



November 3, 2017

Maria Bebenek
Manager, Clean Water Program
DEP, SCRO
909 Elmerton Avenue
Harrisburg, Pa 17110

RE: **October 2017** Monthly Report, Site-Specific Study Plan

Dear Ms. Bebenek;

In accordance with Section 3.e of the August 21, 2015 Consent Order and Agreement, the following is the October 2017 monthly report for the Site-Specific Methylmercury Water Quality Criterion Stream Study Plan (the Plan).

Results:

- Attached are the analytical results as reported by Brooks Applied Laboratory of composite fish samples from September 12, 2017. Samples were collected at stream stations RR-01 and EC-02.
- Attached are the analytical results as reported by Brooks Applied Laboratory for stream samples collected on September 12, 2017. Included are results from RR-01, Rambo Down, EC-02 and Ebaughs Down.
- The September 12, 2017 equipment blank sample had a trace detection of 0.13 ng/l for total Hg which is above the Method Detection Limit of 0.10 ng/l. Analysis performed by Brooks Applied Laboratory.
- Attached are field data and photos from the September 12, 2017 field work.

The September 2017 data collection was the final field work to be performed under the scope of the Plan. With this report all field data for the Plan has been submitted. Feel free to contact me if you have any questions or comments on the information provided in this monthly report.

Respectfully,

A handwritten signature in blue ink, appearing to read 'Richard A. Hazenstab'.

Richard A. Hazenstab, P.G.
Coordinator
Operations and Environmental Programs

cc: D. Vollero; D. Jasitt; J. Beuschlein; J. Collins

Attached: Brooks Applied Laboratory analysis for fish tissues
Brooks Applied Laboratory analysis for stream samples
Field Data and Photos, September 12, 2017

Project ID: AEC-CS1601
PM: Amanda Royal



Client PM: Joshua Collins
Client Project: 60432741.5

Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
RR-01-BNT-COMP1	1738010-01	Biota	Sample	09/12/2017	09/19/2017
RR-01-BNT-COMP2	1738010-02	Biota	Sample	09/12/2017	09/19/2017
RR-01-BNT-COMP3	1738010-03	Biota	Sample	09/12/2017	09/19/2017
EC-02-BNT-COMP1	1738010-04	Biota	Sample	09/12/2017	09/19/2017
EC-02-BNT-COMP2	1738010-05	Biota	Sample	09/12/2017	09/19/2017
EC-02-BNT-COMP3	1738010-06	Biota	Sample	09/12/2017	09/19/2017
EC-02-AME-COMP1	1738010-07	Biota	Sample	09/12/2017	09/19/2017
EC-02-AME-COMP2	1738010-08	Biota	Sample	09/12/2017	09/19/2017
EC-02-AME-COMP3	1738010-09	Biota	Sample	09/12/2017	09/19/2017

Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Hg	Biota	EPA 1631 Appendix	09/28/2017	09/29/2017	B172551	1701204



Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
EC-02-AME-COMP1										
1738010-07	Hg	Biota	AR	110		1.54	3.86	ng/g	B172551	1701204
EC-02-AME-COMP2										
1738010-08	Hg	Biota	AR	119		1.49	3.72	ng/g	B172551	1701204
EC-02-AME-COMP3										
1738010-09	Hg	Biota	AR	83.6		1.55	3.89	ng/g	B172551	1701204
EC-02-BNT-COMP1										
1738010-04	Hg	Biota	AR	41.3		1.59	3.98	ng/g	B172551	1701204
EC-02-BNT-COMP2										
1738010-05	Hg	Biota	AR	28.1		1.47	3.67	ng/g	B172551	1701204
EC-02-BNT-COMP3										
1738010-06	Hg	Biota	AR	21.1		1.51	3.78	ng/g	B172551	1701204
RR-01-BNT-COMP1										
1738010-01	Hg	Biota	AR	34.6		1.58	3.95	ng/g	B172551	1701204
RR-01-BNT-COMP2										
1738010-02	Hg	Biota	AR	52.4		1.46	3.66	ng/g	B172551	1701204
RR-01-BNT-COMP3										
1738010-03	Hg	Biota	AR	42.2		1.55	3.88	ng/g	B172551	1701204



Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
<i>RR-01</i>	1737031-01	Water	Sample	09/12/2017	09/13/2017
<i>RR-01</i>	1737031-02	Water	Sample	09/12/2017	09/13/2017
<i>Rambo Down</i>	1737031-03	Water	QC Sample	09/12/2017	09/13/2017
<i>Rambo Down</i>	1737031-04	Water	QC Sample	09/12/2017	09/13/2017
<i>EC-02</i>	1737031-05	Water	Sample	09/12/2017	09/13/2017
<i>EC-02</i>	1737031-06	Water	Sample	09/12/2017	09/13/2017
<i>Ebaughs Down</i>	1737031-07	Water	Sample	09/12/2017	09/13/2017
<i>Ebaughs Down</i>	1737031-08	Water	Sample	09/12/2017	09/13/2017
<i>Equipment Blank</i>	1737031-09	Water	Equip. Blank	09/12/2017	09/13/2017
<i>Equipment Blank</i>	1737031-10	Water	Equip. Blank	09/12/2017	09/13/2017

Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Hg	Water	EPA 1631 E	09/14/2017	09/15/2017	B172351	1701122
MeHg	Water	EPA 1630	09/18/2017	09/19/2017	B172326	1701135
MeHg	Water	EPA 1630	10/05/2017	10/06/2017	B172604	1701234



Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
<i>Ebaughs Down</i>										
1737031-07	Hg	Water	TR	228		0.51	2.02	ng/L	B172351	1701122
1737031-08	MeHg	Water	D	≤ 0.020	U	0.020	0.050	ng/L	B172326	1701135
<i>EC-02</i>										
1737031-05	Hg	Water	TR	0.83		0.10	0.40	ng/L	B172351	1701122
1737031-06	MeHg	Water	D	≤ 0.020	U	0.020	0.050	ng/L	B172326	1701135
<i>Equipment Blank</i>										
1737031-09	Hg	Water	TR	0.13	J	0.10	0.40	ng/L	B172351	1701122
1737031-10	MeHg	Water	D	≤ 0.020	U	0.020	0.049	ng/L	B172326	1701135
<i>Rambo Down</i>										
1737031-03	Hg	Water	TR	206		0.51	2.02	ng/L	B172351	1701122
1737031-04	MeHg	Water	D	0.098		0.020	0.050	ng/L	B172604	1701234
<i>RR-01</i>										
1737031-01	Hg	Water	TR	0.57		0.10	0.40	ng/L	B172351	1701122
1737031-02	MeHg	Water	D	0.021	J	0.020	0.050	ng/L	B172326	1701135

Summary of Composite Fish Samples, September 12, 2017
 York County Solid Waste and Refuse Authority
 York County, Pennsylvania

Species	Composite Number	Fish ID	Length (mm)	Weight (g)
Rambo Run				
Brown Trout	Composite I	BNT-01	191	70
		BNT-02	198	74
		BNT-03	180	59
		BNT-04	200	79
		BNT-05	220	103
	Composite II	BNT-01	222	109
		BNT-02	228	118
		BNT-03	235	1129
		BNT-04	210	97
		BNT-05	240	122
	Composite III	BNT-01	247	154
		BNT-02	240	132
		BNT-03	251	139
		BNT-04	240	137
		BNT-05	252	163
Ebaughs Creek				
Brown Trout	Composite I	BNT-01	266	204
		BNT-02	280	194
		BNT-03	262	172
		BNT-04	256	164
		BNT-05	230	129
	Composite II	BNT-01	222	116
		BNT-02	228	122
		BNT-03	226	117
		BNT-04	190	77
		BNT-05	210	93
	Composite III	BNT-01	200	81
		BNT-02	200	84
		BNT-03	200	86
		BNT-04	198	75
		BNT-05	196	73
American Eel	Composite I	AME-01	590	412
		AME-02	500	180
		AME-03	510	173
		AME-04	460	206
	Composite II	AME-01	440	163
		AME-02	480	168
		AME-03	465	133
		AME-04	440	128
	Composite III	AME-01	370	97
		AME-02	390	85
		AME-03	327	57
		AME-04	295	65

Photographs from the September 12, 2017 sampling event in Rambo Run and Ebaughs Creek

Collecting filtered stream sample at station RR-01



Stream flow measurement at station RR-01



Fish sampling at station EC-02



Recording fish data

