

D. Brookside 2015 Spill Closure Report

February 2, 2015

Ms. Kristy Salafrio
New York State Department of Environmental Conservation
Division of Environmental Remediation
Spill Prevention and Response
Region One Headquarters
50 Circle Road
Stony Brook, NY 11790-3409

**RE: Spill Closure Request
Spill # 1409871
250 East Main Street
Bay Shore, NY 11706**

Dear Ms. Salafrio,

This letter summarizes the tank removal and soil remediation work that took place between January 7th and 21st, 2015 at the above referenced site. The scope of work consisted of removing underground storage tanks (USTs), excavation of contaminated soil, transportation and disposal of the impacted soil and post-excavation soil sampling. A description of the work is presented below.

January 7th, 2015

Brookside's field crew responded to a request by a general contractor who uncovered two small underground storage tanks while excavating for a foundation. Brookside uncovered, cut and cleaned one 700 gallon steel and one 500 gallon steel, USTs that were purportedly used to store heating oil. After removing the 700 gallon tank, the resulting excavation was clean and exhibited no signs of contamination. After removing the 500 gallon tank, the bottom of the excavation was discolored and had a strong petroleum odor. The excavator was used to remove some of the stained soil and confirmed the presence of oil in the soil. At that point a representative from Brookside called the NYSDEC and reported the spill.

Brookside excavated and removed as much of the contaminated soil as possible and extended the excavation to approximately six feet below grade and one foot into the groundwater table. Groundwater elevations at this site fluctuate with the tide and range from approximately five to seven feet below grade. The resulting excavation removed approximately 25 cubic yards of contaminated soil which was placed on poly sheeting and was covered for waste classification sampling and disposal at a later date.

January 9th, 2015

Excavation of contaminated soil continued under the direction of Ms. Kristy Salafrio from the NYSDEC in order to completely remove the impacted soil beneath the groundwater interface. Based on visual inspection, the sidewalls had been adequately excavated and therefore did not require sampling. Approximately five additional yards of soil was removed and placed on the stockpile. After completing the excavation, two bottom samples were collected using the excavator. The samples were collected at approximately eight feet below grade and six to eight feet apart. The sample numbers and their locations along with the approximate location of the tanks are noted in figure 1. Samples were placed in the appropriate jars, set in a cooler to maintain the proper temperature and delivered to a state approved lab under a chain-of-custody. The results of the end point samples are summarized in Table-1.

The empty tanks were inspected and both were loaded into a truck and sent for recycling. The contaminated stockpile was covered and the excavation was approved by the NYSDEC to be backfilled so that the construction of a new building can continue.

January 21st, 2015

Brookside mobilized to the site to load, transport and dispose of the impacted soil. In all, 43.14 tons of non-hazardous petroleum contaminated soil was properly manifested and disposed of at Clean Earth of Carteret. Copies of the manifests and weight tickets have been attached to this report. Site work to remediate this spill was completed and all equipment was demobilized.

Summary and Recommendation

Brookside has reviewed the laboratory report for the end point samples (BN-1 and BS-2) from the bottom of the excavation and found that both the VOCs and SVOCs in both samples were all non-detect and the metals results were low and within the state standards. See Table-1.

The excavation and spill has been cleaned up to NYSDEC standards, the tanks have been cleaned and recycled and the contaminated soil properly disposed. Given the spill has been completely remediated, Brookside Environmental and the property owner request that the spill file for this site be closed. If you should have any question or need additional information, please do not hesitate to contact me.

Sincerely,



Brian Gaudreault
Vice President
Brookside Environmental, Inc.

250 E. Main Street
 Bay Shore, New York 11707
 SPILL # 1409871

2/2/2015

TABLE -1

Sample ID York ID Sampling Date Client Matrix		NYSDEC Part 375 Unrestricted Use Soil Cleanup	BN-1 15A0283-01 1/9/2015 3:00:00 PM Soil		BS-2 15A0283-02 1/9/2015 3:00:00 PM Soil	
Compound	CAS Number	Objectives	Result	Q	Result	Q
Volatile Organics, CP-51 (formerly STARS) List		mg/Kg	mg/kg		mg/kg	
Dilution Factor			1		1	
1,2,4-Trimethylbenzene	95-63-6	3.6	0.0028	U	0.0030	U
1,3,5-Trimethylbenzene	108-67-8	8.4	0.0028	U	0.0030	U
Benzene	71-43-2	0.06	0.0028	U	0.0030	U
Ethyl Benzene	100-41-4	1	0.0028	U	0.0030	U
Isopropylbenzene	98-82-8	~	0.0028	U	0.0030	U
Methyl tert-butyl ether (MTBE)	1634-04-4	0.93	0.0028	U	0.0030	U
Naphthalene	91-20-3	12	0.0028	U	0.0030	U
n-Butylbenzene	104-51-8	12	0.0028	U	0.0030	U
n-Propylbenzene	103-65-1	3.9	0.0028	U	0.0030	U
o-Xylene	95-47-6	~	0.0028	U	0.0030	U
p- & m- Xylenes	179601-23-1	~	0.0057	U	0.0061	U
p-Isopropyltoluene	99-87-6	~	0.0028	U	0.0030	U
sec-Butylbenzene	135-98-8	11	0.0028	U	0.0030	U
tert-Butylbenzene	98-06-6	5.9	0.0028	U	0.0030	U
Toluene	108-88-3	0.7	0.0028	U	0.0030	U
Xylenes, Total	1330-20-7	0.26	0.0085	U	0.0091	U
Semi-Volatiles, CP-51 (formerly STARS) List		mg/Kg	mg/kg		mg/kg	
Dilution Factor			1		1	
Acenaphthene	83-32-9	20	0.024	U	0.025	U
Acenaphthylene	208-96-8	100	0.024	U	0.025	U
Anthracene	120-12-7	100	0.024	U	0.025	U
Benzo(a)anthracene	56-55-3	1	0.024	U	0.025	U
Benzo(a)pyrene	50-32-8	1	0.024	U	0.025	U
Benzo(b)fluoranthene	205-99-2	1	0.024	U	0.025	U
Benzo(g,h,i)perylene	191-24-2	100	0.024	U	0.025	U
Benzo(k)fluoranthene	207-08-9	0.8	0.024	U	0.025	U
Chrysene	218-01-9	1	0.024	U	0.025	U
Dibenzo(a,h)anthracene	53-70-3	0.33	0.024	U	0.025	U
Fluoranthene	206-44-0	100	0.024	U	0.025	U
Fluorene	86-73-7	30	0.024	U	0.025	U
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.024	U	0.025	U

Naphthalene	91-20-3	12	0.024	U	0.025	U
Phenanthrene	85-01-8	100	0.024	U	0.025	U
Pyrene	129-00-0	100	0.024	U	0.025	U
Metals, NYSDEC Part 375		mg/Kg	mg/kg		mg/kg	
Dilution Factor			1		1	
Arsenic	7440-38-2	13	1.13	U	1.21	U
Barium	7440-39-3	350	4.73		5.79	
Beryllium	7440-41-7	7.2	0.11	U	0.12	U
Cadmium	7440-43-9	2.5	0.34	U	0.36	U
Chromium	7440-47-3	~	1.28		1.64	
Copper	7440-50-8	50	1.21		1.12	
Lead	7439-92-1	63	6.28		8.41	
Manganese	7439-96-5	1600	9.98		5.40	
Nickel	7440-02-0	30	0.83		0.99	
Selenium	7782-49-2	3.9	1.13	U	1.21	U
Silver	7440-22-4	2	0.57	U	0.61	U
Zinc	7440-66-6	109	11.60		6.36	
Mercury by 7473		mg/Kg	mg/kg		mg/kg	
Dilution Factor			1		1	
Mercury	7439-97-6	0.18	0.034	U	0.036	U
Total Solids			%		%	
Dilution Factor			1		1	
% Solids	solids	~	88.30		82.50	

NOTES:

Any Regulatory Exceedences are color coded by Regulation

Q is the Qualifier Column with definitions as follows:

D=result is from an analysis that required a dilution

J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

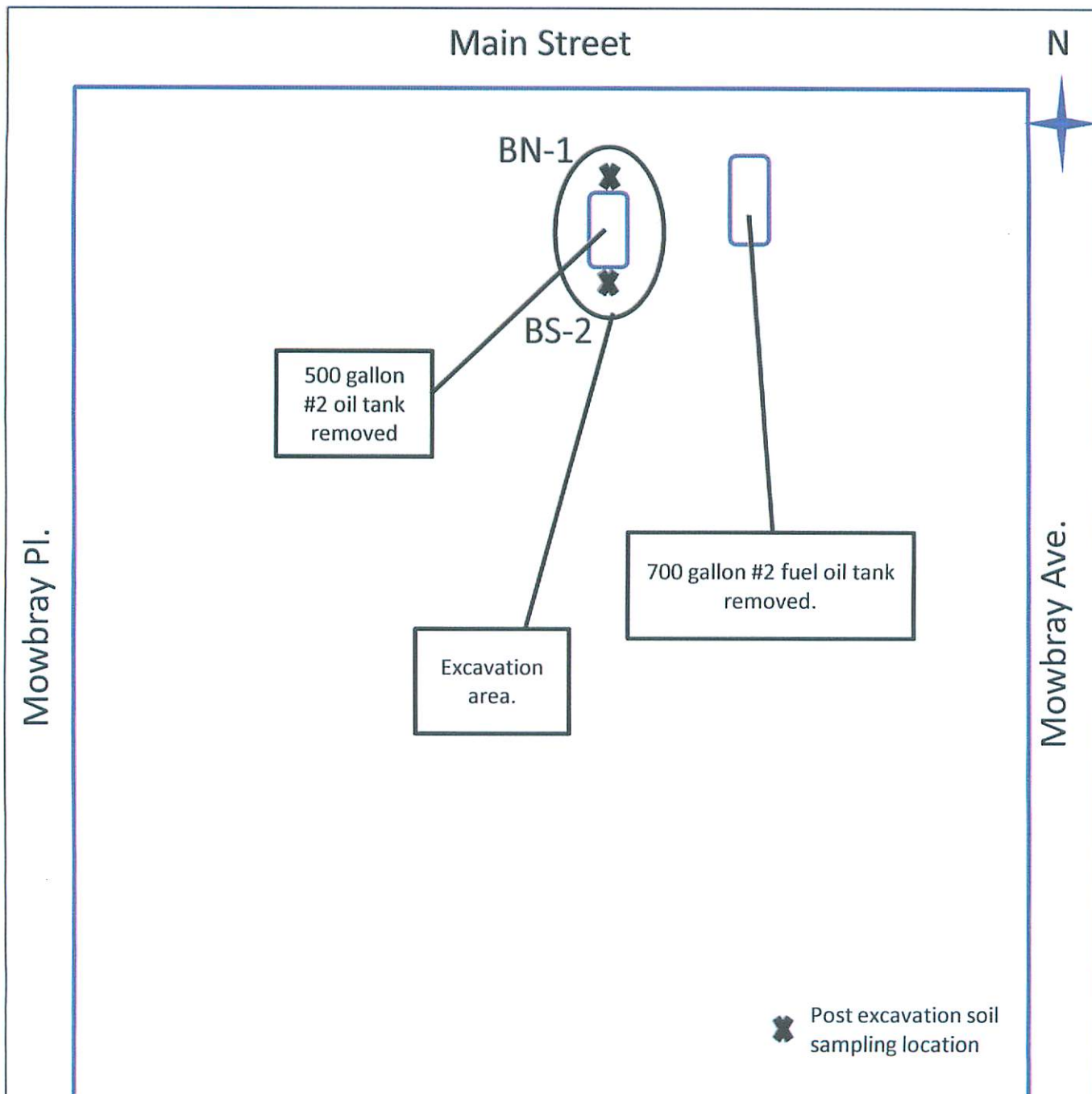
U=analyte not detected at or above the level indicated

B=analyte found in the analysis batch blank

E=result is estimated and cannot be accurately reported due to levels encountered or interferences

NT=this indicates the analyte was not a target for this sample

~=this indicates that no regulatory limit has been established for this analyte



UST Excavation & Soil Remediation

Figure 1

250 E. Main St.
Bay Shore, New York
Date: 1/28/2015

NYSDEC SPILL #: 1409871
Scale: NTS
Drawn by: BMG

3-200 North of Cortland
24 Middlesex Avenue
Cortland, NJ 07008
P: (732) 541-8989 Fa: (732) 541-0105

Ticket: 700000181216

Date	Time	Scale
In: 1/21/2015	11:54:57	Scale CE
Out: 1/21/2015	11:55:27	P.L.

Manifest: 000504
Vehicle ID: 07PRINC502

	Lbs	Tns
Gross: 81080	80.60	
Tare: 27020	12.51	
Net: 54060	27.14	

Customer: BROOKSIDE ENVIRONMENTAL

Generator: Elm East Main Street, LLC	Facility Approval: 153072245
Gen Address: 250 E. Main Street	Job Name: E. Main 85/750 East Main Blvd
Bay Shore, NY 11706	Job Address: 250 E. Main Street
	Bay Shore, NY 11706

Driver: Materials & Services

Quantity Unit

Suffolk: Soil Treatment Type II 27.14 Tns

Contaminate Type: 3 Oil

Treatment Type: Bio

Fac Waste Code: Petroleum Contaminated Soil

Consent:

Driver: _____

Facility: _____
Dudash, Mike

FACILITY

Class Park of Carteret
34 McClellan Avenue
Carteret, NJ 07008
Ph: (732) 541-8909 Fax: (732) 541-8125

Ticket: 70000012.253
Date Time Scale
In: 1/21/2015 12:17:05 Scale 05
Out: 1/21/2015 12:17:27 P.L.

Manifest: 992525
Vehicle ID: 07PKIND501

	Lbs	Tns
Gross:	60260	00.13
Tare:	38256	11.13
Net:	32000	16.70

Customer: BROOKSIDE ENVIRONMENTAL, I

Facility Approval: 153070045

Generator: 250 East Main Street, LLC
Ben Pomeroy: 250 E. Main Street
Bay Shore, NY 11706

Job Address: E. Main Street East Main Street
Job Address: 250 E. Main Street
Bay Shore, NY 11706

Material: Materials & Services

Quantity Unit

Suffolk Soil Treatment Type II

15.00 Tls

Contaminant Type: 2 Oil

Treatment Type: Bio

Fac Waste Code: Petroleum Contaminated Soil

Comments:

Driver: _____

Facility: _____
Ludash, Mike

FACILITY



Technical Report

prepared for:

Brookside Environmental, Inc.
22 Ocean Avenue
Copiague NY, 11726
Attention: Brian Gaudreault

Report Date: 01/19/2015
Client Project ID: 250 E. Main St
York Project (SDG) No.: 15A0283

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

120 RESEARCH DRIVE

STRATFORD, CT 06615

(203) 325-1371

FAX (203) 357-0166

Report Date: 01/19/2015
Client Project ID: 250 E. Main St
York Project (SDG) No.: 15A0283

Brookside Environmental, Inc.
22 Ocean Avenue
Copiague NY, 11726
Attention: Brian Gaudreault

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on January 12, 2015 and listed below. The project was identified as your project: **250 E. Main St.**

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
15A0283-01	BN-1	Soil	01/09/2015	01/12/2015
15A0283-02	BS-2	Soil	01/09/2015	01/12/2015

General Notes for York Project (SDG) No.: 15A0283

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

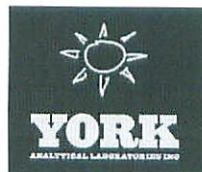
Approved By:



Benjamin Gulizia
Laboratory Director

Date: 01/19/2015





Sample Information

Client Sample ID: BN-1

York Sample ID: 15A0283-01

York Project (SDG) No.
15A0283

Client Project ID
250 E. Main St

Matrix
Soil

Collection Date/Time
January 9, 2015 3:00 pm

Date Received
01/12/2015

Volatile Organics, CP-51 (formerly STARS) List

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-43-2	Benzene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C	01/17/2015 08:54	01/17/2015 16:31	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C	01/17/2015 08:54	01/17/2015 16:31	BK
108-88-3	Toluene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C	01/17/2015 08:54	01/17/2015 16:31	BK
95-47-6	o-Xylene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C	01/17/2015 08:54	01/17/2015 16:31	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.7	11	1	EPA 8260C	01/17/2015 08:54	01/17/2015 16:31	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C	01/17/2015 08:54	01/17/2015 16:31	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C	01/17/2015 08:54	01/17/2015 16:31	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C	01/17/2015 08:54	01/17/2015 16:31	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C	01/17/2015 08:54	01/17/2015 16:31	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C	01/17/2015 08:54	01/17/2015 16:31	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C	01/17/2015 08:54	01/17/2015 16:31	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C	01/17/2015 08:54	01/17/2015 16:31	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.8	5.7	1	EPA 8260C	01/17/2015 08:54	01/17/2015 16:31	BK
91-20-3	Naphthalene	ND		ug/kg dry	2.8	11	1	EPA 8260C	01/17/2015 08:54	01/17/2015 16:31	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.8	5.7	1	EPA 8260C	01/17/2015 08:54	01/17/2015 16:31	BK
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.5	17	1	EPA 8260C	01/17/2015 08:54	01/17/2015 16:31	BK
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	112 %			77-125						
460-00-4	Surrogate: p-Bromofluorobenzene	98.3 %			76-130						
2037-26-5	Surrogate: Toluene-d8	100 %			85-120						

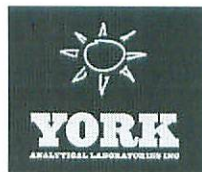
Semi-Volatiles, CP-51 (formerly STARS) List

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	24	47	1	EPA 8270D	01/15/2015 14:01	01/17/2015 00:39	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	24	47	1	EPA 8270D	01/15/2015 14:01	01/17/2015 00:39	KH
120-12-7	Anthracene	ND		ug/kg dry	24	47	1	EPA 8270D	01/15/2015 14:01	01/17/2015 00:39	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	24	47	1	EPA 8270D	01/15/2015 14:01	01/17/2015 00:39	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	24	47	1	EPA 8270D	01/15/2015 14:01	01/17/2015 00:39	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	24	47	1	EPA 8270D	01/15/2015 14:01	01/17/2015 00:39	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	24	47	1	EPA 8270D	01/15/2015 14:01	01/17/2015 00:39	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	24	47	1	EPA 8270D	01/15/2015 14:01	01/17/2015 00:39	KH
218-01-9	Chrysene	ND		ug/kg dry	24	47	1	EPA 8270D	01/15/2015 14:01	01/17/2015 00:39	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	24	47	1	EPA 8270D	01/15/2015 14:01	01/17/2015 00:39	KH
206-44-0	Fluoranthene	ND		ug/kg dry	24	47	1	EPA 8270D	01/15/2015 14:01	01/17/2015 00:39	KH
86-73-7	Fluorene	ND		ug/kg dry	24	47	1	EPA 8270D	01/15/2015 14:01	01/17/2015 00:39	KH



Sample Information

Client Sample ID: BN-1

York Sample ID: 15A0283-01

York Project (SDG) No.
15A0283

Client Project ID
250 E. Main St

Matrix
Soil

Collection Date/Time
January 9, 2015 3:00 pm

Date Received
01/12/2015

Semi-Volatiles, CP-51 (formerly STARS) List

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	24	47	1	EPA 8270D	01/15/2015 14:01	01/17/2015 00:39	KH
91-20-3	Naphthalene	ND		ug/kg dry	24	47	1	EPA 8270D	01/15/2015 14:01	01/17/2015 00:39	KH
85-01-8	Phenanthrene	ND		ug/kg dry	24	47	1	EPA 8270D	01/15/2015 14:01	01/17/2015 00:39	KH
129-00-0	Pyrene	ND		ug/kg dry	24	47	1	EPA 8270D	01/15/2015 14:01	01/17/2015 00:39	KH
Surrogate Recoveries		Result		Acceptance Range							
4165-60-0	Surrogate: Nitrobenzene-d5	44.7 %			10-119						
321-60-8	Surrogate: 2-Fluorobiphenyl	44.7 %			10-114						
1718-51-0	Surrogate: Terphenyl-d14	43.1 %			10-123						

Metals, NYSDEC Part 375

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		mg/kg dry	1.13	1.13	1	EPA 6010C	01/13/2015 13:23	01/13/2015 19:25	MW
7440-39-3	Barium	4.73		mg/kg dry	1.13	1.13	1	EPA 6010C	01/13/2015 13:23	01/13/2015 19:25	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.113	0.113	1	EPA 6010C	01/13/2015 13:23	01/13/2015 19:25	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.340	0.340	1	EPA 6010C	01/13/2015 13:23	01/13/2015 19:25	MW
7440-47-3	Chromium	1.28		mg/kg dry	0.566	0.566	1	EPA 6010C	01/13/2015 13:23	01/13/2015 19:25	MW
7440-50-8	Copper	1.21		mg/kg dry	0.566	0.566	1	EPA 6010C	01/13/2015 13:23	01/13/2015 19:25	MW
7439-92-1	Lead	6.28		mg/kg dry	0.340	0.340	1	EPA 6010C	01/13/2015 13:23	01/13/2015 19:25	MW
7439-96-5	Manganese	9.98		mg/kg dry	0.566	0.566	1	EPA 6010C	01/13/2015 13:23	01/13/2015 19:25	MW
7440-02-0	Nickel	0.832		mg/kg dry	0.566	0.566	1	EPA 6010C	01/13/2015 13:23	01/13/2015 19:25	MW
7782-49-2	Selenium	ND		mg/kg dry	1.13	1.13	1	EPA 6010C	01/13/2015 13:23	01/13/2015 19:25	MW
7440-22-4	Silver	ND		mg/kg dry	0.566	0.566	1	EPA 6010C	01/13/2015 13:23	01/13/2015 19:25	MW
7440-66-6	Zinc	11.6		mg/kg dry	1.13	1.13	1	EPA 6010C	01/13/2015 13:23	01/13/2015 19:25	MW

Mercury by 7473

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0340	0.0340	1	EPA 7473	01/13/2015 11:52	01/14/2015 07:00	ALD



Sample Information

Client Sample ID: BN-1

York Sample ID: 15A0283-01

York Project (SDG) No.
15A0283

Client Project ID
250 E. Main St

Matrix
Soil

Collection Date/Time
January 9, 2015 3:00 pm

Date Received
01/12/2015

Total Solids

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	88.3		%	0.100	0.100	1	SM 2540G	01/14/2015 11:43	01/15/2015 16:32	KK

Sample Information

Client Sample ID: BS-2

York Sample ID: 15A0283-02

York Project (SDG) No.
15A0283

Client Project ID
250 E. Main St

Matrix
Soil

Collection Date/Time
January 9, 2015 3:00 pm

Date Received
01/12/2015

Volatile Organics, CP-51 (formerly STARS) List

Log-in Notes: VOA-CONT

Sample Notes:

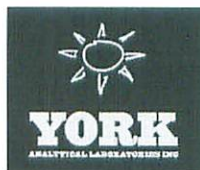
Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-43-2	Benzene	ND		ug/kg dry	3.0	6.1	1	EPA 8260C	01/19/2015 08:15	01/19/2015 12:20	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	3.0	6.1	1	EPA 8260C	01/19/2015 08:15	01/19/2015 12:20	BK
108-88-3	Toluene	ND		ug/kg dry	3.0	6.1	1	EPA 8260C	01/19/2015 08:15	01/19/2015 12:20	BK
95-47-6	o-Xylene	ND		ug/kg dry	3.0	6.1	1	EPA 8260C	01/19/2015 08:15	01/19/2015 12:20	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	6.1	12	1	EPA 8260C	01/19/2015 08:15	01/19/2015 12:20	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	3.0	6.1	1	EPA 8260C	01/19/2015 08:15	01/19/2015 12:20	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	3.0	6.1	1	EPA 8260C	01/19/2015 08:15	01/19/2015 12:20	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	3.0	6.1	1	EPA 8260C	01/19/2015 08:15	01/19/2015 12:20	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	3.0	6.1	1	EPA 8260C	01/19/2015 08:15	01/19/2015 12:20	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	3.0	6.1	1	EPA 8260C	01/19/2015 08:15	01/19/2015 12:20	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	3.0	6.1	1	EPA 8260C	01/19/2015 08:15	01/19/2015 12:20	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	3.0	6.1	1	EPA 8260C	01/19/2015 08:15	01/19/2015 12:20	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.0	6.1	1	EPA 8260C	01/19/2015 08:15	01/19/2015 12:20	BK
91-20-3	Naphthalene	ND		ug/kg dry	3.0	12	1	EPA 8260C	01/19/2015 08:15	01/19/2015 12:20	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	3.0	6.1	1	EPA 8260C	01/19/2015 08:15	01/19/2015 12:20	BK
1330-20-7	Xylenes, Total	ND		ug/kg dry	9.1	18	1	EPA 8260C	01/19/2015 08:15	01/19/2015 12:20	BK
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	102 %	77-125								
460-00-4	Surrogate: p-Bromofluorobenzene	97.6 %	76-130								
2037-26-5	Surrogate: Toluene-d8	101 %	85-120								

Semi-Volatiles, CP-51 (formerly STARS) List

Log-in Notes: VOA-CONT

Sample Notes:



Sample Information

Client Sample ID: BS-2

York Sample ID: 15A0283-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15A0283

250 E. Main St

Soil

January 9, 2015 3:00 pm

01/12/2015

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	25	51	1	EPA 8270D	01/15/2015 14:01	01/17/2015 01:12	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	25	51	1	EPA 8270D	01/15/2015 14:01	01/17/2015 01:12	KH
120-12-7	Anthracene	ND		ug/kg dry	25	51	1	EPA 8270D	01/15/2015 14:01	01/17/2015 01:12	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	25	51	1	EPA 8270D	01/15/2015 14:01	01/17/2015 01:12	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	25	51	1	EPA 8270D	01/15/2015 14:01	01/17/2015 01:12	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	25	51	1	EPA 8270D	01/15/2015 14:01	01/17/2015 01:12	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	25	51	1	EPA 8270D	01/15/2015 14:01	01/17/2015 01:12	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	25	51	1	EPA 8270D	01/15/2015 14:01	01/17/2015 01:12	KH
218-01-9	Chrysene	ND		ug/kg dry	25	51	1	EPA 8270D	01/15/2015 14:01	01/17/2015 01:12	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	25	51	1	EPA 8270D	01/15/2015 14:01	01/17/2015 01:12	KH
206-44-0	Fluoranthene	ND		ug/kg dry	25	51	1	EPA 8270D	01/15/2015 14:01	01/17/2015 01:12	KH
86-73-7	Fluorene	ND		ug/kg dry	25	51	1	EPA 8270D	01/15/2015 14:01	01/17/2015 01:12	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	25	51	1	EPA 8270D	01/15/2015 14:01	01/17/2015 01:12	KH
91-20-3	Naphthalene	ND		ug/kg dry	25	51	1	EPA 8270D	01/15/2015 14:01	01/17/2015 01:12	KH
85-01-8	Phenanthrene	ND		ug/kg dry	25	51	1	EPA 8270D	01/15/2015 14:01	01/17/2015 01:12	KH
129-00-0	Pyrene	ND		ug/kg dry	25	51	1	EPA 8270D	01/15/2015 14:01	01/17/2015 01:12	KH
Surrogate Recoveries		Result			Acceptance Range						
4165-60-0	Surrogate: Nitrobenzene-d5	44.9 %			10-119						
321-60-8	Surrogate: 2-Fluorobiphenyl	49.8 %			10-114						
1718-51-0	Surrogate: Terphenyl-d14	48.9 %			10-123						

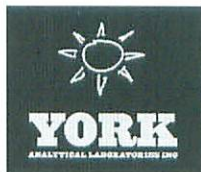
Metals, NYSDEC Part 375

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		mg/kg dry	1.21	1.21	1	EPA 6010C	01/13/2015 13:23	01/13/2015 19:30	MW
7440-39-3	Barium	5.79		mg/kg dry	1.21	1.21	1	EPA 6010C	01/13/2015 13:23	01/13/2015 19:30	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.121	0.121	1	EPA 6010C	01/13/2015 13:23	01/13/2015 19:30	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.364	0.364	1	EPA 6010C	01/13/2015 13:23	01/13/2015 19:30	MW
7440-47-3	Chromium	1.64		mg/kg dry	0.606	0.606	1	EPA 6010C	01/13/2015 13:23	01/13/2015 19:30	MW
7440-50-8	Copper	1.12		mg/kg dry	0.606	0.606	1	EPA 6010C	01/13/2015 13:23	01/13/2015 19:30	MW
7439-92-1	Lead	8.41		mg/kg dry	0.364	0.364	1	EPA 6010C	01/13/2015 13:23	01/13/2015 19:30	MW
7439-96-5	Manganese	5.40		mg/kg dry	0.606	0.606	1	EPA 6010C	01/13/2015 13:23	01/13/2015 19:30	MW
7440-02-0	Nickel	0.993		mg/kg dry	0.606	0.606	1	EPA 6010C	01/13/2015 13:23	01/13/2015 19:30	MW
7782-49-2	Selenium	ND		mg/kg dry	1.21	1.21	1	EPA 6010C	01/13/2015 13:23	01/13/2015 19:30	MW
7440-22-4	Silver	ND		mg/kg dry	0.606	0.606	1	EPA 6010C	01/13/2015 13:23	01/13/2015 19:30	MW
7440-66-6	Zinc	6.36		mg/kg dry	1.21	1.21	1	EPA 6010C	01/13/2015 13:23	01/13/2015 19:30	MW



Sample Information

Client Sample ID: BS-2

York Sample ID: 15A0283-02

York Project (SDG) No.
15A0283

Client Project ID
250 E. Main St

Matrix
Soil

Collection Date/Time
January 9, 2015 3:00 pm

Date Received
01/12/2015

Mercury by 7473

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0364	0.0364	1	EPA 7473	01/13/2015 11:52	01/14/2015 07:07	ALD

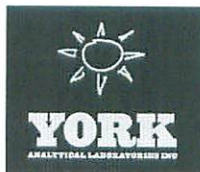
Total Solids

Log-in Notes: VOA-CONT

Sample Notes:

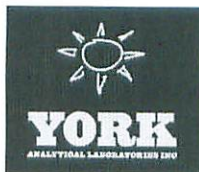
Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	82.5		%	0.100	0.100	1	SM 2540G	01/14/2015 11:43	01/15/2015 16:32	KK



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
15A0283-01	BN-1	4 oz. WM Clear Glass Cool to 4° C
15A0283-02	BS-2	4 oz. WM Clear Glass Cool to 4° C



Notes and Definitions

VOA-CONT NON-COMPLIANT- the container(s) provided by the client for soil volatiles do not meet the requirements of EPA SW846-5035A. Results reported below 200 ug/kg may be biased low due to samples not being collected according to EPA SW846 5035A requirements.

J Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.

B Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.

* Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.

ND NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)

RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.

LOQ LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.

LOD LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.

MDL METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.

Reported to This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.

NR Not reported

RPD Relative Percent Difference

Wet The data has been reported on an as-received (wet weight) basis

Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.



WORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
STRATFORD, CT 06615
(203) 325-1371
FAX (203) 357-0166

Field Chain-of-Custody Record

Page 1 of 2

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

York Project No. 15A0283

YOUR Information		Report To:		Invoice To:		YOUR Project ID		Turn-Around Time		Report Type	
Company: <u>Brookside Env.</u>	Company: <u>SAFE</u>	Company: <u>SAFE</u>	Company: <u>SAFE</u>	Purchase Order No.		250 E. Main St.		RUSH - Same Day	Summary Report	Summary w/ QA Summary	
Address: <u>22 Ocean Ave</u>	Address:	Address:	Address:					RUSH - Next Day	CT RCP Package	CT RCP Package	
Phone No: <u>609-881-8810</u>	Phone No:	Phone No:	Phone No:					RUSH - Two Day	CT RCP DQA/DUE Pkg	CT RCP DQA/DUE Pkg	
Contact Person: <u>Brian Gaudreault</u>	Attention:	Attention:	Attention:					RUSH - Three Day	NY ASP A Package	NY ASP A Package	
E-Mail Address: <u>brian.gaudreault@brooksideenv.com</u>	E-Mail Address:	E-Mail Address:	E-Mail Address:					RUSH - Four Day	NY ASP B Package	NY ASP B Package	
									Standard (5-7 Days) <input checked="" type="checkbox"/>		
									Electronic Data Deliverables (EDD) <input type="checkbox"/>		
									Simple Excel <input type="checkbox"/>		
									NY SDEC EQuls <input type="checkbox"/>		
									EQuls (std) <input type="checkbox"/>		
									EZ-4DD (EQuls) <input type="checkbox"/>		
									NJDEP SRP HazSite EDD <input type="checkbox"/>		
									GIS KEY (std) <input type="checkbox"/>		
									Other <input type="checkbox"/>		
									York Regulatory Comparison <input type="checkbox"/>		
									Level Spreadsheet <input type="checkbox"/>		
									Compare to the following Reg. please fill in: <input type="checkbox"/>		

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
BN-1	1/9/15	S	CP51 - VOCs, CP51 SVOCs, CP51 Total Metals	2 x 8oz, 2 x 4oz
BS-2	1/9/15	S	CP51 - VOCs, CP51 SVOCs, CP51 Total Metals	2 x 8oz, 2 x 4oz

Matrix Codes	Volatiles	Semi-Volatiles	Metals	Misc. Org.	Full Lists	Misc.
S - soil	260 full	8270 or 625	IC RAS	TPH GRO	Full P&H	misc.
Other - specify matrix	624	STARS list	PPL3 list	TPH DRO	Full Oxygens	Reactivity
WW - wastewater	STARS list	IN Only	ICAL	CT ETPH	Full AASCS	Ignitability
GW - groundwater	STARS list	Acids Only	CT RCP	NY 310-11	Full TCLP	Flash Point
DW - drinking water	STARS list	PAH list	App. IX	TPH 1664	Full App. IX	Sieve Anal.
Air - ambient air	STARS list	ICM list	STARS list	Air TO14V	Part 500/500a	Reactivity
Air - soil vapor	STARS list	CT RCP list	STARS list	Air TO15	Part 500/500a	Ignitability
	STARS list	ICM list	STARS list	Air SHARS	Part 500/500a	Flash Point
	STARS list	ICM list	STARS list	Air VPI	Part 500/500a	Reactivity
	STARS list	ICM list	STARS list	Air HCS	Part 500/500a	Ignitability
	STARS list	ICM list	STARS list	Air HCS	Part 500/500a	Flash Point
	STARS list	ICM list	STARS list	Air HCS	Part 500/500a	Reactivity
	STARS list	ICM list	STARS list	Air HCS	Part 500/500a	Ignitability
	STARS list	ICM list	STARS list	Air HCS	Part 500/500a	Flash Point
	STARS list	ICM list	STARS list	Air HCS	Part 500/500a	Reactivity
	STARS list	ICM list	STARS list	Air HCS	Part 500/500a	Ignitability
	STARS list	ICM list	STARS list	Air HCS	Part 500/500a	Flash Point
	STARS list	ICM list	STARS list	Air HCS	Part 500/500a	Reactivity
	STARS list	ICM list	STARS list	Air HCS	Part 500/500a	Ignitability
	STARS list	ICM list	STARS list	Air HCS	Part 500/500a	Flash Point
	STARS list	ICM list	STARS list	Air HCS	Part 500/500a	Reactivity
	STARS list	ICM list	STARS list	Air HCS	Part 500/500a	Ignitability
	STARS list	ICM list	STARS list	Air HCS	Part 500/500a	Flash Point
	STARS list	ICM list	STARS list	Air HCS	Part 500/500a	Reactivity
	STARS list	ICM list	STARS list	Air HCS	Part 500/500a	Ignitability
	STARS list	ICM list	STARS list	Air HCS	Part 500/500a	Flash Point
	STARS list	ICM list	STARS list	Air HCS	Part 500/500a	Reactivity
	STARS list	ICM list	STARS list	Air HCS	Part 500/500a	Ignitability
	STARS list	ICM list	STARS list	Air HCS	Part 500/500a	Flash Point
	STARS list	ICM list	STARS list	Air HCS	Part 500/500a	Reactivity
	STARS list	ICM list	STARS list	Air HCS	Part 500/500a	Ignitability
	STARS list	ICM list	STARS list	Air HCS	Part 500/500a	Flash Point
	STARS list	ICM list	STARS list	Air HCS	Part 500/500a	Reactivity
	STARS list	ICM list	STARS list	Air HCS	Part 500/500a	Ignitability
	STARS list	ICM list</				

250 E. Main Street
Bay Shore, New York
11706
Spill # 1409871



South



West