfluoroheptanoic Acid (PFHpA)	375-85-9		ND		0.00177	0.000082		0.035	0.00178	0.000083	0.003	0.0018	0.000083	
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4		0.000291	J	0.00177	0.000095		1.64	**	0.02	0.00108	0.008	0.0018	0.000097
Perfluorooctanoic Acid (PFOA)	335-67-1	0.070	0.000082	J	0.00177	0.000045		0.0966	0.00178	0.000045	0.007	0.0018	0.000046	
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2)	27619-97-2		0.000975	J	0.00177	0.000172		0.00206	0.00178	0.000173	0.004	0.0018	0.000175	
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8		ND		0.00177	0.000138		0.113	0.00178	0.000138	ND	0.0018	0.00014	
Perfluorononanoic Acid (PFNA)	375-95-1		ND		0.00177	0.000089		0.00183	0.00178	0.000089	ND	0.0018	0.000091	
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	0.070	ND		0.00177	0.000099		4.05	**	0.02	0.00112	ND	0.0018	0.000101
Perfluorodecanoic Acid (PFDA)	335-76-2		ND		0.00177	0.000169		ND	0.00178	0.00017	ND	0.0018	0.000172	
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2)	39108-34-4		ND		0.00177	0.000258		ND	0.00178	0.00026	ND	0.0018	0.000262	
N-Methyl Perfluorooctanesulfonamidoacetic Acid	2355-31-9		ND		0.00177	0.000222		ND	0.00178	0.000224	ND	0.0018	0.000226	
Perfluoroundecanoic Acid (PFUnA)	2058-94-8		ND		0.00177	0.00017		ND	0.00178	0.000171	ND	0.0018	0.000172	
Perfluorodecanesulfonic Acid (PFDS)	335-77-3		ND		0.00177	0.000197		ND	0.00178	0.000198	ND	0.0018	0.000201	
Perfluorooctanesulfonamide (FOSA)	754-91-6		ND		0.00177	0.000201		ND	0.00178	0.000202	ND	0.0018	0.000205	
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (8:2)	2991-50-6		ND		0.00177	0.00033		ND	0.00178	0.000333	ND	0.0018	0.000336	
Perfluorododecanoic Acid (PFDoA)	307-55-1		ND		0.00177	0.000081		ND	0.00178	0.000082	ND	0.0018	0.000083	
Perfluorotridecanoic Acid (PFTriDA)	72629-94-8		ND		0.00177	0.00008		ND	0.00178	0.000081	ND	0.0018	0.000082	
Perfluorotetradecanoic Acid (PFTA)	376-06-7		ND		0.00177	0.000064		ND	0.00178	0.000064	ND	0.0018	0.000065	

ANALYTE	CAS	EPA Guidance (ug/l)	SAMPLE ID: LAB ID: DATE: MATRX:				FB-WL-082318 L1833504-05 R1 8/23/2018 WATER				FB-TUB-082318 L1833504-06 R1 8/23/2018 WATER			
			Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
PERFLUORINATED ALKYL ACIDS BY ISOTOPE DILUTION														
Perfluorobutanoic Acid (PFBA)	375-22-4		0.00267		0.00179	0.000118		ND	0.00184	0.00012	ND	0.00188	0.000123	
Perfluoropentanoic Acid (PFPeA)	2706-90-3		0.00649		0.00179	0.000077		ND	0.00184	0.000079	ND	0.00188	0.00008	
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	400	0.000953	J	0.00179	0.000099		ND	0.00184	0.000101	ND	0.00188	0.000103	
Perfluorohexanoic Acid (PFHxA)	307-24-4		0.00487		0.00179	0.000113		ND	0.00184	0.000116	ND	0.00188	0.000119	
Perfluoroheptanoic Acid (PFHpA)	375-85-9		0.00277		0.00179	0.000083		ND	0.00184	0.000085	ND	0.00188	0.000087	
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4		0.00866		0.00179	0.000096		ND	0.00184	0.000099	ND	0.00188	0.000101	
Perfluorooctanoic Acid (PFOA)	335-67-1	0.070	0.00859		0.00179	0.000045		ND	0.00184	0.000046	ND	0.00188	0.000047	
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2)	27619-97-2		0.004		0.00179	0.000174		0.011	0.00184	0.000178	0.005	0.00188	0.000182	
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8		ND		0.00179	0.000139		ND	0.00184	0.000143	ND	0.00188	0.000146	
Perfluorononanoic Acid (PFNA)	375-95-1		ND		0.00179	0.00009		ND	0.00184	0.000093	ND	0.00188	0.000095	
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	0.070	0.00116	J	0.00179	0.0001		ND	0.00184	0.000102	ND	0.00188	0.000105	
Perfluorodecanoic Acid (PFDA)	335-76-2		ND		0.00179	0.000171		ND	0.00184	0.000175	ND	0.00188	0.000179	
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2)	39108-34-4		ND		0.00179	0.00026		ND	0.00184	0.000267	ND	0.00188	0.000273	
N-Methyl Perfluorooctanesulfonamidoacetic Acid	2355-31-9		ND		0.00179	0.000224		ND	0.00184	0.00023	ND	0.00188	0.000235	
Perfluoroundecanoic Acid (PFUnA)	2058-94-8		ND		0.00179	0.000171		ND	0.00184	0.000176	ND	0.00188	0.00018	
Perfluorodecanesulfonic Acid (PFDS)	335-77-3		ND		0.00179	0.000199		ND	0.00184	0.000204	ND	0.00188	0.000209	
Perfluorooctanesulfonamide (FOSA)	754-91-6		ND		0.00179	0.000203		ND	0.00184	0.000208	ND	0.00188	0.000213	
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (8:2)	2991-50-6		ND		0.00179	0.000334		ND	0.00184	0.000343	ND	0.00188	0.00035	
Perfluorododecanoic Acid (PFDoA)	307-55-1		ND		0.00179	0.000082		ND	0.00184	0.000084	ND	0.00188	0.000086	
Perfluorotridecanoic Acid (PFTriDA)	72629-94-8		ND		0.00179	0.000081		ND	0.00184	0.000083	ND	0.00188	0.000085	
Perfluorotetradecanoic Acid (PFTA)	376-06-7		ND		0.00179	0.000065		ND	0.00184	0.000066	ND	0.00188	0.000068	

* Comparison is not performed on parameters with non-numeric criteria.
 ** Analysis on diluted sample
 *** Duplicate of MW-3
 J - Estimated value

EPA Guidance level

Prepared by JCL 10/09/2018
 Checked by EAW 10/09/2018

ATTACHMENT 1

FIELD DATA RECORDS

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME: Damascus Road Landfill
 PROJECT NUMBER: 3612182355
 SAMPLE ID: MW-1-082318 SAMPLE TIME: 1030

LOCATION ID: MW-1 DATE: 8/23/18
 START TIME: 0915 END TIME: 1040
 SITE NAME/NUMBER: Damascus landfill PAGE: 1 OF 1

WELL DIAMETER (INCHES) 1 2 4 6 8 OTHER _____

TUBING ID (INCHES) 1/8 1/4 3/8 1/2 5/8 OTHER _____

MEASUREMENT POINT (MP) TOP OF RISER (TOR) TOP OF CASING (TOC) OTHER _____

INITIAL DTW (BMP): 42.23 FT FINAL DTW (BMP): 42.24 FT PROT. CASING STICKUP (AGS): _____ FT

WELL DEPTH (BMP): 50 FT SCREEN LENGTH: 10 FT PID AMBIENT AIR: 0 PPM

WATER COLUMN: 7.77 FT DRAWDOWN VOLUME (initial DTW - final DTW X well diam. squared X 0.041): 0.0016 GAL PID WELL MOUTH: 0 PPM

CALCULATED GAL/VOL: 1.27 GAL TOTAL VOL. PURGED: 49 GAL DRAWDOWN/TOTAL PURGED: _____

WELL INTEGRITY: YES NO N/A
 CAP LOCKED: YES NO N/A
 COLLAR: YES NO N/A

TOC/TOR DIFFERENCE: _____ FT REFILL TIMER SETTING: _____ SEC
 DISCHARGE TIMER SETTING: _____ SEC PRESSURE TO PUMP: _____ PSI

TIME 3-5 Minutes	DTW (FT) 0-0-33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O ₂ (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
<u>0945</u>	<u>BEGIN PURGING → 42.24</u>									
<u>0955</u>	<u>410</u>	<u>410</u>	<u>13.94</u>	<u>0.052</u>	<u>5.37</u>	<u>9.68</u>	<u>9.92</u>	<u>27.5</u>	<u>46</u>	
<u>1000</u>	<u>42.24</u>	<u>410</u>	<u>13.83</u>	<u>0.051</u>	<u>5.40</u>	<u>9.42</u>	<u>9.90</u>	<u>312.4</u>	<u>46</u>	
<u>1005</u>	<u>42.24</u>	<u>410</u>	<u>13.69</u>	<u>0.051</u>	<u>5.41</u>	<u>9.43</u>	<u>9.49</u>	<u>323.6</u>	<u>46</u>	
<u>1010</u>	<u>42.24</u>	<u>420</u>	<u>13.52</u>	<u>0.050</u>	<u>5.42</u>	<u>9.64</u>	<u>9.67</u>	<u>338.3</u>	<u>46</u>	
<u>1015</u>	<u>42.24</u>	<u>420</u>	<u>13.65</u>	<u>0.052</u>	<u>5.42</u>	<u>9.16</u>	<u>9.55</u>	<u>338.0</u>	<u>46</u>	
<u>1020</u>	<u>42.24</u>	<u>420</u>	<u>13.52</u>	<u>0.050</u>	<u>5.37</u>	<u>9.55</u>	<u>9.40</u>	<u>347.6</u>	<u>46</u>	
<u>1030</u>	<u>Collect Sample</u>									

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

TEMP. nearest degree (ex. 10.1 = 10)
 COND. 3 SF max (ex. 3333 = 3330, 0.096 = 0.096)
 pH nearest tenth (ex. 3.53 = 3.5)
 DO nearest tenth (ex. 3.51 = 3.5)
 TURB. 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
 ORP. 2 SF (44.1 = 44, 151 = 150)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: PERISTALTIC SUBMERSIBLE BLADDER WATERA OTHER

DECON FLUIDS USED: LIQUINOX DEIONIZED WATER POTABLE WATER NITRIC ACID HEXANE METHANOL OTHER: Alcohol

TUBING/PUMP/BLADDER MATERIALS: SILICON TUBING TEFLON TUBING TEFLON LINED TUBING HDPE TUBING LDPE TUBING OTHER

EQUIPMENT USED: S. STEEL PUMP MATERIAL PVC PUMP MATERIAL GEOPROBE SCREEN TEFLON BLADDER OTHER

W. METER: Sobinet P. METER: Miniflow 3000 WQ METER: Lumatek TURB. METER: Manson PUMP: _____ OTHER: _____ FILTERS: NO _____ TYPE _____

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> <u>PFA</u>	<u>537</u>	<u>-</u>	<u>Tuzma</u>	<u>40</u>	<u>40</u>	<u>MS/MXP</u>	<u>MW-1-082318</u>

PURGE OBSERVATIONS: PURGE WATER CONTAINERIZED: YES NO NUMBER OF GALLONS GENERATED: 5

NO-PURGE METHOD UTILIZED: YES NO If yes, purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES

Sampler Signature: Jaymi Logan Print Name: J. Logan
 Checked By: _____ Date: 8/23/18

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME Damascus Road Landfill	
PROJECT NUMBER 302182358	
SAMPLE ID MW-2-082318	SAMPLE TIME 1520

LOCATION ID MW-2	DATE 8/23/18
START TIME 1425	END TIME 1525
SITE NAME/NUMBER Damascus Landfill	PAGE 1 OF 1

WELL DIAMETER (INCHES) 1 2 4 6 8 OTHER _____

TUBING ID (INCHES) 1/8 1/4 3/8 1/2 5/8 OTHER _____

MEASUREMENT POINT (MP) TOP OF RISER (TOR) TOP OF CASING (TOC) OTHER _____

WELL INTEGRITY

YES	NO	N/A
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

INITIAL DTW (BMP) 4.13 FT	FINAL DTW (BMP) 4.15 FT	PROT. CASING STICKUP (AGS) _____ FT	TOCTOR DIFFERENCE _____ FT
WELL DEPTH (BMP) 50 FT	SCREEN LENGTH 10 FT	PID AMBIENT AIR 0 PPM	REFILL TIMER SETTING _____ SEC
WATER COLUMN 9.87 FT	DRAWDOWN VOLUME 0.003 GAL <small>(initial DTW - final DTW X well diam squared X 0.041)</small>	PID WELL MOUTH 0 PPM	DISCHARGE TIMER SETTING _____ SEC
CALCULATED GAL/VOL 0.81 GAL <small>(column X well diameter squared X 0.041)</small>	TOTAL VOL. PURGED 2.8 GAL <small>(mL per minute X total minutes X 0.00026 gal/mL)</small>	DRAWDOWN/ TOTAL PURGED _____	PRESSURE TO PUMP _____ PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (± 3 degrees)	SP. CONDUCTANCE (mS/cm) (± 3%)	pH (units) (± 0.1 units)	DISS O ₂ (mg/L) (± 10%)	TURBIDITY (ntu) (± 10% <10 ntu)	REDOX (mv) (± 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1444	BEGIN PURGING									
1455	40.15	410	12.38	0.314	6.39	8.79	4.35	280.4	44.6	
1500	40.15	340	12.90	0.325	6.40	8.00	2.31	277.2		
1505	40.15	340	13.30	0.320	6.41	7.75	1.42	276.0		
1510	40.15	340	13.32	0.314	6.41	7.91	0.97	272.3		
1515	40.15	340	12.84	0.313	6.41	8.28	0.62	269.5		
1520	Collect Sample									

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures [SF])

TEMP: nearest degree (ex. 10.1 = 10)
 COND: 3 SF max (ex. 2333 = 2330, 0.696 = 0.696)
 pH: nearest tenth (ex. 5.53 = 5.5)
 DO: nearest tenth (ex. 1.51 = 1.5)
 TURB: 3 SF max, nearest tenth (5.19 = 6.2, 100 = 100)
 ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

<p>TYPE OF PUMP</p> <input checked="" type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> BLADDER <input type="checkbox"/> WATERA <input type="checkbox"/> OTHER _____	<p>DECON FLUIDS USED</p> <input type="checkbox"/> LIQUINOX <input type="checkbox"/> DEIONIZED WATER <input type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input checked="" type="checkbox"/> METHANOL <input type="checkbox"/> OTHER Alconox	<p>TUBING/PUMP/BLADDER MATERIALS</p> <input type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input checked="" type="checkbox"/> HDPE TUBING <input type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER _____	<p>EQUIPMENT USED</p> <input checked="" type="checkbox"/> WL METER Solinst <input checked="" type="checkbox"/> PID Mini Rae 3000 <input checked="" type="checkbox"/> WQ METER YSI 556 <input checked="" type="checkbox"/> TURB METER Lamotte <input checked="" type="checkbox"/> PUMP Manson <input type="checkbox"/> OTHER _____ FILTERS NO _____ TYPE _____
--	--	---	--

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> PFAS	537	<input checked="" type="checkbox"/>	Trizma	3x250mL	Yes	No	MW-2-082318

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES NO

NO-PURGE METHOD UTILIZED YES NO

NUMBER OF GALLONS GENERATED **5**

If yes, purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES

Sampler Signature: *Jaymie Logg* Print Name: **J. Logg**

Checked By: _____ Date: **8/23/18**



LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME Damascus Rd Landfill	
PROJECT NUMBER 3612182385	
SAMPLE ID MW-3-082318	SAMPLE TIME 110

LOCATION ID MW-3	DATE 8/23/18
START TIME 1320	END TIME
SITE NAME/NUMBER Damascus Landfill	PAGE 1 OF 1

WELL DIAMETER (INCHES) <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 4 <input type="checkbox"/> 6 <input type="checkbox"/> 8 <input type="checkbox"/> OTHER _____	WELL INTEGRITY YES NO N/A
TUBING ID (INCHES) <input type="checkbox"/> 1/8 <input type="checkbox"/> 1/4 <input checked="" type="checkbox"/> 3/8 <input type="checkbox"/> 1/2 <input type="checkbox"/> 5/8 <input type="checkbox"/> OTHER _____	CAP <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
MEASUREMENT POINT (MP) <input type="checkbox"/> TOP OF RISER (TOR) <input type="checkbox"/> TOP OF CASING (TOC) <input type="checkbox"/> OTHER _____	CASING LOCKED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
INITIAL DTW (BMP) 42.59 FT	TOC/TOR DIFFERENCE _____ FT
FINAL DTW (BMP) 42.59 FT	REFILL TIMER SETTING _____ SEC
WELL DEPTH (BMP) 50 FT	DISCHARGE TIMER SETTING _____ SEC
SCREEN LENGTH 10 FT	PRESSURE TO PUMP _____ PSI
WATER COLUMN 7.41 FT	
DRAWDOWN VOLUME 0 GAL	
(initial DTW - final DTW X well diam. squared X 0.041)	
TOTAL VOL. PURGED 4.9 GAL	
(mL per minute X total minutes X 0.0026 gal/mL)	
PROT. CASING STICKUP (AGS) _____ FT	
PID AMBIENT AIR 0 PPM	
PID WELL MOUTH 0 PPM	
DRAWDOWN/ TOTAL PURGED _____	

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O ₂ (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1325	BEGIN PURGING 420									
1345	42.57	290	14.33	0.137	5.84	9.46	6.67	282.2	46.3	
1350	42.57	420	13.99	0.136	5.79	9.48	6.41	286.0		
1355	42.54	420	13.66	0.138	5.79	9.56	5.97	289.6		
1400	42.59	420	13.50	0.136	5.76	9.47	5.74	288.2		
1405	42.59	420	15.06	0.138	5.81	8.89	5.03	292.9		
140	Collect sample									

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

TEMP: nearest degree (ev. 10.1 = 10)
COND: 3 SF max. (ex. 3333 = 3330, 0.096 = 0.096)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max. nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 19 = 19)

EQUIPMENT DOCUMENTATION		DECON. FLUIDS USED		TUBING/PUMP/BLADDER MATERIALS		EQUIPMENT USED	
<input checked="" type="checkbox"/> PERISTALTIC	<input type="checkbox"/> LIQUINOX	<input type="checkbox"/> SILICON TUBING	<input type="checkbox"/> S STEEL PUMP MATERIAL	<input checked="" type="checkbox"/> WL METER	<input checked="" type="checkbox"/> SOLANIST		
<input checked="" type="checkbox"/> SUBMERSIBLE	<input type="checkbox"/> DEIONIZED WATER	<input type="checkbox"/> TEFLON TUBING	<input type="checkbox"/> PVC PUMP MATERIAL	<input checked="" type="checkbox"/> PID	<input checked="" type="checkbox"/> MINERAL 3000		
<input type="checkbox"/> BLADDER	<input type="checkbox"/> POTABLE WATER	<input type="checkbox"/> TEFLON LINED TUBING	<input type="checkbox"/> GEOPROBE SCREEN	<input checked="" type="checkbox"/> WQ METER	<input checked="" type="checkbox"/> YSI 556		
<input type="checkbox"/> WATERA	<input type="checkbox"/> NITRIC ACID	<input checked="" type="checkbox"/> HDPE TUBING	<input type="checkbox"/> TEFLON BLADDER	<input checked="" type="checkbox"/> TURB. METER	<input checked="" type="checkbox"/> LAMORTE		
<input type="checkbox"/> OTHER	<input type="checkbox"/> HEXANE	<input type="checkbox"/> LDPE TUBING	<input type="checkbox"/> OTHER	<input checked="" type="checkbox"/> PUMP	<input checked="" type="checkbox"/> MONSOON		
<input type="checkbox"/> OTHER	<input checked="" type="checkbox"/> METHANOL	<input type="checkbox"/> OTHER	<input type="checkbox"/> OTHER	<input type="checkbox"/> OTHER			
	<input checked="" type="checkbox"/> OTHER: Alcon	<input type="checkbox"/> OTHER	<input type="checkbox"/> OTHER	<input type="checkbox"/> FILTERS	NO	TYPE	

ANALYTICAL PARAMETERS	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> PFA	537	—	Trizma	3x 220	2	Duplicate	MW-3-082318

PURGE OBSERVATIONS		NUMBER OF GALLONS GENERATED 5
PURGE WATER CONTAINERIZED	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	If yes, purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.
NO-PURGE METHOD UTILIZED	<input type="checkbox"/> YES <input type="checkbox"/> NO	

SKETCH/NOTES

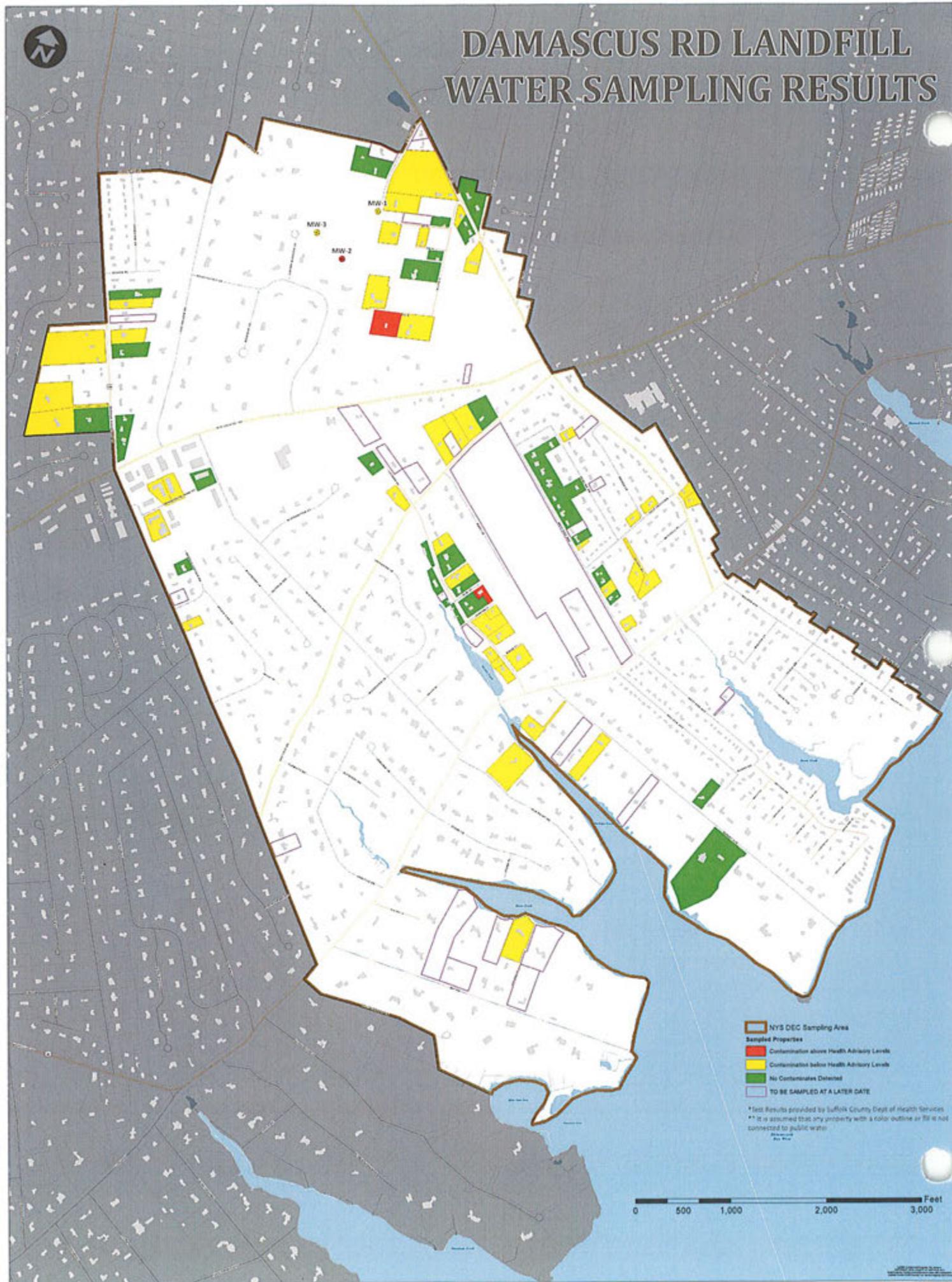
Sampler Signature: *Jazmi Logan* Print Name: **J. Logan**
Checked By: _____ Date: **8/23/18**



ATTACHMENT 2

DAMASCUS ROAD LANDFILL WATER SAMPLING RESULTS

DAMASCUS RD LANDFILL WATER SAMPLING RESULTS



ATTACHMENT 3

RECORDS SEARCH REPORT



**DAMASCUS ROAD LANDFILL
EAST QUOGUE, NEW YORK**

RECORDS SEARCH REPORT

Prepared for:

**TOWN OF SOUTHAMPTON
116 HAMPTON ROAD
SOUTHAMPTON, NEW YORK 11968**

Prepared by:

**AMEC E&E, PC
214-25 42nd AVENUE
BAYSIDE, NY 11361
(347)-836-4343**

NOVEMBER 09, 2018

Records Search Report
Damascus Road Landfill
East Quogue, New York

Certification

I, Eric Weinstock, certify that I am currently a Qualified Environmental Professional as defined in 6 NYCRR Part 375 and that this Records Search 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).



Eric Weinstock
Principal Scientist

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FIGURES

- 1 Site Location Map
- 2 Regional Aerial Photography
- 3 Map of Damascus Road Landfill Water Sampling Results

APPENDICES

- A EDR Search Results
- B Phase II ESA Report by Dvirka and Bartilucci dated January 2007
- C Supplemental Phase II Report by Dvirka and Bartilucci dated December 2009

1.0 INTRODUCTION

This report presents the results of a records search completed for the Site. The purpose of this work was to identify:

- potential onsite or offsite sources that may have contributed to the PFAS contamination in the underlying groundwater,
- specific activities at the Site that could have impacted the groundwater with PFAS (such as firefighting training) or
- historical disposal records of commercial or industrial waste materials or consumer products that may have contained PFAS.

This record search was completed in compliance with DER-10 Technical Guidance for Site Investigation and Remediation Appendix 3A Records Search Requirement.

2.0 HISTORICAL RECORDS REVIEW

Amec obtained and reviewed a historical records package from Environmental Data Resource (EDR) of Shelton, CT consisting of a Radius Map™ report, Sanborn Fire Insurance maps, aerial photographs, and historical topography maps to develop a history of previous uses at the Site and surrounding area. This is included as Appendix A. Our review of this information considered whether any identified uses of the Site or surrounding properties may have posed a potential for use of PFAS containing materials. The following summarizes the EDR historical records package.

2.1 FIRE INSURANCE MAPS

Historical Sanborn Maps covering the Site and the surrounding area were not available for review. A copy of the EDR Sanborn report documenting that Sanborn Maps do not exist for the Site is provided in Appendix A.

2.2 AERIAL PHOTOGRAPHS

Amec reviewed available aerial photographs of the site and surrounding area, provided by EDR, dated 1947, 1957, 1962, 1969, 1970, 1976, 1980, 1985, 1994, 2006, 2009, 2013, and 2017. The information reviewed from the aerial photography is summarized below. It should be noted that

site features may not be discernible on the aerial photographs due to the scale or degree of clarity of a given photograph. Copies of the EDR aerial photographs are included in Appendix A.

The following observations concerning the Site can be made from review of the aerial photographs:

- The Site was occupied as early as or earlier than 1947 as evident by the unpaved roads running along the eastern boundary.
- Subsequent aerial photographs depict a steady increase in development indicated by the reduction of forested land at the Site.
- A building structure was first evident in a 1976 aerial photograph and was depicted on aerial photographs through 2009. This building reportedly was used as an animal shelter for at least part of the time. A well head still exists on the property and is assumed to be the well that was used to supply water to the structure. Since this area is not sewered, it is also assumed the structure was serviced with an on-site septic system.
- The 1962 aerial photo is the earliest photo in which the site presents the appearance of being used as a landfill based on the bare soil covering the parcel. The earlier photos are inconclusive based on the amount of vegetation.

The following observations concern surrounding properties located to the north, east, south and west.

North: Adjacent land is depicted as farmland in the earliest aerial photograph dated 1947 and remained farmland through 2017.

East: The adjacent area to the east was a forested area in the 1947 aerial photograph. Subsequently, in the aerial photographs dated 1957 and 1962 this area was briefly developed into farmland. In the aerial photographs from 1969 through 2017, the surrounding area to the east appears primarily as forested land with unpaved roads and few single family residences.

South and West: The surrounding area to the south and west is appears as undeveloped forested land in the earliest aerial photographs dating 1947 through 1985. In the aerial photographs available from 1994 through 2017, this area the south and west appear populated with paved roads and single family residences.

The review of the aerial photographs covering the Site and surrounding area did not indicate prior periods of commercial or industrial land use upgradient and that land use was largely agricultural from as early as or earlier than 1947 until the present. Agricultural land application of bio solids originating from municipal waste water treatment plants can be a source of PFAS depending on the character of the waste water being treated.

Based on water table maps prepared by the United States Geological Survey (USGS), groundwater passing below the landfill flows from the North West (just south of the intersection of Sunrise Highway and Old Riverhead Road) and towards the South East (Sinnecock Bay). An aerial photo covering a more regional area was also reviewed as part of this records search and is included as Figure 2. Our review of this aerial photo identified several areas at the northern end of Garbreski Airport that are either void of vegetation or industrialized and are located generally upgradient of the Damascus Road Landfill.

2.3 HISTORICAL TOPOGRAPHY MAPS

Amec reviewed available historical topographic maps provided by EDR, dated 1903, 1904, 1943, 1947, 1956, and 2013. The historical topographic maps generally provide very little information regarding land uses. Collectively, the historical topographic maps generally demonstrate that the Site lies in a neighborhood listed as East Quogue. The Site and surrounding area are depicted as unshaded in the historical topographic maps dated 1903 and 1904, which typically indicates undeveloped land. Subsequent historical topographic maps depict the Site and surrounding area as shaded which typically indicates unspecified development.

Therefore, with regard to potential sources of PFAS, the historical topographic maps provide little useful information. Copies of the EDR aerial photographs are included in Appendix A.

2.4 RADIUS REPORT

Amec reviewed the results of a search of environmental record sources (radius report) provided by EDR dated August 16, 2018. The radius report provides results of a regulatory agency database search. Amec reviewed this report for information pertaining to potential land uses for industry

types with potential to have utilized PFAS-containing material. The following summarizes the notable listings identified in the EDR report.

- 34 Second Neck Lane, Quogue, NY. This site is listed as being on the UST and NY Spills regulatory agency databases and 512 feet east of the subject Site. The EDR radius report lists the site as having a 1,000-gallon capacity No.2 fuel oil underground storage tank (UST). In 1998, during the removal of the UST, it was discovered that the tank was leaking. The EDR radius report did not provide much information in regards to the cleanup of the leak from the tank. There is no known association of PFAS with petroleum products. Therefore, this is not considered a potential source of PFAS in the underlying groundwater at the subject Site.
- Atria Country Club Residence - 1 Sachem Lane, East Quogue, NY. This site is listed as being on the UST New York State regulatory agency database and approximately 570 feet northwest of the subject Site. Additionally, the site is upgradient of the subject Site. The EDR radius report lists the site as having a 10,000-gallon capacity No. 2 fuel oil UST. There are no reported incidents of the UST leaking. There is no known association of PFAS with gasoline products. Therefore, this is not considered a potential source of PFAS in the underlying groundwater at the subject Site.
- Edward Wright Cesspool – 132 Damascus Road, East Quogue, NY. This site is listed as being on the UST and AST New York State regulatory databases and 570 feet northeast of the subject Site. Additionally, the site is upgradient of the subject Site. The EDR radius report lists the site as having a 550-gallon capacity gasoline UST, a 1,000-gallon capacity diesel UST, and two 275-gallon capacity waste oil aboveground tanks (ASTs). There is no known association of PFAS with petroleum and gasoline products. Therefore, this is not considered a potential source of PFAS in the underlying groundwater at the subject Site.
- Fedun Landscaping – 146 Old Country Road, East Quogue, NY. This site is listed on the AST New York State regulatory database and is 1230 feet southeast of the subject Site. Additionally, this site is listed as downgradient of the subject Site. The EDR radius report lists the site as having two 275-gallon capacity No.2 fuel oil AST and a 500-gallon

capacity gasoline AST. There is no known association of PFAS with petroleum and gasoline products. Therefore, this petroleum release is not considered a potential source of PFAS in the underlying groundwater at the subject Site. If the landscaping company stored open piles of composite that contained bio-solids from a municipal treatment plant, that could be a source of low levels of PFAS compounds.

- Winter Quogue Transfer Station – Old Country Road and Midhampton Avenue, Quogue, NY. This site is listed on the Solid Waste Facilities / Landfill New York State regulatory database and 1900 feet southwest of the subject Site. Additionally, this site is listed as downgradient of the subject Site. The EDR radius report lists the site as a former landfill permitted to receive construction and demolition debris. The dates of the operation of the former landfill are not specified in the radius report. There is a large variation of material which can constitute construction and demolition debris, some of which may have contained PFAS. However, this site is situated downgradient of the subject Site and is therefore not considered a potential source of PFAS in the underlying groundwater at the subject Site.
- Quogue Sinclair – 47 Westside Avenue, East Quogue, NY. This site is listed on the LTANKS New York State regulatory database and 2300 feet southeast of the subject Site. Additionally, this site is downgradient of the subject Site. The site was listed on the database due to a tank test failure of a petroleum tank in September 1986. The issue was repaired and the case was closed vary shortly after. There is no known association of PFAS with petroleum products. Due to the nature of the listing, and the distance and the direction of groundwater flow in respect to the subject Site this is not considered a potential source of PFAS in the underlying groundwater at the subject Site.
- Old Quogue Landfill in East Quogue, NY. This site is listed on the New York State Hazardous Waste regulatory database. The EDR radius report lists the site as being 0.7 miles southwest of the subject Site. However, upon closer review it is apparent that this listing is associated with the subject Site. The radius report describes this listing as being a two-acre municipal landfill located on a sixteen-acre lot. Further, the listing reports that the landfill was active from the 1930s until 1973s. The site reports that waste dumped in

the landfill came almost entirely from businesses and residents within the boundaries of the Village of Quogue and there was no indication of hazardous waste disposal ever occurring at this landfill. However, this property is a potential source of PFAS until ruled out by additional testing.

- Charles Cardo & Sons, Inc. – Montauk Highway, Quogue, NY. This site is listed on the New York State Hazardous Waste regulatory database. The EDR radius report lists the site as being 0.8 miles southeast and downgradient of the subject Site. The EDR reports that a Phase II investigation revealed debris from the former landscaping business which operated on this site. The debris consisted of soil, brush, tree stumps, trees, brick, wood, concrete, and glass. The investigation concluded that no evidence of hazardous waste disposal or significant environmental contamination was found. The site is listed classified as an “N” site in the NYSDEC Superfund database which signifies that no further action is warranted or remediation is being completed under the a brownfield program. This property is a potential source of PFAS until ruled out by additional testing.

3.0 INTERVIEW WITH TOWN OFFICIAL AND REVIEW OF TOWN RECORDS

3.1 INTERVIEW WITH TOWN OFFICIAL

On August 23, 2018, Eric Weinstock of Amec interviewed Francis Zappone of the Town of Southampton with respect to the landfill. Mr. Zappone provided us with the Town’s file for this property which is described in greater detail below. He indicated that the Town did not maintain a manned booth at the entrance to the landfill and that the waste materials brought there consisted of metals goods (such as old cars), old tires, landscaping debris and fill material. He also indicated that an animal shelter was situated on the property in the past. The shelter was serviced by an on-site well, a heating oil tank and a septic system.

Mr Zappone also indicated that he had no knowledge of any fire training having been performed on the property and there were no records in their file to indicate so. He also contacted: John Irwin from the Parks Dept. (who is also a 25 year veteran volunteer fireman at the East Quogue FD); Alyn Jackson the former East Quogue FD Commissioner; John Rankin, the Town Fire

Marshal; and Cheryl Craft, the Chief Fire Marshal for the Town of Southampton. None of these people had any knowledge of any authorized or unauthorized fire training having been performed at the property.

3.2 REVIEW OF TOWN RECORDS

The following documents were provided to us by the Town:

- A survey of the property prepared by Raynor, Marcks & Carrington dated October 19, 2006
- A Phase II ESA Report by Dvirka and Bartilucci (D&B) dated January 2007 and supporting contact documents
- A Supplemental Phase II Report by D&B dated December 2009
- A map of the SCDHS Private Well Survey Area with color coded symbols indicating the results of the sample analyses.

Survey – The 2006 survey outlines the property boundaries and indicates the area of the property to be 12.32 acres. It does not provide any details as far as what features existed on the site at that time.

2007 D&B Phase II ESA Report – Soil samples were collected from six locations. No ground water samples were included in this investigation. A geophysical survey was also performed which determined that underground heating oil tank serving the animal shelter was removed. VOCs, SVOCs, pesticides and PCBs were not detected in the surface soil samples above the unrestricted use SCOs. Of the metals tested, only zinc was detected above the unrestricted use SCO. None of the subsurface soil samples exceed the unrestricted SCOs for the five analytical parameter groups mentioned above. Analysis for PFAS compounds was not included. A copy of this report is attached as Appendix B.

2009 D&B Supplemental Phase II ESA Report – An additional 15 subsurface soil samples were collect across the site. None of the samples contained VOCs or SVOCs at concentrations in

excess of the unrestricted use SCOs. The pesticides DDT, DDE and DDD were detected at concentrations in excess of the residential SCOs. The PCB Arochlor 1254 was detected in excess of the unrestricted use SCO. The metal zinc was also detected at concentrations in excess of the residential use SCO. Analysis for PFAS compounds was not included. A copy of this report is attached as Appendix C.

Map of the SCDHS Private Well Survey Area – A map was prepared displaying the wells on the landfill and homes in the neighborhood where the private homeowner supply wells have been sampled and tested for PFAS by the SCDHS. The parcels that were sampled were then color coded: red for water samples that exceed the EPA final health advisory (HA) guideline of 0.070 ug/l, yellow for water samples where PFAS was detected below the EPA HA guideline and green for samples where there were no detections of PFAS. A copy of this map is included as Figure 3.

REFERENCES

1. NYSDEC, May 2010, DER-10, Technical Guidance for Site Investigation and Remediation
2. NYSDEC, December 14, 2006, 6NYCRR Part 375, Environmental Remediation Program

FIGURES

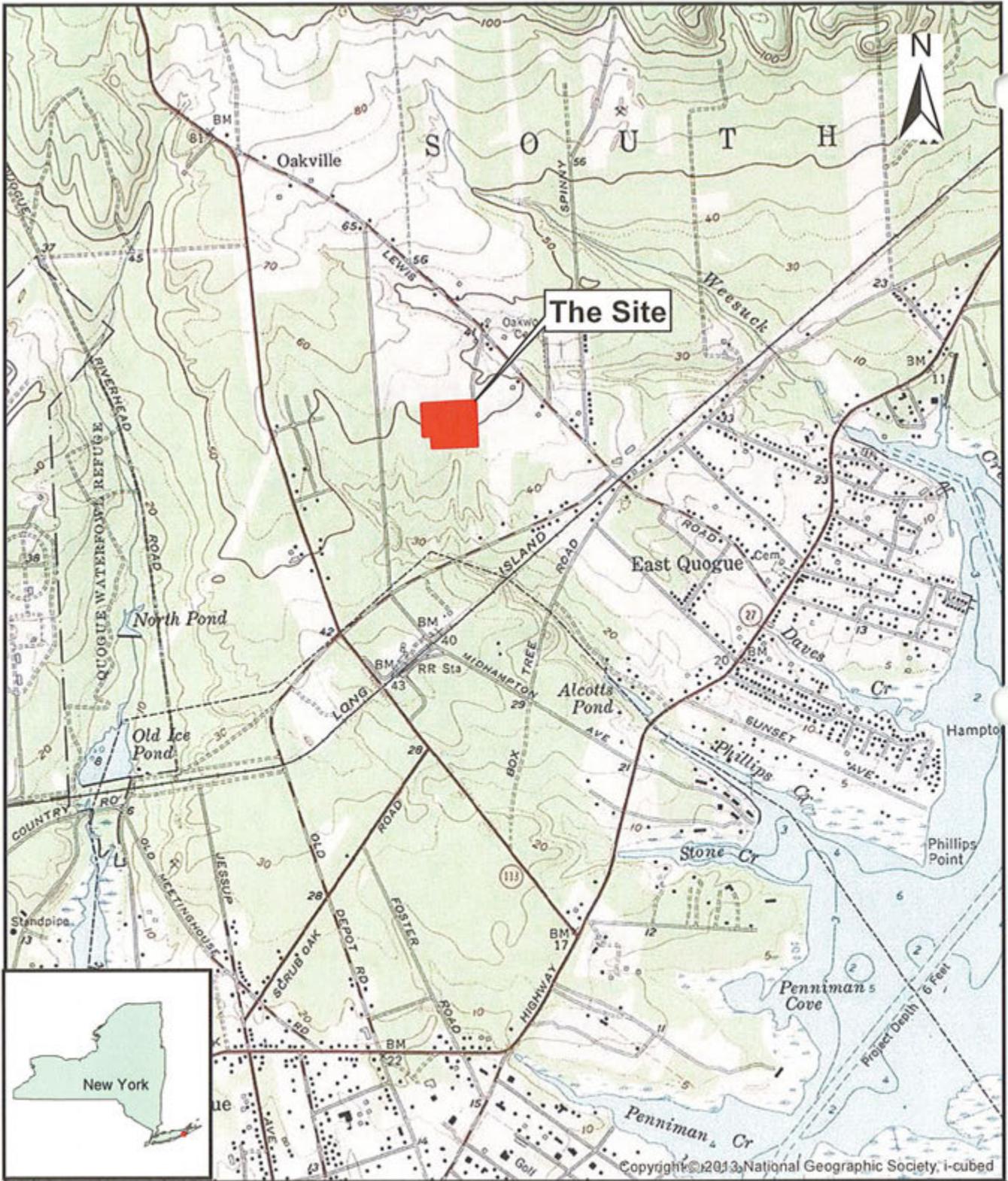


Figure 1
Site Location Map



Damascus Road Landfill
East Quogue, New York 11942

Prepared/Date: JCL 10/04/18 Checked/Date: EAW 10/04/18

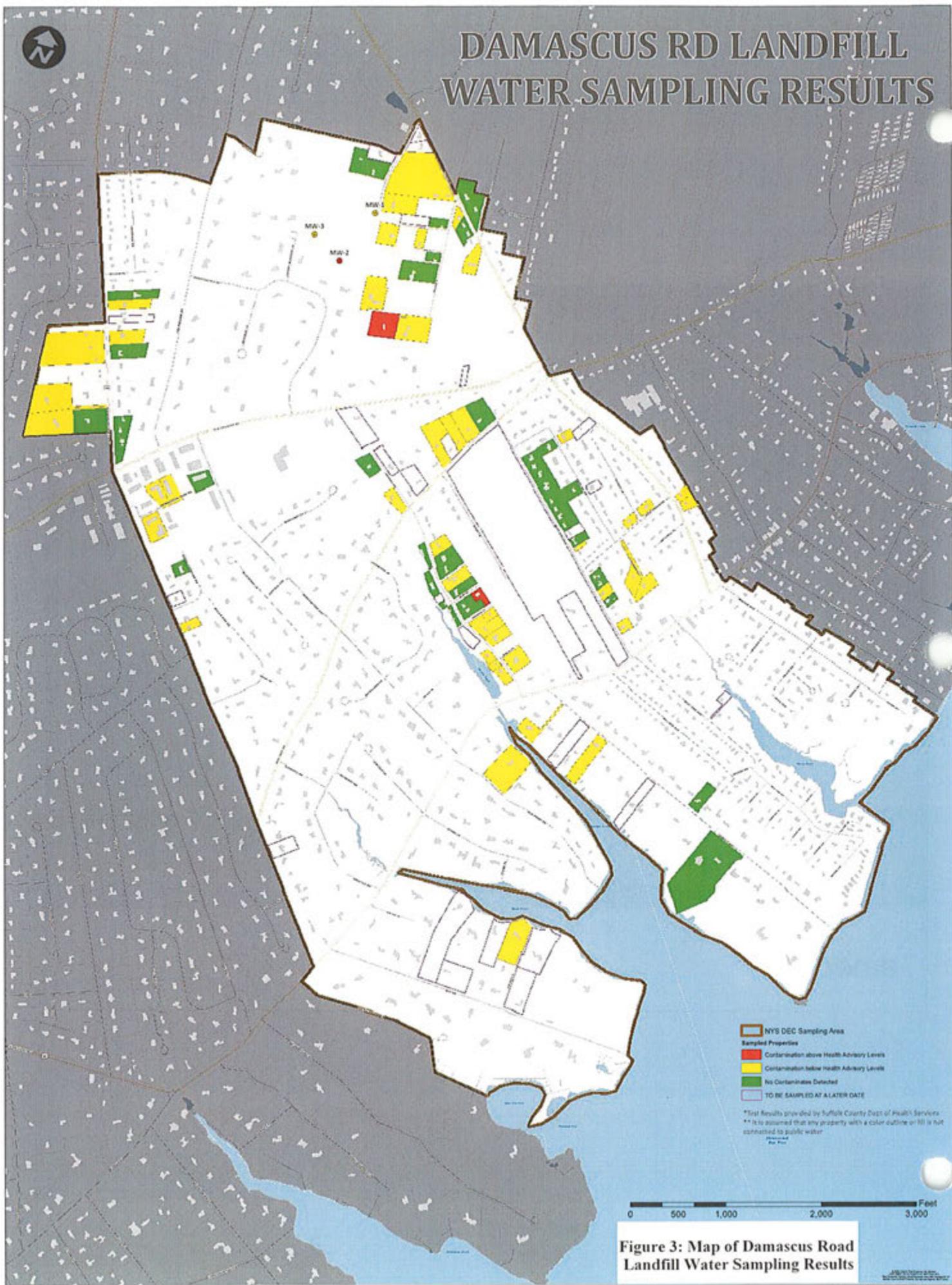


Figure 2
Regional Aerial Photography
 Damascus Road Landfill
 East Quogue, New York 11942



Project No. 110218 Date: 08/11/2014

DAMASCUS RD LANDFILL WATER SAMPLING RESULTS



- NYS DEC Sampling Area
- Sampled Properties**
- Contamination above Health Advisory Levels
- Contamination below Health Advisory Levels
- No Contaminates Detected
- TO BE SAMPLED AT A LATER DATE

*Test Results provided by Suffolk County Dept of Health Services
 ** It is assumed that any property with a color outline or fill is not connected to public water



Figure 3: Map of Damascus Road Landfill Water Sampling Results

APPENDIX A

Damascus Road Landfill
End of Damascus Rd
East Quogue, NY 11942

Inquiry Number: 5396704.3

August 16, 2018

Certified Sanborn® Map Report



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

08/16/18

Site Name:

Damascus Road Landfill
End of Damascus Rd
East Quogue, NY 11942
EDR Inquiry # 5396704.3

Client Name:

Wood Environment & Infrastructure Soluti
511 Congress Street
Portland, ME 04101
Contact: Jazmin Logan



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Wood Environment & Infrastructure Solutions, Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 684B-4DB8-96FA
PO # NA
Project Damascus Road Landfill



Sanborn® Library search results

Certification #: 684B-4DB8-96FA

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

The Sanborn Library LLC Since 1866™

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Damascus Road Landfill

End of Damascus Rd

East Quogue, NY 11942

Inquiry Number: 5396704.8

August 17, 2018

The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

08/17/18

Site Name:

Damascus Road Landfill
End of Damascus Rd
East Quogue, NY 11942
EDR Inquiry # 5396704.8

Client Name:

Wood Environment & Infrastructure Solu
511 Congress Street
Portland, ME 04101
Contact: Jazmin Logan



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2017	1"=500'	Flight Year: 2017	USDA/NAIP
2013	1"=500'	Flight Year: 2013	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1994	1"=500'	Acquisition Date: April 08, 1994	USGS/DOQQ
1985	1"=500'	Flight Date: April 17, 1985	USGS
1980	1"=500'	Flight Date: September 08, 1980	USDA
1976	1"=500'	Flight Date: April 06, 1976	Aero
1970	1"=500'	Flight Date: May 30, 1970	USDA
1969	1"=500'	Flight Date: October 06, 1969	USDA
1962	1"=500'	Flight Date: March 16, 1962	EDR Proprietary Aerial Viewpoint
1957	1"=500'	Flight Date: March 31, 1957	Jack
1947	1"=500'	Flight Date: September 23, 1947	USDA

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INQUIRY #: 5396704.8

YEAR: 2017

— = 500'





INQUIRY #: 5396704.8

YEAR: 2013

— = 500'





INQUIRY #: 5396704.8

YEAR: 2009

— = 500'





INQUIRY #: 5396704.8

YEAR: 2006

= 500'





INQUIRY #: 5396704.8

YEAR: 1994

— = 500'





INQUIRY #: 5396704.8

YEAR: 1985

— = 500'



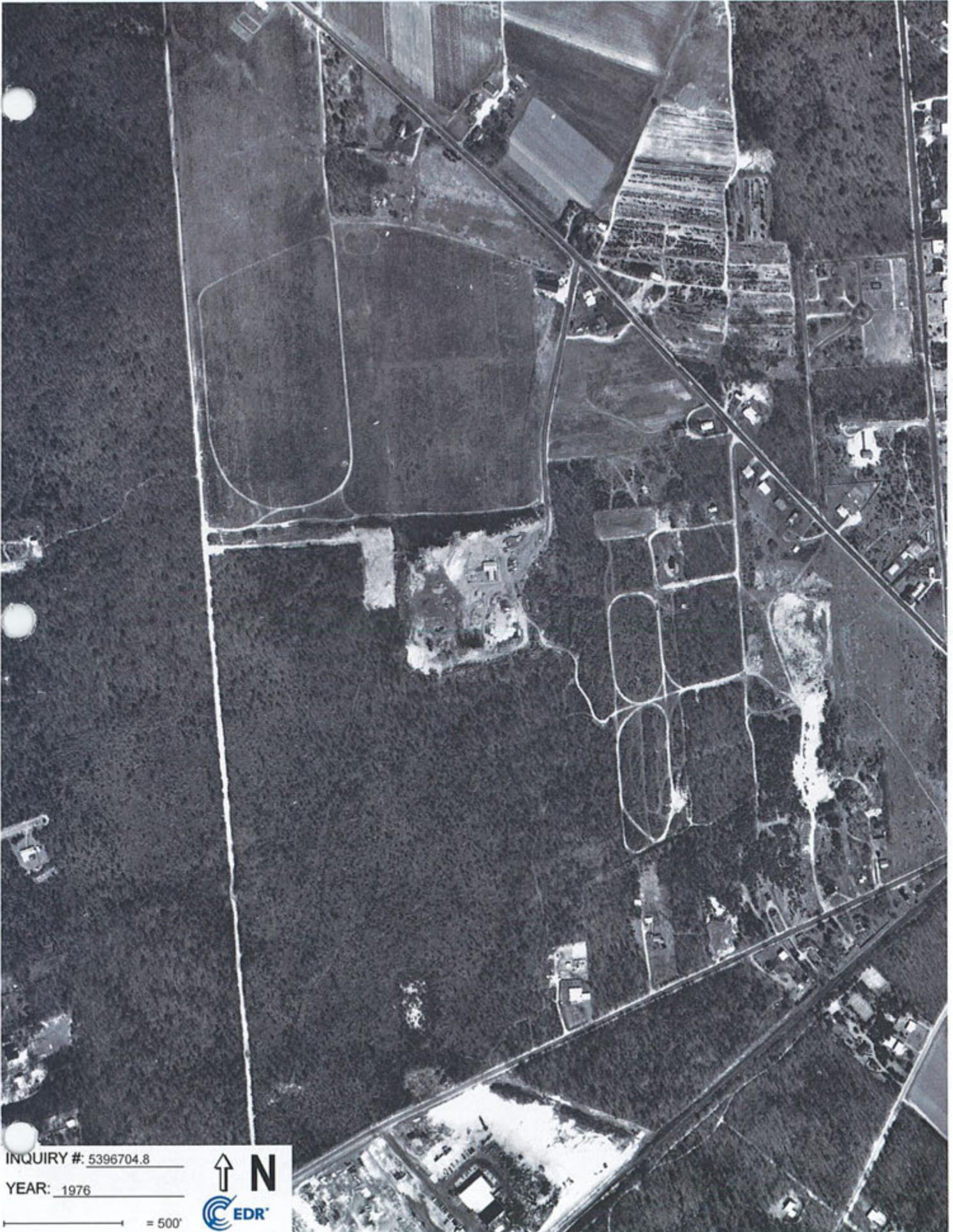


INQUIRY #: 5396704.8

YEAR: 1980

— = 500'





INQUIRY #: 5396704.8

YEAR: 1976

— = 500'



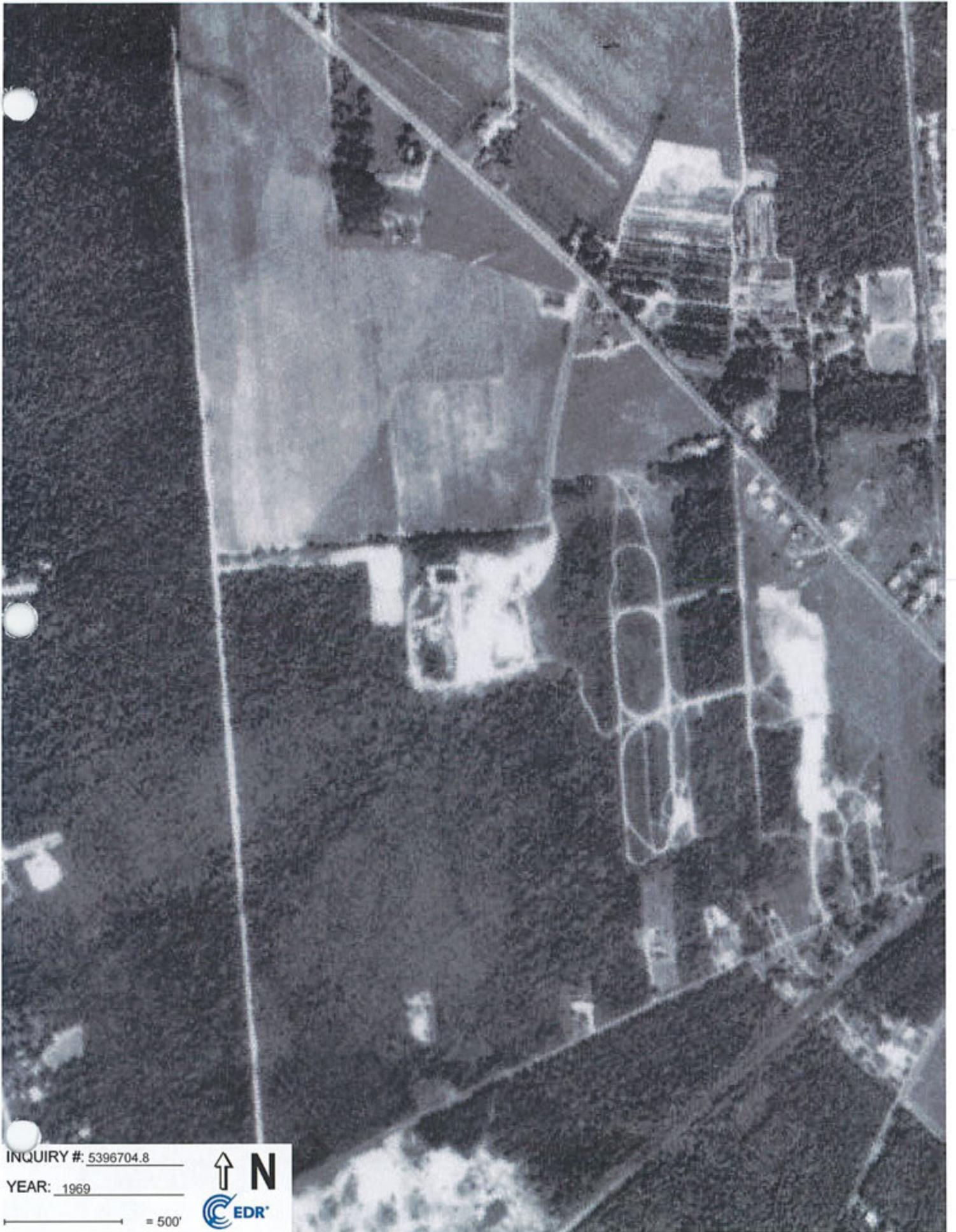


INQUIRY #: 5396704.8

YEAR: 1970

— = 500'





INQUIRY #: 5396704.8

YEAR: 1969

 = 500'





INQUIRY #: 5396704.8

YEAR: 1962

— = 500'





INQUIRY # 5396704.8

YEAR: 1957

← = 500'





INQUIRY #: 5396704.8

YEAR: 1947

— = 500'



Damascus Road Landfill
End of Damascus Rd
East Quogue, NY 11942

Inquiry Number: 5396704.2s
August 16, 2018

The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

END OF DAMASCUS RD
EAST QUOGUE, NY 11942

COORDINATES

Latitude (North): 40.8478430 - 40° 50' 52.23"
Longitude (West): 72.5982390 - 72° 35' 53.66"
Universal Tranverse Mercator: Zone 18
UTM X (Meters): 702469.7
UTM Y (Meters): 4524431.0
Elevation: 48 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 5939561 QUOGUE, NY
Version Date: 2013

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20150507
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:
 END OF DAMASCUS RD
 EAST QUOGUE, NY 11942

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	JOHN C GRIFFITH	34 SECOND NECK LN	UST	Higher	512, 0.097, East
A2	GRIFFITH RESIDENCE	34 SECOND NECK LANE	NY Spills	Higher	512, 0.097, East
3	ATRIA COUNTRY CLUB R	1 SACHEM LA	UST	Higher	567, 0.107, WNW
4	EDWARD WRIGHT CESSPO	132 DEMASCES RD	UST, AST	Lower	573, 0.109, NNE
5	FEDUN LANDSCAPING	146 OLD COUNTRY RD	AST	Lower	1230, 0.233, SSE
6	WINTERS QUOGUE TRANS	OLD COUNTRY RD. & MI	SWF/LF	Lower	1902, 0.360, SSW
7	QUOGUE SINCLAIR	47 WESTSIDE AVENUE	LTANKS	Lower	2328, 0.441, SE
8	OLD QUOGUE LANDFILL	OLD COUNTRY ROAD	SHWS, HSWDS	Lower	3871, 0.733, SSW
9	CHARLES CARDO & SON,	MONTAUK HIGHWAY	SHWS	Lower	4284, 0.811, SSE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY..... Federal Facility Site Information listing
SEMS..... Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG..... RCRA - Large Quantity Generators
RCRA-SQG..... RCRA - Small Quantity Generators
RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System
US ENG CONTROLS..... Engineering Controls Sites List

EXECUTIVE SUMMARY

US INST CONTROL..... Sites with Institutional Controls

Federal ERNS list

ERNS..... Emergency Response Notification System

State and tribal leaking storage tank lists

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land
HIST LTANKS..... Listing of Leaking Storage Tanks

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing
CBS UST..... Chemical Bulk Storage Database
MOSF UST..... Major Oil Storage Facilities Database
MOSF..... Major Oil Storage Facility Site Listing
CBS..... Chemical Bulk Storage Site Listing
CBS AST..... Chemical Bulk Storage Database
MOSF AST..... Major Oil Storage Facilities Database
INDIAN UST..... Underground Storage Tanks on Indian Land
TANKS..... Storage Tank Facility Listing

State and tribal institutional control / engineering control registries

RES DECL..... Restrictive Declarations Listing
ENG CONTROLS..... Registry of Engineering Controls
INST CONTROL..... Registry of Institutional Controls

State and tribal voluntary cleanup sites

VCP..... Voluntary Cleanup Agreements
INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS..... Brownfields Site List
ERP..... Environmental Restoration Program Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

SWTIRE..... Registered Waste Tire Storage & Facility List
SWRCY..... Registered Recycling Facility List
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands
ODI..... Open Dump Inventory
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS..... Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL..... Delisted National Clandestine Laboratory Register

EXECUTIVE SUMMARY

DEL SHWS..... Delisted Registry Sites
US CDL..... National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

HIST UST..... Historical Petroleum Bulk Storage Database
HIST AST..... Historical Petroleum Bulk Storage Database

Local Land Records

LIENS..... Spill Liens Information
LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System
NY Hist Spills..... SPILLS Database
SPILLS 90..... SPILLS 90 data from FirstSearch
SPILLS 80..... SPILLS 80 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR..... RCRA - Non Generators / No Longer Regulated
FUDS..... Formerly Used Defense Sites
DOD..... Department of Defense Sites
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR..... Financial Assurance Information
EPA WATCH LIST..... EPA WATCH LIST
2020 COR ACTION..... 2020 Corrective Action Program List
TSCA..... Toxic Substances Control Act
TRIS..... Toxic Chemical Release Inventory System
SSTS..... Section 7 Tracking Systems
ROD..... Records Of Decision
RMP..... Risk Management Plans
RAATS..... RCRA Administrative Action Tracking System
PRP..... Potentially Responsible Parties
PADS..... PCB Activity Database System
ICIS..... Integrated Compliance Information System
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS..... Material Licensing Tracking System
COAL ASH DOE..... Steam-Electric Plant Operation Data
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER..... PCB Transformer Registration Database
RADINFO..... Radiation Information Database
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS..... Incident and Accident Data
CONSENT..... Superfund (CERCLA) Consent Decrees
INDIAN RESERV..... Indian Reservations
FUSRAP..... Formerly Utilized Sites Remedial Action Program
UMTRA..... Uranium Mill Tailings Sites
LEAD SMELTERS..... Lead Smelter Sites
US AIRS..... Aerometric Information Retrieval System Facility Subsystem
US MINES..... Mines Master Index File
ABANDONED MINES..... Abandoned Mines

EXECUTIVE SUMMARY

FINDS.....	Facility Index System/Facility Registry System
UXO.....	Unexploded Ordnance Sites
DOCKET HWC.....	Hazardous Waste Compliance Docket Listing
ECHO.....	Enforcement & Compliance History Information
FUELS PROGRAM.....	EPA Fuels Program Registered Listing
AIRS.....	Air Emissions Data
COAL ASH.....	Coal Ash Disposal Site Listing
DRYCLEANERS.....	Registered Drycleaners
E DESIGNATION.....	E DESIGNATION SITE LISTING
Financial Assurance.....	Financial Assurance Information Listing
HSWDS.....	Hazardous Substance Waste Disposal Site Inventory
MANIFEST.....	Facility and Manifest Data
SPDES.....	State Pollutant Discharge Elimination System
VAPOR REOPENED.....	Vapor Intrusion Legacy Site List
UIC.....	Underground Injection Control Wells

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP.....	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto.....	EDR Exclusive Historical Auto Stations
EDR Hist Cleaner.....	EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS.....	Recovered Government Archive State Hazardous Waste Facilities List
RGA LF.....	Recovered Government Archive Solid Waste Facilities List

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in *bold italics* are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

State- and tribal - equivalent CERCLIS

SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state

EXECUTIVE SUMMARY

funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environmental Conservation's Inactive Hazardous waste Disposal Sites in New York State.

A review of the SHWS list, as provided by EDR, and dated 05/14/2018 has revealed that there are 2 SHWS sites within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
OLD QUOGUE LANDFILL Site Code: 55838	OLD COUNTRY ROAD	SSW 1/2 - 1 (0.733 mi.)	8	20
CHARLES CARDO & SON, Site Code: 55862	MONTAUK HIGHWAY	SSE 1/2 - 1 (0.811 mi.)	9	22

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the list.

A review of the SWF/LF list, as provided by EDR, and dated 12/08/2017 has revealed that there is 1 SWF/LF site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
WINTERS QUOGUE TRANS	OLD COUNTRY RD. & MI	SSW 1/4 - 1/2 (0.360 mi.)	6	18

State and tribal leaking storage tank lists

LTANKS: Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills

A review of the LTANKS list, as provided by EDR, and dated 05/14/2018 has revealed that there is 1 LTANKS site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
QUOGUE SINCLAIR Date Closed: 1986-10-29 Site ID: 194462 Program Number: 8603753	47 WESTSIDE AVENUE	SE 1/4 - 1/2 (0.441 mi.)	7	19

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database

A review of the UST list, as provided by EDR, has revealed that there are 3 UST sites within

EXECUTIVE SUMMARY

approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
JOHN C GRIFFITH Database: SUFFOLK CO. UST, Date of Government Version: 03/03/2015 Site Ref#: 12900 Facility ID: 12900	34 SECOND NECK LN	E 0 - 1/8 (0.097 mi.)	A1	8
ATRIA COUNTRY CLUB R Database: SUFFOLK CO. UST, Date of Government Version: 03/03/2015 Site Ref#: 12616 Facility ID: 12616	1 SACHEM LA	WNW 0 - 1/8 (0.107 mi.)	3	10

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
EDWARD WRIGHT CESSPO Database: SUFFOLK CO. UST, Date of Government Version: 03/03/2015 Site Ref#: 12813 Facility ID: 12813	132 DEMASCES RD	NNE 0 - 1/8 (0.109 mi.)	4	12

AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database.

A review of the AST list, as provided by EDR, has revealed that there are 2 AST sites within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
EDWARD WRIGHT CESSPO Database: SUFFOLK CO. AST, Date of Government Version: 03/03/2015 Site Ref#: 12813 Facility Id: 12813	132 DEMASCES RD	NNE 0 - 1/8 (0.109 mi.)	4	12
FEDUN LANDSCAPING Database: SUFFOLK CO. AST, Date of Government Version: 03/03/2015 Site Ref#: 12927 Facility Id: 12927	146 OLD COUNTRY RD	SSE 1/8 - 1/4 (0.233 mi.)	5	16

ADDITIONAL ENVIRONMENTAL RECORDS

Records of Emergency Release Reports

NY Spills: Data collected on spills reported to NYSDEC. is required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

A review of the NY Spills list, as provided by EDR, and dated 05/14/2018 has revealed that there is 1 NY Spills site within approximately 0.125 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GRIFFITH RESIDENCE	34 SECOND NECK LANE	E 0 - 1/8 (0.097 mi.)	A2	9

EXECUTIVE SUMMARY

Date Closed: 1998-09-23
Spill Number: 9711779
Site ID: 86241

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 2 records.

Site Name

Database(s)

SUFFOLK AIRPORT C & D SITE
UNKNOWN

SHWS
LTANKS

OVERVIEW MAP - 5396704.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

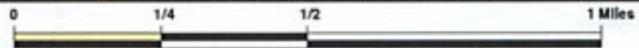
100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

Upgradient Area



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Damascus Road Landfill
 ADDRESS: End of Damascus Rd
 East Quogue NY 11942
 LAT/LONG: 40.847843 / 72.598239

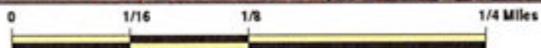
CLIENT: Wood Environment & Infrastructure Solutions, Inc.
 CONTACT: Jazmin Logan
 INQUIRY #: 5396704.2s
 DATE: August 16, 2018 4:45 pm

DETAIL MAP - 5396704.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites

- Indian Reservations BIA
- National Wetland Inventory
- State Wetlands



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Damascus Road Landfill
 ADDRESS: End of Damascus Rd
 East Quogue NY 11942
 LAT/LONG: 40.847843 / 72.598239

CLIENT: Wood Environment & Infrastructure Solutions, Inc.
 CONTACT: Jazmin Logan
 INQUIRY #: 5396704.2s
 DATE: August 16, 2018 4:47 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
<i>Federal NPL site list</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<i>Federal CERCLIS NFRAP site list</i>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
<i>Federal institutional controls / engineering controls registries</i>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	TP		NR	NR	NR	NR	NR	0
<i>State- and tribal - equivalent CERCLIS</i>								
SHWS	1.000		0	0	0	2	NR	2
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF	0.500		0	0	1	NR	NR	1
<i>State and tribal leaking storage tank lists</i>								
INDIAN LUST	0.500		0	0	0	NR	NR	0
LTANKS	0.500		0	0	1	NR	NR	1
HIST LTANKS	0.500		0	0	0	NR	NR	0
<i>State and tribal registered storage tank lists</i>								
FEMA UST	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UST	0.250		3	0	NR	NR	NR	3
CBS UST	0.250		0	0	NR	NR	NR	0
MOSF UST	0.500		0	0	0	NR	NR	0
MOSF	0.500		0	0	0	NR	NR	0
CBS	0.250		0	0	NR	NR	NR	0
AST	0.250		1	1	NR	NR	NR	2
CBS AST	0.250		0	0	NR	NR	NR	0
MOSF AST	0.500		0	0	0	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
TANKS	0.250		0	0	NR	NR	NR	0
<i>State and tribal institutional control / engineering control registries</i>								
RES DECL	0.125		0	NR	NR	NR	NR	0
ENG CONTROLS	0.500		0	0	0	NR	NR	0
INST CONTROL	0.500		0	0	0	NR	NR	0
<i>State and tribal voluntary cleanup sites</i>								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
<i>State and tribal Brownfields sites</i>								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ERP	0.500		0	0	0	NR	NR	0
<u>ADDITIONAL ENVIRONMENTAL RECORDS</u>								
<i>Local Brownfield lists</i>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<i>Local Lists of Landfill / Solid Waste Disposal Sites</i>								
SWTIRE	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
<i>Local Lists of Hazardous waste / Contaminated Sites</i>								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
DEL SHWS	1.000		0	0	0	0	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
<i>Local Lists of Registered Storage Tanks</i>								
HIST UST	0.250		0	0	NR	NR	NR	0
HIST AST	TP		NR	NR	NR	NR	NR	0
<i>Local Land Records</i>								
LIENS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
NY Spills	0.125		1	NR	NR	NR	NR	1
NY Hist Spills	0.125		0	NR	NR	NR	NR	0
SPILLS 90	0.125		0	NR	NR	NR	NR	0
SPILLS 80	0.125		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
E DESIGNATION	0.125		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Financial Assurance	TP		NR	NR	NR	NR	NR	0
HSWDS	0.500		0	0	0	NR	NR	0
MANIFEST	0.250		0	0	NR	NR	NR	0
SPDES	TP		NR	NR	NR	NR	NR	0
VAPOR REOPENED	0.500		0	0	0	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
<u>EDR HIGH RISK HISTORICAL RECORDS</u>								
<i>EDR Exclusive Records</i>								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
<u>EDR RECOVERED GOVERNMENT ARCHIVES</u>								
<i>Exclusive Recovered Govt. Archives</i>								
RGA HWS	TP		NR	NR	NR	NR	NR	0
RGA LF	TP		NR	NR	NR	NR	NR	0
- Totals --		0	5	1	2	2	0	10

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number
EPA ID Number

A1
East
< 1/8
0.097 mi.
512 ft.

JOHN C GRIFFITH
34 SECOND NECK LN
QUOGUE, NY 11959
Site 1 of 2 in cluster A

UST U004280632
N/A

Relative:
Higher
Actual:
48 ft.

SUFFOLK CO. UST:

Region: SUFFOLK
Site Ref#: 12900
Status: Not reported
Site Type: Not reported
Operating Permit Expires: Not reported
Owner/Storage Information: Not reported
Year: 2006

Facility Info:

Site Ref#: 12900
Billing Contact: TJ ENTERPRISES LLC
Billing Address: 1200 N FEDERAL HWY STE 411
Billing Address: BOCA RATON
Billing State: FL
Billing Zip: 34432
Storage Owner: TJ ENTERPRISES LLC
Storage Owner Address: 1200 N FEDERAL HWY STE 411
Storage Owner City: BOCA RATON
Storage Owner State: FL
Storage Owner Zip: 34432

Tank Info:

Facility ID: 12900
Facility Reference #: Not reported
Official Use: Removed Tank. 98
Township: Not reported
Tax Map No: Not reported
Region: SUFFOLK
Permit to Operate: Not reported

Tank ID: 1
Tank Key: 35789
Installed: 81
Capacity: 1000
Substance: #2 FUEL OIL
Date Removed: 1/1/2067
Construction: STEEL
Dispenser: SUCTION
Fill Type: PUMPED
Tank Location: UNDER
Tank Status: Not reported
Total Capacity: 1000
Date Permitted: Not reported
Date Closed: Not reported
Internal Protection: Not reported
Secondary Containment: Not reported
Extrenal Protection: Not reported
Leak Detection: Not reported
Overfill Prevention: Not reported
Spill Prevention: Not reported
Pipe Location: Not reported
Pipe Type: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JOHN C GRIFFITH (Continued)

U004280632

Pipe External Protection: Not reported
Pipe Containment: Not reported
Pipe Leak Detection: Not reported
Date Next Tank Test: Not reported
Fill: PUMPED
Date Removed: 1/1/2067
Year Installed: 81
Description of drop records: Not reported

Tank ID: 2
Tank Key: 35790
Installed: 82
Capacity: 1000
Substance: #2 FUEL OIL
Date Removed: 1/1/2067
Construction: STEEL
Dispenser: SUCTION
Fill Type: PUMPED
Tank Location: UNDER
Tank Status: Not reported
Total Capacity: 1000
Date Permitted: Not reported
Date Closed: Not reported
Internal Protection: Not reported
Secondary Containment: Not reported
External Protection: Not reported
Leak Detection: Not reported
Overfill Prevention: Not reported
Spill Prevention: Not reported
Pipe Location: Not reported
Pipe Type: Not reported
Pipe External Protection: Not reported
Pipe Containment: Not reported
Pipe Leak Detection: Not reported
Date Next Tank Test: Not reported
Fill: PUMPED
Date Removed: 1/1/2067
Year Installed: 82
Description of drop records: Not reported

A2
East
< 1/8
0.097 mi.
512 ft.
Site 2 of 2 in cluster A

GRIFFITH RESIDENCE
34 SECOND NECK LANE
QUOGUE, NY

NY Spills S118462305
N/A

Relative:
Higher
Actual:
48 ft.

SPILLS:
Facility ID: 9711779
Facility Type: ER
Spill Number: 9711779
DER Facility ID: 79154
Site ID: 86241
DEC Region: 1
Closed Date: 1998-09-23
Spill Cause: Other
Spill Class: B3

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GRIFFITH RESIDENCE (Continued)

S118462305

SWIS: 5236
Spill Date: 1998-01-20
Investigator: BMFORD
Referred To: Not reported
Reported to Dept: 1998-01-21
CID: 322
Water Affected: Not reported
Spill Source: Private Dwelling
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: True
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 1998-01-21
Spill Record Last Update: 2016-02-11
Spiller Name: PENNIMANS POINT LIMITED
Spiller Company: GRIFFITH RESIDENCE
Spiller Address: 4034 SECOND NECK LANE
Spiller Company: 001
Contact Name: PENNIMANS POINT LIMITED
DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was FORD "
Remarks: "tank leaking - facility number -9-0288 - oil tank was being removed - during removal it was discovered that tank was leaking "

All Materials:
Site ID: 86241
Operable Unit ID: 1058187
Operable Unit: 01
Material ID: 326423
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: G
Recovered: .00
Oxygenate: Not reported

3
WNW
< 1/8
0.107 mi.
567 ft.

ATRIA COUNTRY CLUB RESIDENCE
1 SACHEM LA
EAST QUOGUE, NY 11942

UST U003842773
N/A

Relative:
Higher
Actual:
54 ft.

SUFFOLK CO. UST:
Region: SUFFOLK
Site Ref#: 12616
Status: Not reported
Site Type: Not reported
Operating Permit Expires: Not reported
Owner/Storage Information: Not reported
Year: 2006

Facility Info:
Site Ref#: 12616

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ATRIA COUNTRY CLUB RESIDENCE (Continued)

U003842773

Billing Contact: Not reported
Billing Address: Not reported
Billing Address: Not reported
Billing State: Not reported
Billing Zip: Not reported
Storage Owner: HAMPTON PINES INC
Storage Owner Address: 144 DAMASCUS RD
Storage Owner City: EAST QUOGUE
Storage Owner State: NY
Storage Owner Zip: 11942

Tank Info:

Facility ID: 12616
Facility Reference #: Not reported
Official Use: Never Installed
Township: Not reported
Tax Map No: Not reported
Region: SUFFOLK
Permit to Operate: Not reported

Tank ID: 1
Tank Key: 34400
Installed: 88
Capacity: 10000
Substance: #2 FUEL OIL
Date Removed: Not reported
Construction: FRP / FRP
Dispenser: SUCTION
Fill Type: GRAVITY
Tank Location: UNDER
Tank Status: Not reported
Total Capacity: 10000
Date Permitted: Not reported
Date Closed: Not reported
Internal Protection: Not reported
Secondary Containment: Not reported
Extrenal Protection: Not reported
Leak Detection: Not reported
Overfill Prevention: Not reported
Spill Prevention: Not reported
Pipe Location: Not reported
Pipe Type: Not reported
Pipe External Protection: Not reported
Pipe Containment: Not reported
Pipe Leak Detection: Not reported
Date Next Tank Test: Not reported
Fill: GRAVITY
Date Removed: Not reported
Year Installed: 88
Description of drop records: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number
EPA ID Number

4 EDWARD WRIGHT CESSPOOL (SECT 288)
NNE 132 DEMASCES RD
< 1/8 EAST QUOGUE, NY 11942
0.109 mi.
573 ft.

UST U003844524
AST N/A

Relative:
Lower
Actual:
46 ft.

SUFFOLK CO. UST:
Region: SUFFOLK
Site Ref#: 12813
Status: Not reported
Site Type: Not reported
Operating Permit Expires: Not reported
Owner/Storage Information: Not reported
Year: 2006

Facility Info:
Site Ref#: 12813
Billing Contact: Not reported
Billing Address: Not reported
Billing Address: Not reported
Billing State: Not reported
Billing Zip: Not reported
Storage Owner: EDWARD WRIGHT CESSPOOL SERVICE
Storage Owner Address: LEWIS RD
Storage Owner City: EAST QUOGUE
Storage Owner State: NY
Storage Owner Zip: 11942

Tank Info:
Facility ID: 12813
Facility Reference #: Not reported
Official Use: Removed Tank. 86
Township: Not reported
Tax Map No: Not reported
Region: SUFFOLK
Permit to Operate: Not reported

Tank ID: 1
Tank Key: 35506
Installed: 64
Capacity: 550
Substance: GASOLINE
Date Removed: 11/20/1927
Construction: STEEL
Dispenser: SUCTION
Fill Type: GRAVITY
Tank Location: UNDER
Tank Status: Not reported
Total Capacity: 550
Date Permitted: Not reported
Date Closed: Not reported
Internal Protection: Not reported
Secondary Containment: Not reported
Extrenal Protection: Not reported
Leak Detection: Not reported
Overfill Prevention: Not reported
Spill Prevention: Not reported
Pipe Location: Not reported
Pipe Type: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

EDWARD WRIGHT CESSPOOL (SECT 288) (Continued)

U003844524

Pipe External Protection: Not reported
Pipe Containment: Not reported
Pipe Leak Detection: Not reported
Date Next Tank Test: Not reported
Fill: GRAVITY
Date Removed: 11/20/1927
Year Installed: 64
Description of drop records: Not reported

Tank ID: 2
Tank Key: 35507
Installed: 79
Capacity: 1000
Substance: DIESEL
Date Removed: 3/1/2207
Construction: STEEL
Dispenser: SUCTION
Fill Type: PUMPED
Tank Location: UNDER
Tank Status: Not reported
Total Capacity: 1000
Date Permitted: Not reported
Date Closed: Not reported
Internal Protection: Not reported
Secondary Containment: Not reported
External Protection: Not reported
Leak Detection: Not reported
Overfill Prevention: Not reported
Spill Prevention: Not reported
Pipe Location: Not reported
Pipe Type: Not reported
Pipe External Protection: Not reported
Pipe Containment: Not reported
Pipe Leak Detection: Not reported
Date Next Tank Test: Not reported
Fill: PUMPED
Date Removed: 3/1/2207
Year Installed: 79
Description of drop records: Not reported

AST_SUFFOLK:
Region: SUFFOLK
Site Ref#: 12813
Status: Not reported
Site Type: Not reported
Operating Permit Expires: Not reported
Owner/Storage Information: Not reported
Year: 2006

Facility Info:
Site Ref#: 12813
Billing Contact: Not reported
Billing Address: Not reported
Billing Address: Not reported
Billing State: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number
EPA ID Number

EDWARD WRIGHT CESSPOOL (SECT 288) (Continued)

U003844524

Billing Zip: Not reported
Storage Owner: EDWARD WRIGHT CESSPOOL SERVICE
Storage Owner Address: LEWIS RD
Storage Owner City: EAST QUOGUE
Storage Owner State: NY
Storage Owner Zip: 11942

Tank Info:

Facility ID: 12813
Facility Reference #: Not reported
Township: Not reported
Tax Map No: Not reported
Region: SUFFOLK

Tank ID: 3
Tank Key: 35508
Year Installed: 79
Substance: WASTE OIL
Construction: STEEL
Dispenser: SUCTION
Official Use: Removed Tank. 90
Permit to Operate: Not reported
Tank Location: ABOVE
Tank Status: Not reported
Total Capacity: 275
Date Permitted: Not reported
Date Closed: Not reported
Internal Protection: Not reported
Secondary Containment: Not reported
Extrenal Protection: Not reported
Leak Detection: Not reported
Overfill Prevention: Not reported
Spill Prevention: Not reported
Pipe Location: Not reported
Pipe Type: Not reported
Pipe External Protection: Not reported
Pipe Containment: Not reported
Pipe Leak Detection: Not reported
Date Next Tank Test: Not reported
Fill: GRAVITY
Date Removed: 3/1/2207

Tank ID: 4
Tank Key: 35509
Year Installed: Not reported
Substance: WASTE OIL
Construction: STEEL / STEEL
Dispenser: Not reported
Official Use: Removed Tank. 00
Permit to Operate: 12/29/2233
Tank Location: ABOVE
Tank Status: Not reported
Total Capacity: 275
Date Permitted: Not reported
Date Closed: Not reported
Internal Protection: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

EDWARD WRIGHT CESSPOOL (SECT 288) (Continued)

U003844524

Secondary Containment: Not reported
Extrenal Protection: Not reported
Leak Detection: Not reported
Overfill Prevention: Not reported
Spill Prevention: Not reported
Pipe Location: Not reported
Pipe Type: Not reported
Pipe External Protection: Not reported
Pipe Containment: Not reported
Pipe Leak Detection: Not reported
Date Next Tank Test: Not reported
Fill: Not reported
Date Removed: 6/6/2175

Tank ID: 5
Tank Key: 35510
Year Installed: Not reported
Substance: DIESEL
Construction: STEEL / STEEL
Dispenser: Not reported
Official Use: Removed Tank. 00
Permit to Operate: 12/29/2233
Tank Location: ABOVE
Tabk Status: Not reported
Total Capacity: 1000
Date Permitted: Not reported
Date Closed: Not reported
Internal Protection: Not reported
Secondary Containment: Not reported
Extrenal Protection: Not reported
Leak Detection: Not reported
Overfill Prevention: Not reported
Spill Prevention: Not reported
Pipe Location: Not reported
Pipe Type: Not reported
Pipe External Protection: Not reported
Pipe Containment: Not reported
Pipe Leak Detection: Not reported
Date Next Tank Test: Not reported
Fill: Not reported
Date Removed: 6/6/2175

Tank ID: 6
Tank Key: 42060
Year Installed: Not reported
Substance: #2 FUEL OIL
Construction: STEEL
Dispenser: Not reported
Official Use: Exempt from Suffolk County Art 12 Regulation
Permit to Operate: Not reported
Tank Location: ABOVE
Tabk Status: Not reported
Total Capacity: 275
Date Permitted: Not reported
Date Closed: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

EDWARD WRIGHT CESSPOOL (SECT 288) (Continued)

U003844524

Internal Protection: Not reported
Secondary Containment: Not reported
Extrenal Protection: Not reported
Leak Detection: Not reported
Overfill Prevention: Not reported
Spill Prevention: Not reported
Pipe Location: Not reported
Pipe Type: Not reported
Pipe External Protection: Not reported
Pipe Containment: Not reported
Pipe Leak Detection: Not reported
Date Next Tank Test: Not reported
Fill: Not reported
Date Removed: Not reported

5
SSE
1/8-1/4
0.233 mi.
1230 ft.

FEDUN LANDSCAPING
146 OLD COUNTRY RD
EAST QUOGUE, NY 11942

AST A100142283
N/A

Relative:
Lower
Actual:
32 ft.

AST_SUFFOLK:
Region: SUFFOLK
Site Ref#: 12927
Status: Not reported
Site Type: Not reported
Operating Permit Expires: Not reported
Owner/Storage Information: Not reported
Year: 2006

Facility Info:
Site Ref#: 12927
Billing Contact: Not reported
Billing Address: Not reported
Billing Address: Not reported
Billing State: Not reported
Billing Zip: Not reported
Storage Owner: FEDUN LANDSCAPING
Storage Owner Address: 146 OLD COUNTRY RD
Storage Owner City: EAST QUOGUE
Storage Owner State: NY
Storage Owner Zip: 11942

Tank Info:
Facility ID: 12927
Facility Reference #: Not reported
Township: Not reported
Tax Map No: Not reported
Region: SUFFOLK

Tank ID: 1
Tank Key: 35888
Year Installed: 88
Substance: #2 FUEL OIL
Construction: STEEL
Dispenser: SUCTION
Official Use: Never Installed

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FEDUN LANDSCAPING (Continued)

A100142283

Permit to Operate: Not reported
Tank Location: ABOVE
Tank Status: Not reported
Total Capacity: 275
Date Permitted: Not reported
Date Closed: Not reported
Internal Protection: Not reported
Secondary Containment: Not reported
Extrenal Protection: Not reported
Leak Detection: Not reported
Overfill Prevention: Not reported
Spill Prevention: Not reported
Pipe Location: Not reported
Pipe Type: Not reported
Pipe External Protection: Not reported
Pipe Containment: Not reported
Pipe Leak Detection: Not reported
Date Next Tank Test: Not reported
Fill: PUMPED
Date Removed: Not reported

Tank ID: 2
Tank Key: 35889
Year Installed: 88
Substance: #2 FUEL OIL
Construction: STEEL
Dispenser: SUCTION
Official Use: Never Installed
Permit to Operate: Not reported
Tank Location: ABOVE
Tank Status: Not reported
Total Capacity: 275
Date Permitted: Not reported
Date Closed: Not reported
Internal Protection: Not reported
Secondary Containment: Not reported
Extrenal Protection: Not reported
Leak Detection: Not reported
Overfill Prevention: Not reported
Spill Prevention: Not reported
Pipe Location: Not reported
Pipe Type: Not reported
Pipe External Protection: Not reported
Pipe Containment: Not reported
Pipe Leak Detection: Not reported
Date Next Tank Test: Not reported
Fill: PUMPED
Date Removed: Not reported

Tank ID: 3
Tank Key: 35890
Year Installed: Not reported
Substance: GASOLINE
Construction: Not reported
Dispenser: SUCTION

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number
EPA ID Number

FEDUN LANDSCAPING (Continued)

A100142283

Official Use: Never Installed
Permit to Operate: Not reported
Tank Location: ABOVE
Tank Status: Not reported
Total Capacity: 500
Date Permitted: Not reported
Date Closed: Not reported
Internal Protection: Not reported
Secondary Containment: Not reported
Extrenal Protection: Not reported
Leak Detection: Not reported
Overfill Prevention: Not reported
Spill Prevention: Not reported
Pipe Location: Not reported
Pipe Type: Not reported
Pipe External Protection: Not reported
Pipe Containment: Not reported
Pipe Leak Detection: Not reported
Date Next Tank Test: Not reported
Fill: GRAVITY
Date Removed: Not reported

6
SSW
1/4-1/2
0.360 mi.
1902 ft.

WINTERS QUOGUE TRANSFER STATION
OLD COUNTRY RD. & MIDHAMPTON AVE.
QUOGUE, NY 11959

SWF/LF S108930618
N/A

Relative:
Lower

SWF/LF:

Actual:
43 ft.

Flag: INACTIVE
Region Code: 1
Phone Number: 5163013552
Owner Name: Winters Brothers Waste Systems; Inc.
Owner Type: Private
Owner Address: 1198 Prospect Avenue
Owner Addr2: Not reported
Owner City,St,Zip: Westbury, NY 11590
Owner Email: Not reported
Owner Phone: 5169370900
Contact Name: Peter M. Casserly
Contact Address: Old Country Road
Contact Addr2: Not reported
Contact City,St,Zip: Quogue, NY 11959
Contact Email: pcasserly@iesi.com
Contact Phone: 5163013552
Activity Desc: C&D processing - permit
Activity Number: [52M15]
Active: No
East Coordinate: 702300
North Coordinate: 4523800
Accuracy Code: 4.3 - Utilization of Digital Orthophoto Quads
Regulatory Status: Permit
Waste Type: Construction & Demolition Debris
Authorization #: 1-4736-00166/00004
Authorization Date: Not reported
Expiration Date: Not reported
Operator Name: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

WINTERS QUOGUE TRANSFER STATION (Continued)

S108930618

Operator Type: Not reported
 Last Date: Not reported

7
SE
1/4-1/2
0.441 mi.
2328 ft.

QUOGUE SINCLAIR
47 WESTSIDE AVENUE
EAST QUOGUE, NY

LTANKS S102660448
N/A

Relative:
Lower
Actual:
31 ft.

LTANKS:

Facility ID: 8603753
 Site ID: 194462
 Closed Date: 1986-10-29
 Spill Number: 8603753
 Spill Date: 1986-09-08
 Spill Cause: Tank Failure
 Spill Source: Gasoline Station or other PBS Facility
 Spill Class: Not reported
 Cleanup Ceased: 1986-10-29
 SWIS: 5236
 Investigator: CXONEILL
 Referred To: Not reported
 Reported to Dept: 1986-09-08
 CID: Not reported
 Water Affected: Not reported
 Spill Notifier: Tank Tester
 Last Inspection: Not reported
 Recommended Penalty: False
 Meets Standard: True
 UST Involvement: False
 Remediation Phase: 0
 Date Entered In Computer: 1986-09-20
 Spill Record Last Update: 2007-02-20
 Spiller Name: Not reported
 Spiller Company: QUOGUE SINCLAIR
 Spiller Address: 132 WEST MONTAUK HIGHWAY
 Spiller County: 001
 Spiller Contact: Not reported
 Spiller Phone: Not reported
 Spiller Extention: Not reported
 DEC Region: 1
 DER Facility ID: 162059
 DEC Memo: "Prior to Sept, 2004 data translation this spill Lead_DEC Field was O'NEILL FD // : 3OPTION LETTER TO BE SENT. // : 3 OPT LET.PASSED RETEST 9/23/86 AFTER ELIMINATING AIR POCKET IN MANWAY & REPLACING MANWAY GASKET. FILE HAS BEEN DESTROYED ACCORDING TO STATE ARCHIVE AND RECORD ADMINISTRATOR RETENTION/DISPOSAL PROCEDURES"

Remarks: "-.348GPH"

All Materials:

Site ID: 194462
 Operable Unit ID: 900637
 Operable Unit: 01
 Material ID: 476566
 Material Code: 0066A
 Material Name: unknown petroleum
 Case No.: Not reported
 Material FA: Petroleum

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

QUOGUE SINCLAIR (Continued)

S102660448

Quantity: .00
 Units: G
 Recovered: .00
 Oxygenate: Not reported

8
 SSW
 1/2-1
 0.733 mi.
 3871 ft.

**OLD QUOGUE LANDFILL
 OLD COUNTRY ROAD
 QUOGUE, NY 11959**

**SHWS S105972383
 HSWDS N/A**

Relative:
 Lower
 Actual:
 35 ft.

SHWS:
 Program: HW
 Site Code: 55838
 Classification: N
 Region: 1
 Acres: 2
 HW Code: 152050
 Record Add: 11/18/1999
 Record Upd: 08/22/2005
 Updated By: EMZUK

Site Description: This two acre municipal landfill is located on a sixteen acre lot. The landfill was used from the 1930's until 1973. The site is presently used for occasional dumping of leaves and brush. Waste dumped in the landfill came almost entirely from businesses and residents within the boundaries of the Village of Quogue. No indication of hazardous waste disposal has ever been found at this site.

Env Problem: No hazardous wastes were found at this site.
 Health Problem: Not reported
 Dump: Not reported
 Structure: Not reported
 Lagoon: Not reported
 Landfill: Not reported
 Pond: Not reported
 Disp Start: Not reported
 Disp Term: Not reported
 Lat/Long: Not reported
 Dell: Not reported
 Record Add: Not reported
 Record Upd: Not reported
 Updated By: Not reported
 Own Op: Owner
 Sub Type: C01
 Owner Name: Not reported
 Owner Company: VILLAGE OF QUOGUE
 Owner Address: JESUP AVE.
 Owner Addr2: Not reported
 Owner City,St,Zip: QUOGUE, NY 11959
 Owner Country: United States of America
 Own Op: Disp. Owner
 Sub Type: NNN
 Owner Name: Not reported
 Owner Company: VILLAGE OF QUOGUE
 Owner Address: Not reported
 Owner Addr2: Not reported
 Owner City,St,Zip: ZZ

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

OLD QUOGUE LANDFILL (Continued)

S105972383

Owner Country: United States of America
Own Op: Owner
Sub Type: NNN
Owner Name: Not reported
Owner Company: Village of Quogue
Owner Address: Jesup Avenue
Owner Addr2: Not reported
Owner City,St,Zip: Quogue, NY 11959
Owner Country: United States of America
HW Code: Not reported
Waste Type: Not reported
Waste Quantity: Not reported
Waste Code: Not reported
Crossref ID: Not reported
Cross Ref Type Code: Not reported
Cross Ref Type: Not reported
Record Added Date: Not reported
Record Updated: Not reported
Updated By: Not reported

HSWDS:

Facility ID: Not reported
Region: 1
Facility Status: M
Owner Type: Municipal
Owner: Village of Quogue
Owner Address: Jessup Avenue
Owner Phone: (516)653-4498
Operator Type: Same
Operator: Unknown
Operator: Unknown
Operator Phone: Unknown
EPA ID: NYD981184146
Registry: D
Registry Site ID: 152050
RCRA Permitted: Unknown
Site Code: Municipal Landfill
Owner City State: Quogue
Operator City State: Not reported
Quadrangle: Quogue & Eastport
Latitude: 40 50 12 N
Longitude: 72 36 21 W
Acres: 2.00
Operator Date: 1930
Close Date: 1973
Completed: Phase 1
Active: No
PCB's Disposed: No
Pesticides Disposed: No
Metals Disposed: No
Asbestos Disposed: No
Volatile Organic Compounds Disposed: No
Semi Volatile Organic Compounds Disposed: No
Analytical Info Exists for Air: Not reported
Analytical Info Exists for Ground: None
Analytical Info Exists for Surface: Not reported
Analytical Info Exists for Sediments: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number
 EPA ID Number

OLD QUOGUE LANDFILL (Continued)

S105972383

Analytical Info Exists for Surface:	Not reported
Analytical Info Exists for Substance:	Not reported
Analytical Info Exists for Waste:	Not reported
Analytical Info Exists for Leachate:	Not reported
Analytical Info Exists for EP Toxicity:	Not reported
Analytical Info Exists for TCLP:	Not reported
Threat to Environment/Public Health:	Unknown
Surface Water Contamination:	Unknown
Surface Water Body Class:	Unknown
Groundwater Contamination:	Unknown
Groundwater Classification:	Unknown
Drinking Water Contamination:	Unknown
Drinking Water Supply is Active:	Unknown
Any Known Fish or Wildlife:	M
Hazardous Exposure:	No
Site Has Controlled Access:	Yes
Ambient Air Contamination:	No
Direct Contact:	No
EPA Hazardous Ranking System Score:	Unknown
Inventory:	F
Nefrap:	Not reported
Mailing:	Not reported
Tax Map No:	Not reported
Qualify:	0
Next Action:	Not reported
Agencies:	Not reported
Air:	Not reported
Building:	Not reported
Site Desc:	Not reported
Drink:	Not reported
Eptox:	Not reported
Fish:	Not reported
Ground:	Not reported
Ground Desc:	Not reported
Hazardous Threat:	Not reported
Haz Threat Desc:	Not reported
Leachate:	Not reported
Preparer:	Not reported
Sediment:	Not reported
Soil:	Not reported
Surface:	Not reported
Status:	Not reported
Surface Soil:	Not reported
Surface:	Not reported
TCLP:	Not reported
Waste:	Not reported

9
 SSE
 1/2-1
 0.811 mi.
 4284 ft.

CHARLES CARDO & SON, INC.
MONTAUK HIGHWAY
QUOGUE, NY 11959

SHWS S105972415
N/A

Relative:
Lower
Actual:
17 ft.

SHWS:
 Program: HW
 Site Code: 55862
 Classification: N
 Region: 1

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHARLES CARDO & SON, INC. (Continued)

S105972415

Acres: 3
HW Code: 152088
Record Add: 11/18/1999
Record Upd: 08/22/2005
Updated By: EMZUK
Site Description: This is a three acre site located on Old Country Road, Quogue. The excavated area is approximately 1/2 full with construction and demolition debris. The Phase II investigation found that the debris consisted of soil, brush, tree stumps, trees, brick, wood, concrete, and glass from the owner's landscaping business. No evidence of hazardous waste was found nor is hazardous waste disposal suspected.
Env Problem: The Phase II investigation found no significant environmental contamination.
Health Problem: Not reported
Dump: Not reported
Structure: Not reported
Lagoon: Not reported
Landfill: Not reported
Pond: Not reported
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: Not reported
Dell: Not reported
Record Add: Not reported
Record Upd: Not reported
Updated By: Not reported
Own Op: Owner
Sub Type: E
Owner Name: Not reported
Owner Company: Charles Cardo
Owner Address: Lamb Avenue
Owner Addr2: Not reported
Owner City,St,Zip: Quogue, NY 11959
Owner Country: United States of America
Own Op: Disp. Owner
Sub Type: NNN
Owner Name: Not reported
Owner Company: CHARLES CARDO
Owner Address: Not reported
Owner Addr2: Not reported
Owner City,St,Zip: ZZ
Owner Country: United States of America
Own Op: On-Site Operator
Sub Type: NNN
Owner Name: Not reported
Owner Company: Charles Cardo
Owner Address: Lamb Avenue
Owner Addr2: Not reported
Owner City,St,Zip: Quogue, NY 11959
Owner Country: United States of America
Own Op: Owner
Sub Type: E
Owner Name: Not reported
Owner Company: Charles E. Cardo
Owner Address: LAMB AVENUE
Owner Addr2: Not reported
Owner City,St,Zip: QUOGUE, NY 11959

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number
EPA ID Number

CHARLES CARDO & SON, INC. (Continued)

S105972415

Owner Country: United States of America
Own Op: On-Site Operator
Sub Type: E
Owner Name: Not reported
Owner Company: CHARLES CARDO
Owner Address: LAMB AVE.
Owner Addr2: Not reported
Owner City,St,Zip: QUOGUE, NY 11959
Owner Country: United States of America
HW Code: Not reported
Waste Type: Not reported
Waste Quantity: Not reported
Waste Code: Not reported
Crossref ID: Not reported
Cross Ref Type Code: Not reported
Cross Ref Type: Not reported
Record Added Date: Not reported
Record Updated: Not reported
Updated By: Not reported

Count: 2 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
EAST QUOGUE	S102668805	UNKNOWN	WEST SIDE AVENUE		LTANKS
WESTHAMPTON	S113917128	SUFFOLK AIRPORT C & D SITE	SUFFOLK AIRPORT C & D SITE	11978	SHWS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 05/13/2018	Source: EPA
Date Data Arrived at EDR: 05/30/2018	Telephone: N/A
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 08/09/2018
Number of Days to Update: 23	Next Scheduled EDR Contact: 10/15/2018
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 05/13/2018	Source: EPA
Date Data Arrived at EDR: 05/30/2018	Telephone: N/A
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 08/09/2018
Number of Days to Update: 23	Next Scheduled EDR Contact: 10/15/2018
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 05/13/2018
Date Data Arrived at EDR: 05/30/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 23

Source: EPA
Telephone: N/A
Last EDR Contact: 08/09/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 92

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 07/06/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly known as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 05/18/2018
Date Data Arrived at EDR: 05/30/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 23

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 08/09/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 05/18/2018	Source: EPA
Date Data Arrived at EDR: 05/30/2018	Telephone: 800-424-9346
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 08/09/2018
Number of Days to Update: 23	Next Scheduled EDR Contact: 10/29/2018
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/01/2018	Source: EPA
Date Data Arrived at EDR: 03/28/2018	Telephone: 800-424-9346
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 06/28/2018
Number of Days to Update: 86	Next Scheduled EDR Contact: 10/08/2018
	Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/01/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/28/2018	Telephone: (212) 637-3660
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 06/28/2018
Number of Days to Update: 86	Next Scheduled EDR Contact: 10/08/2018
	Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/28/2018	Telephone: (212) 637-3660
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 06/28/2018
Number of Days to Update: 86	Next Scheduled EDR Contact: 10/08/2018
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/01/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/28/2018	Telephone: (212) 637-3660
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 06/28/2018
Number of Days to Update: 86	Next Scheduled EDR Contact: 10/08/2018
	Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/28/2018	Telephone: (212) 637-3660
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 06/28/2018
Number of Days to Update: 86	Next Scheduled EDR Contact: 10/08/2018
	Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/14/2018	Source: Department of the Navy
Date Data Arrived at EDR: 05/18/2018	Telephone: 843-820-7326
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/16/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/26/2018
	Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 02/13/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/27/2018	Telephone: 703-603-0695
Date Made Active in Reports: 05/11/2018	Last EDR Contact: 05/29/2018
Number of Days to Update: 73	Next Scheduled EDR Contact: 09/10/2018
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 02/13/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/27/2018	Telephone: 703-603-0695
Date Made Active in Reports: 05/11/2018	Last EDR Contact: 05/29/2018
Number of Days to Update: 73	Next Scheduled EDR Contact: 09/10/2018
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/19/2018
Date Data Arrived at EDR: 03/27/2018
Date Made Active in Reports: 06/08/2018
Number of Days to Update: 73

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/27/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

SHWS: Inactive Hazardous Waste Disposal Sites in New York State

Referred to as the State Superfund Program, the Inactive Hazardous Waste Disposal Site Remedial Program is the cleanup program for inactive hazardous waste sites and now includes hazardous substance sites

Date of Government Version: 05/14/2018
Date Data Arrived at EDR: 05/16/2018
Date Made Active in Reports: 06/05/2018
Number of Days to Update: 20

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 08/10/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Annually

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Facility Register

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 12/08/2017
Date Data Arrived at EDR: 01/02/2018
Date Made Active in Reports: 01/31/2018
Number of Days to Update: 29

Source: Department of Environmental Conservation
Telephone: 518-457-2051
Last EDR Contact: 07/06/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/12/2018 Source: EPA, Region 5
Date Data Arrived at EDR: 05/18/2018 Telephone: 312-886-7439
Date Made Active in Reports: 07/20/2018 Last EDR Contact: 07/27/2018
Number of Days to Update: 63 Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/13/2018 Source: EPA Region 1
Date Data Arrived at EDR: 05/18/2018 Telephone: 617-918-1313
Date Made Active in Reports: 07/20/2018 Last EDR Contact: 07/27/2018
Number of Days to Update: 63 Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/10/2018 Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/18/2018 Telephone: 415-972-3372
Date Made Active in Reports: 07/20/2018 Last EDR Contact: 07/27/2018
Number of Days to Update: 63 Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/25/2018 Source: EPA Region 8
Date Data Arrived at EDR: 05/18/2018 Telephone: 303-312-6271
Date Made Active in Reports: 07/20/2018 Last EDR Contact: 07/27/2018
Number of Days to Update: 63 Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/24/2018 Source: EPA Region 7
Date Data Arrived at EDR: 05/18/2018 Telephone: 913-551-7003
Date Made Active in Reports: 07/20/2018 Last EDR Contact: 07/27/2018
Number of Days to Update: 63 Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/01/2018 Source: EPA Region 6
Date Data Arrived at EDR: 05/18/2018 Telephone: 214-665-6597
Date Made Active in Reports: 07/20/2018 Last EDR Contact: 07/27/2018
Number of Days to Update: 63 Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

LTANKS: Spills Information Database

Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills.

Date of Government Version: 05/14/2018 Source: Department of Environmental Conservation
Date Data Arrived at EDR: 05/16/2018 Telephone: 518-402-9549
Date Made Active in Reports: 06/12/2018 Last EDR Contact: 08/10/2018
Number of Days to Update: 27 Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HIST LTANKS: Listing of Leaking Storage Tanks

A listing of leaking underground and aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills. In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY LTANKS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 07/08/2005
Date Made Active in Reports: 07/14/2005
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/07/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017
Date Data Arrived at EDR: 05/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 136

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 07/11/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Varies

UST: Petroleum Bulk Storage (PBS) Database

Facilities that have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons.

Date of Government Version: 06/25/2018
Date Data Arrived at EDR: 06/28/2018
Date Made Active in Reports: 08/07/2018
Number of Days to Update: 40

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 06/28/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: No Update Planned

CBS UST: Chemical Bulk Storage Database

Facilities that store regulated hazardous substances in underground tanks of any size

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 10/24/2005
Next Scheduled EDR Contact: 01/23/2006
Data Release Frequency: No Update Planned

MOSF UST: Major Oil Storage Facilities Database

Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

CBS: Chemical Bulk Storage Site Listing

These facilities store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size

Date of Government Version: 06/25/2018
Date Data Arrived at EDR: 06/28/2018
Date Made Active in Reports: 08/07/2018
Number of Days to Update: 40

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 06/28/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

MOSF: Major Oil Storage Facility Site Listing

These facilities may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 06/25/2018
Date Data Arrived at EDR: 06/28/2018
Date Made Active in Reports: 08/07/2018
Number of Days to Update: 40

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 06/28/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Quarterly

AST: Petroleum Bulk Storage

Registered Aboveground Storage Tanks.

Date of Government Version: 06/25/2018
Date Data Arrived at EDR: 06/28/2018
Date Made Active in Reports: 08/07/2018
Number of Days to Update: 40

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 06/28/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: No Update Planned

CBS AST: Chemical Bulk Storage Database

Facilities that store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

MOSF AST: Major Oil Storage Facilities Database

Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/10/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/25/2018	Source: EPA Region 8
Date Data Arrived at EDR: 05/18/2018	Telephone: 303-312-6137
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/24/2018	Source: EPA Region 7
Date Data Arrived at EDR: 05/18/2018	Telephone: 913-551-7003
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 05/08/2018	Source: EPA Region 4
Date Data Arrived at EDR: 05/18/2018	Telephone: 404-562-9424
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/12/2018	Source: EPA Region 10
Date Data Arrived at EDR: 05/18/2018	Telephone: 206-553-2857
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/01/2018	Source: EPA Region 6
Date Data Arrived at EDR: 05/18/2018	Telephone: 214-665-7591
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/12/2018	Source: EPA Region 5
Date Data Arrived at EDR: 05/18/2018	Telephone: 312-886-6136
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

TANKS: Storage Tank Facility Listing

This database contains records of facilities that are or have been regulated under Bulk Storage Program. Tank information for these facilities may not be releasable by the state agency.

Date of Government Version: 06/25/2018	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 06/28/2018	Telephone: 518-402-9543
Date Made Active in Reports: 08/07/2018	Last EDR Contact: 06/28/2018
Number of Days to Update: 40	Next Scheduled EDR Contact: 10/08/2018
	Data Release Frequency: Quarterly

State and tribal institutional control / engineering control registries

RES DECL: Restrictive Declarations Listing

A restrictive declaration is a covenant running with the land which binds the present and future owners of the property. As a condition of certain special permits, the City Planning Commission may require an applicant to sign and record a restrictive declaration that places specified conditions on the future use and development of the property. Certain restrictive declarations are indicated by a D on zoning maps.

Date of Government Version: 11/18/2010	Source: NYC Department of City Planning
Date Data Arrived at EDR: 06/30/2014	Telephone: 212-720-3401
Date Made Active in Reports: 07/21/2014	Last EDR Contact: 06/22/2018
Number of Days to Update: 21	Next Scheduled EDR Contact: 10/01/2018
	Data Release Frequency: Varies

ENV RES DECL: Environmental Restrictive Declarations

The Environmental Restrictive Declarations (ERD) listed were recorded in connection with a zoning action against the noted Tax Blocks and Tax Lots, or portion thereof, and are available in the property records on file at the Office of the City Register for Bronx, Kings, New York and Queens counties or at the Richmond County Clerk's office. They contain environmental requirements with respect to hazardous materials, air quality and/or noise in accordance with Section 11-15 of this Resolution.

Date of Government Version: 05/15/2018	Source: New York City Department of City Planning
Date Data Arrived at EDR: 06/26/2018	Telephone: 212-720-3300
Date Made Active in Reports: 08/07/2018	Last EDR Contact: 06/18/2018
Number of Days to Update: 42	Next Scheduled EDR Contact: 10/01/2018
	Data Release Frequency: Varies

ENG CONTROLS: Registry of Engineering Controls

Environmental Remediation sites that have engineering controls in place.

Date of Government Version: 05/14/2018	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 05/16/2018	Telephone: 518-402-9553
Date Made Active in Reports: 06/05/2018	Last EDR Contact: 08/10/2018
Number of Days to Update: 20	Next Scheduled EDR Contact: 11/26/2018
	Data Release Frequency: Quarterly

INST CONTROL: Registry of Institutional Controls

Environmental Remediation sites that have institutional controls in place.

Date of Government Version: 05/14/2018	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 05/16/2018	Telephone: 518-402-9553
Date Made Active in Reports: 06/05/2018	Last EDR Contact: 08/10/2018
Number of Days to Update: 20	Next Scheduled EDR Contact: 11/26/2018
	Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 06/22/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Agreements

New York established its Voluntary Cleanup Program (VCP) to address the environmental, legal and financial barriers that often hinder the redevelopment and reuse of contaminated properties. The Voluntary Cleanup Program was developed to enhance private sector cleanup of brownfields by enabling parties to remediate sites using private rather than public funds and to reduce the development pressures on "greenfield" sites.

Date of Government Version: 05/14/2018
Date Data Arrived at EDR: 05/16/2018
Date Made Active in Reports: 06/05/2018
Number of Days to Update: 20

Source: Department of Environmental Conservation
Telephone: 518-402-9711
Last EDR Contact: 08/10/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Semi-Annually

VCP NYC: Voluntary Cleanup Program Listing NYC

New York City voluntary cleanup program sites.

Date of Government Version: 03/26/2018
Date Data Arrived at EDR: 03/29/2018
Date Made Active in Reports: 05/14/2018
Number of Days to Update: 46

Source: New York City Office of Environmental Protection
Telephone: 212-788-8841
Last EDR Contact: 06/15/2018
Next Scheduled EDR Contact: 10/01/2018
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Site List

A Brownfield is any real property where redevelopment or re-use may be complicated by the presence or potential presence of a hazardous waste, petroleum, pollutant, or contaminant.

Date of Government Version: 05/14/2018
Date Data Arrived at EDR: 05/16/2018
Date Made Active in Reports: 06/05/2018
Number of Days to Update: 20

Source: Department of Environmental Conservation
Telephone: 518-402-9764
Last EDR Contact: 08/10/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Semi-Annually

ERP: Environmental Restoration Program Listing

In an effort to spur the cleanup and redevelopment of brownfields, New Yorkers approved a \$200 million Environmental Restoration or Brownfields Fund as part of the \$1.75 billion Clean Water/Clean Air Bond Act of 1996 (1996 Bond Act). Enhancements to the program were enacted on October 7, 2003. Under the Environmental Restoration Program, the State provides grants to municipalities to reimburse up to 90 percent of on-site eligible costs and 100% of off-site eligible costs for site investigation and remediation activities. Once remediated, the property may then be reused for commercial, industrial, residential or public use.

Date of Government Version: 05/14/2018
Date Data Arrived at EDR: 05/16/2018
Date Made Active in Reports: 06/05/2018
Number of Days to Update: 20

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 08/10/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/19/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2018	Telephone: 202-566-2777
Date Made Active in Reports: 06/08/2018	Last EDR Contact: 06/20/2018
Number of Days to Update: 79	Next Scheduled EDR Contact: 10/01/2018
	Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Registered Recycling Facility List

A listing of recycling facilities.

Date of Government Version: 12/08/2017	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 01/02/2018	Telephone: 518-402-8705
Date Made Active in Reports: 01/31/2018	Last EDR Contact: 07/06/2018
Number of Days to Update: 29	Next Scheduled EDR Contact: 10/15/2018
	Data Release Frequency: Quarterly

SWTIRE: Registered Waste Tire Storage & Facility List

A listing of facilities registered to accept waste tires.

Date of Government Version: 02/27/2018	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 04/06/2018	Telephone: 518-402-8694
Date Made Active in Reports: 06/08/2018	Last EDR Contact: 06/07/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 09/24/2018
	Data Release Frequency: No Update Planned

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 07/30/2018
Number of Days to Update: 52	Next Scheduled EDR Contact: 11/12/2018
	Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/17/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Services, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 08/03/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 02/22/2018
Date Data Arrived at EDR: 03/01/2018
Date Made Active in Reports: 05/11/2018
Number of Days to Update: 71

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/30/2018
Next Scheduled EDR Contact: 09/10/2018
Data Release Frequency: No Update Planned

DEL SHWS: Delisted Registry Sites

A database listing of sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites.

Date of Government Version: 05/14/2018
Date Data Arrived at EDR: 05/16/2018
Date Made Active in Reports: 06/08/2018
Number of Days to Update: 23

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 08/10/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/22/2018
Date Data Arrived at EDR: 03/01/2018
Date Made Active in Reports: 05/11/2018
Number of Days to Update: 71

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/30/2018
Next Scheduled EDR Contact: 09/10/2018
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

HIST UST: Historical Petroleum Bulk Storage Database

These facilities have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. It is no longer updated due to the sensitive nature of the information involved. See UST for more current data.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 06/02/2006
Date Made Active in Reports: 07/20/2006
Number of Days to Update: 48

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HIST AST: Historical Petroleum Bulk Storage Database

These facilities have petroleum storage capabilities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. No longer updated due to the sensitive nature of the information involved. See AST for more current data.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 06/02/2006
Date Made Active in Reports: 07/20/2006
Number of Days to Update: 48

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Spill Liens Information

Lien information from the Oil Spill Fund.

Date of Government Version: 05/07/2018
Date Data Arrived at EDR: 05/09/2018
Date Made Active in Reports: 06/05/2018
Number of Days to Update: 27

Source: Office of the State Comptroller
Telephone: 518-474-9034
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Quarterly

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 05/13/2018
Date Data Arrived at EDR: 05/30/2018
Date Made Active in Reports: 06/29/2018
Number of Days to Update: 30

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 08/09/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/26/2018
Date Data Arrived at EDR: 03/27/2018
Date Made Active in Reports: 06/08/2018
Number of Days to Update: 73

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/27/2018
Next Scheduled EDR Contact: 07/09/2018
Data Release Frequency: Quarterly

SPILLS: Spills Information Database

Data collected on spills reported to NYSDEC as required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

Date of Government Version: 05/14/2018
Date Data Arrived at EDR: 05/16/2018
Date Made Active in Reports: 06/12/2018
Number of Days to Update: 27

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 08/10/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Varies

HIST SPILLS: SPILLS Database

This database contains records of chemical and petroleum spill incidents. Under State law, petroleum and hazardous chemical spills that can impact the waters of the state must be reported by the spiller (and, in some cases, by anyone who has knowledge of the spills). In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY SPILLS database. Department of Environmental Conservation.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 07/08/2005
Date Made Active in Reports: 07/14/2005
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/07/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 12/14/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/12/2013
Number of Days to Update: 40

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SPILLS 80: SPILLS80 data from FirstSearch

Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 11/02/2010
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/07/2013
Number of Days to Update: 63

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 06/28/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 05/25/2018
Next Scheduled EDR Contact: 09/03/2018
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/11/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005	Source: U.S. Geological Survey
Date Data Arrived at EDR: 02/06/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 07/13/2018
Number of Days to Update: 339	Next Scheduled EDR Contact: 10/22/2018
	Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/03/2017	Telephone: 615-532-8599
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 05/15/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 08/27/2018
	Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/01/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2018	Telephone: 202-566-1917
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 06/27/2018
Number of Days to Update: 87	Next Scheduled EDR Contact: 10/08/2018
	Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2014	Telephone: 617-520-3000
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 08/03/2018
Number of Days to Update: 88	Next Scheduled EDR Contact: 11/19/2018
	Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/08/2018	Telephone: 703-308-4044
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 08/10/2018
Number of Days to Update: 73	Next Scheduled EDR Contact: 11/19/2018
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016	Source: EPA
Date Data Arrived at EDR: 06/21/2017	Telephone: 202-260-5521
Date Made Active in Reports: 01/05/2018	Last EDR Contact: 06/22/2018
Number of Days to Update: 198	Next Scheduled EDR Contact: 10/01/2018
	Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016	Source: EPA
Date Data Arrived at EDR: 01/10/2018	Telephone: 202-566-0250
Date Made Active in Reports: 01/12/2018	Last EDR Contact: 05/25/2018
Number of Days to Update: 2	Next Scheduled EDR Contact: 09/03/2018
	Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009	Source: EPA
Date Data Arrived at EDR: 12/10/2010	Telephone: 202-564-4203
Date Made Active in Reports: 02/25/2011	Last EDR Contact: 07/27/2018
Number of Days to Update: 77	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 05/13/2018	Source: EPA
Date Data Arrived at EDR: 05/30/2018	Telephone: 703-416-0223
Date Made Active in Reports: 06/29/2018	Last EDR Contact: 08/09/2018
Number of Days to Update: 30	Next Scheduled EDR Contact: 10/15/2018
	Data Release Frequency: Annually

RMP: Risk Management Plans

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 11/02/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/17/2017	Telephone: 202-564-8600
Date Made Active in Reports: 12/08/2017	Last EDR Contact: 07/20/2018
Number of Days to Update: 21	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 10/17/2014	Telephone: 202-564-6023
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 08/09/2018
Number of Days to Update: 3	Next Scheduled EDR Contact: 11/19/2018
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 06/01/2017	Source: EPA
Date Data Arrived at EDR: 06/09/2017	Telephone: 202-566-0500
Date Made Active in Reports: 10/13/2017	Last EDR Contact: 07/13/2018
Number of Days to Update: 126	Next Scheduled EDR Contact: 10/22/2018
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 07/09/2018
Number of Days to Update: 79	Next Scheduled EDR Contact: 10/22/2018
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 07/23/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 06/07/2018
Next Scheduled EDR Contact: 09/17/2018
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 06/04/2018
Next Scheduled EDR Contact: 09/17/2018
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017
Date Data Arrived at EDR: 11/30/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/03/2018
Date Data Arrived at EDR: 04/05/2018
Date Made Active in Reports: 06/29/2018
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 07/05/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 08/09/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 03/31/2018
Date Data Arrived at EDR: 04/16/2018
Date Made Active in Reports: 06/29/2018
Number of Days to Update: 74

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 07/09/2018
Next Scheduled EDR Contact: 10/01/2018
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/28/2018
Next Scheduled EDR Contact: 09/03/2018
Data Release Frequency: Biennially

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014	Source: USGS
Date Data Arrived at EDR: 07/14/2015	Telephone: 202-208-3710
Date Made Active in Reports: 01/10/2017	Last EDR Contact: 07/11/2018
Number of Days to Update: 546	Next Scheduled EDR Contact: 10/22/2018
	Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 12/23/2016	Source: Department of Energy
Date Data Arrived at EDR: 12/27/2016	Telephone: 202-586-3559
Date Made Active in Reports: 02/17/2017	Last EDR Contact: 08/01/2018
Number of Days to Update: 52	Next Scheduled EDR Contact: 11/19/2018
	Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 06/23/2017	Source: Department of Energy
Date Data Arrived at EDR: 10/11/2017	Telephone: 505-845-0011
Date Made Active in Reports: 11/03/2017	Last EDR Contact: 05/18/2018
Number of Days to Update: 23	Next Scheduled EDR Contact: 09/03/2018
	Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 05/13/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/30/2018	Telephone: 703-603-8787
Date Made Active in Reports: 06/29/2018	Last EDR Contact: 08/09/2018
Number of Days to Update: 30	Next Scheduled EDR Contact: 10/15/2018
	Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001	Source: American Journal of Public Health
Date Data Arrived at EDR: 10/27/2010	Telephone: 703-305-6451
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 12/02/2009
Number of Days to Update: 36	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/03/2018
Date Data Arrived at EDR: 05/31/2018
Date Made Active in Reports: 06/29/2018
Number of Days to Update: 29

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/31/2018
Next Scheduled EDR Contact: 09/10/2018
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/30/2018
Next Scheduled EDR Contact: 09/10/2018
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/30/2018
Next Scheduled EDR Contact: 09/10/2018
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/08/2018
Date Data Arrived at EDR: 03/13/2018
Date Made Active in Reports: 06/08/2018
Number of Days to Update: 87

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 06/20/2018
Next Scheduled EDR Contact: 09/24/2018
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/21/2018	Source: EPA
Date Data Arrived at EDR: 02/23/2018	Telephone: (212) 637-3000
Date Made Active in Reports: 03/23/2018	Last EDR Contact: 06/06/2018
Number of Days to Update: 28	Next Scheduled EDR Contact: 09/17/2018
	Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 09/30/2016	Source: Department of Defense
Date Data Arrived at EDR: 10/31/2017	Telephone: 703-704-1564
Date Made Active in Reports: 01/12/2018	Last EDR Contact: 07/13/2018
Number of Days to Update: 73	Next Scheduled EDR Contact: 10/29/2018
	Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 01/04/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/19/2018	Telephone: 202-564-0527
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 06/01/2018
Number of Days to Update: 84	Next Scheduled EDR Contact: 09/10/2018
	Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 02/25/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/17/2018	Telephone: 202-564-2280
Date Made Active in Reports: 06/08/2018	Last EDR Contact: 06/06/2018
Number of Days to Update: 83	Next Scheduled EDR Contact: 09/17/2018
	Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/20/2018	Source: EPA
Date Data Arrived at EDR: 02/21/2018	Telephone: 800-385-6164
Date Made Active in Reports: 03/23/2018	Last EDR Contact: 05/23/2018
Number of Days to Update: 30	Next Scheduled EDR Contact: 09/03/2018
	Data Release Frequency: Quarterly

AIRS: Air Emissions Data

Point source emissions inventory data.

Date of Government Version: 07/23/2018	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 07/23/2018	Telephone: 518-402-8452
Date Made Active in Reports: 08/07/2018	Last EDR Contact: 07/12/2018
Number of Days to Update: 15	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH: Coal Ash Disposal Site Listing

A listing of coal ash disposal site locations.

Date of Government Version: 06/29/2018
Date Data Arrived at EDR: 07/03/2018
Date Made Active in Reports: 08/07/2018
Number of Days to Update: 35

Source: Department of Environmental Conservation
Telephone: 518-402-8660
Last EDR Contact: 06/28/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Quarterly

DRYCLEANERS: Registered Drycleaners

A listing of all registered drycleaning facilities.

Date of Government Version: 03/07/2018
Date Data Arrived at EDR: 03/30/2018
Date Made Active in Reports: 06/05/2018
Number of Days to Update: 67

Source: Department of Environmental Conservation
Telephone: 518-402-8403
Last EDR Contact: 06/07/2018
Next Scheduled EDR Contact: 09/24/2018
Data Release Frequency: Annually

E DESIGNATION: E DESIGNATION SITE LISTING

The (E (Environmental)) designation would ensure that sampling and remediation take place on the subject properties, and would avoid any significant impacts related to hazardous materials at these locations. The (E) designations would require that the fee owner of the sites conduct a testing and sampling protocol, and remediation where appropriate, to the satisfaction of the NYCDEP before the issuance of a building permit by the Department of Buildings pursuant to the provisions of Section 11-15 of the Zoning Resolution (Environmental Requirements). The (E) designations also include a mandatory construction-related health and safety plan which must be approved by NYCDEP.

Date of Government Version: 06/06/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 06/29/2018
Number of Days to Update: 3

Source: New York City Department of City Planning
Telephone: 718-595-6658
Last EDR Contact: 06/18/2018
Next Scheduled EDR Contact: 10/01/2018
Data Release Frequency: Semi-Annually

Financial Assurance 1: Financial Assurance Information Listing

Financial assurance information.

Date of Government Version: 12/01/2017
Date Data Arrived at EDR: 01/02/2018
Date Made Active in Reports: 01/31/2018
Number of Days to Update: 29

Source: Department of Environmental Conservation
Telephone: 518-402-8660
Last EDR Contact: 06/28/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Quarterly

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for hazardous waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 12/29/2017
Date Data Arrived at EDR: 04/06/2018
Date Made Active in Reports: 06/05/2018
Number of Days to Update: 60

Source: Department of Environmental Conservation
Telephone: 518-402-8712
Last EDR Contact: 06/07/2018
Next Scheduled EDR Contact: 09/24/2018
Data Release Frequency: Varies

HSWDS: Hazardous Substance Waste Disposal Site Inventory

The list includes any known or suspected hazardous substance waste disposal sites. Also included are sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites and non-Registry sites that U.S. EPA Preliminary Assessment (PA) reports or Site Investigation (SI) reports were prepared. Hazardous Substance Waste Disposal Sites are eligible to be Superfund sites now that the New York State Superfund has been refinanced and changed. This means that the study inventory has served its purpose and will no longer be maintained as a separate entity. The last version of the study inventory is frozen in time. The sites on the study will not automatically be made Superfund sites, rather each site will be further evaluated for listing on the Registry. So overtime they will be added to the registry or not.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/01/2003
Date Data Arrived at EDR: 10/20/2006
Date Made Active in Reports: 11/30/2006
Number of Days to Update: 41

Source: Department of Environmental Conservation
Telephone: 518-402-9564
Last EDR Contact: 05/26/2009
Next Scheduled EDR Contact: 08/24/2009
Data Release Frequency: No Update Planned

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 04/30/2018
Date Data Arrived at EDR: 05/03/2018
Date Made Active in Reports: 06/07/2018
Number of Days to Update: 35

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Quarterly

SPDES: State Pollutant Discharge Elimination System

New York State has a state program which has been approved by the United States Environmental Protection Agency for the control of wastewater and stormwater discharges in accordance with the Clean Water Act. Under New York State law the program is known as the State Pollutant Discharge Elimination System (SPDES) and is broader in scope than that required by the Clean Water Act in that it controls point source discharges to groundwaters as well as surface waters.

Date of Government Version: 07/18/2018
Date Data Arrived at EDR: 07/31/2018
Date Made Active in Reports: 08/07/2018
Number of Days to Update: 7

Source: Department of Environmental Conservation
Telephone: 518-402-8233
Last EDR Contact: 07/18/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: No Update Planned

VAPOR REOPENED: Vapor Intrusion Legacy Site List

New York is currently re-evaluating previous assumptions and decisions regarding the potential for soil vapor intrusion exposures at sites. As a result, all past, current, and future contaminated sites will be evaluated to determine whether these sites have the potential for exposures related to soil vapor intrusion.

Date of Government Version: 01/01/2018
Date Data Arrived at EDR: 02/15/2018
Date Made Active in Reports: 03/27/2018
Number of Days to Update: 40

Source: Department of Environmental Conservation
Telephone: 518-402-9814
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/27/2018
Data Release Frequency: Varies

UIC: Underground Injection Control Wells

A listing of enhanced oil recovery underground injection wells.

Date of Government Version: 06/04/2018
Date Data Arrived at EDR: 06/07/2018
Date Made Active in Reports: 06/29/2018
Number of Days to Update: 22

Source: Department of Environmental Conservation
Telephone: 518-402-8056
Last EDR Contact: 06/07/2018
Next Scheduled EDR Contact: 09/17/2018
Data Release Frequency: Quarterly

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGH HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Conservation in New York.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: Department of Environmental Conservation
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGH LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Conservation in New York.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/10/2014
Number of Days to Update: 193

Source: Department of Environmental Conservation
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COUNTY RECORDS

CORTLAND COUNTY:

AST - CORTLAND: Cortland County Storage Tank Listing

A listing of aboveground storage tank sites located in Cortland County.

Date of Government Version: 03/29/2018	Source: Cortland County Health Department
Date Data Arrived at EDR: 05/22/2018	Telephone: 607-753-5035
Date Made Active in Reports: 06/29/2018	Last EDR Contact: 07/30/2018
Number of Days to Update: 38	Next Scheduled EDR Contact: 11/12/2018
	Data Release Frequency: Quarterly

UST - CORTLAND: Cortland County Storage Tank Listing

A listing of underground storage tank sites located in Cortland County.

Date of Government Version: 03/29/2018	Source: Cortland County Health Department
Date Data Arrived at EDR: 05/22/2018	Telephone: 607-753-5035
Date Made Active in Reports: 06/29/2018	Last EDR Contact: 07/30/2018
Number of Days to Update: 38	Next Scheduled EDR Contact: 11/12/2018
	Data Release Frequency: Quarterly

NASSAU COUNTY:

AST - NASSAU: Registered Tank Database

A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 01/09/2017	Source: Nassau County Health Department
Date Data Arrived at EDR: 01/11/2017	Telephone: 516-571-3314
Date Made Active in Reports: 02/15/2017	Last EDR Contact: 07/30/2018
Number of Days to Update: 35	Next Scheduled EDR Contact: 11/12/2018
	Data Release Frequency: No Update Planned

AST NCFM: Storage Tank Database

A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 02/15/2011	Source: Nassau County Office of the Fire Marshal
Date Data Arrived at EDR: 02/23/2011	Telephone: 516-572-1000
Date Made Active in Reports: 03/29/2011	Last EDR Contact: 07/25/2018
Number of Days to Update: 34	Next Scheduled EDR Contact: 11/12/2018
	Data Release Frequency: Varies

TANKS NASSAU: Registered Tank Database in Nassau County

A listing of facilities in Nassau County with storage tanks.

Date of Government Version: 01/09/2017	Source: Nassau County Department of Health
Date Data Arrived at EDR: 01/11/2017	Telephone: 516-227-9691
Date Made Active in Reports: 02/15/2017	Last EDR Contact: 07/30/2018
Number of Days to Update: 35	Next Scheduled EDR Contact: 11/12/2018
	Data Release Frequency: Varies

UST - NASSAU: Registered Tank Database

A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 01/09/2017	Source: Nassau County Health Department
Date Data Arrived at EDR: 01/11/2017	Telephone: 516-571-3314
Date Made Active in Reports: 02/15/2017	Last EDR Contact: 07/30/2018
Number of Days to Update: 35	Next Scheduled EDR Contact: 11/12/2018
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST NCFM: Storage Tank Database

A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 02/15/2011	Source: Nassau County Office of the Fire Marshal
Date Data Arrived at EDR: 02/23/2011	Telephone: 516-572-1000
Date Made Active in Reports: 03/29/2011	Last EDR Contact: 07/25/2018
Number of Days to Update: 34	Next Scheduled EDR Contact: 11/12/2018
	Data Release Frequency: Varies

ROCKLAND COUNTY:

AST - ROCKLAND: Petroleum Bulk Storage Database

A listing of aboveground storage tank sites located in Rockland County.

Date of Government Version: 02/02/2017	Source: Rockland County Health Department
Date Data Arrived at EDR: 03/17/2017	Telephone: 914-364-2605
Date Made Active in Reports: 09/22/2017	Last EDR Contact: 06/01/2018
Number of Days to Update: 189	Next Scheduled EDR Contact: 09/17/2018
	Data Release Frequency: Quarterly

UST - ROCKLAND: Petroleum Bulk Storage Database

A listing of underground storage tank sites located in Rockland County.

Date of Government Version: 02/02/2017	Source: Rockland County Health Department
Date Data Arrived at EDR: 03/17/2017	Telephone: 914-364-2605
Date Made Active in Reports: 09/22/2017	Last EDR Contact: 06/01/2018
Number of Days to Update: 189	Next Scheduled EDR Contact: 09/17/2018
	Data Release Frequency: Quarterly

SUFFOLK COUNTY:

AST - SUFFOLK: Storage Tank Database

A listing of aboveground storage tank sites located in Suffolk County.

Date of Government Version: 03/03/2015	Source: Suffolk County Department of Health Services
Date Data Arrived at EDR: 03/10/2015	Telephone: 631-854-2521
Date Made Active in Reports: 03/23/2015	Last EDR Contact: 07/30/2018
Number of Days to Update: 13	Next Scheduled EDR Contact: 11/12/2018
	Data Release Frequency: No Update Planned

UST - SUFFOLK: Storage Tank Database

A listing of underground storage tank sites located in Suffolk County.

Date of Government Version: 03/03/2015	Source: Suffolk County Department of Health Services
Date Data Arrived at EDR: 03/10/2015	Telephone: 631-854-2521
Date Made Active in Reports: 03/23/2015	Last EDR Contact: 07/30/2018
Number of Days to Update: 13	Next Scheduled EDR Contact: 11/12/2018
	Data Release Frequency: No Update Planned

WESTCHESTER COUNTY:

AST - WESTCHESTER: Listing of Storage Tanks

A listing of aboveground storage tank sites located in Westchester County.

Date of Government Version: 04/26/2018	Source: Westchester County Department of Health
Date Data Arrived at EDR: 05/11/2018	Telephone: 914-813-5161
Date Made Active in Reports: 06/05/2018	Last EDR Contact: 07/30/2018
Number of Days to Update: 25	Next Scheduled EDR Contact: 11/12/2018
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST - WESTCHESTER: Listing of Storage Tanks

A listing of underground storage tank sites located in Westchester County.

Date of Government Version: 04/26/2018
Date Data Arrived at EDR: 05/11/2018
Date Made Active in Reports: 06/05/2018
Number of Days to Update: 25

Source: Westchester County Department of Health
Telephone: 914-813-5161
Last EDR Contact: 07/30/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Semi-Annually

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 01/03/2018
Date Data Arrived at EDR: 02/14/2018
Date Made Active in Reports: 03/22/2018
Number of Days to Update: 36

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 08/09/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 07/13/2018
Date Made Active in Reports: 08/01/2018
Number of Days to Update: 19

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 07/13/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 07/25/2017
Date Made Active in Reports: 09/25/2017
Number of Days to Update: 62

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/12/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 02/23/2018
Date Made Active in Reports: 04/09/2018
Number of Days to Update: 45

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/21/2018
Next Scheduled EDR Contact: 09/03/2018
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data

Hazardous waste manifest information.

Date of Government Version: 05/16/2018
Date Data Arrived at EDR: 05/23/2018
Date Made Active in Reports: 07/03/2018
Number of Days to Update: 41

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 07/16/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/15/2018
Date Made Active in Reports: 07/09/2018
Number of Days to Update: 24

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/11/2018
Next Scheduled EDR Contact: 09/24/2018
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data

Source: PennWell Corporation
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health
Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Day Care Providers

Source: Department of Health
Telephone: 212-676-2444

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Freshwater Wetlands
Source: Department of Environmental Conservation
Telephone: 518-402-8961

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

DAMASCUS ROAD LANDFILL
END OF DAMASCUS RD
EAST QUOGUE, NY 11942

TARGET PROPERTY COORDINATES

Latitude (North):	40.847843 - 40° 50' 52.23"
Longitude (West):	72.598239 - 72° 35' 53.66"
Universal Transverse Mercator:	Zone 18
UTM X (Meters):	702469.7
UTM Y (Meters):	4524431.0
Elevation:	48 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5939561 QUOGUE, NY
Version Date:	2013

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

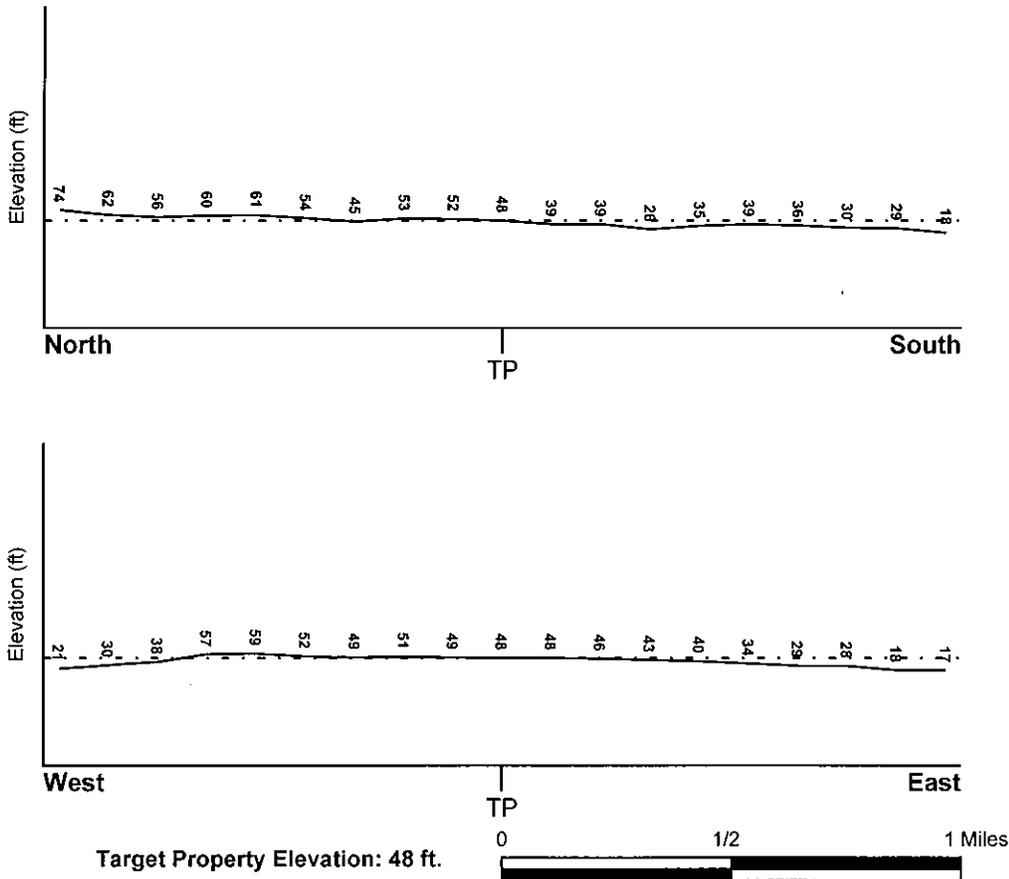
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SSE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
36103C0776G	FEMA Q3 Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
36103C0777H	FEMA FIRM Flood data
36103C0778G	FEMA Q3 Flood data
36103C0778H	FEMA FIRM Flood data
36103C0779H	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic</u>
QUOGUE	<u>Data Coverage</u>
	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:
 Search Radius: 1.25 miles
 Status: Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

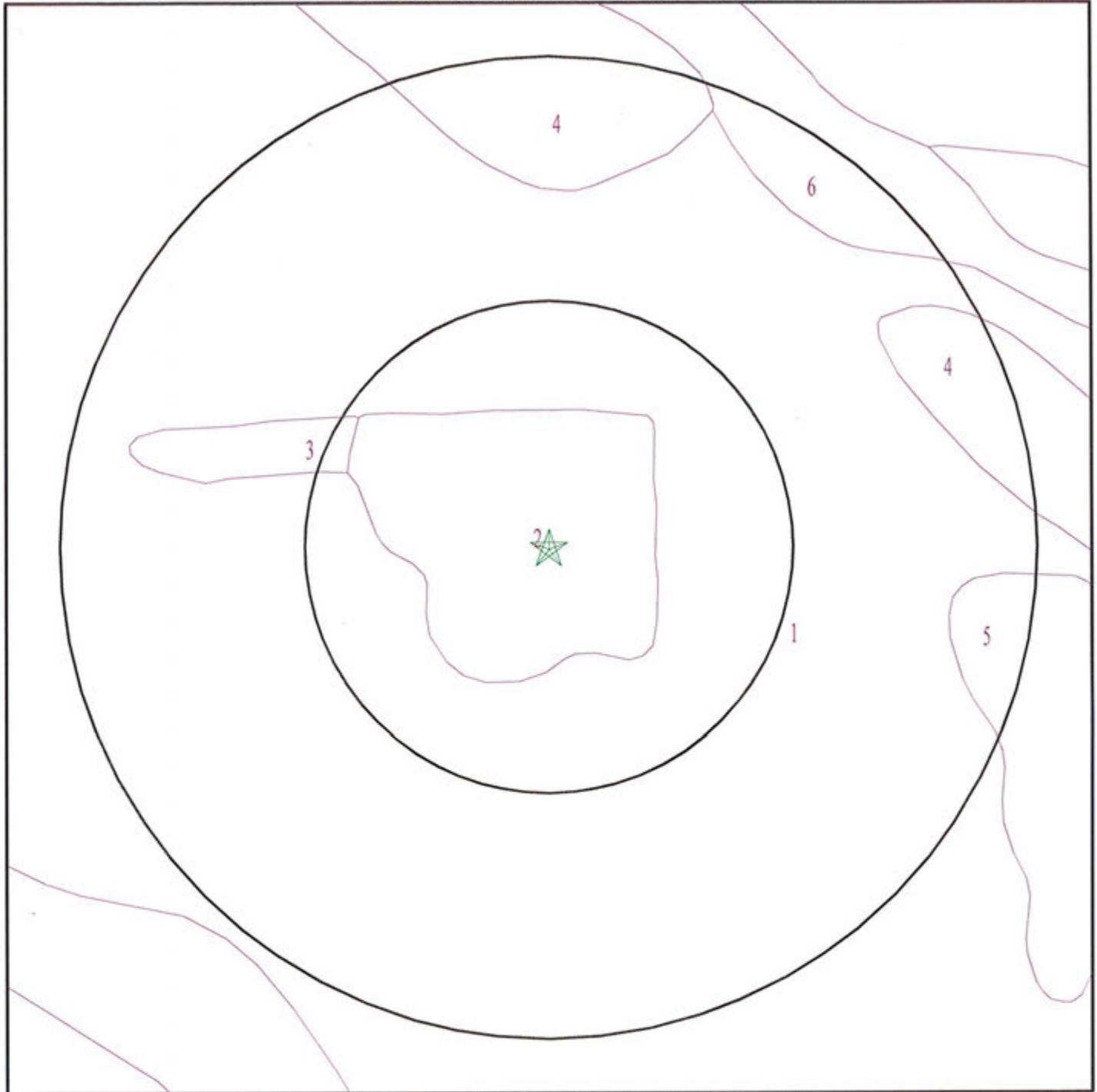
Era: Cenozoic
System: Quaternary
Series: Pleistocene
Code: Qp *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 5396704.2s



- ★ Target Property
- ∕ SSURGO Soil
- ∕ Water



SITE NAME: Damascus Road Landfill
ADDRESS: End of Damascus Rd
East Quogue NY 11942
LAT/LONG: 40.847843 / 72.598239

CLIENT: Wood Environment & Infrastructure Solutions, Inc.
CONTACT: Jazmin Logan
INQUIRY #: 5396704.2s
DATE: August 16, 2018 4:48 pm

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Plymouth

Soil Surface Texture: loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	3 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand.	Max: 141 Min: 141	Max: 5.5 Min: 3.6
2	3 inches	27 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand.	Max: 141 Min: 141	Max: 5.5 Min: 3.6
3	27 inches	59 inches	gravelly coarse sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand.	Max: 141 Min: 141	Max: 5.5 Min: 3.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 2

Soil Component Name: Made land

Soil Surface Texture: loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 137 inches

No Layer Information available.

Soil Map ID: 3

Soil Component Name: Cut and fill land

Soil Surface Texture: loamy sand

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 153 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 4

Soil Component Name: Riverhead

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 141	Max: 5.5 Min: 4.5
2	11 inches	27 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 141	Max: 5.5 Min: 4.5
3	27 inches	35 inches	gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 141	Max: 5.5 Min: 4.5
4	35 inches	64 inches	stratified coarse sand to gravelly sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 141	Max: 5.5 Min: 4.5

Soil Map ID: 5

Soil Component Name: Gravel pits

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class:

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 6

Soil Component Name: Plymouth

Soil Surface Texture: sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	3 inches	sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand.	Max: 141 Min: 141	Max: 5.5 Min: 3.6
2	3 inches	27 inches	sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand.	Max: 141 Min: 141	Max: 5.5 Min: 3.6
3	27 inches	59 inches	gravelly coarse sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand.	Max: 141 Min: 141	Max: 5.5 Min: 3.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	USGS40000834446	1/4 - 1/2 Mile East
2	USGS40000834271	1/2 - 1 Mile South
A7	USGS40000834685	1/2 - 1 Mile NNE
A8	USGS40000834683	1/2 - 1 Mile NNE
A9	USGS40000834684	1/2 - 1 Mile NNE
10	USGS40000834317	1/2 - 1 Mile SE
11	USGS40000834754	1/2 - 1 Mile NNE
12	USGS40000834606	1/2 - 1 Mile NW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

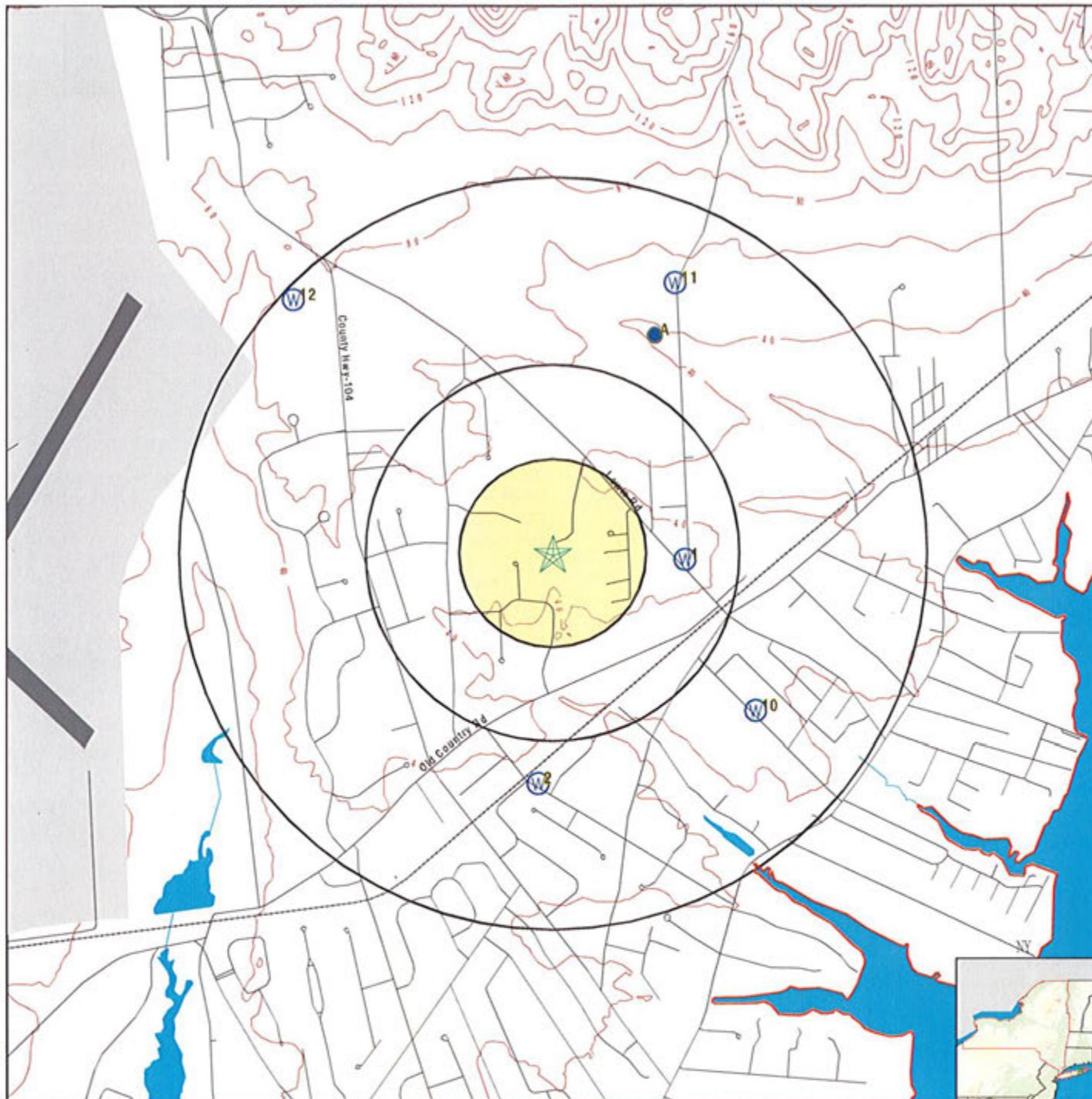
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A3	NYWS005871	1/2 - 1 Mile NNE
A4	NYWS005872	1/2 - 1 Mile NNE
A5	NYWS005869	1/2 - 1 Mile NNE
A6	NYWS005870	1/2 - 1 Mile NNE

PHYSICAL SETTING SOURCE MAP - 5396704.2s



- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME: Damascus Road Landfill
 ADDRESS: End of Damascus Rd
 East Quogue NY 11942
 LAT/LONG: 40.847843 / 72.598239

CLIENT: Wood Environment & Infrastructure Solutions, Inc.
 CONTACT: Jazmin Logan
 INQUIRY #: 5396704.2s
 DATE: August 16, 2018 4:47 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

1
East
1/4 - 1/2 Mile
Lower

FED USGS USGS40000834446

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	S 48435. 1	Type:	Well
Description:	Not Reported	HUC:	02030202
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported
Aquifer:	Northern Atlantic Coastal Plain aquifer system		
Formation Type:	Glacial Aquifer, Upper	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	59
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels, Number of Measurements:	47	Level reading date:	1994-03-09
Feet below surface:	Not Reported	Feet to sea level:	10.21
Note:	Not Reported		
Level reading date:	1990-03-22	Feet below surface:	Not Reported
Feet to sea level:	11.54	Note:	Not Reported
Level reading date:	1983-09-15	Feet below surface:	Not Reported
Feet to sea level:	10.30	Note:	Not Reported
Level reading date:	1983-06-30	Feet below surface:	Not Reported
Feet to sea level:	11.51	Note:	Not Reported
Level reading date:	1983-05-11	Feet below surface:	Not Reported
Feet to sea level:	12.48	Note:	Not Reported
Level reading date:	1983-03-04	Feet below surface:	Not Reported
Feet to sea level:	9.16	Note:	Not Reported
Level reading date:	1982-12-21	Feet below surface:	Not Reported
Feet to sea level:	8.94	Note:	Not Reported
Level reading date:	1982-12-09	Feet below surface:	Not Reported
Feet to sea level:	9.06	Note:	Not Reported
Level reading date:	1982-10-07	Feet below surface:	Not Reported
Feet to sea level:	9.56	Note:	Not Reported
Level reading date:	1982-09-16	Feet below surface:	Not Reported
Feet to sea level:	11.91	Note:	Not Reported
Level reading date:	1982-09-09	Feet below surface:	Not Reported
Feet to sea level:	9.85	Note:	Not Reported
Level reading date:	1981-03-02	Feet below surface:	Not Reported
Feet to sea level:	8.65	Note:	Not Reported
Level reading date:	1980-12-05	Feet below surface:	Not Reported
Feet to sea level:	9.02	Note:	Not Reported
Level reading date:	1980-09-06	Feet below surface:	Not Reported
Feet to sea level:	9.63	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Level reading date:	1980-06-21	Feet below surface:	Not Reported
Feet to sea level:	10.85	Note:	Not Reported
Level reading date:	1980-03-13	Feet below surface:	Not Reported
Feet to sea level:	9.97	Note:	Not Reported
Level reading date:	1979-12-12	Feet below surface:	Not Reported
Feet to sea level:	10.46	Note:	Not Reported
Level reading date:	1979-09-19	Feet below surface:	Not Reported
Feet to sea level:	11.07	Note:	Not Reported
Level reading date:	1979-06-22	Feet below surface:	Not Reported
Feet to sea level:	12.32	Note:	Not Reported
Level reading date:	1979-03-13	Feet below surface:	Not Reported
Feet to sea level:	13.03	Note:	Not Reported
Level reading date:	1979-01-04	Feet below surface:	Not Reported
Feet to sea level:	10.08	Note:	Not Reported
Level reading date:	1978-10-05	Feet below surface:	Not Reported
Feet to sea level:	10.60	Note:	Not Reported
Level reading date:	1978-03-15	Feet below surface:	Not Reported
Feet to sea level:	12.55	Note:	Not Reported
Level reading date:	1977-12-07	Feet below surface:	Not Reported
Feet to sea level:	10.26	Note:	Not Reported
Level reading date:	1977-09-21	Feet below surface:	Not Reported
Feet to sea level:	9.72	Note:	Not Reported
Level reading date:	1977-06-21	Feet below surface:	Not Reported
Feet to sea level:	10.31	Note:	Not Reported
Level reading date:	1977-03-23	Feet below surface:	Not Reported
Feet to sea level:	9.90	Note:	Not Reported
Level reading date:	1976-12-23	Feet below surface:	Not Reported
Feet to sea level:	9.61	Note:	Not Reported
Level reading date:	1976-09-27	Feet below surface:	Not Reported
Feet to sea level:	9.80	Note:	Not Reported
Level reading date:	1976-06-23	Feet below surface:	Not Reported
Feet to sea level:	10.35	Note:	Not Reported
Level reading date:	1976-03-24	Feet below surface:	Not Reported
Feet to sea level:	11.06	Note:	Not Reported
Level reading date:	1975-12-15	Feet below surface:	Not Reported
Feet to sea level:	10.61	Note:	Not Reported
Level reading date:	1975-09-22	Feet below surface:	Not Reported
Feet to sea level:	10.21	Note:	Not Reported
Level reading date:	1975-07-07	Feet below surface:	Not Reported
Feet to sea level:	11.24	Note:	Not Reported
Level reading date:	1975-06-05	Feet below surface:	Not Reported
Feet to sea level:	10.69	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Level reading date:	1975-02-28	Feet below surface:	Not Reported
Feet to sea level:	10.17	Note:	Not Reported
Level reading date:	1974-11-25	Feet below surface:	Not Reported
Feet to sea level:	9.11	Note:	Not Reported
Level reading date:	1974-10-28	Feet below surface:	Not Reported
Feet to sea level:	9.38	Note:	Not Reported
Level reading date:	1974-10-11	Feet below surface:	Not Reported
Feet to sea level:	9.52	Note:	Not Reported
Level reading date:	1974-09-09	Feet below surface:	Not Reported
Feet to sea level:	9.79	Note:	Not Reported
Level reading date:	1974-08-15	Feet below surface:	Not Reported
Feet to sea level:	10.01	Note:	Not Reported
Level reading date:	1974-07-09	Feet below surface:	Not Reported
Feet to sea level:	10.47	Note:	Not Reported
Level reading date:	1974-06-07	Feet below surface:	Not Reported
Feet to sea level:	10.75	Note:	Not Reported
Level reading date:	1974-05-07	Feet below surface:	Not Reported
Feet to sea level:	11.01	Note:	Not Reported
Level reading date:	1974-03-25	Feet below surface:	Not Reported
Feet to sea level:	10.42	Note:	Not Reported
Level reading date:	1974-02-28	Feet below surface:	Not Reported
Feet to sea level:	10.40	Note:	Not Reported
Level reading date:	1974-01-03	Feet below surface:	Not Reported
Feet to sea level:	10.14	Note:	Not Reported

2
South
1/2 - 1 Mile
Lower

FED USGS USGS40000834271

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	S 46540. 1	Type:	Well
Description:	Not Reported	HUC:	02030202
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Northern Atlantic Coastal Plain aquifer system		
Formation Type:	Glacial Aquifer, Upper	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	41
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels, Number of Measurements:	78	Level reading date:	1998-03-16
Feet below surface:	Not Reported	Feet to sea level:	9.96
Note:	Not Reported		
Level reading date:	1997-03-12	Feet below surface:	Not Reported
Feet to sea level:	9.95	Note:	Not Reported
Level reading date:	1996-03-18	Feet below surface:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Feet to sea level:	9.46	Note:	Not Reported
Level reading date:	1995-03-22	Feet below surface:	Not Reported
Feet to sea level:	8.22	Note:	Not Reported
Level reading date:	1994-03-31	Feet below surface:	Not Reported
Feet to sea level:	10.27	Note:	Not Reported
Level reading date:	1993-03-22	Feet below surface:	Not Reported
Feet to sea level:	9.47	Note:	Not Reported
Level reading date:	1992-03-16	Feet below surface:	Not Reported
Feet to sea level:	8.27	Note:	Not Reported
Level reading date:	1991-03-20	Feet below surface:	Not Reported
Feet to sea level:	9.30	Note:	Not Reported
Level reading date:	1990-03-28	Feet below surface:	Not Reported
Feet to sea level:	9.91	Note:	Not Reported
Level reading date:	1989-01-13	Feet below surface:	Not Reported
Feet to sea level:	8.40	Note:	Not Reported
Level reading date:	1988-05-04	Feet below surface:	Not Reported
Feet to sea level:	9.22	Note:	Not Reported
Level reading date:	1987-03-03	Feet below surface:	Not Reported
Feet to sea level:	9.09	Note:	Not Reported
Level reading date:	1986-12-29	Feet below surface:	Not Reported
Feet to sea level:	7.70	Note:	Not Reported
Level reading date:	1986-09-25	Feet below surface:	Not Reported
Feet to sea level:	7.13	Note:	Not Reported
Level reading date:	1986-06-03	Feet below surface:	Not Reported
Feet to sea level:	7.76	Note:	Not Reported
Level reading date:	1986-03-13	Feet below surface:	Not Reported
Feet to sea level:	7.71	Note:	Not Reported
Level reading date:	1985-12-06	Feet below surface:	Not Reported
Feet to sea level:	7.45	Note:	Not Reported
Level reading date:	1985-09-17	Feet below surface:	Not Reported
Feet to sea level:	7.66	Note:	Not Reported
Level reading date:	1985-07-03	Feet below surface:	Not Reported
Feet to sea level:	8.20	Note:	Not Reported
Level reading date:	1985-03-27	Feet below surface:	Not Reported
Feet to sea level:	8.11	Note:	Not Reported
Level reading date:	1985-01-01	Feet below surface:	Not Reported
Feet to sea level:	8.50	Note:	Not Reported
Level reading date:	1984-09-25	Feet below surface:	Not Reported
Feet to sea level:	9.47	Note:	Not Reported
Level reading date:	1984-06-21	Feet below surface:	Not Reported
Feet to sea level:	11.55	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Level reading date:	1984-03-27	Feet below surface:	Not Reported
Feet to sea level:	10.97	Note:	Not Reported
Level reading date:	1984-01-29	Feet below surface:	Not Reported
Feet to sea level:	9.38	Note:	Not Reported
Level reading date:	1983-09-26	Feet below surface:	Not Reported
Feet to sea level:	8.70	Note:	Not Reported
Level reading date:	1983-09-14	Feet below surface:	Not Reported
Feet to sea level:	8.89	Note:	Not Reported
Level reading date:	1983-06-29	Feet below surface:	Not Reported
Feet to sea level:	10.50	Note:	Not Reported
Level reading date:	1983-06-20	Feet below surface:	Not Reported
Feet to sea level:	10.65	Note:	Not Reported
Level reading date:	1983-03-28	Feet below surface:	Not Reported
Feet to sea level:	9.11	Note:	Not Reported
Level reading date:	1983-01-19	Feet below surface:	Not Reported
Feet to sea level:	7.74	Note:	Not Reported
Level reading date:	1982-12-09	Feet below surface:	Not Reported
Feet to sea level:	7.65	Note:	Not Reported
Level reading date:	1982-10-07	Feet below surface:	Not Reported
Feet to sea level:	8.22	Note:	Not Reported
Level reading date:	1982-09-21	Feet below surface:	Not Reported
Feet to sea level:	8.45	Note:	Not Reported
Level reading date:	1982-09-09	Feet below surface:	Not Reported
Feet to sea level:	8.69	Note:	Not Reported
Level reading date:	1982-06-16	Feet below surface:	Not Reported
Feet to sea level:	10.34	Note:	Not Reported
Level reading date:	1982-05-10	Feet below surface:	Not Reported
Feet to sea level:	11.66	Note:	Not Reported
Level reading date:	1982-03-24	Feet below surface:	Not Reported
Feet to sea level:	8.06	Note:	Not Reported
Level reading date:	1981-12-18	Feet below surface:	Not Reported
Feet to sea level:	6.96	Note:	Not Reported
Level reading date:	1981-09-17	Feet below surface:	Not Reported
Feet to sea level:	7.28	Note:	Not Reported
Level reading date:	1981-06-24	Feet below surface:	Not Reported
Feet to sea level:	7.82	Note:	Not Reported
Level reading date:	1981-03-18	Feet below surface:	Not Reported
Feet to sea level:	8.02	Note:	Not Reported
Level reading date:	1980-12-30	Feet below surface:	Not Reported
Feet to sea level:	7.46	Note:	Not Reported
Level reading date:	1980-09-23	Feet below surface:	Not Reported
Feet to sea level:	8.24	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Level reading date:	1980-06-19	Feet below surface:	Not Reported
Feet to sea level:	9.56	Note:	Not Reported
Level reading date:	1980-03-28	Feet below surface:	Not Reported
Feet to sea level:	8.61	Note:	Not Reported
Level reading date:	1980-01-09	Feet below surface:	Not Reported
Feet to sea level:	8.63	Note:	Not Reported
Level reading date:	1979-09-27	Feet below surface:	Not Reported
Feet to sea level:	9.13	Note:	Not Reported
Level reading date:	1979-06-29	Feet below surface:	Not Reported
Feet to sea level:	10.85	Note:	Not Reported
Level reading date:	1979-04-02	Feet below surface:	Not Reported
Feet to sea level:	11.64	Note:	Not Reported
Level reading date:	1979-02-02	Feet below surface:	Not Reported
Feet to sea level:	11.50	Note:	Not Reported
Level reading date:	1978-12-21	Feet below surface:	Not Reported
Feet to sea level:	8.55	Note:	Not Reported
Level reading date:	1978-10-05	Feet below surface:	Not Reported
Feet to sea level:	8.92	Note:	Not Reported
Level reading date:	1978-06-30	Feet below surface:	Not Reported
Feet to sea level:	10.26	Note:	Not Reported
Level reading date:	1978-03-30	Feet below surface:	Not Reported
Feet to sea level:	10.74	Note:	Not Reported
Level reading date:	1978-01-05	Feet below surface:	Not Reported
Feet to sea level:	9.95	Note:	Not Reported
Level reading date:	1977-10-05	Feet below surface:	Not Reported
Feet to sea level:	8.40	Note:	Not Reported
Level reading date:	1977-06-29	Feet below surface:	Not Reported
Feet to sea level:	9.03	Note:	Not Reported
Level reading date:	1977-04-05	Feet below surface:	Not Reported
Feet to sea level:	9.17	Note:	Not Reported
Level reading date:	1977-01-26	Feet below surface:	Not Reported
Feet to sea level:	8.32	Note:	Not Reported
Level reading date:	1976-09-24	Feet below surface:	Not Reported
Feet to sea level:	8.42	Note:	Not Reported
Level reading date:	1976-07-01	Feet below surface:	Not Reported
Feet to sea level:	8.93	Note:	Not Reported
Level reading date:	1976-03-18	Feet below surface:	Not Reported
Feet to sea level:	9.71	Note:	Not Reported
Level reading date:	1976-01-08	Feet below surface:	Not Reported
Feet to sea level:	8.98	Note:	Not Reported
Level reading date:	1975-10-14	Feet below surface:	Not Reported
Feet to sea level:	8.53	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Level reading date:	1975-07-02	Feet below surface:	Not Reported
Feet to sea level:	10.26	Note:	Not Reported
Level reading date:	1975-03-24	Feet below surface:	Not Reported
Feet to sea level:	9.52	Note:	Not Reported
Level reading date:	1974-12-27	Feet below surface:	Not Reported
Feet to sea level:	8.78	Note:	Not Reported
Level reading date:	1974-09-17	Feet below surface:	Not Reported
Feet to sea level:	8.23	Note:	Not Reported
Level reading date:	1974-07-03	Feet below surface:	Not Reported
Feet to sea level:	9.13	Note:	Not Reported
Level reading date:	1974-03-28	Feet below surface:	Not Reported
Feet to sea level:	9.07	Note:	Not Reported
Level reading date:	1973-12-01	Feet below surface:	Not Reported
Feet to sea level:	8.38	Note:	Not Reported
Level reading date:	1973-11-27	Feet below surface:	Not Reported
Feet to sea level:	9.55	Note:	Not Reported
Level reading date:	1973-10-04	Feet below surface:	Not Reported
Feet to sea level:	9.18	Note:	Not Reported
Level reading date:	1973-07-11	Feet below surface:	Not Reported
Feet to sea level:	10.39	Note:	Not Reported
Level reading date:	1973-04-04	Feet below surface:	Not Reported
Feet to sea level:	10.18	Note:	Not Reported
Level reading date:	1973-01-09	Feet below surface:	Not Reported
Feet to sea level:	9.97	Note:	Not Reported
Level reading date:	1972-11-29	Feet below surface:	Not Reported
Feet to sea level:	8.49	Note:	Not Reported

A3
NNE
 1/2 - 1 Mile
 Lower

NY WELLS NYWS005871

Well ID:	NY5110526	Well Name:	SPINNEY ROAD WELL # 2 S-53593
System ID:	342	System Name:	SUFFOLK COUNTY WATER AUTHORITY
Type:	WL	Status:	A
Agency:	RANDAZZO, KAREN		

A4
NNE
 1/2 - 1 Mile
 Lower

NY WELLS NYWS005872

Well ID:	NY5110526	Well Name:	SPINNEY ROAD WELL # 1 S-23184
System ID:	341	System Name:	SUFFOLK COUNTY WATER AUTHORITY
Type:	WL	Status:	A
Agency:	RANDAZZO, KAREN		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

A5
NNE
 1/2 - 1 Mile
 Lower

NY WELLS NYWS005869

Well ID:	NY5110526	Well Name:	SPINNEY ROAD WELL # 1 S-23184
System ID:	341	System Name:	SUFFOLK COUNTY WATER AUTHORITY
Type:	WL	Status:	A
Agency:	MURRAY, ROBERT L.		

A6
NNE
 1/2 - 1 Mile
 Lower

NY WELLS NYWS005870

Well ID:	NY5110526	Well Name:	SPINNEY ROAD WELL # 2 S-53593
System ID:	342	System Name:	SUFFOLK COUNTY WATER AUTHORITY
Type:	WL	Status:	A
Agency:	MURRAY, ROBERT L.		

A7
NNE
 1/2 - 1 Mile
 Lower

FED USGS USGS40000834685

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	S 30230. 1	Type:	Well
Description:	Not Reported	HUC:	02030202
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Northern Atlantic Coastal Plain aquifer system		
Formation Type:	Magothy Aquifer	Aquifer Type:	Not Reported
Construction Date:	19700312	Well Depth:	825
Well Depth Units:	ft	Well Hole Depth:	1629
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	81	Level reading date:	2004-03-16
Feet below surface:	Not Reported	Feet to sea level:	13.01
Note:	Not Reported		

Level reading date:	2003-03-25	Feet below surface:	Not Reported
Feet to sea level:	11.94	Note:	Not Reported

Level reading date:	2002-03-18	Feet below surface:	Not Reported
Feet to sea level:	10.88	Note:	Not Reported

Level reading date:	2001-03-23	Feet below surface:	Not Reported
Feet to sea level:	11.38	Note:	Not Reported

Level reading date:	2000-03-31	Feet below surface:	Not Reported
Feet to sea level:	11.46	Note:	Not Reported

Level reading date:	1999-03-31	Feet below surface:	Not Reported
Feet to sea level:	12.71	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Level reading date:	1998-03-16	Feet below surface:	Not Reported
Feet to sea level:	12.09	Note:	Not Reported
Level reading date:	1997-03-12	Feet below surface:	Not Reported
Feet to sea level:	13.16	Note:	Not Reported
Level reading date:	1996-03-18	Feet below surface:	Not Reported
Feet to sea level:	11.65	Note:	Not Reported
Level reading date:	1995-03-22	Feet below surface:	Not Reported
Feet to sea level:	11.25	Note:	Not Reported
Level reading date:	1994-03-31	Feet below surface:	Not Reported
Feet to sea level:	12.36	Note:	Not Reported
Level reading date:	1993-03-22	Feet below surface:	Not Reported
Feet to sea level:	12.05	Note:	Not Reported
Level reading date:	1992-04-07	Feet below surface:	Not Reported
Feet to sea level:	11.35	Note:	Not Reported
Level reading date:	1991-03-20	Feet below surface:	Not Reported
Feet to sea level:	12.71	Note:	Not Reported
Level reading date:	1990-03-29	Feet below surface:	Not Reported
Feet to sea level:	13.69	Note:	Not Reported
Level reading date:	1989-02-08	Feet below surface:	Not Reported
Feet to sea level:	11.05	Note:	Not Reported
Level reading date:	1988-03-25	Feet below surface:	Not Reported
Feet to sea level:	11.41	Note:	Not Reported
Level reading date:	1987-03-03	Feet below surface:	Not Reported
Feet to sea level:	11.05	Note:	Not Reported
Level reading date:	1986-12-29	Feet below surface:	Not Reported
Feet to sea level:	10.36	Note:	Not Reported
Level reading date:	1986-09-23	Feet below surface:	Not Reported
Feet to sea level:	10.19	Note:	Not Reported
Level reading date:	1986-06-03	Feet below surface:	Not Reported
Feet to sea level:	10.37	Note:	Not Reported
Level reading date:	1986-03-13	Feet below surface:	Not Reported
Feet to sea level:	10.51	Note:	Not Reported
Level reading date:	1985-12-06	Feet below surface:	Not Reported
Feet to sea level:	10.84	Note:	Not Reported
Level reading date:	1985-09-17	Feet below surface:	Not Reported
Feet to sea level:	10.99	Note:	Not Reported
Level reading date:	1985-07-03	Feet below surface:	Not Reported
Feet to sea level:	12.22	Note:	Not Reported
Level reading date:	1985-07-03	Feet below surface:	Not Reported
Feet to sea level:	12.22	Note:	Not Reported
Level reading date:	1985-03-27	Feet below surface:	Not Reported
Feet to sea level:	12.27	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Level reading date:	1985-01-01	Feet below surface:	Not Reported
Feet to sea level:	13.14	Note:	Not Reported
Level reading date:	1984-09-25	Feet below surface:	Not Reported
Feet to sea level:	14.02	Note:	Not Reported
Level reading date:	1984-06-21	Feet below surface:	Not Reported
Feet to sea level:	14.43	Note:	Not Reported
Level reading date:	1984-04-14	Feet below surface:	Not Reported
Feet to sea level:	13.61	Note:	Not Reported
Level reading date:	1984-01-29	Feet below surface:	Not Reported
Feet to sea level:	12.63	Note:	Not Reported
Level reading date:	1983-09-15	Feet below surface:	Not Reported
Feet to sea level:	12.77	Note:	Not Reported
Level reading date:	1983-06-30	Feet below surface:	Not Reported
Feet to sea level:	13.31	Note:	Not Reported
Level reading date:	1983-06-20	Feet below surface:	Not Reported
Feet to sea level:	14.38	Note:	Not Reported
Level reading date:	1983-05-11	Feet below surface:	Not Reported
Feet to sea level:	12.80	Note:	Not Reported
Level reading date:	1983-03-28	Feet below surface:	Not Reported
Feet to sea level:	11.65	Note:	Not Reported
Level reading date:	1983-01-19	Feet below surface:	Not Reported
Feet to sea level:	11.22	Note:	Not Reported
Level reading date:	1982-12-09	Feet below surface:	Not Reported
Feet to sea level:	11.55	Note:	Not Reported
Level reading date:	1982-10-07	Feet below surface:	Not Reported
Feet to sea level:	12.02	Note:	Not Reported
Level reading date:	1982-09-21	Feet below surface:	Not Reported
Feet to sea level:	12.12	Note:	Not Reported
Level reading date:	1982-09-09	Feet below surface:	Not Reported
Feet to sea level:	12.21	Note:	Not Reported
Level reading date:	1982-06-16	Feet below surface:	Not Reported
Feet to sea level:	11.70	Note:	Not Reported
Level reading date:	1982-03-26	Feet below surface:	Not Reported
Feet to sea level:	10.35	Note:	Not Reported
Level reading date:	1981-12-18	Feet below surface:	Not Reported
Feet to sea level:	10.06	Note:	Not Reported
Level reading date:	1981-09-17	Feet below surface:	Not Reported
Feet to sea level:	10.35	Note:	Not Reported
Level reading date:	1981-06-24	Feet below surface:	Not Reported
Feet to sea level:	1.80	Note:	Not Reported
Level reading date:	1981-03-18	Feet below surface:	Not Reported
Feet to sea level:	3.25	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Level reading date:	1980-12-03	Feet below surface:	Not Reported
Feet to sea level:	2.72	Note:	Not Reported
Level reading date:	1980-10-15	Feet below surface:	Not Reported
Feet to sea level:	3.05	Note:	Not Reported
Level reading date:	1980-10-08	Feet below surface:	Not Reported
Feet to sea level:	2.95	Note:	Not Reported
Level reading date:	1980-07-02	Feet below surface:	Not Reported
Feet to sea level:	13.20	Note:	Not Reported
Level reading date:	1980-03-31	Feet below surface:	Not Reported
Feet to sea level:	12.43	Note:	Not Reported
Level reading date:	1980-01-09	Feet below surface:	Not Reported
Feet to sea level:	12.99	Note:	Not Reported
Level reading date:	1979-09-27	Feet below surface:	Not Reported
Feet to sea level:	13.35	Note:	Not Reported
Level reading date:	1979-07-08	Feet below surface:	Not Reported
Feet to sea level:	14.36	Note:	Not Reported
Level reading date:	1978-07-03	Feet below surface:	Not Reported
Feet to sea level:	13.87	Note:	Not Reported
Level reading date:	1978-03-30	Feet below surface:	Not Reported
Feet to sea level:	14.60	Note:	Not Reported
Level reading date:	1978-01-05	Feet below surface:	Not Reported
Feet to sea level:	12.55	Note:	Not Reported
Level reading date:	1977-10-05	Feet below surface:	Not Reported
Feet to sea level:	12.15	Note:	Not Reported
Level reading date:	1977-06-29	Feet below surface:	Not Reported
Feet to sea level:	12.48	Note:	Not Reported
Level reading date:	1977-04-05	Feet below surface:	Not Reported
Feet to sea level:	12.36	Note:	Not Reported
Level reading date:	1977-01-26	Feet below surface:	Not Reported
Feet to sea level:	12.08	Note:	Not Reported
Level reading date:	1976-09-24	Feet below surface:	Not Reported
Feet to sea level:	12.26	Note:	Not Reported
Level reading date:	1976-07-01	Feet below surface:	Not Reported
Feet to sea level:	12.61	Note:	Not Reported
Level reading date:	1976-04-14	Feet below surface:	Not Reported
Feet to sea level:	12.90	Note:	Not Reported
Level reading date:	1976-01-08	Feet below surface:	Not Reported
Feet to sea level:	12.55	Note:	Not Reported
Level reading date:	1975-11-03	Feet below surface:	Not Reported
Feet to sea level:	12.55	Note:	Not Reported
Level reading date:	1975-07-02	Feet below surface:	Not Reported
Feet to sea level:	12.90	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Level reading date:	1975-03-24	Feet below surface:	Not Reported
Feet to sea level:	12.13	Note:	Not Reported
Level reading date:	1974-12-27	Feet below surface:	Not Reported
Feet to sea level:	11.70	Note:	Not Reported
Level reading date:	1974-09-17	Feet below surface:	Not Reported
Feet to sea level:	12.18	Note:	Not Reported
Level reading date:	1974-03-29	Feet below surface:	Not Reported
Feet to sea level:	12.44	Note:	Not Reported
Level reading date:	1973-07-11	Feet below surface:	Not Reported
Feet to sea level:	14.24	Note:	Not Reported
Level reading date:	1973-04-04	Feet below surface:	Not Reported
Feet to sea level:	13.69	Note:	Not Reported
Level reading date:	1973-01-22	Feet below surface:	Not Reported
Feet to sea level:	13.04	Note:	Not Reported
Level reading date:	1972-07-11	Feet below surface:	Not Reported
Feet to sea level:	13.02	Note:	Not Reported
Level reading date:	1972-03-27	Feet below surface:	Not Reported
Feet to sea level:	12.35	Note:	Not Reported
Level reading date:	1971-12-02	Feet below surface:	Not Reported
Feet to sea level:	12.36	Note:	Not Reported
Level reading date:	1971-09-02	Feet below surface:	Not Reported
Feet to sea level:	11.67	Note:	Not Reported
Level reading date:	1970-03-12	Feet below surface:	Not Reported
Feet to sea level:	11.53	Note:	Not Reported

A8
NNE
1/2 - 1 Mile
Lower

FED USGS USGS40000834683

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	S 23184. 1	Type:	Well
Description:	SCWA SPINNEY RD #1	EAST QUOGUE	
HUC:	02030202	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported		
Aquifer:	Northern Atlantic Coastal Plain aquifer system		
Formation Type:	Glacial Aquifer, Upper	Aquifer Type:	Not Reported
Construction Date:	19640925	Well Depth:	118
Well Depth Units:	ft	Well Hole Depth:	120
Well Hole Depth Units:	ft		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

A9
NNE
1/2 - 1 Mile
Lower

FED USGS USGS40000834684

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	S 53593. 1	Type:	Well
Description:	SCWA SPINNEY RD #2	EAST QUOGUE	
HUC:	02030202	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Units:	Not Reported		
Aquifer:	Northern Atlantic Coastal Plain aquifer system		
Formation Type:	Glacial Aquifer, Upper	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	161
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

10
SE
1/2 - 1 Mile
Lower

FED USGS USGS40000834317

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	S 36531. 1	Type:	Well
Description:	Not Reported	HUC:	02030202
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported
Aquifer:	Northern Atlantic Coastal Plain aquifer system		
Formation Type:	Glacial Aquifer, Upper	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	61
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

11
NNE
1/2 - 1 Mile
Higher

FED USGS USGS40000834754

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	S 46537. 1	Type:	Well
Description:	LAT/LONG UPDATES FROM SIM 3066		
HUC:	02030202	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Units:	Not Reported		
Aquifer:	Northern Atlantic Coastal Plain aquifer system		
Formation Type:	Glacial Aquifer, Upper	Aquifer Type:	Not Reported
Construction Date:	1972	Well Depth:	50
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels, Number of Measurements:	79	Level reading date:	2004-03-15
Feet below surface:	Not Reported	Feet to sea level:	14.00
Note:	Not Reported		
Level reading date:	2003-03-25	Feet below surface:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Feet to sea level:	12.76	Note:	Not Reported
Level reading date:	2002-03-18	Feet below surface:	Not Reported
Feet to sea level:	11.32	Note:	Not Reported
Level reading date:	2001-03-23	Feet below surface:	Not Reported
Feet to sea level:	11.72	Note:	Not Reported
Level reading date:	2000-03-20	Feet below surface:	Not Reported
Feet to sea level:	11.84	Note:	Not Reported
Level reading date:	1999-03-31	Feet below surface:	Not Reported
Feet to sea level:	13.40	Note:	Not Reported
Level reading date:	1998-03-16	Feet below surface:	Not Reported
Feet to sea level:	12.74	Note:	Not Reported
Level reading date:	1997-03-12	Feet below surface:	Not Reported
Feet to sea level:	13.02	Note:	Not Reported
Level reading date:	1996-03-18	Feet below surface:	Not Reported
Feet to sea level:	11.75	Note:	Not Reported
Level reading date:	1995-03-22	Feet below surface:	Not Reported
Feet to sea level:	11.37	Note:	Not Reported
Level reading date:	1994-03-31	Feet below surface:	Not Reported
Feet to sea level:	13.34	Note:	Not Reported
Level reading date:	1993-03-22	Feet below surface:	Not Reported
Feet to sea level:	12.74	Note:	Not Reported
Level reading date:	1992-03-16	Feet below surface:	Not Reported
Feet to sea level:	11.35	Note:	Not Reported
Level reading date:	1991-03-20	Feet below surface:	Not Reported
Feet to sea level:	13.41	Note:	Not Reported
Level reading date:	1990-03-28	Feet below surface:	Not Reported
Feet to sea level:	13.95	Note:	Not Reported
Level reading date:	1989-02-08	Feet below surface:	Not Reported
Feet to sea level:	11.22	Note:	Not Reported
Level reading date:	1988-03-25	Feet below surface:	Not Reported
Feet to sea level:	11.16	Note:	Not Reported
Level reading date:	1987-03-19	Feet below surface:	Not Reported
Feet to sea level:	11.64	Note:	Not Reported
Level reading date:	1985-09-17	Feet below surface:	Not Reported
Feet to sea level:	10.54	Note:	Not Reported
Level reading date:	1985-07-03	Feet below surface:	Not Reported
Feet to sea level:	11.13	Note:	Not Reported
Level reading date:	1985-03-27	Feet below surface:	Not Reported
Feet to sea level:	12.30	Note:	Not Reported
Level reading date:	1985-01-01	Feet below surface:	Not Reported
Feet to sea level:	13.17	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Level reading date:	1984-09-25	Feet below surface:	Not Reported
Feet to sea level:	14.19	Note:	Not Reported
Level reading date:	1984-06-21	Feet below surface:	Not Reported
Feet to sea level:	15.00	Note:	Not Reported
Level reading date:	1984-03-27	Feet below surface:	Not Reported
Feet to sea level:	13.71	Note:	Not Reported
Level reading date:	1984-01-06	Feet below surface:	Not Reported
Feet to sea level:	12.56	Note:	Not Reported
Level reading date:	1983-09-26	Feet below surface:	Not Reported
Feet to sea level:	12.83	Note:	Not Reported
Level reading date:	1983-09-15	Feet below surface:	Not Reported
Feet to sea level:	12.90	Note:	Not Reported
Level reading date:	1983-06-30	Feet below surface:	Not Reported
Feet to sea level:	13.69	Note:	Not Reported
Level reading date:	1983-06-20	Feet below surface:	Not Reported
Feet to sea level:	13.71	Note:	Not Reported
Level reading date:	1983-05-11	Feet below surface:	Not Reported
Feet to sea level:	13.38	Note:	Not Reported
Level reading date:	1983-03-28	Feet below surface:	Not Reported
Feet to sea level:	11.41	Note:	Not Reported
Level reading date:	1983-01-19	Feet below surface:	Not Reported
Feet to sea level:	11.10	Note:	Not Reported
Level reading date:	1982-12-09	Feet below surface:	Not Reported
Feet to sea level:	11.31	Note:	Not Reported
Level reading date:	1982-10-07	Feet below surface:	Not Reported
Feet to sea level:	11.78	Note:	Not Reported
Level reading date:	1982-09-21	Feet below surface:	Not Reported
Feet to sea level:	11.99	Note:	Not Reported
Level reading date:	1982-09-09	Feet below surface:	Not Reported
Feet to sea level:	12.09	Note:	Not Reported
Level reading date:	1982-06-16	Feet below surface:	Not Reported
Feet to sea level:	11.53	Note:	Not Reported
Level reading date:	1982-03-24	Feet below surface:	Not Reported
Feet to sea level:	10.29	Note:	Not Reported
Level reading date:	1981-12-18	Feet below surface:	Not Reported
Feet to sea level:	9.51	Note:	Not Reported
Level reading date:	1981-09-17	Feet below surface:	Not Reported
Feet to sea level:	9.79	Note:	Not Reported
Level reading date:	1981-06-24	Feet below surface:	Not Reported
Feet to sea level:	11.05	Note:	Not Reported
Level reading date:	1981-03-18	Feet below surface:	Not Reported
Feet to sea level:	10.97	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Level reading date:	1980-12-30	Feet below surface:	Not Reported
Feet to sea level:	12.07	Note:	Not Reported
Level reading date:	1980-09-23	Feet below surface:	Not Reported
Feet to sea level:	11.88	Note:	Not Reported
Level reading date:	1980-07-02	Feet below surface:	Not Reported
Feet to sea level:	16.02	Note:	Not Reported
Level reading date:	1980-03-28	Feet below surface:	Not Reported
Feet to sea level:	13.64	Note:	Not Reported
Level reading date:	1980-03-18	Feet below surface:	Not Reported
Feet to sea level:	10.97	Note:	Not Reported
Level reading date:	1980-01-09	Feet below surface:	Not Reported
Feet to sea level:	13.39	Note:	Not Reported
Level reading date:	1979-09-27	Feet below surface:	Not Reported
Feet to sea level:	13.09	Note:	Not Reported
Level reading date:	1979-06-29	Feet below surface:	Not Reported
Feet to sea level:	14.87	Note:	Not Reported
Level reading date:	1979-04-02	Feet below surface:	Not Reported
Feet to sea level:	15.76	Note:	Not Reported
Level reading date:	1979-02-02	Feet below surface:	Not Reported
Feet to sea level:	14.61	Note:	Not Reported
Level reading date:	1978-12-21	Feet below surface:	Not Reported
Feet to sea level:	13.07	Note:	Not Reported
Level reading date:	1978-10-05	Feet below surface:	Not Reported
Feet to sea level:	13.57	Note:	Not Reported
Level reading date:	1978-06-30	Feet below surface:	Not Reported
Feet to sea level:	14.54	Note:	Not Reported
Level reading date:	1978-03-30	Feet below surface:	Not Reported
Feet to sea level:	15.61	Note:	Not Reported
Level reading date:	1978-01-05	Feet below surface:	Not Reported
Feet to sea level:	13.01	Note:	Not Reported
Level reading date:	1977-10-05	Feet below surface:	Not Reported
Feet to sea level:	12.39	Note:	Not Reported
Level reading date:	1977-06-28	Feet below surface:	Not Reported
Feet to sea level:	12.69	Note:	Not Reported
Level reading date:	1977-04-04	Feet below surface:	Not Reported
Feet to sea level:	12.29	Note:	Not Reported
Level reading date:	1977-01-26	Feet below surface:	Not Reported
Feet to sea level:	12.22	Note:	Not Reported
Level reading date:	1976-09-24	Feet below surface:	Not Reported
Feet to sea level:	12.40	Note:	Not Reported
Level reading date:	1976-07-01	Feet below surface:	Not Reported
Feet to sea level:	12.85	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Level reading date:	1976-03-18	Feet below surface:	Not Reported
Feet to sea level:	13.55	Note:	Not Reported
Level reading date:	1976-01-08	Feet below surface:	Not Reported
Feet to sea level:	12.72	Note:	Not Reported
Level reading date:	1975-10-14	Feet below surface:	Not Reported
Feet to sea level:	13.21	Note:	Not Reported
Level reading date:	1975-07-02	Feet below surface:	Not Reported
Feet to sea level:	13.47	Note:	Not Reported
Level reading date:	1975-03-24	Feet below surface:	Not Reported
Feet to sea level:	12.55	Note:	Not Reported
Level reading date:	1974-12-27	Feet below surface:	Not Reported
Feet to sea level:	11.79	Note:	Not Reported
Level reading date:	1974-09-17	Feet below surface:	Not Reported
Feet to sea level:	12.79	Note:	Not Reported
Level reading date:	1974-07-03	Feet below surface:	Not Reported
Feet to sea level:	13.27	Note:	Not Reported
Level reading date:	1974-03-28	Feet below surface:	Not Reported
Feet to sea level:	12.79	Note:	Not Reported
Level reading date:	1973-11-27	Feet below surface:	Not Reported
Feet to sea level:	13.15	Note:	Not Reported
Level reading date:	1973-10-30	Feet below surface:	Not Reported
Feet to sea level:	13.92	Note:	Not Reported
Level reading date:	1973-07-11	Feet below surface:	Not Reported
Feet to sea level:	15.15	Note:	Not Reported
Level reading date:	1973-04-04	Feet below surface:	Not Reported
Feet to sea level:	14.54	Note:	Not Reported
Level reading date:	1973-01-09	Feet below surface:	Not Reported
Feet to sea level:	13.54	Note:	Not Reported
Level reading date:	1972-12-08	Feet below surface:	Not Reported
Feet to sea level:	12.74	Note:	Not Reported

12
NW
1/2 - 1 Mile
Higher

FED USGS USGS40000834606

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	S 74300. 1	Type:	Well
Description:	Not Reported	HUC:	02030202
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Northern Atlantic Coastal Plain aquifer system	Aquifer Type:	Not Reported
Formation Type:	Glacial Aquifer, Upper	Well Depth:	72
Construction Date:	198303	Well Hole Depth:	Not Reported
Well Depth Units:	ft		
Well Hole Depth Units:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground water levels, Number of Measurements:	28	Level reading date:	2003-03-20
Feet below surface:	Not Reported	Feet to sea level:	14.94
Note:	Not Reported		
Level reading date:	2002-03-18	Feet below surface:	Not Reported
Feet to sea level:	13.90	Note:	Not Reported
Level reading date:	2001-03-20	Feet below surface:	Not Reported
Feet to sea level:	13.89	Note:	Not Reported
Level reading date:	2000-03-20	Feet below surface:	Not Reported
Feet to sea level:	14.63	Note:	Not Reported
Level reading date:	1999-03-31	Feet below surface:	Not Reported
Feet to sea level:	16.47	Note:	Not Reported
Level reading date:	1998-03-16	Feet below surface:	Not Reported
Feet to sea level:	15.32	Note:	Not Reported
Level reading date:	1997-03-12	Feet below surface:	Not Reported
Feet to sea level:	17.23	Note:	Not Reported
Level reading date:	1996-03-18	Feet below surface:	Not Reported
Feet to sea level:	14.83	Note:	Not Reported
Level reading date:	1995-03-22	Feet below surface:	Not Reported
Feet to sea level:	14.28	Note:	Not Reported
Level reading date:	1994-03-31	Feet below surface:	Not Reported
Feet to sea level:	15.74	Note:	Not Reported
Level reading date:	1993-03-22	Feet below surface:	Not Reported
Feet to sea level:	15.43	Note:	Not Reported
Level reading date:	1992-03-16	Feet below surface:	Not Reported
Feet to sea level:	14.82	Note:	Not Reported
Level reading date:	1991-03-20	Feet below surface:	Not Reported
Feet to sea level:	16.48	Note:	Not Reported
Level reading date:	1990-03-28	Feet below surface:	Not Reported
Feet to sea level:	18.49	Note:	Not Reported
Level reading date:	1989-02-08	Feet below surface:	Not Reported
Feet to sea level:	14.11	Note:	Not Reported
Level reading date:	1988-03-25	Feet below surface:	Not Reported
Feet to sea level:	14.57	Note:	Not Reported
Level reading date:	1987-03-19	Feet below surface:	Not Reported
Feet to sea level:	14.20	Note:	Not Reported
Level reading date:	1985-09-17	Feet below surface:	Not Reported
Feet to sea level:	14.45	Note:	Not Reported
Level reading date:	1985-07-03	Feet below surface:	Not Reported
Feet to sea level:	15.36	Note:	Not Reported
Level reading date:	1985-07-03	Feet below surface:	Not Reported
Feet to sea level:	15.36	Note:	Not Reported
Level reading date:	1985-03-27	Feet below surface:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Feet to sea level:	16.28	Note:	Not Reported
Level reading date:	1985-01-01	Feet below surface:	Not Reported
Feet to sea level:	17.63	Note:	Not Reported
Level reading date:	1984-09-25	Feet below surface:	Not Reported
Feet to sea level:	19.00	Note:	Not Reported
Level reading date:	1984-06-21	Feet below surface:	Not Reported
Feet to sea level:	19.09	Note:	Not Reported
Level reading date:	1984-03-27	Feet below surface:	Not Reported
Feet to sea level:	16.99	Note:	Not Reported
Level reading date:	1983-09-14	Feet below surface:	Not Reported
Feet to sea level:	17.02	Note:	Not Reported
Level reading date:	1983-06-29	Feet below surface:	Not Reported
Feet to sea level:	17.49	Note:	Not Reported
Level reading date:	1983-05-10	Feet below surface:	Not Reported
Feet to sea level:	16.08	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: NY Radon

Radon Test Results

County	Town	Num Tests	Avg Result	Geo Mean	Max Result
SUFFOLK	BABYLON	49	1.07	0.76	5.5
SUFFOLK	BROOKHAVEN	117	1.61	1.22	7.5
SUFFOLK	E. HAMPTON	19	1.55	1.16	4.7
SUFFOLK	HUNTINGTON	146	2.13	1.47	22.2
SUFFOLK	ISLIP	61	1.19	0.74	10.4
SUFFOLK	NORTHPORT	4	1.43	1.12	2.5
SUFFOLK	RIVERHEAD	9	2.18	1.26	8.9
SUFFOLK	SHELTER ISLAND	1	1.1	1.1	1.1
SUFFOLK	SMITHTOWN	60	3.02	1.48	42.6
SUFFOLK	SOUTHAMPTON	24	0.99	0.8	2.8
SUFFOLK	SOUTHOLD	7	2.47	1.58	8.6

Federal EPA Radon Zone for SUFFOLK County: 3

Note: Zone 1 indoor average level > 4 pCi/L.

: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.

: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for SUFFOLK COUNTY, NY

Number of sites tested: 183

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area	0.670 pCi/L	100%	0%	0%
Basement	1.010 pCi/L	98%	2%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Freshwater Wetlands

Source: Department of Environmental Conservation

Telephone: 518-402-8961

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

New York Public Water Wells

Source: New York Department of Health

Telephone: 518-458-6731

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Database

Department of Environmental Conservation

Telephone: 518-402-8072

These files contain records, in the database, of wells that have been drilled.

RADON

State Database: NY Radon

Source: Department of Health

Telephone: 518-402-7556

Radon Test Results

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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APPENDIX B



ANALYTICAL REPORT

Lab Number:	L1833504
Client:	Wood Env & Infrastructure Solutions, Inc 214-25 42nd Avenue Suite 3R Bayside, NY 11361
ATTN:	Eric Weinstock
Phone:	(347) 836-4445
Project Name:	DAMASCUS ROAD LANDFILL
Project Number:	3612182331
Report Date:	09/12/18

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Serial_No:09121815:58

Project Name: DAMASCUS ROAD LANDFILL
Project Number: 3612182331

Lab Number: L1833504
Report Date: 09/12/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1833504-01	MW-1-082318	WATER	EAST QUOGUE, NY	08/23/18 10:30	08/24/18
L1833504-02	MW-2-082318	WATER	EAST QUOGUE, NY	08/23/18 15:20	08/24/18
L1833504-03	MW-3-082318	WATER	EAST QUOGUE, NY	08/23/18 14:10	08/24/18
L1833504-04	MW-DUP-082318	WATER	EAST QUOGUE, NY	08/23/18 14:10	08/24/18
L1833504-05	FB-WL-082318	WATER	EAST QUOGUE, NY	08/23/18 15:35	08/24/18
L1833504-06	FB-TUB-082318	WATER	EAST QUOGUE, NY	08/23/18 15:45	08/24/18

Project Name: DAMASCUS ROAD LANDFILL
Project Number: 3612182331

Lab Number: L1833504
Report Date: 09/12/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: DAMASCUS ROAD LANDFILL
Project Number: 3612182331

Lab Number: L1833504
Report Date: 09/12/18

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Perfluorinated Alkyl Acids by Isotope Dilution

L1833504: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

L1833504-02: The sample was re-extracted on dilution in order to quantify the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

L1833504-05 and -06: The Field Blanks have a concentration above the reporting limit for 6:2FTS. The results were confirmed.

The WG1153245-2/-3 LCS/LCSD RPD(s), associated with L1833504-01,-03,-04,-05, and -06, are above the acceptance criteria for perfluorooctanesulfonamide (fosa) (46%).

The WG1153245-6/-7 MS/MSD RPD, performed on L1833504-01, is outside the acceptance criteria for 1h,1h,2h,2h-perfluorodecanesulfonic acid (8:2fts) (43%).

The continuing calibration standard WG1154270-5, associated with L1833504 as well as the associated QC, had the response for the extracted internal standards 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS) (155.7%D), N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA) (205.7%D), Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA) (164.4%D) and N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) (193.8%D) above the acceptance criteria for the method.

The associated target analytes were within acceptance criteria, therefore no further action was taken.

The continuing calibration standard WG1154270-6, associated with L1833504 as well as the associated QC, had the response for the extracted internal standards 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS) (243.2%D), N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA) (171.3%D), Perfluoro[13C8]Octanesulfonamide (M8FOSA) (47.6%D) and N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA) (191.2%D) outside the acceptance criteria for the method. The

Project Name: DAMASCUS ROAD LANDFILL
Project Number: 3612182331

Lab Number: L1833504
Report Date: 09/12/18

Case Narrative (continued)

associated target analytes were within acceptance criteria, therefore no further action was taken.

The continuing calibration standard WG1154270-4, associated with L1833504 as well as the associated QC, had the response for the extracted internal standard 1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS) (168.3%D). The associated target analyts was within acceptance criteria, therefore no further action was taken.

L1833504-02: The sample was re-extracted on dilution in order to quantify the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Susan O'Neil Susan O'Neil

Title: Technical Director/Representative

Date: 09/12/18

ORGANICS

SEMIVOLATILES

Project Name: DAMASCUS ROAD LANDFILL

Lab Number: L1833504

Project Number: 3612182331

Report Date: 09/12/18

SAMPLE RESULTS

Lab ID: L1833504-01
 Client ID: MW-1-082318
 Sample Location: EAST QUOGUE, NY

Date Collected: 08/23/18 10:30
 Date Received: 08/24/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water
 Analytical Method: 122,537(M)
 Analytical Date: 09/11/18 14:27
 Analyst: AJ

Extraction Method: EPA 537
 Extraction Date: 09/04/18 08:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.77	0.116	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.77	0.076	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.77	0.098	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.77	0.112	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.77	0.082	1
Perfluorohexanesulfonic Acid (PFHxS)	0.291	J	ng/l	1.77	0.095	1
Perfluorooctanoic Acid (PFOA)	0.082	J	ng/l	1.77	0.045	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	0.975	J	ng/l	1.77	0.172	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.77	0.138	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.77	0.089	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.77	0.099	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.77	0.169	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.77	0.258	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.77	0.222	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.77	0.170	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.77	0.197	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.77	0.201	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.77	0.330	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.77	0.081	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.77	0.080	1
Perfluorotetradecanoic Acid (PFTa)	ND		ng/l	1.77	0.064	1

Project Name: DAMASCUS ROAD LANDFILL

Lab Number: L1833504

Project Number: 3612182331

Report Date: 09/12/18

SAMPLE RESULTS

Lab ID: L1833504-01

Date Collected: 08/23/18 10:30

Client ID: MW-1-082318

Date Received: 08/24/18

Sample Location: EAST QUOGUE, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	106		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	128		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	105		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	87		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	88		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	110		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	107		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2F7S)	149		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	108		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	111		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	94		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2F7S)	170		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	157		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	101		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	17		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	152	Q	23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	118		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	161	Q	33-143

Project Name: DAMASCUS ROAD LANDFILL
Project Number: 3612182331

Lab Number: L1833504
Report Date: 09/12/18

SAMPLE RESULTS

Lab ID: L1833504-02
Client ID: MW-2-082318
Sample Location: EAST QUOGUE, NY

Date Collected: 08/23/18 15:20
Date Received: 08/24/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 122,537(M)
Analytical Date: 09/11/18 15:17
Analyst: AJ

Extraction Method: EPA 537
Extraction Date: 09/04/18 08:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	19.1		ng/l	1.78	0.117	1
Perfluoropentanoic Acid (PFPeA)	43.6		ng/l	1.78	0.076	1
Perfluorobutanesulfonic Acid (PFBS)	53.0		ng/l	1.78	0.098	1
Perfluorohexanoic Acid (PFHxA)	237		ng/l	1.78	0.113	1
Perfluoroheptanoic Acid (PFHpA)	35.0		ng/l	1.78	0.083	1
Perfluorohexanesulfonic Acid (PFHxS)	1570	E	ng/l	1.78	0.096	1
Perfluorooctanoic Acid (PFOA)	96.6		ng/l	1.78	0.045	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	2.06		ng/l	1.78	0.173	1
Perfluoroheptanesulfonic Acid (PFHpS)	113		ng/l	1.78	0.138	1
Perfluorononanoic Acid (PFNA)	1.83		ng/l	1.78	0.090	1
Perfluorooctanesulfonic Acid (PFOS)	4810	E	ng/l	1.78	0.100	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.78	0.170	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.78	0.260	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.78	0.224	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.78	0.171	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.78	0.198	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.78	0.202	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.78	0.333	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.78	0.082	1
Perfluorotridecanoic Acid (PFTTrDA)	ND		ng/l	1.78	0.081	1
Perfluorotetradecanoic Acid (PFTTA)	ND		ng/l	1.78	0.064	1

Project Name: DAMASCUS ROAD LANDFILL

Lab Number: L1833504

Project Number: 3612182331

Report Date: 09/12/18

SAMPLE RESULTS

Lab ID: L1833504-02

Date Collected: 08/23/18 15:20

Client ID: MW-2-082318

Date Received: 08/24/18

Sample Location: EAST QUOGUE, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	99		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	112		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	159		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	73		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	83		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	131		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	94		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	282	Q	1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	90		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	99		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	87		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	223	Q	7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	148		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	92		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	26		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	184	Q	23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	102		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	126		33-143

Project Name: DAMASCUS ROAD LANDFILL
Project Number: 3612182331

Lab Number: L1833504
Report Date: 09/12/18

SAMPLE RESULTS

Lab ID: L1833504-02 RE
Client ID: MW-2-082318
Sample Location: EAST QUOGUE, NY

Date Collected: 08/23/18 15:20
Date Received: 08/24/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 122,537(M)
Analytical Date: 09/11/18 17:16
Analyst: AJ

Extraction Method: EPA 537
Extraction Date: 09/10/18 09:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorohexanesulfonic Acid (PFHxS)	1640		ng/l	20.0	1.08	1
Perfluorooctanesulfonic Acid (PFOS)	4050		ng/l	20.0	1.12	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	89		47-153
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	90		42-146



Project Name: DAMASCUS ROAD LANDFILL

Lab Number: L1833504

Project Number: 3612182331

Report Date: 09/12/18

SAMPLE RESULTS

Lab ID: L1833504-03
 Client ID: MW-3-082318
 Sample Location: EAST QUOGUE, NY

Date Collected: 08/23/18 14:10
 Date Received: 08/24/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water
 Analytical Method: 122,537(M)
 Analytical Date: 09/11/18 15:34
 Analyst: AJ

Extraction Method: EPA 537
 Extraction Date: 09/04/18 08:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	3.15		ng/l	1.80	0.118	1
Perfluoropentanoic Acid (PFPeA)	8.15		ng/l	1.80	0.077	1
Perfluorobutanesulfonic Acid (PFBS)	1.03	J	ng/l	1.80	0.099	1
Perfluorohexanoic Acid (PFHxA)	5.76		ng/l	1.80	0.114	1
Perfluoroheptanoic Acid (PFHpA)	2.86		ng/l	1.80	0.083	1
Perfluorohexanesulfonic Acid (PFHxS)	7.85		ng/l	1.80	0.097	1
Perfluorooctanoic Acid (PFOA)	7.38		ng/l	1.80	0.046	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	3.94		ng/l	1.80	0.175	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.80	0.140	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.80	0.091	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.80	0.101	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.80	0.172	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.80	0.262	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.80	0.226	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.80	0.172	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.80	0.201	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.80	0.205	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.80	0.336	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.80	0.083	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.80	0.082	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.80	0.065	1

Project Name: DAMASCUS ROAD LANDFILL

Lab Number: L1833504

Project Number: 3612182331

Report Date: 09/12/18

SAMPLE RESULTS

Lab ID: L1833504-03

Date Collected: 08/23/18 14:10

Client ID: MW-3-082318

Date Received: 08/24/18

Sample Location: EAST QUOGUE, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	98		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	102		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	89		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	76		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	86		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	98		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	95		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	152		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	98		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	91		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	78		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	176	Q	7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	153		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	87		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	26		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	155	Q	23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	90		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEA)	125		33-143

Project Name: DAMASCUS ROAD LANDFILL
Project Number: 3612182331

Lab Number: L1833504
Report Date: 09/12/18

SAMPLE RESULTS

Lab ID: L1833504-04
Client ID: MW-DUP-082318
Sample Location: EAST QUOGUE, NY

Date Collected: 08/23/18 14:10
Date Received: 08/24/18
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 122,537(M)
Analytical Date: 09/11/18 15:52
Analyst: AJ

Extraction Method: EPA 537
Extraction Date: 09/04/18 08:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	2.67		ng/l	1.79	0.118	1
Perfluoropentanoic Acid (PFPeA)	6.49		ng/l	1.79	0.077	1
Perfluorobutanesulfonic Acid (PFBS)	0.953	J	ng/l	1.79	0.099	1
Perfluorohexanoic Acid (PFHxA)	4.87		ng/l	1.79	0.113	1
Perfluoroheptanoic Acid (PFHpA)	2.77		ng/l	1.79	0.083	1
Perfluorohexanesulfonic Acid (PFHxS)	8.66		ng/l	1.79	0.096	1
Perfluorooctanoic Acid (PFOA)	8.59		ng/l	1.79	0.045	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (8:2FTS)	4.00		ng/l	1.79	0.174	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.79	0.139	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.79	0.090	1
Perfluorooctanesulfonic Acid (PFOS)	1.16	J	ng/l	1.79	0.100	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.79	0.171	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.79	0.260	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.79	0.224	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.79	0.171	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.79	0.199	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.79	0.203	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.79	0.334	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.79	0.082	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.79	0.081	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.79	0.065	1

Project Name: DAMASCUS ROAD LANDFILL

Lab Number: L1833504

Project Number: 3612182331

Report Date: 09/12/18

SAMPLE RESULTS

Lab ID: L1833504-04

Date Collected: 08/23/18 14:10

Client ID: MW-DUP-082318

Date Received: 08/24/18

Sample Location: EAST QUOGUE, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	101		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	106		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	92		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	75		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	88		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	107		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	94		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	173		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	98		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	88		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	80		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	172	Q	7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	170		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	85		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	22		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEIFOSAA)	173	Q	23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	99		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	142		33-143

Project Name: DAMASCUS ROAD LANDFILL

Lab Number: L1833504

Project Number: 3612182331

Report Date: 09/12/18

SAMPLE RESULTS

Lab ID: L1833504-05
 Client ID: FB-WL-082318
 Sample Location: EAST QUOGUE, NY

Date Collected: 08/23/18 15:35
 Date Received: 08/24/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water
 Analytical Method: 122,537(M)
 Analytical Date: 09/11/18 13:32
 Analyst: AJ

Extraction Method: EPA 537
 Extraction Date: 09/04/18 08:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.84	0.120	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.84	0.079	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.84	0.101	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.84	0.116	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.84	0.085	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.84	0.099	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.84	0.046	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	10.5		ng/l	1.84	0.178	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.84	0.143	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.84	0.093	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.84	0.102	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.84	0.175	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.84	0.267	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.84	0.230	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.84	0.176	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.84	0.204	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.84	0.208	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.84	0.343	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.84	0.084	1
Perfluorotridecanoic Acid (PFTTrDA)	ND		ng/l	1.84	0.083	1
Perfluorotetradecanoic Acid (PFTTA)	ND		ng/l	1.84	0.066	1

Project Name: DAMASCUS ROAD LANDFILL
Project Number: 3612182331

Lab Number: L1833504
Report Date: 09/12/18

SAMPLE RESULTS

Lab ID: L1833504-05
Client ID: FB-WL-082318
Sample Location: EAST QUOGUE, NY

Date Collected: 08/23/18 15:35
Date Received: 08/24/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	107		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	128		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	107		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	91		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	92		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	114		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	110		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	122		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	107		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	105		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	94		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	139		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	122		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	94		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	4		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	171	Q	23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	106		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	124		33-143



Project Name: DAMASCUS ROAD LANDFILL

Lab Number: L1833504

Project Number: 3612182331

Report Date: 09/12/18

SAMPLE RESULTS

Lab ID: L1833504-06
 Client ID: FB-TUB-082318
 Sample Location: EAST QUOGUE, NY

Date Collected: 08/23/18 15:45
 Date Received: 08/24/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 122,537(M)
 Analytical Date: 09/11/18 14:11
 Analyst: AJ

Extraction Method: EPA 537
 Extraction Date: 09/04/18 08:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.88	0.123	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.88	0.080	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.88	0.103	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	1.88	0.119	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.88	0.087	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.88	0.101	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.88	0.047	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	4.84		ng/l	1.88	0.182	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.88	0.146	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.88	0.095	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.88	0.105	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.88	0.179	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.88	0.273	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.88	0.235	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.88	0.180	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.88	0.209	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.88	0.213	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.88	0.350	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.88	0.086	1
Perfluorotridecanoic Acid (PFTTrDA)	ND		ng/l	1.88	0.085	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.88	0.068	1

Project Name: DAMASCUS ROAD LANDFILL
 Project Number: 3612182331

Lab Number: L1833504
 Report Date: 09/12/18

SAMPLE RESULTS

Lab ID: L1833504-06
 Client ID: FB-TUB-082318
 Sample Location: EAST QUOGUE, NY

Date Collected: 08/23/18 15:45
 Date Received: 08/24/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	102		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	125		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	101		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	81		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	83		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	106		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	96		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	122		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	99		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	97		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	92		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	133		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	142		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUOA)	90		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	6		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEFOSAA)	141		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	95		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	117		33-143

Project Name: DAMASCUS ROAD LANDFILL
 Project Number: 3612182331

Lab Number: L1833504
 Report Date: 09/12/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 122,537(M)
 Analytical Date: 09/11/18 11:53
 Analyst: AJ

Extraction Method: EPA 537
 Extraction Date: 09/04/18 08:48

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-06 Batch: WG1153245-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.00	0.131
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.00	0.086
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.110
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	2.00	0.126
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.092
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.108
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	0.050
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.00	0.194
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.155
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.101
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.112
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.190
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	0.291
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.250
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.191
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.222
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.227
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.373
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.092
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.090
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.00	0.072

Project Name: DAMASCUS ROAD LANDFILL
Project Number: 3612182331

Lab Number: L1833504
Report Date: 09/12/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 122,537(M)
Analytical Date: 09/11/18 11:53
Analyst: AJ

Extraction Method: EPA 537
Extraction Date: 09/04/18 08:48

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-06 Batch: WG1153245-1					
Surrogate	%Recovery	Qualifier	Acceptance Criteria		
Perfluoro[13C4]Butanoic Acid (MPFBA)	117		2-156		
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	129		16-173		
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	125		31-159		
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	97		21-145		
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	107		30-139		
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	140		47-153		
Perfluoro[13C8]Octanoic Acid (M8PFOA)	121		36-149		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	139		1-244		
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	113		34-146		
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	127		42-146		
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	110		38-144		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	203	Q	7-170		
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	107		1-181		
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	135		40-144		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	47		1-87		
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	140		23-146		
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	130		24-161		
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	167	Q	33-143		

Project Name: DAMASCUS ROAD LANDFILL
 Project Number: 3612182331

Lab Number: L1833504
 Report Date: 09/12/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 122,537(M)
 Analytical Date: 09/11/18 16:26
 Analyst: AJ

Extraction Method: EPA 537
 Extraction Date: 09/10/18 09:20

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 02 Batch: WG1155112-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.00	0.131
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.00	0.086
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.110
Perfluorohexanoic Acid (PFHxA)	ND		ng/l	2.00	0.126
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.092
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.108
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	0.050
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	0.544	J	ng/l	2.00	0.194
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.155
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.101
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.112
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.190
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	0.291
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.250
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.191
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.222
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.227
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.373
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.092
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.090
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.00	0.072

Project Name: DAMASCUS ROAD LANDFILL
Project Number: 3612182331

Lab Number: L1833504
Report Date: 09/12/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 122,537(M)
Analytical Date: 09/11/18 16:26
Analyst: AJ

Extraction Method: EPA 537
Extraction Date: 09/10/18 09:20

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 02 Batch: WG1155112-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	41		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	56		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	92		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	40		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	49		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	100		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	60		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	145		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	67		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	93		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	68		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	137		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	110		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	77		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	1		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEFOSAA)	97		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	86		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	104		33-143

Serial_No:09121815:58

Lab Control Sample Analysis
Batch Quality Control

Project Name: DAMASCUS ROAD LANDFILL
Project Number: 3612182331

Lab Number: L1833504
Report Date: 09/12/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-06 Batch: WG1153245-2 WG1153245-3								
Perfluorobutanoic Acid (PFBA)	114		100		67-148	12		30
Perfluoropentanoic Acid (PFPeA)	116		105		63-161	14		30
Perfluorobutanesulfonic Acid (PFBS)	117		104		65-157	12		30
Perfluorohexanoic Acid (PFHxA)	126		113		69-168	4		30
Perfluoroheptanoic Acid (PFHpA)	106		97		58-159	11		30
Perfluorohexanesulfonic Acid (PFHxS)	115		106		69-177	11		30
Perfluorooctanoic Acid (PFOA)	118		102		63-159	9		30
1,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	122		116		49-187	14		30
Perfluoroheptanesulfonic Acid (PFHpS)	114		99		61-179	23		30
Perfluorononanoic Acid (PFNA)	123		111		68-171	7		30
Perfluorooctanesulfonic Acid (PFOS)	99		92		52-151	0		30
Perfluorodecanoic Acid (PFDA)	129		110		63-171	14		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	108		103		56-173	7		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	112		91		60-166	16		30
Perfluoroundecanoic Acid (PFUnA)	103		88		60-153	16		30
Perfluorodecanesulfonic Acid (PFDS)	62		59		38-156	16		30
Perfluorooctanesulfonamide (FOSA)	98		92		46-170	46	Q	30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	119		115		45-170	1		30
Perfluorododecanoic Acid (PFDoA)	110		101		67-153	13		30
Perfluorotridecanoic Acid (PFTriDA)	129		110		48-158	20		30
Perfluorotetradecanoic Acid (PFTA)	114		89		59-182	25		30



Lab Control Sample Analysis
Batch Quality Control

Project Name: DAMASCUS ROAD LANDFILL
Project Number: 3612182331

Lab Number: L1833504
Report Date: 09/12/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-06 Batch: WG1153245-2 WG1153245-3

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
Perfluoro[13C4]Butanoic Acid (MPFBA)	101		101		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	118		114		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	97		99		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	87		85		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	92		89		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	101		102		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	99		101		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2F7S)	128		109		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	105		104		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	99		99		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	86		89		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2F7S)	140		122		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	110		129		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	107		109		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	6		20		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEIFOSAA)	119		166	Q	23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	107		109		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	123		140		33-143

Serial_No:09121815:58

Lab Control Sample Analysis
Batch Quality Control

Project Name: DAMASCUS ROAD LANDFILL
Project Number: 3612182331

Lab Number: L1833504
Report Date: 09/12/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 02 Batch: WG1155112-2 WG1155112-3								
Perfluorobutanoic Acid (PFBA)	116		108		67-148	7		30
Perfluoropentanoic Acid (PFPeA)	117		114		63-161	3		30
Perfluorobutanesulfonic Acid (PFBS)	123		112		65-157	9		30
Perfluorohexanoic Acid (PFHxA)	128		118		69-168	8		30
Perfluoroheptanoic Acid (PFHpA)	115		106		58-159	8		30
Perfluorohexanesulfonic Acid (PFHxS)	114		107		69-177	6		30
Perfluorooctanoic Acid (PFOA)	121		112		63-159	8		30
1,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	131		115		49-187	13		30
Perfluoroheptanesulfonic Acid (PFHpS)	120		103		61-179	15		30
Perfluorononanoic Acid (PFNA)	124		116		68-171	7		30
Perfluorooctanesulfonic Acid (PFOS)	109		92		52-151	17		30
Perfluorodecanoic Acid (PFDA)	125		120		63-171	4		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	111		142		56-173	25		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	100		109		60-166	9		30
Perfluoroundecanoic Acid (PFUnA)	102		103		60-153	1		30
Perfluorodecanesulfonic Acid (PFDS)	75		79		38-156	5		30
Perfluorooctanesulfonamide (FOSA)	104		117		46-170	12		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	137		114		45-170	18		30
Perfluorododecanoic Acid (PFDoA)	105		113		67-153	7		30
Perfluorotridecanoic Acid (PFTTrDA)	149		130		48-158	14		30
Perfluorotetradecanoic Acid (PFTA)	124		103		59-182	19		30



Lab Control Sample Analysis
Batch Quality Control

Project Name: DAMASCUS ROAD LANDFILL
Project Number: 3612182331

Lab Number: L1833504
Report Date: 09/12/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 02 Batch: WG1155112-2 WG1155112-3

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
Perfluoro[13C4]Butanoic Acid (MPFBA)	39		61		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	56		82		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	80		79		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	43		58		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	52		66		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	89		87		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	64		75		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	135		138		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	67		80		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	83		82		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	64		70		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	169		127		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	116		119		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	77		79		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	1		2		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEIFOSAA)	125		123		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	80		79		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	118		128		33-143



Matrix Spike Analysis
Batch Quality Control

Project Name: DAMASCUS ROAD LANDFILL
Project Number: 3612182331

Lab Number: L1833504
Report Date: 09/12/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1153245-6 WG1153245-7 QC Sample: L1833504-01 Client ID: MW-1-082318												
Perfluorobutanoic Acid (PFBA)	ND	35.6	39.6	111		35.6	103		67-148	12		30
Perfluoropentanoic Acid (PFPeA)	ND	35.6	40.5	114		37.0	107		63-161	8		30
Perfluorobutanesulfonic Acid (PFBS)	ND	35.6	41.4	116		37.4	108		65-157	5		30
Perfluorohexanoic Acid (PFHxA)	ND	35.6	42.3	119		38.8	112		69-168	9		30
Perfluoroheptanoic Acid (PFHpA)	ND	35.6	38.7	109		33.9	98		58-159	12		30
Perfluorohexanesulfonic Acid (PFHxS)	0.291J	35.6	38.1	107		37.0	107		69-177	6		30
Perfluorooctanoic Acid (PFOA)	0.082J	35.6	40.0	112		37.9	109		63-159	6		30
2H,2H-Perfluorooctanesulfonic Acid (PFOS)	0.975J	35.6	41.0	115		37.4	108		49-187	13		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	35.6	39.1	110		34.7	100		61-179	21		30
Perfluorononanoic Acid (PFNA)	ND	35.6	44.9	126		40.2	116		68-171	2		30
Perfluorooctanesulfonic Acid (PFOS)	ND	35.6	31.7	89		31.9	92		52-151	9		30
Perfluorodecanoic Acid (PFDA)	ND	35.6	43.8	123		39.7	114		63-171	12		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8.2FTS)	ND	35.6	41.7	117		38.2	110		56-173	43	Q	30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	35.6	37.8	106		32.0	92		60-166	5		30
Perfluoroundecanoic Acid (PFUnA)	ND	35.6	35.9	101		33.5	96		60-153	9		30
Perfluorodecanesulfonic Acid (PFDS)	ND	35.6	25.4	71		25.3	76		38-156	2		30
Perfluorooctanesulfonamide (FOSA)	ND	35.6	35.2	99		35.3	102		46-170	6		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEFOSAA)	ND	35.6	40.6	114		37.9	109		45-170	18		30
Perfluorododecanoic Acid (PFDoA)	ND	35.6	38.5	108		35.0	101		67-153	8		30
Perfluorotridecanoic Acid (PFTriDA)	ND	35.6	34.4	97		32.2	93		48-158	1		30
Perfluorotetradecanoic Acid (PFTA)	ND	35.6	37.8	106		35.2	104		59-182	3		30

Matrix Spike Analysis
Batch Quality Control

Project Name: DAMASCUS ROAD LANDFILL
Project Number: 3612182331

Lab Number: L1833504
Report Date: 09/12/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD
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Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1153245-6 WG1153245-7 QC Sample: L1833504-01
Client ID: MW-1-082318

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	151		192	Q	7-170
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-8:2FTS)	153		170		1-244
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEIFOSAA)	162	Q	182	Q	23-146
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	156		162		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	102		103		40-144
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	95		104		38-144
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	82		88		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	88		94		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	107		112		47-153
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	115		126		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	151	Q	143		33-143
Perfluoro[13C4]Butanoic Acid (MPFBA)	100		107		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	120		128		16-173
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	26		9		1-87
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	109		107		42-146
Perfluoro[13C8]Octanoic Acid (M8PFOA)	101		105		36-149
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	99		105		34-146
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	98		102		31-159



Project Name: DAMASCUS ROAD LANDFILL
 Project Number: 3612182331

Serial_No:09121815:58
 Lab Number: L1833504
 Report Date: 09/12/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler Custody Seal
 A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1833504-01A	3 Plastic Trizma/1 Plastic/1 H2O+Trizma	A	NA		2.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L1833504-01B	3 Plastic Trizma/1 Plastic/1 H2O+Trizma	A	NA		2.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L1833504-01C	3 Plastic Trizma/1 Plastic/1 H2O+Trizma	A	NA		2.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L1833504-01D	3 Plastic Trizma/1 Plastic/1 H2O+Trizma	A	NA		2.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L1833504-01E	3 Plastic Trizma/1 Plastic/1 H2O+Trizma	A	NA		2.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L1833504-01F	3 Plastic Trizma/1 Plastic/1 H2O+Trizma	A	NA		2.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L1833504-01G	3 Plastic Trizma/1 Plastic/1 H2O+Trizma	A	NA		2.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L1833504-01H	3 Plastic Trizma/1 Plastic/1 H2O+Trizma	A	NA		2.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L1833504-01I	3 Plastic Trizma/1 Plastic/1 H2O+Trizma	A	NA		2.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L1833504-02A	3 Plastic Trizma/1 Plastic/1 H2O+Trizma	A	NA		2.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L1833504-02B	3 Plastic Trizma/1 Plastic/1 H2O+Trizma	A	NA		2.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L1833504-02C	3 Plastic Trizma/1 Plastic/1 H2O+Trizma	A	NA		2.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L1833504-03A	3 Plastic Trizma/1 Plastic/1 H2O+Trizma	A	NA		2.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L1833504-03B	3 Plastic Trizma/1 Plastic/1 H2O+Trizma	A	NA		2.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L1833504-03C	3 Plastic Trizma/1 Plastic/1 H2O+Trizma	A	NA		2.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L1833504-04A	3 Plastic Trizma/1 Plastic/1 H2O+Trizma	A	NA		2.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L1833504-04B	3 Plastic Trizma/1 Plastic/1 H2O+Trizma	A	NA		2.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L1833504-04C	3 Plastic Trizma/1 Plastic/1 H2O+Trizma	A	NA		2.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L1833504-05A	3 Plastic Trizma/1 Plastic/1 H2O+Trizma	A	NA		2.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L1833504-05B	3 Plastic Trizma/1 Plastic/1 H2O+Trizma	A	NA		2.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L1833504-05C	3 Plastic Trizma/1 Plastic/1 H2O+Trizma	A	NA		2.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L1833504-06A	3 Plastic Trizma/1 Plastic/1 H2O+Trizma	A	NA		2.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L1833504-06B	3 Plastic Trizma/1 Plastic/1 H2O+Trizma	A	NA		2.0	Y	Absent		A2-NY-537-ISOTOPE(14)

*Values in parentheses indicate holding time in days



Project Name: DAMASCUS ROAD LANDFILL
Project Number: 3612182331

Serial_No:09121815:58
Lab Number: L1833504
Report Date: 09/12/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1833504-06C	3 Plastic Trizma/1 Plastic/1 H2O+Trizma	A	NA		2.0	Y	Absent		A2-NY-537-ISOTOPE(14)

Project Name: DAMASCUS ROAD LANDFILL
Project Number: 3612182331

Lab Number: L1833504
Report Date: 09/12/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCS D	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Report Format: DU Report with 'J' Qualifiers



Project Name: DAMASCUS ROAD LANDFILL

Lab Number: L1833504

Project Number: 3612182331

Report Date: 09/12/18

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: DAMASCUS ROAD LANDFILL
Project Number: 3612182331

Lab Number: L1833504
Report Date: 09/12/18

REFERENCES

- 122 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS). EPA Method 537, EPA/600/R-08/092. Version 1.1, September 2009.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at its own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624: m/p-xylene, o-xylene
 EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
 EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.
 EPA 300: DVV: Bromide
 EPA 6860: SCM: Perchlorate
 EPA 9010: NPW and SCM: Amenable Cyanide Distillation
 SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS
 EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.
 EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
 Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B
 EPA 332: Perchlorate; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP.
 Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.
 EPA 624: Volatile Halocarbons & Aromatics,
 EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
 EPA 625: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.
 Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
 EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
 EPA 245.1 Hg.
 SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

ATTACHMENT 5

IDW Disposal Manifest

Please print or type
(Form designed for use on 8 1/2" (21 pitch) typewriter.)

18001179

**NON-HAZARDOUS
MANIFEST**

1. Generator's US EPA ID No.

Manifest Doc. No.

2. Page 1

of

1037

3. Generator's Name and Mailing Address

Town of Southampton
146 Damascus Rd
East Quogue

4. Generator's Phone

(631) 236-3737

5. Transporter 1 Company Name

AARCO ENVIRONMENTAL SERVICES CORP.

6. US EPA ID Number

N.Y.R. 0.0.0.1.0.7.3.2.6

A. Transporter's Phone

631-586-5900

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

DALE TRANSFER CORP.
129 DALE STREET
WEST BABYLON, NY 11704

10. US EPA ID Number

N/A

C. Facility's Phone

631-393-2882

11. Waste Shipping Name and Description

a. NON-HAZARDOUS WASTE SOLID

b. NON-HAZARDOUS WASTE LIQUID

Purge water from wells

12. Containers
No. Type

13. Total
Quantity

14. Unit
Wt/Vol

.. .

.. .

P

005

0025

G

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

K AGENT Y

Signature

[Signature]

Month Day Year

11.01.11.8

17. Transporter 1 Acknowledgment of Receipt of Materials

Printed/Typed Name

Cory Diorker

Signature

[Signature]

Month Day Year

11.01.11.8

18. Transporter 2 Acknowledgment of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

. . .

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.

Printed/Typed Name

Shm Armado Seattle

Signature

[Signature]

Month Day Year

11.01.11.8

GENERATOR

TRANSPORTER

FACILITY

ORIGINAL - RETURN TO GENERATOR

2

1

2