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AUG 06 2008

Bureau of Hazardous Waste &  
Radiation Management  
Division of Solid and Hazardous Materials



August 5<sup>th</sup>, 2008

130215.003

Ms. Kathleen H. Emery, P.E.  
NYS Department of Environmental Conservation  
Division of Solid and Hazardous Materials, Region 9  
270 Michigan Avenue  
Buffalo NY 14203-2999

Subject: Two Mile Creek  
Tonawanda, New York

Dear Ms. Emery:

On behalf of GE Energy, Brown and Caldwell is pleased to submit the enclosed results for recent sampling in Two Mile Creek, located in Tonawanda, New York. The sampling was performed on July 16<sup>th</sup> 2008 per your request by letter dated June 23<sup>rd</sup>, 2008.

Please contact Dawn Varacchi-Ives at (978) 353-3738 or me, with any questions.

Sincerely,

BROWN AND CALDWELL

A handwritten signature in black ink, appearing to read "Kendrick Jaglal".

Kendrick Jaglal, P.E.  
Project Manager

Encls:

cc: Dawn Varacchi-Ives, GE Energy  
Tony Hejmanowski, GE Energy  
James Strickland, P.E., NYSDEC  
Andrew Park, USEPA Region II  
Robert Phaneuf, NYSDEC

## **Two Mile Creek – Tonawanda, New York**

### **July 2008 Sampling Event**

#### **Analytical Results**

In April 2008, sediment removal was performed at two areas in Two Mile Creek, located in Tonawanda, New York. These locations were selected for removal by the New York State Department of Environmental Conservation (NYSDEC), Division of Fish, Wildlife and Marine Resources following a review of available data for the Creek. Following completion of sediment removal at the two designated areas, a total of four surficial creek bed samples were collected at the request of NYSDEC. Two samples, designated TMC-CON 01 and TMC-CON 02, were taken from the 0- to 6-inch creek bed interval at the downstream and upstream ends, respectively, of the dredged area between Stations 29+25 and 30+70. Two additional samples, designated TMC-CON 03 and TMC-CON 04, were taken from the 0- to 6-inch creek bed interval at the downstream and upstream ends, respectively, of the second dredged area between Stations 24+00 and 25+00. The samples were submitted for analysis of polychlorinated biphenyls (PCBs) and total organic carbon (TOC). The analytical results reported relatively low concentrations of PCBs in the samples as Aroclors 1248, 1254 and 1260.

The data were provided to the NYSDEC on May 19<sup>th</sup> 2008. Following its review of the data, the NYSDEC requested that additional sampling be performed at 3 additional locations in the vicinity of the former TMC-CON 04 location. On July 16<sup>th</sup> 2008, sampling was performed at three locations (shown on the attached figure) which formed a semi-circle downstream of the former TMC-CON 04 location, approximately 5-10 ft away. As done previously, the samples were collected from the 0- to 6-inch creek bed interval. The samples were submitted to Test America for analysis of PCBs using U.S. EPA Method SW 846-8082 (U.S. EPA, 1996) and for TOC using the Lloyd Kahn (1988) Method. The PCB results together with those for the TOC are presented in Table 1, below and the laboratory data sheet is attached. The total PCB concentrations for all three samples are significantly lower than the 3.55 ppm previously noted in this area, with the average for the four samples being 0.97 ppm. These results indicate that the prior detection of 3.55 ppm is an isolated result and the overall concentrations in

## Two Mile Creek – Tonawanda, New York

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#### Analytical Results

sediment in Two Mile Creek have been reduced as a result of the sediment removal effort.

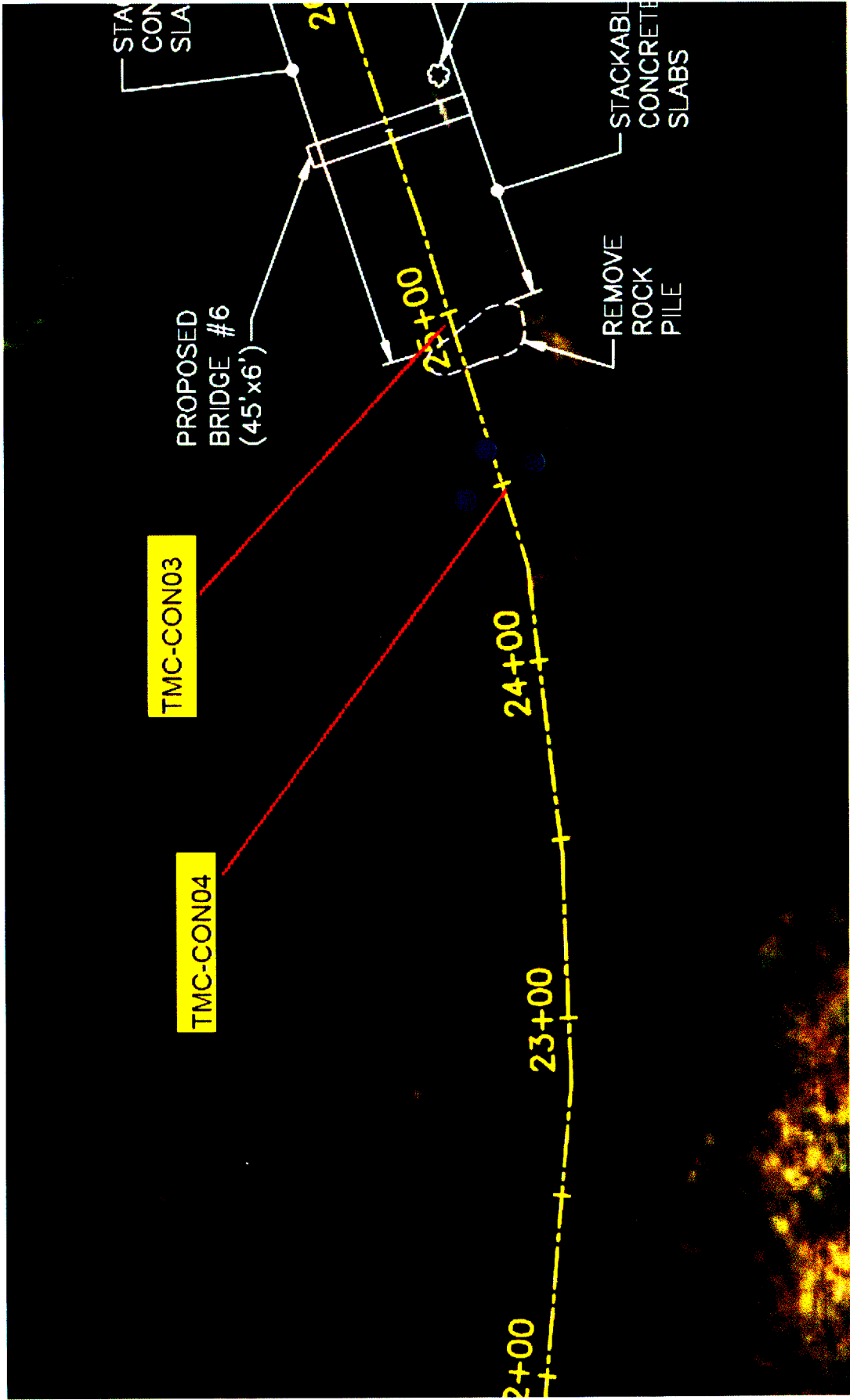
**TABLE 1. Analytical Data for July 2008 Sampling in Two Mile Creek**

SAMPLE	PCB AROCLOR (mg/kg)			Total PCBs (mg/kg)	Total Organic Carbon (%)
	1248	1254	1260		
SED-01	0.038	0.053	0.032	0.123	1.65
SED-02	0.051	0.067	0.033	0.151	1.76
SED-03	0.037	0.023	0.013 J	0.073	0.21

#### References

Kahn, Lloyd. (1988) "Determination of Total Organic Carbon in Sediment (Lloyd Kahn Method)." United States Environmental Protection Agency (U.S. EPA) Region II, Edison, New Jersey.

U.S. EPA. (1996) Office of Solid Waste and Emergency Response. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods." SW-846 3rd ed. Washington, D.C.



- = additional sample locations as requested by NYSDEC in June 23, 2008 letter

Date: 07/30/2008  
Time: 15:35:29

Brown and Caldwell  
Buffalo site  
ASPO5 METHOD 8082 - POLYCHLORINATED BIPHENYLS

Rept: AN1246

Client ID	Lab ID	Units	SED-1 A08-8584 07/16/2008	SED-2 A08-8584 07/16/2008	SED-3 A08-8584 07/16/2008	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016		UG/KG	ND	ND	ND	20	ND	20	ND	19
Aroclor 1221		UG/KG	ND	ND	ND	20	ND	20	ND	19
Aroclor 1232		UG/KG	ND	ND	ND	20	ND	20	ND	19
Aroclor 1242		UG/KG	ND	ND	ND	20	ND	20	ND	19
Aroclor 1248		UG/KG	38	51	37	20	37	20	NA	19
Aroclor 1254		UG/KG	53	67	23	20	23	20	NA	19
Aroclor 1260		UG/KG	32	33	13 J	20	13 J	20	NA	19
-SURROGATE(S)-										
Tetrachloro-m-xylene		%	76	80	79	35-134	79	35-134	NA	35-134
Decachlorobiphenyl		%	86	89	91	34-148	91	34-148	NA	34-148

NA = Not Applicable ND = Not Detected

TestAmerica Lab