

Appendix D

SOIL BORING TESTING REPORT



ATLANTIC TESTING LABORATORIES

WBE certified company

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Canton, NY 13617
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atlantictesting.com

October 22, 2014

Lamont Engineers
PO Box 610
Cobleskill, New York 12043

Attn: Mr. Brenden Becker

Telephone: 518-234-4028

Re: Sediment Analysis Services
Pre-Dredge Sediment Samples
Cobleskill, Schoharie County, New York
ATL Report No. CD3740CE-01-10-14

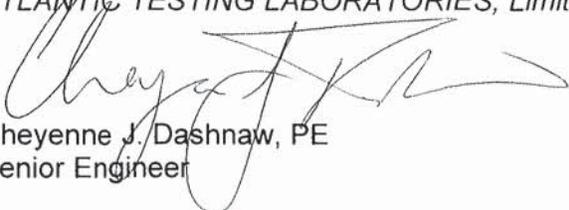
Ladies/Gentlemen:

Enclosed are copies of your laboratory reports and custody documentation for the samples collected by Lamont Engineers representatives on October 3 and 6, 2014. The laboratory analyses were conducted to evaluate the presence or absence of volatile organic compounds (VOC), semi-volatile organic compounds (semi-VOC), polychlorinated biphenyls (PCB), pesticides, designated metals, cyanide, and total organic carbon. Analysis for dioxin was initially on hold pending determination of the sample with the highest PCB concentration. Since PCB were not detected in any of the submitted samples, ATL is in the process of coordinating with the laboratory to provide the dioxin analysis for the sample number SA-2. Dioxin analysis for this sample will be dependent upon the sample volume that remains, and was selected based on this sample generally exhibiting the highest concentrations of detected target compounds.

A table summarizing the currently available laboratory analysis data is attached.

Please contact our office should you have any questions, or if we may be of further assistance.

Sincerely,
ATLANTIC TESTING LABORATORIES, Limited


Cheyenne J. Dashnaw, PE
Senior Engineer

TSP/CJD/tsp

Table I
Summary of Laboratory Analysis Results

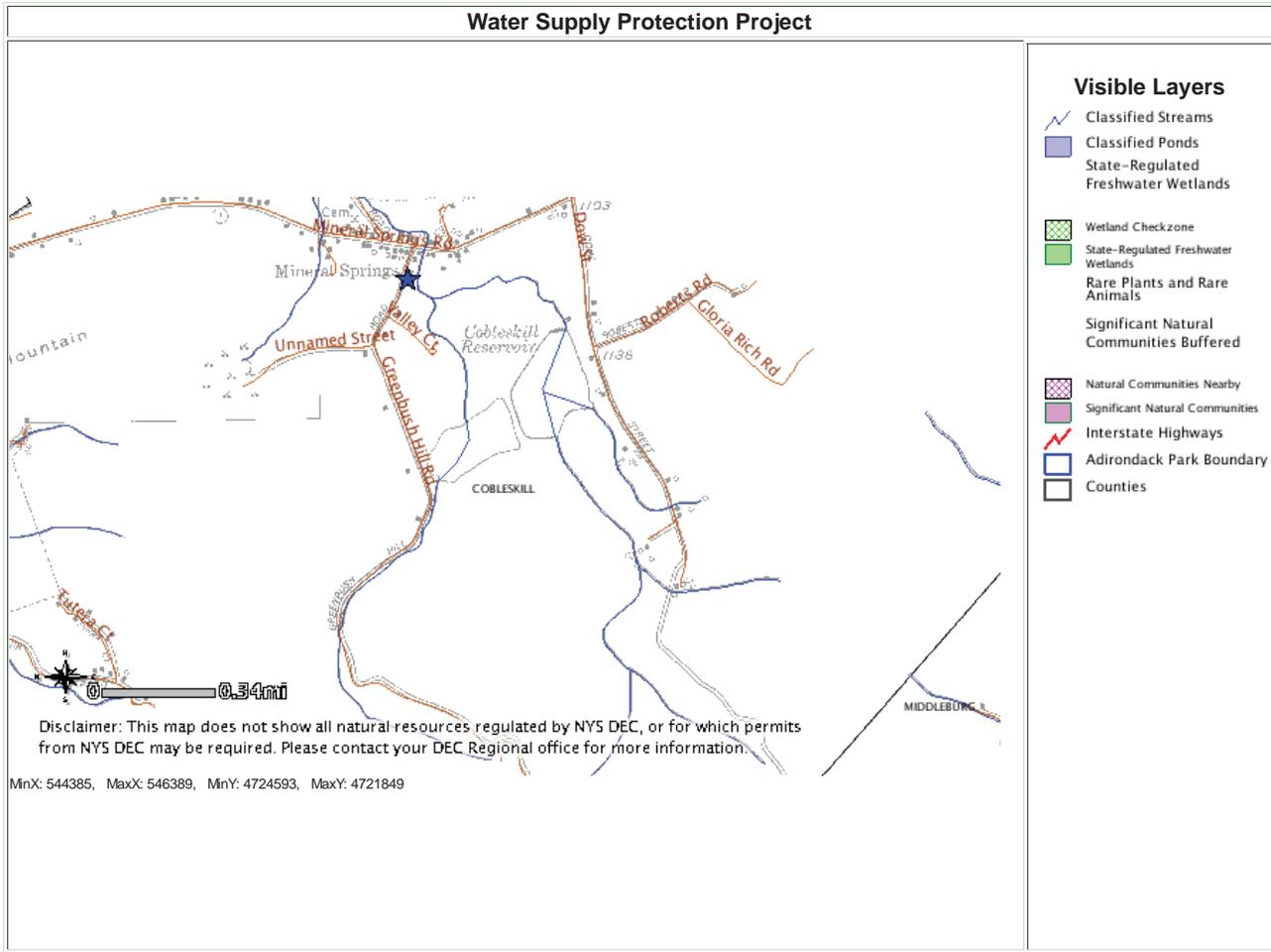
Sample Number =	SA-1 =	SA-2 =	SA-4 =	SB-1 =	SB-2 =	SB-7 =	NYSDEC TOGS 5.1.9 Sediment Quality Values for Dredging Materials =		
Sample Date =	10-3-14 =	10-3-14 =	10-3-14 =	10-6-14 =	10-6-14 =	10-6-14 =	Class A =	Class B =	Class C =
Metals (mg/kg) =									
Arsenic =	2.86 =	7.77 =	5.47 =	6.03 =	5.46 =	4.45 =	< 14.2 =	14 – 53 =	> 53 =
Cadmium =	ND =	ND =	ND =	ND =	ND =	ND =	< 1.2 =	1.2 – 9.5 =	> 9.5 =
Copper =	177	420	442	44.5	16.2 =	146	< 33 =	33 – 207 =	> 207 =
Lead =	10.5 =	26.8 =	17.6 =	14.0 =	15.6 =	21.3 =	< 33 =	33 – 166 =	> 166 =
Mercury =	ND =	0.114 =	0.0846 =	0.0814 =	ND =	0.0886 =	< 0.17 =	0.17 – 1.6 =	> 1.6 =
Cyanide =	< 0.49 =	< 0.5 =	< 0.5 =	< 0.49 =	< 0.5 =	< 0.5 =	---- =	---- =	---- =
PAH and Petroleum-Related Compounds (mg/kg) =									
Benzene =	ND =	ND =	ND =	ND =	ND =	ND =	< 0.59 =	0.59 – 2.16 =	> 2.16 =
Total BTEX =	ND =	ND =	ND =	ND =	ND =	ND =	< 0.96 =	0.96 – 5.9 =	> 5.9 =
Total PAH =	ND =	ND =	ND =	ND =	ND =	ND =	< 4 =	4 – 85 =	> 35 =
Pesticides (mg/kg) =									
Sum of DDT+DDE+DDD =	ND =	ND =	ND =	ND =	ND =	ND =	< 0.003 =	0.003 – 0.03 =	> 0.03 =
Dieldrin =	ND =	ND =	ND =	ND =	ND =	ND =	< 0.11 =	0.11 – 0.48 =	> 0.48 =
PCB (mg/kg) =									
Total PCB =	ND =	ND =	ND =	ND =	ND =	ND =	< 0.1 =	0.1 – 1 =	> 1 =
Dioxin/Furan (ng/kg) =									
Dioxin/Furan* =	---- =	---- =	---- =	---- =	---- =	---- =	< 0.0000045 =	0.0000045 – 0.000005 =	> 0.000005 =
Total Organic Carbon (mg/kg) =									
Total Organic Carbon =	13,000 =	32,000 =	16,000 =	18,000 =	14,000 =	21,000 =	---- =	---- =	---- =
Notes:	<p>Samples collected by representatives of the Client and analyzed by Pace Analytical Services, Inc., Schenectady, New York (NYSDOH ELAP No. 11078). -Sample analysis for cyanide was subcontracted to Pace Analytical, Inc., Melville, New York (NYSDOH ELAP No. 10478). =</p> <p>Samples collected on October 3 and 6, 2014 =</p> <p>ND = Not detected above the laboratory method detection limit. =</p> <p>Bold font indicates concentrations above TOGS 5.1.9 thresholds for Class A sediments. =</p> <p>*Dioxin/Furan analysis is pending. =</p>								

Appendix E

STREAM CLASSIFICATION

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Please set your printer orientation to "Landscape".



Disclaimer: This map was prepared by the New York State Department of Environmental Conservation using the most current data available. It is deemed accurate but is not guaranteed. NYS DEC is not responsible for any inaccuracies in the data and does not necessarily endorse any interpretations or products derived from the data.

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The Coordinates of the point you clicked on are:

NYTM	E : 544820	Longitude/Latitude	W : 74.453
	N : 4724452		N : 42.671

Classified Streams

Regulation	Standard	Classification
879-26	A	A

USGS Quadrangle**USGS Quadrangle Name**

COBLESKILL

If your project or action is within or near an area with a rare animal, a permit may be required if the species is listed as endangered or threatened and the department determines the action may be harmful to the species or its habitat.

If your project or action is within or near an area with rare plants and/or significant natural communities, the environmental impacts may need to be addressed.

The presence of a unique geological feature or landform near a project, unto itself, does not trigger a requirement for a NYS DEC permit. Readers are advised, however, that there is the chance that a unique feature may also show in another data layer (ie. a wetland) and thus be subject to permit jurisdiction.

Please refer to the "Need a Permit?" tab for permit information or other authorizations regarding these natural resources.

Disclaimer: If you are considering a project or action in, or near, a wetland or a stream, a NYS DEC permit may be required. The Environmental Resources Mapper does not show all natural resources which are regulated by NYS DEC, and for which permits from NYS DEC are required. For example, Regulated Tidal Wetlands, and Wild, Scenic, and Recreational Rivers, are currently not included on the maps.

Appendix F

SITE PHOTOS

Smith Reservoir



Smith Spillway

1



Deteriorated Spillway Wall

2

Latitude 42.662912 - Longitude 74.445722

Smith Reservoir



Deteriorated Spillway Wall

3



Dow and Holding Pond Reservoirs

4

Latitude 42.662912 - Longitude 74.445722

Smith Reservoir



Latitude 42.662912 - Longitude 74.445722