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October 8, 2010

Ms. Sharon Fang, P.E.
Remedial Project Manager (3HS21)
U.S. EPA Region III
1650 Arch Street
Philadelphia, Pennsylvania19103-2029

Re: Metal Bank Cottman Avenue NPL Site
Monthly Report due October 10, 2010
Reporting Period: September 1 through September 30, 2010

Dear Ms. Fang:

As provided in Paragraph 31 of the Utility Consent Decree, and on behalf of the Cottman Avenue PRP Group, Malcolm Pirnie as the Supervising Contractor is submitting to USEPA three copies of a written monthly progress report. Copies of the monthly progress reports are attached to this letter.

Please contact the Designated Project Coordinator, Dr. John Dobi (973.430.8036) or me (610.360.4895) if you need additional information regarding this submission.

Very truly yours,
MALCOLM PIRNIE, INC.

Wyn V. Davies

Wyn V. Davies, CIH
Senior Associate

Cc: Cottman Avenue PRP Group
Steering and Technical Committees
Joseph Vitale, P.E.
Raymond E. Lees, P.E., CHMM
Dan J. Jordanger, Esquire

Enclosures
3809012

Project Name: Metal Bank NPL Site	For the Month: September 2010	
Project Location: Philadelphia, PA	Report Number: 54	Dated: October 8, 2010

Name: Wyn Davies (Malcolm Pirnie, Inc.)	Title: Project Manager
Telephone No.: (610) 360-4895	Telefax No.: (610) 768-5817

Reporting Period: September 1 through September 30, 2010

(a) Describe the actions which have been taken toward achieving compliance with the Consent Decree during the previous month:

Remedial action monitoring continued throughout the month of September. Activities included the following:

- Completed the repair to Building 7 epoxy coating of floor
- Performed Sheet Pile Monitoring using the tiltmeters in three locations along the wall for long term monitoring of verticality of each zone of sheeting
- Performed the abandonment and reinstallation of MW-5 on September 20th
- Performed the mechanical removal of invasive plants on September 22 & 23rd
- Maintained soil erosion & sedimentation control aspects
- Provided access to the site for the US EPA to monitor the post-construction work related to the approved Sevenson RAWP.

(b) Include a summary of all results of sampling and tests and all other data received or generated by Settling Third-Party Defendants or their contractors or agents in the previous month:

During the week of July 26, 2010, Malcolm Pirnie conducted the first round of ground water sampling per the Long Term Monitoring Plan. Six (6) wells were sampled for Polychlorinated Biphenyls (PCBs) Aroclors, Polychlorinated Biphenyls Congeners, Dioxins, and Semi-Volatile Organic Compounds (SVOCs). The event followed site guidelines as described in the Long Term Monitoring Plan Work Plan, the Long Term Monitoring Plan Field Sampling Plan and the Quality Assurance Project Plan (QAPP) for Groundwater. These documents were conditionally approved in May 2010 by the US EPA.

The un-validated data results became available in September and are presented in the attached Tables. [Note: The formal data validation process of the first round quarterly results will commence shortly.]

(c) Identify all work plans and other deliverables required by the Consent Decree completed and submitted during the previous month:

- Cottman Ave PRP Group to EPA – The Group submitted its response letter to the EPA's letter of August 19, 2010 regarding the fish and eel results collected in August 2009. (9/09/10)
- Cottman Ave PRP Group to EPA – The Group provided notice to the EPA regarding the abandonment of MW-5 and the re-drilling of a new monitoring well scheduled for September 20th. (9/13/10)

- EPA to Cottman Ave PRP Group – The EPA provided to the Group its one-page rationale for the fish and eel study as discussed in the September 13th meeting between the EPA and the Group. (9/15/10)
- EPA to Cottman Ave PRP Group – The EPA indicated that it appreciated the notice for the MW-5 replacement and notified the Group that it intended to perform an inspection of the site on September 28th with the PaDEP accompanying. (9/23/10)
- Cottman Ave PRP Group to EPA – The Group indicated to the EPA that they would attend the September 28th inspection and provided notice that the second quarterly LTM groundwater event has been scheduled for October 18 thru 20, 2010. (9/24/10)
- EPA to Cottman Ave PRP Group – The EPA provided an internet link to the inspection photos of the site performed on September 28th with the PaDEP accompanying as well as two potential corrective measures. (9/30/10)

(d) Describe all actions, including, but not limited to, data collection and implementation of work plans, which are scheduled for the next month and provide other information relating to the progress of construction, including, but not limited to, critical path diagrams, Gantt charts, and Pert charts:

The current month look-ahead schedule for O&M is attached.

The PRP Group will continue monitoring the post construction activities including:

- Perform the Quarterly LTM Inspection
- Inspect the new epoxy in Building 7 (floor)
- Perform sheet pile wall monitoring
- Maintain the soil & erosion aspects
- Monitor the LNAPL Trench Sumps for free product
- Prepare for the second round of groundwater monitoring
- Perform the second quarterly round of groundwater sampling
- Continue monitoring of site for HSE compliance

(e) Include information regarding percentage of completion, unresolved delays encountered or anticipated that may affect the future schedule for implementation of the Work, and a description of efforts made to mitigate those delays or anticipated delays:

- All O&M commitments are on schedule

(f) Include any modifications to the work plans or other schedules that Settling Third-Party Defendants have proposed to EPA or that have been approved by EPA:

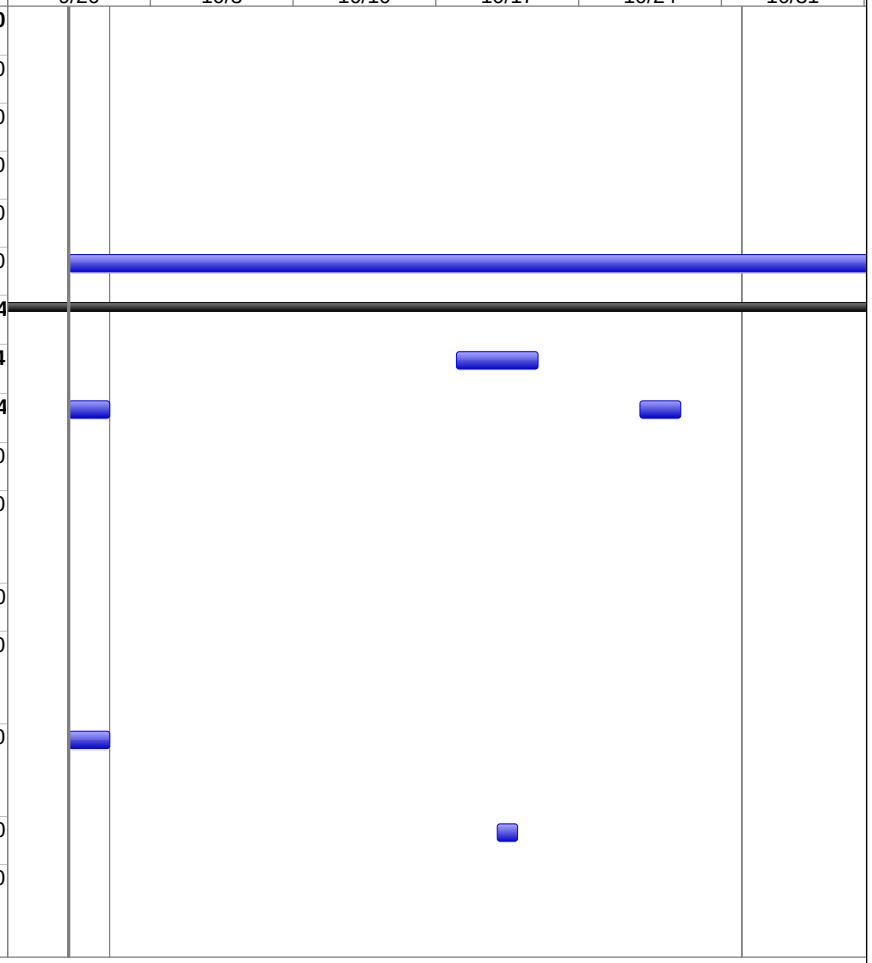
- none

(g) Describe all activities undertaken in support of the Community Relations Plan during the previous month and those to be undertaken in the next month:

- The Group will coordinate with EPA on any community outreach endeavors on an as needed basis through the post construction period.

Metal Bank - Post Construction Schedule

ID	Task Name	Duration	Start	Finish
1	**Post Construction Inspections**	**111 days**	**Wed 2/3/10**	**Wed 7/7/10**
14	Comments on LTM	14 days	Mon 5/10/10	Thu 5/27/10
15	EPA/Cottman PRP Final Inspection	1 day	Thu 4/29/10	Thu 4/29/10
16	Submittal of Engineer Certification Report	1 day	Fri 5/28/10	Fri 5/28/10
17	EPA Comments on Groundwater QAPP	5 days	Mon 5/17/10	Fri 5/21/10
18	LTM Biota QAPP Resolution of Approach	68 days	Wed 9/29/10	Fri 12/31/10
19	**Commencement of LTM**	**1132 days**	**Mon 7/26/10**	**Tue 11/25/14**
20	**Groundwater Monitoring**	**1114 days**	**Mon 7/26/10**	**Thu 10/30/14**
39	**Sheet Pile Wall Monitoring**	**1112 days**	**Mon 8/23/10**	**Tue 11/25/14**
91	Complete Action Items from Final Inspection	30 days	Fri 4/30/10	Thu 6/10/10
92	PRP and EPA Approval of Invasive Species Control Plan	14 days	Wed 7/21/10	Mon 8/9/10
93	Invasive Species Herbicide Treatment - Milnor St.	2 days	Mon 8/23/10	Tue 8/24/10
94	Invasive Species (Knot Weed) Treatment along Delaware River Bank	3 days	Wed 8/25/10	Fri 8/27/10
95	Mechanically Eradicate Invasive Plants that have been treated	2 days	Wed 9/29/10	Thu 9/30/10
96	Evaluation of Native Grass Germination	1 day	Wed 10/20/10	Wed 10/20/10
97	Overseed Drilling of Native grasses (If necessary)	4 days	Mon 8/23/10	Thu 8/26/10



Project: Metal Bank Post Construction
Date: Wed 9/29/10

Task	External Milestone	Manual Summary Rollup	
Split	Inactive Task	Manual Summary	
Milestone	Inactive Milestone	Start-only	
Summary	Inactive Summary	Finish-only	
Project Summary	Manual Task	Progress	
External Tasks	Duration-only	Deadline	

Table 1
Summary of PCB Aroclor Analytical Results - Round 1
Metal Bank Superfund Site
Philadelphia, PA

LOCATION ID		Project Action Limit[1]		MB-MW-01		MB-MW-02		MB-MW-03		MB-MW-04		MB-MW-04-DUP		MB-MW-05		MB-MW-06	
SAMP DATE				7/29/2010		7/26/2010		7/27/2010		7/29/2010		7/29/2010		7/28/2010		7/28/2010	
UNITS				ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
ANALYTES	CAS NUM	ug/L		RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
Aroclor 1016	12674112	7.2	G	0.00257	U	0.00257	U	0.00257	U	0.0211		0.0231		0.00254	U	0.00252	U
Aroclor 1221	11104282	5.2	G	0.00254	U	0.00254	U	0.00254	U	0.00254	U	0.00254	U	0.00251	U	0.00249	U
Aroclor 1232	11141165	5.2	G	0.00299	U	0.00299	U	0.00299	U	0.00299	U	0.00299	U	0.00296	U	0.00293	U
Aroclor 1242	53469219	5.2	G	0.00189	U	0.00189	U	0.00189	U	0.00189	U	0.00189	U	0.00188	U	0.00186	U
Aroclor 1248	12672296	1.4	G	0.00232	U	0.00232	U	0.00232	U	0.00232	U	0.00232	U	0.0023	U	0.00227	U
Aroclor 1254	11097691	1.4	G	0.00233	U	0.00233	U	0.00233	U	0.00233	U	0.00233	U	0.00231	U	0.00229	U
Aroclor 1260	11096825	4.3	G	0.00138	U	0.00138	U	0.00138	U	0.00138	U	0.00138	U	0.00137	U	0.00136	U
Aroclor 1262	37324235	NA		0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.0021	U	0.00208	U	0.00206	U
Aroclor 1268	11100144	NA		0.00277	U	0.00277	U	0.00277	U	0.00277	U	0.00277	U	0.00274	U	0.00272	U

Notes:
U - Not detected
1 - PADEP Act 2 Nonuse, Non-Residential Standard used for Project Action Limit. NOTE: There are no Project Action Limits for groundwater for this site.

Table 2
Summary of PCB Congeners Analytical Results - Round 1
Metal Bank Superfund Site
Philadelphia, PA

LOCATION ID		MB-MW-01		MB-MW-02		MB-MW-03		MB-MW-04		MB-MW-04-DUP		MB-MW-05		MB-MW-06	
SAMP DATE		7/29/2010		7/26/2010		7/27/2010		7/29/2010		7/29/2010		7/28/2010		7/28/2010	
UNITS		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L	
ANALYTES	CAS NUM	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
PCB 1 (BZ)	2051607	0.00153	Q J	0.866		0.19	J	17.5		15.5		9.19		2.68	
PCB 2 (BZ)	2051618	0.000297	U	0.0241	J	0.0198	Q J	0.455		0.404		0.471		0.00182	U
PCB 3 (BZ)	2051629	0.00111	Q J	0.0172	J	0.055	J	2.35		2.14		1.95		0.0688	
PCB 4 (BZ)	13029088	0.00629	Q B J	10.4	B	1.75	B	38.3	B	36.2	B	8.71	B	6.63	
PCB 5 (BZ)	16605917	0.000799	Q J	0.00813	Q J	0.0178	Q J	0.101	Q	0.103		0.0488	Q J	0.00936	J
PCB 6 (BZ)	25569806	0.00248	Q J	0.469		0.29	Q	5.14		4.92		2.4		0.359	
PCB 7 (BZ)	33284503	0.00164	Q J	0.0342	Q J	0.0293	Q J	0.266		0.257		0.112	Q J	0.0252	J
PCB 8 (BZ)	34883437	0.0109	Q B J	0.343	B	1.67	B	11.7	B	11.6	B	4.53	B	0.975	B
PCB 9 (BZ)	34883391	0.00129	U	0.0793		0.0729	Q J	0.528		0.502		0.192	Q J	0.0392	Q J
PCB 10 (BZ)	33146451	0.00138	U	0.127	Q	0.0844	Q J	0.937		0.841		0.112	Q J	0.151	
PCB 11 (BZ)	2050671	0.0449	Q B J	0.0617	Q B	0.0298	Q B J	0.055	Q B J	0.0494	Q B J	0.117	Q B J	0.0383	Q B J
PCB 12 (BZ)	2974927	0.00107	Q C J	0.0193	Q C J	0.0495	Q C J	0.419	C	0.401	C	0.301	Q C J	0.0158	Q C J
PCB 13 (BZ)	2974905	0.00107	Q C12 J	0.0193	Q C12 J	0.0495	Q C12 J	0.419	C12	0.401	C12	0.301	Q C12 J	0.0158	Q C12 J
PCB 14 (BZ)	34883415	0.00108	U	0.0038	U	0.0122	U	0.00225	U	0.00216	U	0.0214	U	0.00488	U
PCB 15 (BZ)	2050682	0.00386	Q J	0.0152	Q J	0.669		2.27		2.12		0.925		0.0978	Q
PCB 16 (BZ)	38444789	0.00611	Q J	0.22		1.42		3.56		3.41		1.17		0.427	
PCB 17 (BZ)	37680663	0.00699	J	1.11		1.32		4.27		4.15		1.33	S	0.579	
PCB 18 (BZ)	37680652	0.014	C J	1.25	C	3.33	C	8.72	C	8.27	C	2.93	C	1.14	C
PCB 19 (BZ)	38444734	0.00309	J	1.33		0.817		4.16		3.95		0.743		0.423	
PCB 20 (BZ)	38444847	0.0129	B C J	0.599	B C	3.34	B C	2.77	B C	2.78	B C	1.63	B C	0.358	B C
PCB 21 (BZ)	55702460	0.00578	Q B C J	0.0941	B C	1.61	B C	1.38	B C	1.35	B C	0.835	B C	0.177	C
PCB 22 (BZ)	38444858	0.00474	J	0.0721		1.04		0.902		0.874		0.543		0.115	
PCB 23 (BZ)	55720440	0.000524	U	0.00185	U	0.00887	U	0.00262	J	0.00362	J	0.00832	U	0.00235	U
PCB 24 (BZ)	55702459	0.000709	U	0.00297	U	0.0483	Q J	0.124		0.00184	U	0.0265	J	0.00661	Q J
PCB 25 (BZ)	55712373	0.000468	U	0.455		0.266		0.53		0.513		0.347	J	0.0495	Q
PCB 26 (BZ)	38444814	0.00207	Q C J	0.805	C	0.627	C	1.01	C	0.981	C	0.538	C	0.114	C
PCB 27 (BZ)	38444767	0.00138	J	1.82		0.262		4.13		4.11		0.369	J	0.157	
PCB 28 (BZ)	7012375	0.0129	B C20 J	0.599	B C20	3.34	B C20	2.77	B C20	2.78	B C20	1.63	B C20	0.358	B C20
PCB 29 (BZ)	15862074	0.00207	Q C26 J	0.805	C26	0.627	C26	1.01	C26	0.981	C26	0.538	C26	0.114	C26
PCB 30 (BZ)	35693926	0.014	C18 J	1.25	C18	3.33	C18	8.72	C18	8.27	C18	2.93	C18	1.14	C18
PCB 31 (BZ)	16606023	0.0111	B J	0.37	B	2.88	B	2.81	B	2.74	B	1.73	B	0.398	B
PCB 32 (BZ)	38444778	0.00554	Q J	0.738	S	1.06		2.5		2.39		0.437	S	0.377	
PCB 33 (BZ)	38444869	0.00578	Q B C21 J	0.0941	B C21	1.61	B C21	1.38	B C21	1.35	B C21	0.835	B C21	0.177	C21
PCB 34 (BZ)	37680685	0.000516	U	0.00469	Q J	0.0143	J	0.0214	J	0.0217	J	0.00819	U	0.00231	U
PCB 35 (BZ)	37680696	0.000531	U	0.00187	U	0.0309	Q J	0.0151	J	0.0149	J	0.00842	U	0.00238	U
PCB 36 (BZ)	38444870	0.000513	U	0.0342	J	0.00867	U	0.00131	U	0.00129	U	0.00814	U	0.0023	U
PCB 37 (BZ)	38444905	0.00285	J	0.0138	J	0.925		0.33		0.316		0.196	J	0.035	J
PCB 38 (BZ)	53555661	0.000541	U	0.00191	U	0.00915	U	0.00146	Q J	0.00136	U	0.00858	U	0.00242	U
PCB 39 (BZ)	38444881	0.000481	U	0.00169	U	0.0129	Q J	0.00486	J	0.00598	Q J	0.00763	U	0.00215	U
PCB 40 (BZ)	38444938	0.00629	C J	0.41	C	1.61	C	0.645	C	0.627	C	0.778	C	0.202	C

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LOCATION ID		MB-MW-01		MB-MW-02		MB-MW-03		MB-MW-04		MB-MW-04-DUP		MB-MW-05		MB-MW-06	
SAMP DATE		7/29/2010		7/26/2010		7/27/2010		7/29/2010		7/29/2010		7/28/2010		7/28/2010	
UNITS		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L	
ANALYTES	CAS NUM	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
PCB 41 (BZ)	52663599	0.00629	C40 J	0.41	C40	1.61	C40	0.645	C40	0.627	C40	0.778	C40	0.202	C40
PCB 42 (BZ)	36559225	0.00239	J	0.297		0.709		0.29		0.283		0.356	J	0.0883	
PCB 43 (BZ)	70362468	0.00067	U	0.0508	Q C	0.123	C J	0.0564	C	0.0606	C	0.058	C J	0.0153	C J
PCB 44 (BZ)	41464395	0.0268	B C J	1.49	B C	3.03	B C	1.45	B C	1.43	B C	1.48	B C	0.453	B C
PCB 45 (BZ)	70362457	0.00516	B C J	0.564	B C	0.794	B C	0.731	B C	0.713	B C	0.377	B C J	0.15	B C
PCB 46 (BZ)	41464475	0.00138	Q J	0.343		0.285		0.351		0.338		0.133	J	0.0513	
PCB 47 (BZ)	2437798	0.0268	B C44 J	1.49	B C44	3.03	B C44	1.45	B C44	1.43	B C44	1.48	B C44	0.453	B C44
PCB 48 (BZ)	70362479	0.00202	J	0.054		0.526		0.191		0.187		0.268	J	0.07	
PCB 49 (BZ)	41464408	0.00584	C J	1.68	C	1.79	C	1.08	C	1.06	C	0.871	C	0.275	C
PCB 50 (BZ)	62796650	0.00163	Q C J	1.37	C	0.668	C	1.17	C	1.14	C	0.322	C J	0.145	C
PCB 51 (BZ)	68194047	0.00516	B C45 J	0.564	B C45	0.794	B C45	0.731	B C45	0.713	B C45	0.377	B C45 J	0.15	B C45
PCB 52 (BZ)	35693993	0.0156	B J	2.16	B	4.75	B	1.99	B	1.93	B	1.54	B	0.538	
PCB 53 (BZ)	41464419	0.00163	Q C50 J	1.37	C50	0.668	C50	1.17	C50	1.14	C50	0.322	C50 J	0.145	C50
PCB 54 (BZ)	15968055	0.000774	U	0.0927		0.0111	U	0.159		0.156		0.0179	U	0.00359	U
PCB 55 (BZ)	74338242	0.000556	U	0.00407	Q J	0.0404	Q J	0.00117	U	0.00794	Q J	0.0168	Q J	0.003	U
PCB 56 (BZ)	41464431	0.00225	Q J	0.0577		0.907		0.186		0.178		0.384	J	0.0771	
PCB 57 (BZ)	70424678	0.000529	U	0.0205	J	0.01	Q J	0.00525	J	0.00457	Q J	0.00834	U	0.00285	U
PCB 58 (BZ)	41464497	0.000526	U	0.00539	Q J	0.0077	U	0.00111	U	0.00111	U	0.0083	U	0.00284	U
PCB 59 (BZ)	74472336	0.00122	C J	0.086	C	0.254	C	0.109	C	0.106	C	0.107	C J	0.0298	C J
PCB 60 (BZ)	33025411	0.00143	Q J	0.016	Q J	0.448		0.0788		0.0692		0.196	J	0.0252	Q J
PCB 61 (BZ)	33284536	0.00987	B C J	0.456	B C	3.78	B C	0.76	B C	0.749	B C	1.52	B C	0.313	B C
PCB 62 (BZ)	54230227	0.00122	C59 J	0.086	C59	0.254	C59	0.109	C59	0.106	C59	0.107	C59 J	0.0298	C59 J
PCB 63 (BZ)	74472347	0.00049	U	0.0295	J	0.0686	J	0.0237	J	0.0244	J	0.0364	J	0.00644	Q J
PCB 64 (BZ)	52663588	0.00537	B J	0.151	B	1.11	B	0.318	B	0.308	B	0.525	B	0.128	
PCB 65 (BZ)	33284547	0.0268	B C44 J	1.49	B C44	3.03	B C44	1.45	B C44	1.43	B C44	1.48	B C44	0.453	B C44
PCB 66 (BZ)	32598100	0.00477	J	0.313		1.96		0.395		0.39		0.79		0.167	
PCB 67 (BZ)	73575538	0.000476	U	0.0122	Q J	0.056	J	0.0182	J	0.017	J	0.0243	J	0.00257	U
PCB 68 (BZ)	73575527	0.00393	J	0.0275	J	0.00702	U	0.0126	J	0.0135	J	0.022	J	0.00641	Q B J
PCB 69 (BZ)	60233241	0.00584	C49 J	1.68	C49	1.79	C49	1.08	C49	1.06	C49	0.871	C49	0.275	C49
PCB 70 (BZ)	32598111	0.00987	B C61 J	0.456	B C61	3.78	B C61	0.76	B C61	0.749	B C61	1.52	B C61	0.313	B C61
PCB 71 (BZ)	41464464	0.00629	C40 J	0.41	C40	1.61	C40	0.645	C40	0.627	C40	0.778	C40	0.202	C40
PCB 72 (BZ)	41464420	0.000515	U	0.0295	J	0.0157	Q J	0.012	J	0.0139	J	0.00812	U	0.00278	U
PCB 73 (BZ)	74338231	0.00067	U	0.0508	Q C43	0.123	C43 J	0.0564	C43	0.0606	C43	0.058	C43 J	0.0153	C43 J
PCB 74 (BZ)	32690930	0.00987	B C61 J	0.456	B C61	3.78	B C61	0.76	B C61	0.749	B C61	1.52	B C61	0.313	B C61
PCB 75 (BZ)	32598122	0.00122	C59 J	0.086	C59	0.254	C59	0.109	C59	0.106	C59	0.107	C59 J	0.0298	C59 J
PCB 76 (BZ)	70362480	0.00987	B C61 J	0.456	B C61	3.78	B C61	0.76	B C61	0.749	B C61	1.52	B C61	0.313	B C61
PCB 77 (BZ)	32598133	0.000497	U	0.00546	Q J	0.231	Q	0.0226	J	0.0224	J	0.0525	J	0.00705	J
PCB 78 (BZ)	70362491	0.000547	U	0.00194	U	0.008	U	0.00115	U	0.00115	U	0.00862	U	0.00295	U
PCB 79 (BZ)	41464486	0.00048	U	0.00437	J	0.0446	J	0.0048	Q J	0.00473	J	0.00757	U	0.00259	U
PCB 80 (BZ)	33284525	0.000468	U	0.00167	U	0.00685	U	0.000989	U	0.000983	U	0.00739	U	0.00253	U

Table 2
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LOCATION ID		MB-MW-01		MB-MW-02		MB-MW-03		MB-MW-04		MB-MW-04-DUP		MB-MW-05		MB-MW-06	
SAMP DATE		7/29/2010		7/26/2010		7/27/2010		7/29/2010		7/29/2010		7/28/2010		7/28/2010	
UNITS		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L	
ANALYTES	CAS NUM	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
PCB 81 (BZ)	70362504	0.000494	U	0.00177	U	0.0084	J	0.00104	U	0.00105	U	0.00805	U	0.00267	U
PCB 82 (BZ)	52663624	0.000758	U	0.0723		0.525	Q	0.0496		0.0477		0.103	J	0.0257	J
PCB 83 (BZ)	60145202	0.00488	C J	0.463	C	2.29	C	0.26	C	0.265	C	0.37	C J	0.138	C
PCB 84 (BZ)	52663602	0.00283	J	0.348		1.45	Q	0.195		0.195		0.211	Q J	0.0826	
PCB 85 (BZ)	65510454	0.000737	Q C J	0.094	C	0.641	C	0.0537	C	0.0559	C	0.143	C J	0.0376	C J
PCB 86 (BZ)	55312691	0.00609	Q B C J	0.439	B C	2.91	B C	0.272	B C	0.278	B C	0.492	Q B C	0.137	Q C
PCB 87 (BZ)	38380028	0.00609	Q B C86 J	0.439	B C86	2.91	B C86	0.272	B C86	0.278	B C86	0.492	Q B C86	0.137	Q C86
PCB 88 (BZ)	55215173	0.000646	U	0.286	C	0.655	C	0.0936	C	0.0972	C	0.114	Q C J	0.0478	C
PCB 89 (BZ)	73575572	0.000701	U	0.00635	J	0.0393	Q J	0.00524	J	0.00448	Q J	0.0119	U	0.00384	U
PCB 90 (BZ)	68194070	0.00983	B C J	0.81	B C	5	B C	0.537	B C	0.539	B C	0.715	B C	0.246	B C
PCB 91 (BZ)	68194058	0.000646	U	0.286	C88	0.655	C88	0.0936	C88	0.0972	C88	0.114	Q C88 J	0.0478	C88
PCB 92 (BZ)	52663613	0.00103	Q J	0.26		0.803		0.114		0.112		0.126	J	0.0437	Q
PCB 93 (BZ)	73575561	0.000623	U	0.0027	U	0.0364	Q C J	0.019	Q C J	0.0208	C J	0.0115	C J	0.00321	Q C J
PCB 94 (BZ)	73575550	0.000701	U	0.0339	J	0.0122	U	0.0129	J	0.0121	J	0.0119	U	0.00384	U
PCB 95 (BZ)	38379996	0.00951	J	1.14		4.85		0.645		0.646		0.63		0.3	
PCB 96 (BZ)	73575549	0.000524	U	0.0285	J	0.0405	J	0.00935	Q J	0.0101	J	0.00892	U	0.00287	U
PCB 97 (BZ)	41464511	0.00609	Q B C86 J	0.439	B C86	2.91	B C86	0.272	B C86	0.278	B C86	0.492	Q B C86	0.137	Q C86
PCB 98 (BZ)	60233252	0.000604	U	0.0496	C	0.155	C J	0.0299	C J	0.0294	C J	0.0349	C J	0.014	C J
PCB 99 (BZ)	38380017	0.00488	C83 J	0.463	C83	2.29	C83	0.26	C83	0.265	C83	0.37	C83 J	0.138	C83
PCB 100 (BZ)	39485831	0.000623	U	0.0027	U	0.0364	Q C93 J	0.019	Q C93 J	0.0208	C93 J	0.0115	C93 J	0.00321	Q C93 J
PCB 101 (BZ)	37680732	0.00983	B C90 J	0.81	B C90	5	B C90	0.537	B C90	0.539	B C90	0.715	B C90	0.246	B C90
PCB 102 (BZ)	68194069	0.000604	U	0.0496	C98	0.155	C98 J	0.0299	C98 J	0.0294	C98 J	0.0349	C98 J	0.014	C98 J
PCB 103 (BZ)	60145213	0.000615	U	0.0236	Q J	0.0107	U	0.0111	J	0.00903	Q J	0.0105	U	0.00337	U
PCB 104 (BZ)	56558168	0.000467	U	0.00203	U	0.00814	U	0.000961	U	0.00107	U	0.00794	U	0.00256	U
PCB 105 (BZ)	32598144	0.00256	J	0.105		1.28		0.0781		0.0799		0.245	J	0.0611	
PCB 106 (BZ)	70424690	0.000459	U	0.00173	U	0.00841	U	0.00091	U	0.001	U	0.00768	U	0.00215	U
PCB 107 (BZ)/109 (IUPAC)	70424689	0.000446	U	0.043		0.247		0.0236	J	0.0237	J	0.0345	J	0.00757	Q J
PCB 108 (BZ)/107 (IUPAC)	70362413	0.000468	U	0.0138	C J	0.147	C J	0.00875	C J	0.00841	C J	0.0217	Q C J	0.00537	C J
PCB 109 (BZ)/108 (IUPAC)	74472358	0.00609	Q B C86 J	0.439	B C86	2.91	B C86	0.272	B C86	0.278	B C86	0.492	Q B C86	0.137	Q C86
PCB 110 (BZ)	38380039	0.0112	B C J	0.942	B C	5.52	B C	0.535	B C	0.524	B C	0.836	B C	0.303	C
PCB 111 (BZ)	39635320	0.000439	U	0.00191	U	0.00765	U	0.000903	U	0.00101	U	0.00747	U	0.00241	U
PCB 112 (BZ)	74472369	0.000477	U	0.00207	U	0.00831	U	0.00098	U	0.00109	U	0.00811	U	0.00261	U
PCB 113 (BZ)	68194105	0.00983	B C90 J	0.81	B C90	5	B C90	0.537	B C90	0.539	B C90	0.715	B C90	0.246	B C90
PCB 114 (BZ)	74472370	0.000415	U	0.00487	Q J	0.0844	J	0.0037	Q J	0.00432	J	0.0138	Q J	0.00207	Q J
PCB 115 (BZ)	74472381	0.0112	B C11 0 J	0.942	B C11 0	5.52	B C11 0	0.535	B C11 0	0.524	B C11 0	0.836	B C11 0	0.303	C11 0
PCB 116 (BZ)	18259057	0.000737	Q C85 J	0.094	C85	0.641	C85	0.0537	C85	0.0559	C85	0.143	C85 J	0.0376	C85 J
PCB 117 (BZ)	68194116	0.000737	Q C85 J	0.094	C85	0.641	C85	0.0537	C85	0.0559	C85	0.143	C85 J	0.0376	C85 J
PCB 118 (BZ)	31508006	0.00691	B J	0.407	B	3.53	B	0.282	B	0.282	B	0.557	B	0.164	B
PCB 119 (BZ)	56558179	0.00609	Q B C86 J	0.439	B C86	2.91	B C86	0.272	B C86	0.278	B C86	0.492	Q B C86	0.137	Q C86
PCB 120 (BZ)	68194127	0.000452	U	0.00196	U	0.00787	U	0.000929	U	0.00167	Q J	0.00768	U	0.00248	U

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SAMP DATE		7/29/2010		7/26/2010		7/27/2010		7/29/2010		7/29/2010		7/28/2010		7/28/2010	
UNITS		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L	
ANALYTES	CAS NUM	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
PCB 121 (BZ)	56558180	0.000455	U	0.00198	U	0.00793	U	0.000936	U	0.00104	U	0.00774	U	0.0025	U
PCB 122 (BZ)	76842074	0.0005	U	0.00411	Q J	0.0561	J	0.00336	J	0.00332	J	0.00836	U	0.00234	U
PCB 123 (BZ)	65510443	0.000477	U	0.00347	Q J	0.0481	Q J	0.00519	J	0.00467	J	0.0113	Q J	0.00242	Q J
PCB 124 (BZ)	70424703	0.000468	U	0.0138	C10 8 J	0.147	C10 8 J	0.00875	C10 8 J	0.00841	C10 8 J	0.0217	Q C10 8 J	0.00537	C10 8 J
PCB 125 (BZ)	74472392	0.00609	Q B C86 J	0.439	B C86	2.91	B C86	0.272	B C86	0.278	B C86	0.492	Q B C86	0.137	Q C86
PCB 126 (BZ)	57465288	0.00045	U	0.00337	Q J	0.0962	Q J	0.00281	Q J	0.00307	J	0.00744	U	0.00219	U
PCB 127 (BZ)	39635331	0.000454	U	0.00171	U	0.00832	U	0.000899	U	0.000989	U	0.00759	U	0.00213	U
PCB 128 (BZ)	38380073	0.000999	Q C J	0.0717	C	0.965	C	0.0492	C	0.0474	C	0.0836	Q C J	0.0308	C J
PCB 129 (BZ)	55215184	0.00925	B C J	0.478	B C	5.72	B C	0.389	B C	0.374	B C	0.652	B C	0.237	B C
PCB 130 (BZ)	52663668	0.000923	U	0.0286	J	0.269		0.019	J	0.0196	J	0.024	Q J	0.00399	U
PCB 131 (BZ)	61798707	0.000945	U	0.00653	J	0.0578	Q J	0.00576	Q J	0.00475	J	0.0145	U	0.00409	U
PCB 132 (BZ)	38380051	0.0028	Q J	0.193		1.85		0.155		0.152		0.216	J	0.0846	
PCB 133 (BZ)	35694043	0.000867	U	0.00774	J	0.0976	J	0.00775	J	0.00716	J	0.0133	U	0.00375	U
PCB 134 (BZ)	52704708	0.000924	U	0.0434	C	0.322	C	0.0289	C J	0.0248	Q C J	0.0302	Q C J	0.0095	Q C J
PCB 135 (BZ)	52744135	0.00419	Q C J	0.187	C	2	C	0.181	C	0.165	C	0.255	C J	0.0749	Q C
PCB 136 (BZ)	38411222	0.0014	Q J	0.0859		0.79		0.0832		0.0818	0	0.0733	Q J	0.0277	J
PCB 137 (BZ)	35694065	0.000796	U	0.0224	J	0.217		0.0115	J	0.0103	Q J	0.0215	Q J	0.0069	Q J
PCB 138 (BZ)	35065282	0.00925	B C12 9 J	0.478	B C12 9	5.72	B C12 9	0.389	B C12 9	0.374	B C12 9	0.652	B C12 9	0.237	B C12 9
PCB 139 (BZ)	56030569	0.000791	U	0.00958	C J	0.0726	Q C J	0.00628	C J	0.00536	C J	0.0121	U	0.00342	U
PCB 140 (BZ)	59291644	0.000791	U	0.00958	C13 9 J	0.0726	Q C13 9 J	0.00628	C13 9 J	0.00536	C13 9 J	0.0121	U	0.00342	U
PCB 141 (BZ)	52712046	0.00121	Q J	0.0736		1.24		0.0805		0.0731	0	0.124	Q J	0.044	
PCB 142 (BZ)	41411614	0.000909	U	0.00277	U	0.0174	U	0.00167	U	0.00168	U	0.0139	U	0.00393	U
PCB 143 (BZ)	68194150	0.000924	U	0.0434	C13 4	0.322	C13 4	0.0289	C13 4 J	0.0248	Q C13 4 J	0.0302	Q C13 4 J	0.0095	Q C13 4 J
PCB 144 (BZ)	68194149	0.000737	U	0.016	Q J	0.282		0.0187	J	0.0189	J	0.032	Q J	0.00861	Q J
PCB 145 (BZ)	74472405	0.000557	U	0.00199	U	0.00929	U	0.00104	U	0.00104	U	0.00907	U	0.0024	U
PCB 146 (BZ)	51908168	0.000752	U	0.0599		0.765		0.0576		0.0566	0	0.0887	J	0.0287	Q J
PCB 147 (BZ)	68194138	0.00803	B C J	0.41	B C	4.67	B C	0.413	B C	0.39	B C	0.541	B C	0.203	B C
PCB 148 (BZ)	74472416	0.000779	U	0.00278	U	0.013	U	0.00146	U	0.00145	U	0.0127	U	0.00335	U
PCB 149 (BZ)	38380040	0.00803	B C14 7 J	0.41	B C14 7	4.67	B C14 7	0.413	B C14 7	0.39	B C14 7	0.541	B C14 7	0.203	B C14 7
PCB 150 (BZ)	68194081	0.000543	U	0.00194	U	0.00905	U	0.00101	U	0.00101	U	0.00884	U	0.00234	U
PCB 151 (BZ)	52663635	0.00419	Q C13 5 J	0.187	C13 5	2	C13 5	0.181	C13 5	0.165	C13 5	0.255	C13 5 J	0.0749	Q C13 5
PCB 152 (BZ)	68194092	0.000554	U	0.00198	U	0.00923	U	0.00103	U	0.00103	U	0.00902	U	0.00238	U
PCB 153 (BZ)	35065271	0.00701	B C J	0.308	B C	4.73	B C	0.327	B C	0.308	B C	0.553	B C	0.19	B C
PCB 154 (BZ)	60145224	0.000646	U	0.00231	U	0.0491	J	0.00576	J	0.00703	Q J	0.00763	Q J	0.00278	U
PCB 155 (BZ)	33979032	0.000528	U	0.00189	U	0.0088	U	0.000987	U	0.000986	U	0.0086	U	0.00227	U
PCB 156 (BZ)	38380084	0.000733	U	0.0455	C	0.526	C	0.0301	C J	0.0302	C J	0.0588	C J	0.0194	C J
PCB 157 (BZ)	69782907	0.000733	U	0.0455	C15 6	0.526	C15 6	0.0301	C15 6 J	0.0302	C15 6 J	0.0588	C15 6 J	0.0194	C15 6 J
PCB 158 (BZ)	74472427	0.000564	U	0.041		0.57		0.0327	J	0.0313	Q J	0.0526	Q J	0.0195	J
PCB 159 (BZ)	39635353	0.000605	U	0.00184	U	0.052	J	0.00362	J	0.00208	Q J	0.00927	U	0.00261	U
PCB 160 (BZ)	41411625	0.00925	B C12 9 J	0.478	B C12 9	5.72	B C12 9	0.389	B C12 9	0.374	B C12 9	0.652	B C12 9	0.237	B C12 9

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SAMP DATE		7/29/2010		7/26/2010		7/27/2010		7/29/2010		7/29/2010		7/28/2010		7/28/2010	
UNITS		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L	
ANALYTES	CAS NUM	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
PCB 161 (BZ)	74472438	0.000602	U	0.00183	U	0.0115	U	0.0011	U	0.00111	U	0.00922	U	0.0026	U
PCB 162 (BZ)	39635342	0.000597	U	0.00182	U	0.00849	Q J	0.0011	U	0.0011	U	0.00915	U	0.00258	U
PCB 163 (BZ)	74472449	0.00925	B C12 9 J	0.478	B C12 9	5.72	B C12 9	0.389	B C12 9	0.374	B C12 9	0.652	B C12 9	0.237	B C12 9
PCB 164 (BZ)	74472450	0.000629	U	0.0347	J	0.37		0.0271	J	0.0266	J	0.0371	J	0.0126	Q J
PCB 165 (BZ)	74472461	0.000661	U	0.00201	U	0.0127	U	0.00121	U	0.00122	U	0.0101	U	0.00286	U
PCB 166 (BZ)	41411636	0.000999	Q C12 8 J	0.0717	C12 8	0.965	C12 8	0.0492	C12 8	0.0474	C12 8	0.0836	Q C12 8 J	0.0308	C12 8 J
PCB 167 (BZ)	52663726	0.000459	U	0.0131	J	0.181	J	0.0101	J	0.0109	J	0.0175	Q J	0.00637	J
PCB 168 (BZ)	59291655	0.00701	B C15 3 J	0.308	B C15 3	4.73	B C15 3	0.327	B C15 3	0.308	B C15 3	0.553	B C15 3	0.19	B C15 3
PCB 169 (BZ)	32774166	0.000474	U	0.00149	U	0.62	Q	0.000745	J	0.00336	Q J	0.00721	U	0.00214	U
PCB 170 (BZ)	35065306	0.000734	U	0.0523		1.5		0.091		0.0834		0.176	J	0.0539	
PCB 171 (BZ)	52663715	0.000665	U	0.0155	C J	0.452	C	0.0257	Q C J	0.0248	C J	0.0525	C J	0.0165	Q C J
PCB 172 (BZ)	52663748	0.000659	U	0.00727	J	0.277		0.0117	Q J	0.0133	J	0.0107	U	0.00786	J
PCB 173 (BZ)	68194161	0.000665	U	0.0155	C17 1 J	0.452	C17 1	0.0257	Q C17 1 J	0.0248	C17 1 J	0.0525	C17 1 J	0.0165	Q C17 1 J
PCB 174 (BZ)	38411255	0.00302	Q J	0.0463		1.88		0.105		0.0987		0.192	J	0.0633	
PCB 175 (BZ)	40186707	0.000592	U	0.0017	U	0.0626	Q J	0.00294	Q J	0.00296	J	0.00959	U	0.00255	U
PCB 176 (BZ)	52663657	0.000451	U	0.00639	Q J	0.213		0.0129	Q J	0.0126	J	0.0212	Q J	0.00544	Q J
PCB 177 (BZ)	52663704	0.000632	U	0.0221	Q J	1.03		0.0547		0.0507		0.0794	Q J	0.0252	Q J
PCB 178 (BZ)	52663679	0.00064	U	0.0103	J	0.544		0.0243	J	0.0213	J	0.0417	Q J	0.0092	Q J
PCB 179 (BZ)	52663646	0.000476	U	0.0232	J	1.14		0.0548		0.0527		0.113	J	0.0238	Q J
PCB 180 (BZ)	35065293	0.00458	C J	0.0912	C	6.11	C	0.211	C	0.197	C	0.451	C	0.136	C
PCB 181 (BZ)	74472472	0.000592	U	0.0017	U	0.0117	U	0.00125	U	0.00114	U	0.00959	U	0.00255	U
PCB 182 (BZ)	60145235	0.000575	U	0.00165	U	0.0214	J	0.00121	U	0.00111	U	0.00932	U	0.00248	U
PCB 183 (BZ)	52663691	0.000588	U	0.0328	C J	1.66	C	0.0724	C	0.0672	C	0.166	C J	0.0367	C J
PCB 184 (BZ)	74472483	0.000489	U	0.0014	U	0.00969	U	0.00103	U	0.000942	U	0.00791	U	0.0021	U
PCB 185 (BZ)	52712057	0.000588	U	0.0328	C18 3 J	1.66	C18 3	0.0724	C18 3	0.0672	C18 3	0.166	C18 3 J	0.0367	C18 3 J
PCB 186 (BZ)	74472494	0.000474	U	0.00136	U	0.0094	U	0.001	U	0.000915	U	0.00768	U	0.00204	U
PCB 187 (BZ)	52663680	0.00252	Q J	0.0861		9.58		0.193		0.183		0.468		0.0868	
PCB 188 (BZ)	74487857	0.00106	Q J	0.00117	U	0.00794	U	0.000868	U	0.000783	U	0.00642	U	0.00173	U
PCB 189 (BZ)	39635319	0.000413	U	0.00118	U	0.047	J	0.00212	J	0.00215	J	0.00652	U	0.00177	U
PCB 190 (BZ)	41411647	0.000459	U	0.012	J	0.218		0.0135	J	0.0151	J	0.0224	J	0.0117	J
PCB 191 (BZ)	74472507	0.000451	U	0.00129	U	0.0687	J	0.00406	J	0.00326	Q J	0.0073	U	0.00194	U
PCB 192 (BZ)	74472518	0.000504	U	0.00145	U	0.00998	U	0.00106	U	0.000971	U	0.00816	U	0.00217	U
PCB 193 (BZ)	69782918	0.00458	C18 0 J	0.0912	C18 0	6.11	C18 0	0.211	C18 0	0.197	C18 0	0.451	C18 0	0.136	C18 0
PCB 194 (BZ)	35694087	0.0016	J	0.0286	J	9.16		0.112		0.11		0.326	J	0.0418	
PCB 195 (BZ)	52663782	0.000632	U	0.00339	Q J	0.578		0.016	J	0.0161	J	0.0346	Q J	0.00828	J
PCB 196 (BZ)	42740501	0.000682	U	0.0145	J	3.47		0.0459	Q	0.0433	Q	0.16	Q J	0.0187	J
PCB 197 (BZ)	33091177	0.000507	U	0.00104	U	0.112	J	0.00149	Q J	0.00175	Q J	0.00768	U	0.00147	U
PCB 198 (BZ)	68194172	0.00534	C J	0.12	C	36.5	C	0.347	C	0.336	C	1.24	C	0.0931	C
PCB 201 (BZ)/199 (IUPAC)	52663759	0.00534	C19 8 J	0.12	C19 8	36.5	C19 8	0.347	C19 8	0.336	C19 8	1.24	C19 8	0.0931	C19 8
PCB 199 (BZ)/200 (IUPAC)	52663737	0.000498	U	0.0055	Q J	1.41		0.0178	J	0.0182	J	0.0467	Q J	0.00557	Q J
PCB 200 (BZ)/201 (IUPAC)	40186718	0.000481	U	0.0083	J	2.24		0.0252	J	0.0258	J	0.0813	J	0.00597	J

Table 2
Summary of PCB Congeners Analytical Results - Round 1
Metal Bank Superfund Site
Philadelphia, PA

LOCATION ID		MB-MW-01		MB-MW-02		MB-MW-03		MB-MW-04		MB-MW-04-DUP		MB-MW-05		MB-MW-06	
SAMP DATE		7/29/2010		7/26/2010		7/27/2010		7/29/2010		7/29/2010		7/28/2010		7/28/2010	
UNITS		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L	
ANALYTES	CAS NUM	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
PCB 202 (BZ)	2136994	0.00173	J	0.039	J	11		0.112		0.108		0.352	J	0.0269	J
PCB 203 (BZ)	52663760	0.00372	Q J	0.0787		27.8		0.258		0.251		0.863		0.0652	
PCB 204 (BZ)	74472529	0.000527	U	0.00108	U	0.00822	U	0.000958	U	0.000969	U	0.00799	U	0.00153	U
PCB 205 (BZ)	74472530	0.00049	U	0.000891	U	0.073	J	0.00194	Q J	0.0019	Q J	0.00679	U	0.00145	U
PCB 206 (BZ)	40186729	0.0092	J	0.139		68.6		0.541		0.541		1.98		0.149	
PCB 207 (BZ)	52663793	0.000508	U	0.0106	J	5.33		0.0459		0.0465		0.157	J	0.00965	J
PCB 208 (BZ)	52663771	0.00283	Q J	0.0586		25.4		0.206		0.211		0.768		0.0502	
PCB 209 (BZ)	2051243	0.000735	U	0.0308	J	16.9		0.119		0.12		0.483		0.0532	

Notes:
J - The reported result is an estimate. The amount reported is below the Estimated Minimum Level (EML). EML is defined by the method as the lowest concetration at which the analyte can be measured reliably with common laboratory interferences present. This value has been determined for each congener by MDL and laboratory method blank studies. The value is adjusted to reflect the sample specific initial and final volumes.
E - The reported result is an estimate. The amount reported is above the Upper Calibration Level (UCL). The quantitative definition of the UCL is listed below:
Upper Calibration Level: The concentration of mass of analyte in the sample that corresponds to the highest calibration level in the initial cailibration. It is equivalent to the concentration of the highest calibration standard, assuming that all method-specified sample weights, volumes and cleanup procedures have been employed.
B - The analyte is present in the associated method blank at a detectable level for this analysis, there is no method specified reporting level, other than the qualitative criterion that peaks must exhibit a signal-to-noise ratio of ≥2.5 to 1. Therefore, the presence of any reportable amount of the analyte in the blank will results a B qualifier on all associated samples. Note: Some laboratories do not report contamination in the blank unless it is above their lower calibration limit, or an established percentage of the level in the samples, or an established percentage of hte regulatory limit. Likewise, some laboratories set a reporting limit at one halve the lower calibration limit.

Q - Estimated maximum possible concentration. This qualifier is used when the result is generated from chromatographic data that does not meet all the qualitative criteria for a positive identification given in the method. These criteria invlude the following: Ion abundance ratios must be within specified limits (+/015% of theoretical ion abundance ratio); Retention time criteria (relative to the method-spevified isotope labeled retention time standard); Co-maximization criterion. The two quantitation ion peaks must reach their maxima within 2 seconds of each other.
S - Ion suppression evident. The trace indicating the signal from the lock mass of the calibration compound shows a deflection at the retention time of the analyte. This may indicated a temporary suppression of the instrument sensitivity due to a matrix-borne interference.
C - Coeluting Isomer. The isomer is known to coelute with another member of its homologue group, or the peak shape is shouldered, indicating the likelihood of a coeluting isomer. When the C flag is followed by a number, the number indicated the lowest numbered congener among the coelution set. For example, if 100 pg/L is detected at the retention time of PCB 156, and PCB 157 is known to coelute with PCB 156, the results will be flagged as follows: PCB 156 100 pg/L C; PCB 157 100 pg/L C156. In certain electronic deliverables, the result field for PCB 157 will be null, with "C156" appearing in the qualifier field in accordance with the CARP EDD specification.
U - Not detected at or above the stated limit.

Table 3
Summary of Dioxins Analytical Results - Round 1
Metal Bank Superfund Site
Philadelphia, PA

LOCATION ID		Project	MB-MW-01		MB-MW-02		MB-MW-03		MB-MW-04		MB-MW-04-DUP		MB-MW-05		MB-MW-06	
SAMP DATE		Action	7/29/2010		7/26/2010		7/27/2010		7/29/2010		7/29/2010		7/28/2010		7/28/2010	
UNITS		Limit	ug/L		pg/L		pg/L		ug/L		ug/L		pg/L		pg/L	
ANALYTES	CAS NUM	pg/L	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
2,3,7,8-TCDF	51207319	0.019	2.87	U	2.92	U	2.48	U	2.37	U	4.46	U	2.79	U	2.13	U
1,2,3,7,8-PeCDF	57117416	NA	1.57	U	1.66	U	1.47	U	1.49	U	2.55	U	1.62	U	1.22	U
2,3,4,7,8-PeCDF	57117314	NA	1.41	U	1.48	U	1.28	U	1.33	U	2.15	U	1.41	U	1.01	U
1,2,3,4,7,8-HxCDF	70648269	NA	1.16	U	1.08	U	1.29	Q J	0.886	U	1.54	U	0.989	U	0.88	U
2,3,4,6,7,8-HxCDF	60851345	NA	1.24	U	1.19	U	1.03	U	0.992	U	1.73	U	1.06	U	0.977	U
1,2,3,7,8,9-HxCDF	72918219	NA	1.39	U	1.32	U	1.2	U	1.13	U	2.21	U	1.19	U	1.16	U
1,2,3,4,6,7,8-HpCDF	67562394	NA	1.5	U	1.54	U	8.8	J	1.18	U	1.84	U	3.73	Q J	7.49	J
OCDF	39001020	NA	2.66	U	7.03	Q J	10.7	Q J	2.21	U	3.48	U	13	Q J	26	J
2,3,7,8-TCDD	1746016	NA	4.94	U	4.75	U	3.67	U	3.95	U	6.26	U	4.02	U	3.25	U
1,2,3,7,8-PeCDD	40321764	NA	2.33	U	2.15	U	1.79	U	1.84	U	3.12	U	1.96	U	1.67	U
1,2,3,7,8,9-HxCDD	19408743	NA	1.48	U	1.48	U	1.36	U	1.62	U	2.51	U	1.52	U	1.43	U
1,2,3,4,6,7,8-HpCDD	35822469	NA	2.31	U	4.6	J	17.9	J	2.06	U	3.63	U	18.6	J	32.7	J
OCDD	3268879	NA	6.29	J	43.8	J	120		21.1	J	8.58	J	247		480	
1,2,3,6,7,8-HxCDF	57117449	NA	1.15	U	1.09	U	0.928	U	0.933	U	1.42	U	1.01	U	0.895	U
1,2,3,4,7,8,9-HpCDF	55673897	NA	2.03	U	2.22	U	1.84	U	1.72	U	2.68	U	2.1	U	1.79	U
1,2,3,4,7,8-HxCDD	39227286	NA	1.43	U	1.4	U	1.34	U	1.57	U	2.32	U	1.44	U	1.36	U
1,2,3,6,7,8-HxCDD	57653857	NA	1.87	U	1.89	U	1.67	U	2.03	U	3.29	U	1.96	U	1.81	U

J - The reported result is an estimate. The amount reported is below the Minimum Level (ML). The qualitative definition of the ML is "the lowest level at which the analytical system must give a reliable signa and an acceptable calibration point". The ML was introduced in EPA Methods 1624 and 1625 in 1980 and was promulgated in these method in 1984 at 40 CFR Part 136, Appendix A. For the purpose of this report, the ML is qualitatively defined as described above, and quantitatively defined as follows: Minimum Level: The concentration or mass of analyte in the sample that corresponds to the lowest calibration level in the initial calibration. It represents a concentration (in the sample extract) equivalent to that of hte lowest calibration standard, after corrections for method-specified samples weights, volumes and cleanup procedures has been employed.

E - The reported result is an astimate. The amount reported is above the UCL described below. The E qualifier is applied on the badid of the Upper Calibration Level (UCL). The quantitative definition of the UCL is listed below:

Upper Calibration Level: The concetration or mass of analyte in the sample that corresponds to the highest calibration level in the initial calibration. It is equivalent to the concentration of the highest calibration standard, assuming that all method-specified sample weights, volumes and cleanup procedures have been employed.

Q - Esitmated maximum possible concentration. This qualifier is used when the result is generated from chromatographic data that does not meet all the qualitative criteria for positive identification given in the method. The criteria include the following areas: Ion abundance ratios must be within specified limits (+/-15% of theoretical ion abundance ratio); Retention time criteria (relative to the method-specified isotope labeled retention times standard); Co-maximization criterion. The two quantitation ion peak maximizes within +/- 2 seconds of the furan candidate.

U - Not detected at or above the stated limit.

Table 4
Summary of SVOC Analytical Results - Round 1
Metal Bank Superfund Site
Philadelphia, PA

LOCATION ID		Project Action Limit[1]	MB-MW-01		MB-MW-02		MB-MW-03		MB-MW-04		MB-MW-04-DUP		MB-MW-05		MB-MW-06	
SAMP DATE			7/29/2010		7/26/2010		7/27/2010		7/29/2010		7/29/2010		7/28/2010		7/28/2010	
UNITS			ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
ANALYTES	CAS NUM	ug/L	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
Acenaphthene	83329	3800 S	0.585		3.48		1.48	J	4.32		4.41		112		2.08	J
Diethyl phthalate	84662	1100000 S	0.15	U	34		1.58	U	0.501	J	0.153	U	1.52	U	1.55	U
2,4-Dimethylphenol	105679	2000000 G	0.111	J	655	DL	0.92	U	0.332	J	0.265	J	226		0.903	U
Dimethyl phthalate	131113	NA	0.0788	U	0.811	U	0.826	U	0.0796	U	0.0803	U	0.796	U	0.811	U
Di-n-octyl phthalate	117840	3000 S	0.213	U	2.19	U	2.23	U	0.215	U	0.217	U	2.15	U	4.35	J
4,6-Dinitro-2-methylphenol	534521	NA	0.226	U	2.33	U	2.37	U	0.228	U	0.231	U	2.28	U	2.33	U
2,4-Dinitrophenol	51285	410 G	0.631	U	6.5	U	6.62	U	0.637	U	0.644	U	6.37	U	6.5	U
2,4-Dinitrotoluene	121142	8400 G	0.0552	U	0.568	U	0.579	U	0.0557	U	0.0563	U	0.557	U	0.568	U
2,6-Dinitrotoluene	606202	100000 G	0.0821	U	0.845	U	0.861	U	0.0829	U	0.0837	U	0.829	U	0.845	U
Anthracene	120127	66 S	0.0159	U	1.31	J	0.432	J	0.801		0.867		11		0.507	J
Fluoranthene	206440	260 S	0.0167	U	0.172	U	1.48	J	0.0168	U	0.263		9.75		0.61	J
Fluorene	86737	1900 S	0.185	J	1.95	J	0.544	J	2.87		3.19		84.1		0.229	U
Hexachlorobenzene	118741	6 S	0.0188	U	0.194	U	0.198	U	0.019	U	0.0192	U	0.19	U	0.194	U
Hexachlorobutadiene	87683	1000 H	0.0171	U	0.178	U	0.181	U	0.0173	U	0.0174	U	0.175	U	0.178	U
Hexachlorocyclopentadiene	77474	1800 S	0.0534	U	0.549	U	0.559	U	0.0539	U	0.0544	U	0.539	U	0.549	U
Hexachloroethane	67721	100 H	0.0647	U	0.666	U	0.678	U	0.0653	U	0.0659	U	0.653	U	0.666	U
Indeno(1,2,3-cd)pyrene	193395	62 S	0.0205	U	0.211	U	0.215	U	0.0207	U	0.0209	U	0.207	U	0.211	U
Isophorone	78591	100000 H	0.0663	U	0.683	U	0.696	U	0.067	U	0.0676	U	0.67	U	0.683	U
Atrazine	1912249	3 M	0.0919	U	0.946	U	0.963	U	0.0928	U	0.0937	U	0.928	U	0.946	U
2-Methylnaphthalene	91576	2000 G	0.052	J	14		0.389	J	0.167	J	0.151	J	162		0.129	U
2-Methylphenol	95487	510000 G	0.0888	U	64.3		0.931	U	0.151	J	0.152	J	10.5		0.914	U
4-Methylphenol	106445	510001 G	0.228	J	2.96	J	13.7		0.804	J	0.904	J	33.6		0.956	U
Naphthalene	91203	30000 S	0.189	J	823	DL	1.08	J	1.04		1.06		1070	DL	0.148	U
2-Nitroaniline	88744	5.8 G	0.362	U	3.73	U	3.8	U	0.366	U	0.369	U	3.66	U	3.73	U
3-Nitroaniline	99092	5.8 G	0.331	U	3.41	U	3.47	U	0.334	U	0.337	U	3.34	U	3.41	U
4-Nitroaniline	100016	5.8 G	0.178	U	1.83	U	1.86	U	0.179	U	0.181	U	1.79	U	1.83	U
Nitrobenzene	98953	51000 G	0.0868	U	0.894	U	0.91	U	0.0877	U	0.0885	U	0.877	U	0.894	U
2-Nitrophenol	88755	820000 G	0.176	U	1.81	U	1.84	U	0.177	U	0.179	U	1.77	U	1.81	U
4-Nitrophenol	100027	60000 H	0.666	U	6.86	U	6.99	U	0.673	U	0.679	U	6.73	U	6.86	U
Benzo(a)anthracene	56553	11 S	0.0151	U	0.156	U	0.159	U	0.0153	U	0.0154	U	0.153	U	0.156	U
N-Nitrosodi-n-propylamine	621647	370 G	0.0317	U	0.326	U	0.333	U	0.032	U	0.0323	U	0.32	U	0.326	U
N-Nitrosodiphenylamine	86306	35000 S	0.0879	U	0.904	U	0.921	U	0.0887	U	0.619		0.887	U	0.904	U
Benzo(b)fluoranthene	205992	1.2 S	0.0162	U	0.166	U	0.17	U	0.0163	U	0.0165	U	0.163	U	0.19	J
Benzo(k)fluoranthene	207089	0.55 S	0.0563	U	0.58	U	0.591	U	0.0569	U	0.0574	U	0.569	U	0.58	U

Table 4
Summary of SVOC Analytical Results - Round 1
Metal Bank Superfund Site
Philadelphia, PA

LOCATION ID		Project Action Limit[1]		MB-MW-01		MB-MW-02		MB-MW-03		MB-MW-04		MB-MW-04-DUP		MB-MW-05		MB-MW-06	
SAMP DATE				7/29/2010		7/26/2010		7/27/2010		7/29/2010		7/29/2010		7/28/2010		7/28/2010	
UNITS				ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
ANALYTES	CAS NUM	ug/L		RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL	RESULT	QUAL
Benzo(ghi)perylene	191242	0.26	S	0.0156	U	0.16	U	0.163	U	0.0157	U	0.0159	U	0.157	U	0.16	U
Benzo(a)pyrene	50328	3.8	S	0.0138	U	0.142	U	0.145	U	0.0139	U	0.0141	U	0.139	U	0.142	U
Pentachlorophenol	87865	1000	M	0.0683	U	0.703	U	6.49	J	0.069	U	0.0696	U	0.69	U	0.703	U
Phenanthrene	85018	1100	S	0.044	U	3.45		1.16	J	0.728		0.765		92.6		0.815	J
Phenol	108952	400000	H	0.315		1.47	J	1.91	J	6.53		7.02		4.34		0.616	U
Pyrene	129000	130	S	0.0162	U	0.734	J	1.34	J	0.163	J	0.137	J	4.91		0.565	J
Acetophenone	98862	10000	G	0.396	J	0.848	U	0.864	U	0.334	J	0.084	U	0.832	U	0.848	U
2,4,5-Trichlorophenol	95954	100000	S	0.157	U	1.62	U	1.65	U	0.159	U	0.16	U	1.59	U	1.62	U
2,4,6-Trichlorophenol	88062	31000	G	0.18	U	1.85	U	1.89	U	0.182	U	0.184	U	1.82	U	1.85	U
Carbazole	86748	1200	S	1.69		3.02		0.801	J	19.5		11.5		93.9		0.596	J
bis(2-Chloroethoxy)methane	111911	NA		0.0598	U	0.616	U	0.627	U	0.0604	U	0.061	U	0.604	U	0.616	U
bis(2-Chloroethyl) ether	111444	55	N	0.0259	U	0.266	U	0.271	U	0.0261	U	0.0264	U	0.261	U	0.266	U
bis(2-Ethylhexyl) phthalate	117817	290	S	1.29	U	13.3	U	13.5	U	1.3	U	5.35		13	U	13.3	U
Benzaldehyde	100527	NA		1.28		1.59	U	1.62	U	1.26		1.26		1.56	U	1.59	U
1,1'-Biphenyl	92524	7200	S	0.0427	U	0.44	U	0.448	U	0.0432	U	0.0436	U	24.6		0.44	U
4-Bromophenyl phenyl ether	101553	2700	S	0.0654	U	0.673	U	0.686	U	0.066	U	0.0667	U	0.66	U	0.673	U
2,2'-oxybis(1-Chloropropane)	108601	30000	H	0.0203	U	0.209	U	0.213	U	0.0205	U	0.0207	U	0.205	U	0.209	U
Butyl benzyl phthalate	85687	2700	S	0.147	U	1.51	U	1.54	U	0.148	U	0.149	U	1.48	U	1.51	U
Acenaphthylene	208968	16000	S	0.306		0.161	U	0.164	U	0.301		0.318		8.46		0.161	U
Caprolactam	105602	NA		1.23	U	35.4	J	30.5	J	1.24	U	1.25	U	43	J	32.1	J
4-Chloroaniline	106478	NA		0.0912	U	0.938	U	2.04	J	0.119	J	0.0929	U	0.92	U	0.938	U
4-Chloro-3-methylphenol	59507	510	G	0.0777	U	0.799	U	0.814	U	0.0784	U	0.0792	U	0.784	U	0.799	U
2-Chloronaphthalene	91587	8200	G	0.0156	U	0.16	U	0.163	U	0.0157	U	0.0159	U	0.157	U	0.16	U
2-Chlorophenol	95578	40	H	0.17	U	1.75	U	1.78	U	0.172	U	0.173	U	1.72	U	1.75	U
4-Chlorophenyl phenyl ether	7005723	NA		0.0518	U	0.533	U	0.543	U	0.0523	U	0.0528	U	0.523	U	0.533	U
Chrysene	218019	1.9	S	0.0144	U	0.148	U	0.151	U	0.0146	U	0.0147	U	0.146	U	0.148	U
Dibenz(a,h)anthracene	53703	0.6	S	0.016	U	0.164	U	0.167	U	0.0161	U	0.0163	U	0.161	U	0.164	U
Dibenzofuran	132649	NA		0.0958	J	2.18	J	0.672	J	0.307	J	0.258	J	77.7		0.654	U
Di-n-butyl phthalate	84742	40000	S	0.129	U	1.32	U	1.35	U	0.13	U	0.131	U	1.3	U	1.32	U
3,3'-Dichlorobenzidine	91941	3100	S	0.115	U	1.19	U	1.21	U	0.117	U	0.118	U	1.17	U	1.19	U
2,4-Dichlorophenol	120832	20000	H	0.0344	U	0.354	U	0.361	U	0.0347	U	0.0351	U	0.347	U	0.354	U

Notes:
J - Esitmated result. Result is less than RL.
E - Estimated result. Result concentration exceeds the calibration range.
U - Not detected at or above the stated limit.
DL - Diluted Value
1 - PADEP Act 2 Nonuse, Non-Residential Standard used for Project Action Limit. NOTE: There are no Project Action Limits for groundwater for this site.