2016
PJWWTP
Liquid Sludge Removal

Sludge Removed- **1,898,900 gallons**

Approximate % solids average 2.51 %

Gal Removed		Ton/Gal		% Solids		
1,898,900	x	.00417	x	.0251		
1.1 Tons					=	181 Dry Metric Tons

Technical Report

prepared for:

Earthcare
80 Dennings Avenue
Beacon NY, 12508
Attention: Andrew Uveges

Report Date: 04/21/2015
Client Project ID: Port Jervis Sludge 4/13/15
York Project (SDG) No.: 15D0535

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: 04/21/2015
Client Project ID: Port Jervis Sludge 4/13/15
York Project (SDG) No.: 15D0535

Earthcare
80 Dennings Avenue
Beacon NY, 12508
Attention: Andrew Uveges

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 April 14, 2015 and listed below. The project was identified as your project: **Port Jervis Sludge 4/13/15.**

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.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
15D0535-01	PORT JERVIS SLUDGE	Sludge	04/13/2015	04/14/2015

General Notes for York Project (SDG) No.: 15D0535

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: **Date:** 04/21/2015

Benjamin Gulizia
Laboratory Director

YORK

Sample Information

Client Sample ID: PORT JERVIS SLUDGE

York Sample ID: 15D0535-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15D0535	Port Jervis Sludge 4/13/15	Sludge	April 13, 2015 8:00 am	04/14/2015

Volatile Organics, TCLP RCRA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-35-4	1,1-Dichloroethylene	ND		ug/L	13	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/17/2015 08:39	04/17/2015 16:37	BK
107-06-2	1,2-Dichloroethane	ND		ug/L	6.5	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/17/2015 08:39	04/17/2015 16:37	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/L	6.8	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/17/2015 08:39	04/17/2015 16:37	BK
78-93-3	2-Butanone	ND		ug/L	26	100	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/17/2015 08:39	04/17/2015 16:37	BK
71-43-2	Benzene	ND		ug/L	4.8	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/17/2015 08:39	04/17/2015 16:37	BK
56-23-5	Carbon tetrachloride	ND		ug/L	10	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/17/2015 08:39	04/17/2015 16:37	BK
108-90-7	Chlorobenzene	ND		ug/L	3.5	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/17/2015 08:39	04/17/2015 16:37	BK
67-66-3	Chloroform	ND		ug/L	3.6	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/17/2015 08:39	04/17/2015 16:37	BK
127-18-4	Tetrachloroethylene	ND		ug/L	5.2	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/17/2015 08:39	04/17/2015 16:37	BK
79-01-6	Trichloroethylene	ND		ug/L	5.7	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/17/2015 08:39	04/17/2015 16:37	BK
75-01-4	Vinyl Chloride	ND		ug/L	9.7	50	10	EPA 8260C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/17/2015 08:39	04/17/2015 16:37	BK

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*95.3 %*	*81-123*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*95.9 %*	*70-128*
2037-26-5	*Surrogate: Toluene-d8*	*103 %*	*88-114*

Semi-Volatiles, TCLP RCRA Target List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1319-77-3	Cresols, total	421		ug/L	74.0	300	10	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854	04/17/2015 08:06	04/20/2015 02:47	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/L	6.45	10.0	1	EPA 8270D/1311 Certifications: NELAC-NY10854	04/17/2015 08:06	04/18/2015 00:38	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	4.73	10.0	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP	04/17/2015 08:06	04/18/2015 00:38	SR
118-74-1	Hexachlorobenzene	ND		ug/L	5.91	10.0	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP	04/17/2015 08:06	04/18/2015 00:38	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	6.62	10.0	1	EPA 8270D/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP	04/17/2015 08:06	04/18/2015 00:38	SR

Sample Information

Client Sample ID: PORT JERVIS SLUDGE

York Sample ID: 15D0535-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15D0535	Port Jervis Sludge 4/13/15	Sludge	April 13, 2015 8:00 am	04/14/2015

Semi-Volatiles, TCLP RCRA Target List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-72-1	Hexachloroethane	ND		ug/L	7.26	10.0	1	EPA 8270D/1311	04/17/2015 08:06	04/18/2015 00:38	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
95-48-7	2-Methylphenol	ND		ug/L	1.71	10.0	1	EPA 8270D/1311	04/17/2015 08:06	04/18/2015 00:38	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
65794-96-9	3- & 4-Methylphenols	421		ug/L	74.3	200	10	EPA 8270D/1311	04/17/2015 08:06	04/20/2015 02:47	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
98-95-3	Nitrobenzene	ND		ug/L	3.93	10.0	1	EPA 8270D/1311	04/17/2015 08:06	04/18/2015 00:38	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
87-86-5	Pentachlorophenol	ND		ug/L	7.53	10.0	1	EPA 8270D/1311	04/17/2015 08:06	04/18/2015 00:38	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
110-86-1	Pyridine	ND		ug/L	6.37	10.0	1	EPA 8270D/1311	04/17/2015 08:06	04/18/2015 00:38	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	7.22	10.0	1	EPA 8270D/1311	04/17/2015 08:06	04/18/2015 00:38	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	6.54	10.0	1	EPA 8270D/1311	04/17/2015 08:06	04/18/2015 00:38	SR
								Certifications: CTDOH,NELAC-NY10854,NJDEP			

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*38.8 %*	*10-65*
4165-62-2	*Surrogate: Phenol-d5*	*27.2 %*	*10-49*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*42.4 %*	*10-96*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*41.2 %*	*10-93*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*56.0 %*	*10-128*
1718-51-0	*Surrogate: Terphenyl-d14*	*76.5 %*	*10-100*

Pesticides, TCLP RCRA List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
8001-35-2	Toxaphene	ND		ug/L	0.690	0.690	1	EPA 8081B/1311	04/17/2015 07:59	04/20/2015 17:18	JW
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
72-43-5	Methoxychlor	ND		ug/L	0.0690	0.0690	1	EPA 8081B/1311	04/17/2015 07:59	04/20/2015 17:18	JW
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
1024-57-3	Heptachlor epoxide	ND		ug/L	0.0138	0.0138	1	EPA 8081B/1311	04/17/2015 07:59	04/20/2015 17:18	JW
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
76-44-8	Heptachlor	ND		ug/L	0.0138	0.0138	1	EPA 8081B/1311	04/17/2015 07:59	04/20/2015 17:18	JW
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.0138	0.0138	1	EPA 8081B/1311	04/17/2015 07:59	04/20/2015 17:18	JW
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
72-20-8	Endrin	ND		ug/L	0.0138	0.0138	1	EPA 8081B/1311	04/17/2015 07:59	04/20/2015 17:18	JW
								Certifications: CTDOH,NELAC-NY10854,NJDEP			
57-74-9	Chlordane, total	ND		ug/L	0.0552	0.0552	1	EPA 8081B/1311	04/17/2015 07:59	04/20/2015 17:18	JW
								Certifications: CTDOH,NELAC-NY10854,NJDEP			

Sample Information

Client Sample ID: PORT JERVIS SLUDGE **York Sample ID:** 15D0535-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15D0535	Port Jervis Sludge 4/13/15	Sludge	April 13, 2015 8:00 am	04/14/2015

Pesticides, TCLP RCRA List

Log-in Notes: **Sample Notes:** EXT-EM

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**							
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*74.4 %*		*30-120*							
2051-24-3	*Surrogate: Decachlorobiphenyl*	*66.5 %*		*30-120*							

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	2.29	2.29	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	04/20/2015 18:00	04/21/2015 14:09	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	2.29	2.29	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	04/20/2015 18:00	04/21/2015 14:09	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	2.29	2.29	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	04/20/2015 18:00	04/21/2015 14:09	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	2.29	2.29	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	04/20/2015 18:00	04/21/2015 14:09	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	2.29	2.29	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	04/20/2015 18:00	04/21/2015 14:09	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	2.29	2.29	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	04/20/2015 18:00	04/21/2015 14:09	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	2.29	2.29	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	04/20/2015 18:00	04/21/2015 14:09	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	2.29	2.29	1	EPA 8082A Certifications:	04/20/2015 18:00	04/21/2015 14:09	AMC
	Surrogate Recoveries	**Result**		**Acceptance Range**							
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*46.3 %*		*30-140*							
2051-24-3	*Surrogate: Decachlorobiphenyl*	*49.8 %*		*30-140*							

Herbicides, TCLP Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3535A/1311

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
94-75-7	2,4-D	ND		ug/L	5.00	5.00	1	EPA 8151A m/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP	04/20/2015 06:27	04/20/2015 18:25	JW
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	5.00	1	EPA 8151A m/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP	04/20/2015 06:27	04/20/2015 18:25	JW
	Surrogate Recoveries	**Result**		**Acceptance Range**							
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)*	*98.4 %*		*30-150*							

Aluminum by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: PORT JERVIS SLUDGE **York Sample ID:** 15D0535-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15D0535	Port Jervis Sludge 4/13/15	Sludge	April 13, 2015 8:00 am	04/14/2015

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	12800		mg/kg dry	45.8	45.8	1	EPA 6010C	04/15/2015 12:55	04/15/2015 21:16	MW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		

Arsenic by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		mg/kg dry	45.8	45.8	1	EPA 6010C	04/15/2015 12:55	04/15/2015 21:16	MW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Barium by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-39-3	Barium	210		mg/kg dry	45.8	45.8	1	EPA 6010C	04/15/2015 12:55	04/15/2015 21:16	MW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Cadmium by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	Cadmium	ND		mg/kg dry	13.7	13.7	1	EPA 6010C	04/15/2015 12:55	04/15/2015 21:16	MW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Chromium by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	Chromium	ND		mg/kg dry	22.9	22.9	1	EPA 6010C	04/15/2015 12:55	04/15/2015 21:16	MW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Cobalt by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-48-4	Cobalt	ND		mg/kg dry	22.9	22.9	1	EPA 6010C	04/15/2015 12:55	04/15/2015 21:16	MW
								Certifications	CTDOH,NELAC-NY10854,NJDEP		

Copper by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	355		mg/kg dry	22.9	22.9	1	EPA 6010C	04/15/2015 12:55	04/15/2015 21:16	MW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		

Iron by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: PORT JERVIS SLUDGE **York Sample ID:** 15D0535-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15D0535	Port Jervis Sludge 4/13/15	Sludge	April 13, 2015 8:00 am	04/14/2015

Iron by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	9090		mg/kg dry	91.6	91.6	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/15/2015 12:55	04/15/2015 21:16	MW

Lead by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	63.6		mg/kg dry	13.7	13.7	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/15/2015 12:55	04/15/2015 21:16	MW

Magnesium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	Magnesium	1930		mg/kg dry	20.6	229	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/15/2015 12:55	04/15/2015 21:16	MW

Manganese by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	392		mg/kg dry	22.9	22.9	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	04/15/2015 12:55	04/15/2015 21:16	MW

Metals, TCLP RCRA

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A/1311

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/17/2015 13:55	04/17/2015 23:01	MW
7440-39-3	Barium	1.21		mg/L	0.010	0.010	1	EPA 6010C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/17/2015 13:55	04/17/2015 23:01	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/17/2015 13:55	04/17/2015 23:01	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/17/2015 13:55	04/17/2015 23:01	MW
7439-92-1	Lead	0.006		mg/L	0.003	0.003	1	EPA 6010C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/17/2015 13:55	04/17/2015 23:01	MW
7782-49-2	Selenium	ND		mg/L	0.010	0.010	1	EPA 6010C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP	04/17/2015 13:55	04/17/2015 23:01	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	04/17/2015 13:55	04/17/2015 23:01	MW

Nickel by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: PORT JERVIS SLUDGE

York Sample ID: 15D0535-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15D0535	Port Jervis Sludge 4/13/15	Sludge	April 13, 2015 8:00 am	04/14/2015

Nickel by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-02-0	Nickel	ND		mg/kg dry	22.9	22.9	1	EPA 6010C	04/15/2015 12:55	04/15/2015 21:16	MW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Potassium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	Potassium	2580		mg/kg dry	229	229	1	EPA 6010C	04/15/2015 12:55	04/15/2015 21:16	MW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		

Selenium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7782-49-2	Selenium	ND		mg/kg dry	45.8	45.8	1	EPA 6010C	04/15/2015 12:55	04/15/2015 21:16	MW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sodium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	Sodium	3580		mg/kg dry	458	458	1	EPA 6010C	04/15/2015 12:55	04/15/2015 21:16	MW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		

Zinc by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	Zinc	1630		mg/kg dry	45.8	45.8	1	EPA 6010C	04/15/2015 12:55	04/15/2015 21:16	MW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		

Molybdenum by 6020

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-98-7	Molybdenum	ND		mg/kg dry	45.8	45.8	10	EPA 6020A	04/16/2015 09:04	04/16/2015 18:17	MW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		

Mercury by 7473

Log-in Notes: **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	1.37	1.37	1	EPA 7473	04/15/2015 06:43	04/15/2015 11:02	ALD
								Certifications:	CTDOH,NJDEP,NELAC-NY10854,PADEP		

Sample Information

Client Sample ID: PORT JERVIS SLUDGE **York Sample ID:** 15D0535-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15D0535	Port Jervis Sludge 4/13/15	Sludge	April 13, 2015 8:00 am	04/14/2015

Mercury TCLP by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 water

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/L	0.0000390	0.000200	1	EPA 7473/1311	04/17/2015 11:46	04/18/2015 15:29	ALD
								Certifications: CTDOH,NJDEP,PADEP,NELAC-NY10854			

Total Solids

Log-in Notes: **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	2.18		%	0.100	0.100	1	SM 2540G	04/20/2015 15:21	04/21/2015 16:04	KK
								Certifications: CTDOH			

Volatile Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Volatile Solids	84.4		%	0.100	0.100	1	SM 2540G	04/15/2015 17:13	04/16/2015 14:57	KK
								Certifications: CTDOH			

Chloride

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	* Chloride	119		mg/kg	1.38	10.0	1	EPA 300.0	04/18/2015 07:46	04/18/2015 07:46	SCA
								Certifications:			

Nitrate as N

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	* Nitrate as N	ND		mg/kg	0.800	5.00	1	EPA 300.0	04/18/2015 07:46	04/18/2015 07:46	SCA
								Certifications:			

Nitrite as N

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-65-0	* Nitrite as N	3.12		mg/kg	0.0900	0.500	1	EPA 300.0	04/18/2015 07:46	04/18/2015 07:46	SCA
								Certifications:			

Sulfate as SO4

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	* Sulfate	16.4		mg/kg	1.38	10.0	1	EPA 300.0 m	04/18/2015 07:46	04/18/2015 07:46	SCA
								Certifications:			

Sample Information

Client Sample ID: PORT JERVIS SLUDGE **York Sample ID:** 15D0535-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15D0535	Port Jervis Sludge 4/13/15	Sludge	April 13, 2015 8:00 am	04/14/2015

Ammonia Nitrogen as N

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	* Ammonia Nitrogen as N	523		mg/kg	5.00	5.00	1	SM 4500-NH3 D Certifications:	04/17/2015 13:29	04/20/2015 14:43	SC

Density @ 20C

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: *** DEFAULT PREP ***

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Bulk Density	0.900		g/cc	0.100	0.100	1	ASTM D-4052 Certifications:	04/21/2015 10:37	04/21/2015 13:59	PAM

pH

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	5.95	HT-pH	pH units		0.500	1	EPA 9045D Certifications: NELAC-NY10854,CTDOH	04/21/2015 12:59	04/21/2015 15:00	SCA

Phosphorous, total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Phosphorous, Total as P	10700		mg/kg dry	2290	2290	1	SM 4500-P B5/E Certifications:	04/20/2015 07:30	04/20/2015 14:41	SC

TCLP Extraction for METALS EPA 1311

Log-in Notes: **Sample Notes:** EXT-Temp

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA 1311 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	04/16/2015 16:00	04/17/2015 13:35	SCA

TCLP Extraction for SVOCS/PEST/HERB

Log-in Notes: **Sample Notes:** EXT-Temp

Sample Prepared by Method: EPA SW 846-1311 TCLP extr. for SVOA/PEST/HERBS

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA 1311 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	04/16/2015 16:00	04/17/2015 13:34	SCA

TCLP Extraction for VOA by EPA 1311 ZHE

Log-in Notes: **Sample Notes:** EXT-Temp

Sample Prepared by Method: EPA SW 846-1311 TCLP ZHE for VOA

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		%	1.00	1.00	1	EPA 1311 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	04/15/2015 16:00	04/16/2015 12:21	SCA

Total Kjeldahl Nitrogen

Log-in Notes: **Sample Notes:**

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

Field Chain-of-Custody Record

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. 15D0535

YOUR Information

Company: EARTH CARE
Address: 80 DENNINGS AVE
BEACON N.Y.
Phone No. 800-428-6166
Contact Person:
E-Mail Address:

Report To:

Company:
Address:
Phone No.
Attention:
E-Mail Address:

Invoice To:

Company:
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID

Purchase Order No.

Samples from: CT___ NY___ NJ___

Turn-Around Time

- RUSH - Same Day ☐
- RUSH - Next Day ☐
- RUSH - Two Day ☐
- RUSH - Three Day ☐
- RUSH - Four Day ☐
- Standard(5-7 Days) ☐

Report Type

- Summary Report
- Summary w/ QA Summary
- CT RCP Package
- CTRCP DQA/DUE Pkg
- NY ASP A Package
- NY ASP B Package
- NJDEP Red. Deliv.

Electronic Data Deliverables (EDD)

- Simple Excel
- NYSDEC EQuIS
- EQuIS (std)
- EZ-EDD (EQuIS)
- NJDEP SRP HazSite EDD
- GIS/KEY (std)
- Other
- York Regulatory Comparison
- Excel Spreadsheet

Compare to the following Regs. (please fill in):

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)

EG/i
Name (printed)

Matrix Codes

- S - soil
- Other - specify(oil, etc.)
- WW - wastewater
- GW - groundwater
- DW - drinking water
- Air-A - ambient air
- Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL MetCN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part360-Routine	Heterotrophs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part360-Baseline	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part360-Expanded No Dioxins Furans	BTU/lb.
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part360-Expanded Full List	Aquatic Tox.
Halog.only	NJDEP list	App. IX	Chlordane	Indis.Metals	Air TICs	NYCDEP Sewer	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
PORT JERVIS SLUDGE	800 4/13/15		TCLP AS PER NYC DEP PARAMETERS	2-8 oz.

Comments

Preservation Check those Applicable: 4°C ___ Frozen ___ HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other ___

Special Instructions
Field Filtered ☐
Lab to Filter ☐

Samples Relinquished By — Date/Time: 4/13/15 0810
Samples Relinquished By — Date/Time:
Samples Received By — Date/Time: 4-14-15 1210
Samples Received in LAB by — Date/Time: 4-14-15 1530

Temperature on Receipt: 3.7°C

Sample Information

Client Sample ID: PORT JERVIS SLUDGE

York Sample ID: 15D0535-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15D0535	Port Jervis Sludge 4/13/15	Sludge	April 13, 2015 8:00 am	04/14/2015

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Total Kjeldahl Nitrogen	1770		mg/kg	50.0	50.0	1	SM 4500-N Org B Certifications:	04/16/2015 14:08	04/20/2015 13:16	SC

Total Organic Nitrogen(TON)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Total Organic Nitrogen	1250		mg/L	0.100	0.100	1	SM 4500-N Certifications:	04/21/2015 10:41	04/21/2015 11:27	SC

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
15D0535-01	PORT JERVIS SLUDGE	40mL 01_Clear Vial Cool to 4° C

Notes and Definitions

QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
M-SeTC	It is noted that a known interference with selenium at the analytical line for analysis by ICP is caused by carbon emission from the TCLP or high organics matrix. The data user may subtract the matrix blank value from the data if needed.
M-CCBNS	Analyte in CCB above MDL. Not detected in samples.
M-BCCB	Analyte in CCB > MDL. Sample conc. >10 X blank conc.
HT-pH	HOLDING TIME EXCEEDED. Samples for pH must be measured in the field or within 15 minutes of sample collection.
EXT-Temp	Extraction temperture slightly exceeded acceptance range.
EXT-EM	The sample exhibited emulsion formation during the extraction process. This may affect surrogate recoveries.
EXT-COMP	Completed
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.

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*	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.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.