



May 27, 2022

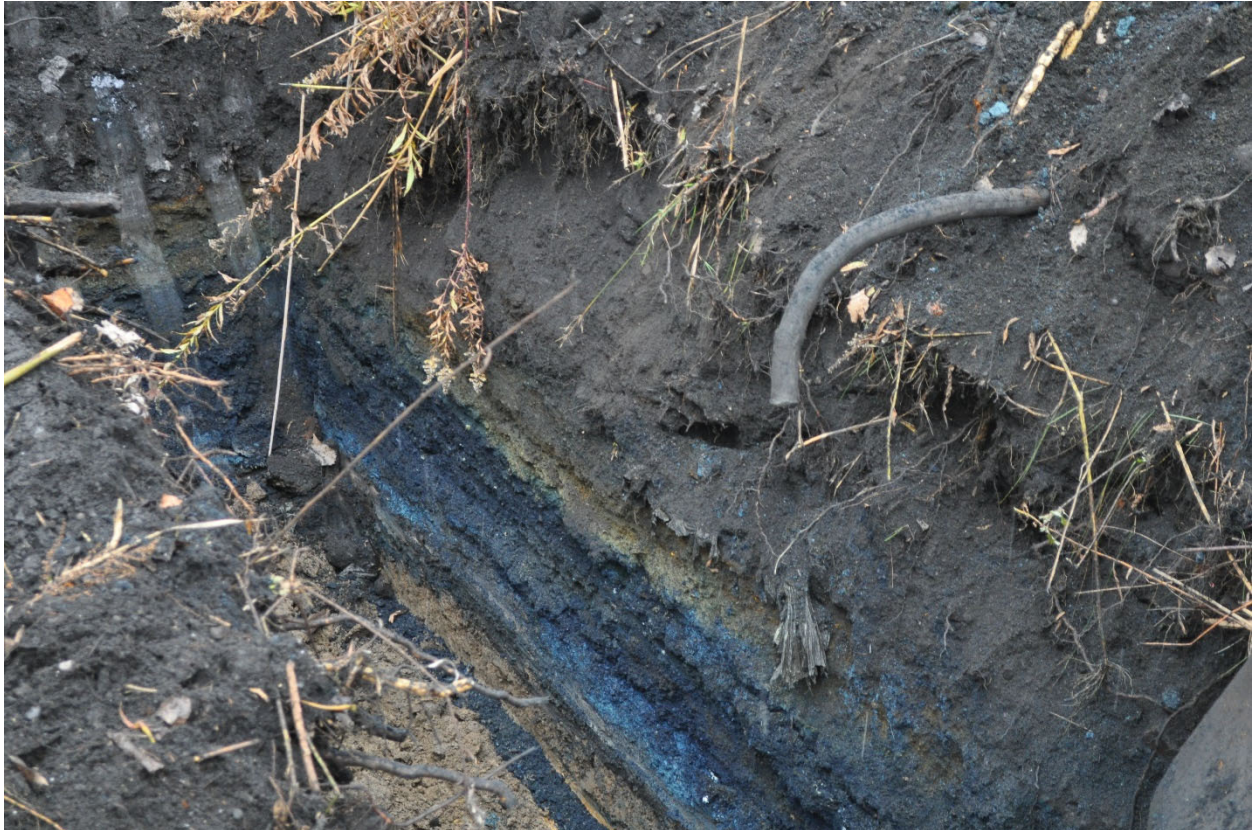
To: Benjamin McPherson  
From: Todd Waldrop, Inventum  
CC: Peter Zaffram, John Black, Inventum

RE: Collection of Samples for Leachate Testing  
Remedial Investigation  
Riverview Innovation & Technology Campus, Inc.  
NYSDEC Site #C915353  
Town of Tonawanda, New York

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Two samples of the blue stained soils on the Riverview Innovation & Technology Campus (RITC) Brownfield Cleanup Program Site will be collected for analysis using the Synthetic Precipitation Leaching Procedure (SPLP) and ASTM Method D-3987. There is no standard for cyanide under the Toxicity Characteristic Leaching Procedure (TCLP) and the TCLP cannot be performed on cyanide containing soils due to the production and loss of the cyanide as hydrogen cyanide gas.

The materials to be tested are those that had the distinct "Prussian Blue" color. The area where these materials were buried is predominately in the South Drainage AOI7 at location TP-BCP-35. The target materials are the blue-stained layer identified in TB-BCP-35 on the RITC Site (Photographs 1 and 2). The layer was typically between 24- and 29-inches below ground surface (bgs), but as deep as 36- to 42-inches bgs.



Photograph No. 1  
Blue Stained Soils  
Center of TP-BCP-35

For purposes of the testing, we would like to collect two samples (Total and SPLP cyanide) at the approximate locations shown on Photograph No. 3. Sample Nomenclature shall be:

TP- BCP-55-BF0#-date

The samples will be extracted using both the SPLP and the ASTM methods and the cyanide analysis will utilize Method 9012. The data should be available approximately 2 weeks after the samples are received by the laboratory, Eurofins TestAmerica.





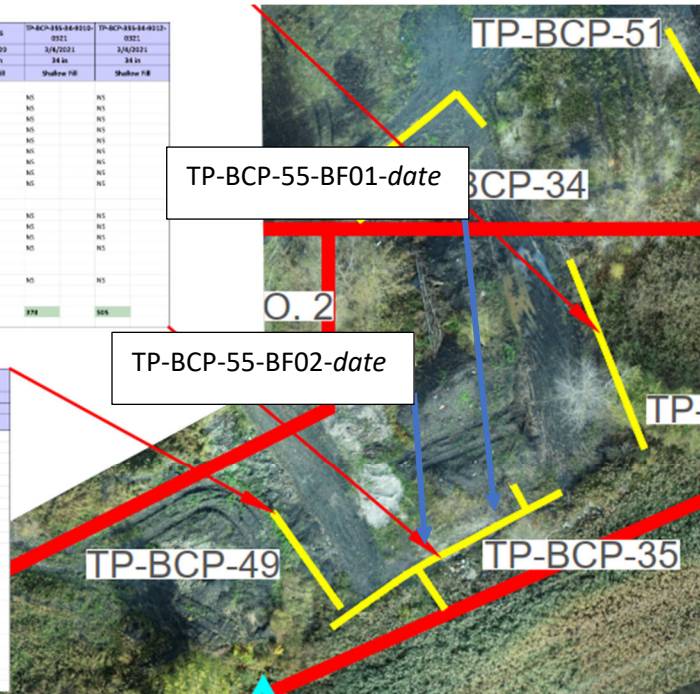
Photograph No. 2  
Blue Stained Soils  
East End of TP-BCP-35





Analytes	Part 875 SCDs		Units	TP-BCP-55	TP-BCP-55-BF01-01	TP-BCP-55-BF01-02
	Commented	Industrial		2021	2021	2021
				Sample Date: 12/01/2020	3/4/2021	3/9/2021
Sample Interval: 32 - 68 in				34 in	34 in	34 in
Formation:				Shallow Fill	Shallow Fill	Shallow Fill
<b>TCL 5900s (SM8720)</b>						
Benzofluoranthene	5,600	11,000	ug/kg	NS	NS	NS
Benzofluoranthene	1,000	1,100	ug/kg	NS	NS	NS
Benzofluoranthene	5,600	11,000	ug/kg	NS	NS	NS
Benzofluoranthene	5,600	11,000	ug/kg	NS	NS	NS
Chrysene	56,000	110,000	ug/kg	NS	NS	NS
Dibenz(a,h)anthracene	560	1,100	ug/kg	NS	NS	NS
Fluoranthene	500,000	1,000,000	ug/kg	NS	NS	NS
Indeno(1,2,3-cd)pyrene	5,600	11,000	ug/kg	NS	NS	NS
Pyrene	500,000	1,000,000	ug/kg	NS	NS	NS
<b>TAL Metals (SM9118)</b>						
Arsenic	35	16	mg/kg	2.3	NS	NS
Barium	400	10,000	mg/kg	84.1	NS	NS
Calcium	5.3	60	mg/kg	0.462	NS	NS
Copper	270	10,000	mg/kg	76.9	NS	NS
<b>Mercury (SM7471)</b>						
Mercury	2.8	5.7	mg/kg	3.2	NS	NS
<b>Total Cyanide (SM99118)</b>						
Cyanide	27	10,000	mg/kg	88.1	379	305

Analytes	Part 875 SCDs		Units	TP-BCP-49-28	TP-BCP-49-45	TP-BCP-49-41
	Commented	Industrial		7/28/2021	7/27/2021	7/28/2021
				Sample Date: 7/28/2021	7/27/2021	7/28/2021
Sample Interval: 28-inches				48-inches	75-inches	
Formation:				Shallow Fill	Shallow Fill	Shallow Fill
<b>TCL 5900s (SM8720)</b>						
Benzofluoranthene	5,600	11,000	ug/kg	8700	6700	<62
Benzofluoranthene	1,000	1,100	ug/kg	370000	3000	<120
Benzofluoranthene	5,600	11,000	ug/kg	36000	10000	<70
Benzofluoranthene	5,600	11,000	ug/kg	15000	3000	<67
Chrysene	56,000	110,000	ug/kg	85000	6600	<61
Dibenz(a,h)anthracene	560	1,100	ug/kg	34000	3400	<71
Fluoranthene	500,000	1,000,000	ug/kg	120000	8200	<110
Indeno(1,2,3-cd)pyrene	5,600	11,000	ug/kg	120000	6600	<160
Pyrene	500,000	1,000,000	ug/kg	120000	6600	<69
<b>TAL Metals (SM9118)</b>						
Arsenic	16	16	mg/kg	11.9	7.2	4.9
Barium	400	10,000	mg/kg	129	186	119
Calcium	5.3	60	mg/kg	0.349	0.465	0.249
Copper	270	10,000	mg/kg	41.7	170	18.8
<b>Mercury (SM7471)</b>						
Mercury	2.8	5.7	mg/kg	0.227	16.8	0.08
<b>Total Cyanide (SM99118)</b>						
Cyanide	27	10,000	mg/kg	4.4	308	4.4



Photograph No. 3 (From Figure 4-44 of the RIR)  
Proposed Sample Locations

