CDM Smith
14 Wall Street, Suite 1702
New York, New York 10005
tel: 212-785-9123
fax: 212-227-1692

September 25, 2020

Mr. Al Gerardo
Troy Chemical Corporation, Inc.
One Avenue L
Newark, NJ 08628

PROJECT: Region 2 RAC2 Contract No.: EP-W-09-002
Work Assignment: 060-RICO-02MV

DOCUMENT NO.: 3323-060-04292

SUBJECT: Analytical Data Request for Troy Chemical Corporation, Inc.
Pierson's Creek Site, Operable Unit 1
Remedial Investigation/Feasibility Study
City of Newark, Essex County, New Jersey

Dear Mr. Gerardo:

At the United States Environmental Protection Agencies (USEPA) request, CDM Federal Programs Corporation (CDM Smith) is herein providing the data collected from the Troy Chemical Corporation, Inc. property collected during the Pierson's Creek Operable Unit 1 field investigation conducted between June and December 2019. The subject property is identified as Block 5038, Lot 98, located in Newark, Essex County, New Jersey.

Attached is a map (Figure 1) showing the location of the various samples collected from the drainage ditch along the eastern property line of the subject property. These included the following samples:

- 16 sediment samples collected from 5 sediment core locations – D1, D2, D3, D15, and D16
- 2 surface water samples collected in Round 1 (August and September 2019) – D1-SW and D3-SW
- 2 surface water samples collected in Round 2 (December 2019) – D1-SW and D3-SW

The data for the samples listed above are included by media on Table 1 and Table 2 (attached). The data has been reviewed, validated and the usability assessed and will be evaluated in the upcoming Remedial Investigation and Risk Assessment Reports for Pierson's Creek Site, OU1. The final Remedial Investigation Report, Feasibility Study, and Proposed Plan for Operable Unit 1 of the Pierson's Creek Superfund Site are currently scheduled to be made available to the public in mid-2021.

If you have any questions please feel free to contact EPA Remedial Project Manager Pamela Tames at tames.pam@epa.gov or (212) 637-4255, or myself at leonardel@cdmsmith.com or (732) 590-4695.

Sincerely Yours,

CDM FEDERAL PROGRAMS CORPORATION

Edward Leonard, CHMM
RAC2 Site Manager

Attachment

CC:

Pamela Tames, P.E., EPA Region 2
Christopher Green, Geosyntec
RAC 2 Document Control

Table 1
Analytical Results - Sediment Samples
Pierson's Creek Superfund Site, OU1
Newark, NJ

			Location	D1		D1		D1		D1		D1		D2		D2		D2	
			Sample #	D1-SE-A		D1-SE-B		D1-SE-C		D1-SE-D		D1-SE-E		D2-SE-A		D2-SE-E		D2-SE-F	
			Start Depth	0		0.5		1		2		3		0		3		4	
			End Depth	0.5		1		2		3		4		0.5		4		5	
			Depth Unit	ft bgs		ft bgs		ft bgs		ft bgs		ft bgs		ft bgs		ft bgs		ft bgs	
			Sample Type	N		N		N		N		N		N		N		N	
			Parent Sample #																
			Sample Date	8/6/2019		8/6/2019		8/6/2019		8/6/2019		8/6/2019		8/5/2019		8/5/2019		8/5/2019	
Method Group	Analyte	CAS #	Units	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal
001-VOCs-Piers	1,1,1-Trichloroethane	71-55-6	ug/kg	48	U	28	UJ	12	U	9	UJ	800	U	9	UJ	46000	U	48000	U
001-VOCs-Piers	1,1,2,2-Tetrachloroethane	79-34-5	ug/kg	48	UJ		R		R		R	800	U		R	46000	U	48000	U
001-VOCs-Piers	1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ug/kg	48	U	28	UJ	12	U	9	UJ	800	U	9	UJ	46000	U	48000	U
001-VOCs-Piers	1,1,2-Trichloroethane	79-00-5	ug/kg	48	U	28	U	12	U	9	UJ	800	U	9	UJ	46000	U	48000	U
001-VOCs-Piers	1,1-Dichloroethane	75-34-3	ug/kg	48	U	28	UJ	12	U	9	UJ	800	U	9	UJ	46000	U	48000	U
001-VOCs-Piers	1,1-Dichloroethene	75-35-4	ug/kg	48	U	28	UJ	12	U	9	UJ	800	U	9	UJ	46000	U	48000	U
001-VOCs-Piers	1,2,3-Trichlorobenzene	87-61-6	ug/kg	48	UJ		R		R		R	800	U		R	46000	U	10000	J
001-VOCs-Piers	1,2,4-Trichlorobenzene	120-82-1	ug/kg	48	UJ	78	J	10	J		R	800	U		R	23000	J	47000	J
001-VOCs-Piers	1,2-Dibromo-3-chloropropane	96-12-8	ug/kg	48	UJ		R		R		R	800	U		R	46000	U	48000	U
001-VOCs-Piers	1,2-Dibromoethane	106-93-4	ug/kg	48	U	28	UJ	12	U	9	UJ	800	U	9	UJ	46000	U	48000	U
001-VOCs-Piers	1,2-Dichlorobenzene	95-50-1	ug/kg	7.8	J	3600		3600		2300	J	1100			R	72000		100000	
001-VOCs-Piers	1,2-Dichloroethane	107-06-2	ug/kg	48	U	28	U	12	U	9	UJ	800	U	9	UJ	46000	U	48000	U
001-VOCs-Piers	1,2-Dichloropropane	78-87-5	ug/kg	48	U	28	U	12	U	9	UJ	800	U	9	UJ	46000	U	48000	U
001-VOCs-Piers	1,3-Dichlorobenzene	541-73-1	ug/kg	48	UJ	3700		1700		1200	J	430	J		R	46000	U	6100	J
001-VOCs-Piers	1,4-Dichlorobenzene	106-46-7	ug/kg	17	J	13000		7100		4600	J	1400				17000	J	32000	J
001-VOCs-Piers	2-Butanone	78-93-3	ug/kg	78	J	1500	J	340	J	410	J	4000	U	45	UJ	230000	U	240000	U
001-VOCs-Piers	2-Hexanone	591-78-6	ug/kg	240	U	140	UJ	62	U	45	UJ	4000	U	45	UJ	230000	U	240000	U
001-VOCs-Piers	4-Methyl-2-pentanone	108-10-1	ug/kg	240	U	140	U	62	U	45	UJ	4000	U	45	UJ	230000	U	240000	U
001-VOCs-Piers	Acetone	67-64-1	ug/kg	480		1200	J	620	J	390	J	4000	U	45	UJ	230000	U	240000	U
001-VOCs-Piers	Benzene	71-43-2	ug/kg	65		2400	J	1000		1400		1200		6.8	J	690000		540000	
001-VOCs-Piers	Bromochloromethane	74-97-5	ug/kg	48	U	28	UJ	12	U	9	UJ	800	U	9	UJ	46000	U	48000	U
001-VOCs-Piers	Bromodichloromethane	75-27-4	ug/kg	48	U	28	U	12	U	9	UJ	800	U	9	UJ	46000	U	48000	U
001-VOCs-Piers	Bromoform	75-25-2	ug/kg	48	U	28	UJ	12	U	9	UJ	800	U	9	UJ	46000	U	48000	U
001-VOCs-Piers	Bromomethane	74-83-9	ug/kg	95	U	57	UJ	25	U	18	UJ	1600	U	18	UJ	93000	U	97000	U
001-VOCs-Piers	Carbon Disulfide	75-15-0	ug/kg	16	J	18	J	40	J	9	UJ	800	U	9	UJ	46000	U	48000	U
001-VOCs-Piers	Carbon Tetrachloride	56-23-5	ug/kg	48	U	28	UJ	12	U	9	UJ	800	U	9	UJ	46000	U	48000	U
001-VOCs-Piers	Chlorobenzene	108-90-7	ug/kg	10	J	420	J	1300		1700		2700		9	UJ	34000	J	37000	J
001-VOCs-Piers	Chloroethane	75-00-3	ug/kg	95	U	57	UJ	5.3	J	2.5	J	1600	U	18	UJ	93000	U	97000	U
001-VOCs-Piers	Chloroform	67-66-3	ug/kg	48	U	28	UJ	12	U	9	UJ	800	U	9	UJ	46000	U	48000	U
001-VOCs-Piers	Chloromethane	74-87-3	ug/kg	95	U	57	UJ	25	U	18	UJ	1600	U	18	UJ	93000	U	97000	U
001-VOCs-Piers	cis-1,2-Dichloroethene	156-59-2	ug/kg	48	U	28	UJ	27	J	6.5	J	800	U	9	UJ	46000	U	48000	U
001-VOCs-Piers	cis-1,3-Dichloropropene	10061-01-5	ug/kg	48	U	28	U	12	U	9	UJ	800	U	9	UJ	46000	U	48000	U
001-VOCs-Piers	Cyclohexane	110-82-7	ug/kg	48	U	1500	J	170	J	240	J	800	U	9	UJ	46000	U	48000	U
001-VOCs-Piers	Dibromochloromethane	124-48-1	ug/kg	48	U	28	UJ	12	U	9	UJ	800	U	9	UJ	46000	U	48000	U
001-VOCs-Piers	Dichlorodifluoromethane	75-71-8	ug/kg	95	U	57	UJ	25	U	18	UJ	1600	U	18	UJ	93000	U	97000	U
001-VOCs-Piers	Ethylbenzene	100-41-4	ug/kg	12	J	140	J	85	J	62	J	800	U	9	UJ	100000		140000	
001-VOCs-Piers	Isopropylbenzene	98-82-8	ug/kg	48	UJ	660	J	610	J	500	J	230	J		R	37000	J	63000	
001-VOCs-Piers	M,P-XYLENE (SUM OF ISOMERS)	XYLMP	ug/kg	95	U	370	J	410	J	230	J	360	J	18	UJ	230000		340000	
001-VOCs-Piers	Methyl acetate	79-20-9	ug/kg	48	U	28	U	12	U	9	UJ	620	J	9	UJ	46000	U	48000	U
001-VOCs-Piers	Methyl tert-Butyl Ether	1634-04-4	ug/kg	48	U	28	UJ	12	U	9	UJ	800	U	9	UJ	46000	U	48000	U

Table 1
Analytical Results - Sediment Samples
Pierson's Creek Superfund Site, OU1
Newark, NJ

			Location	D1		D1		D1		D1		D1		D2		D2		D2	
			Sample #	D1-SE-A		D1-SE-B		D1-SE-C		D1-SE-D		D1-SE-E		D2-SE-A		D2-SE-E		D2-SE-F	
			Start Depth	0		0.5		1		2		3		0		3		4	
			End Depth	0.5		1		2		3		4		0.5		4		5	
			Depth Unit	ft bgs		ft bgs		ft bgs		ft bgs		ft bgs		ft bgs		ft bgs		ft bgs	
			Sample Type	N		N		N		N		N		N		N		N	
			Parent Sample #																
			Sample Date	8/6/2019		8/6/2019		8/6/2019		8/6/2019		8/6/2019		8/5/2019		8/5/2019		8/5/2019	
Method Group	Analyte	CAS #	Units	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal
001-VOCs-Piers	Methylcyclohexane	108-87-2	ug/kg	48	U	3400		360	J	360	J	800	U	9	UJ	46000	U	48000	U
001-VOCs-Piers	Methylene Chloride	75-09-2	ug/kg	240	U	140	UJ	62	U	45	UJ	4000	U	45	UJ	230000	U	240000	U
001-VOCs-Piers	o-Xylene	95-47-6	ug/kg	48	U	230	J	270	J	180	J	260	J	9	UJ	180000		240000	
001-VOCs-Piers	Styrene	100-42-5	ug/kg	48	U	8.8	J	3.8	J	2.1	J	800	U	9	UJ	46000	U	48000	U
001-VOCs-Piers	Tetrachloroethene	127-18-4	ug/kg	48	U	28	U	12	U	9	UJ	800	U	9	UJ	46000	U	48000	U
001-VOCs-Piers	Toluene	108-88-3	ug/kg	460		310		61	J	30	J	800	U	28	J	47000		51000	
001-VOCs-Piers	TOTAL XYLENES	133-02-07	ug/kg																
001-VOCs-Piers	trans-1,2-Dichloroethene	156-60-5	ug/kg	48	U	28	UJ	9.2	J	4.6	J	800	U	9	UJ	46000	U	48000	U
001-VOCs-Piers	trans-1,3-Dichloropropene	10061-02-6	ug/kg	48	U	28	U	12	U	9	UJ	800	U	9	UJ	46000	U	48000	U
001-VOCs-Piers	Trichloroethene	79-01-6	ug/kg	48	U	28	U	4	J	9	UJ	800	U	9	UJ	46000	U	48000	U
001-VOCs-Piers	Trichlorofluoromethane	75-69-4	ug/kg	95	U	57	UJ	25	U	18	UJ	1600	U	18	UJ	93000	U	97000	U
001-VOCs-Piers	Vinyl Chloride	75-01-4	ug/kg	95	U	57	UJ	4.4	J	4.5	J	1600	U	18	UJ	93000	U	97000	U
001-VOCs-Piers	Xylenes (TOTAL)	1330-20-7	ug/kg	140	U	600	J	670	J	410	J	620	J	27	UJ	420000		580000	
002-SVOCs-Piers	1,1'-Biphenyl	92-52-4	ug/kg	2000	U	1700	U	780	UJ	610	UJ	380	J	690	U	15000		6400	J
002-SVOCs-Piers	1,2,4,5-Tetrachlorobenzene	95-94-3	ug/kg	2000	U	1700	U	780	UJ	610	UJ	640	UJ	690	U	650	J	7300	U
002-SVOCs-Piers	1,4-Dioxane	123-91-1	ug/kg	2000	U	1700	U	780	UJ	610	UJ	640	UJ	690	U	960	U	7300	U
002-SVOCs-Piers	2,2'-Oxybis(1-chloropropane)	108-60-1	ug/kg	2000	UJ	1700	UJ	780	UJ	610	UJ	640	UJ	690	U	960	U	7300	U
002-SVOCs-Piers	2,3,4,6-Tetrachlorophenol	58-90-2	ug/kg	2000	U	1700	U	780	UJ	610	UJ	640	UJ	690	U	960	U	7300	U
002-SVOCs-Piers	2,4,5-Trichlorophenol	95-95-4	ug/kg	5000	U	4200	U	2000	UJ	1500	UJ	1600	UJ	1700	U	2400	U	18000	U
002-SVOCs-Piers	2,4,6-Trichlorophenol	88-06-2	ug/kg	2000	U	1700	U	780	UJ	610	UJ	640	UJ	690	U	960	U	7300	U
002-SVOCs-Piers	2,4-Dichlorophenol	120-83-2	ug/kg	2000	U	1700	U	780	UJ	610	UJ	640	UJ	690	U	960	U	7300	U
002-SVOCs-Piers	2,4-Dimethylphenol	105-67-9	ug/kg	2000	U	1700	U	780	UJ	610	UJ	640	UJ	690	U	960	U	7300	U
002-SVOCs-Piers	2,4-Dinitrophenol	51-28-5	ug/kg	5000	U	4200	U	2000	UJ	1500	UJ	1600	UJ	1700	U	2400	U	18000	U
002-SVOCs-Piers	2,4-Dinitrotoluene	121-14-2	ug/kg	2000	U	1700	U	780	UJ	610	UJ	640	UJ	690	U	960	U	7300	U
002-SVOCs-Piers	2,6-Dinitrotoluene	606-20-2	ug/kg	2000	U	1700	U	780	UJ	610	UJ	640	UJ	690	U	960	U	7300	U
002-SVOCs-Piers	2-Chloronaphthalene	91-58-7	ug/kg	2000	U	1700	U	780	UJ	610	UJ	640	UJ	690	U	2200		7300	U
002-SVOCs-Piers	2-Chlorophenol	95-57-8	ug/kg	2000	U	1700	U	780	UJ	610	UJ	640	UJ	690	U	960	U	7300	U
002-SVOCs-Piers	2-Methylnaphthalene	91-57-6	ug/kg	2000	U	1700	U	780	UJ	610	UJ	220	J	690	U	17000		16000	
002-SVOCs-Piers	2-Methylphenol	95-48-7	ug/kg	2000	U	1700	U	780	UJ	610	UJ	640	UJ	690	U	960	U	7300	U
002-SVOCs-Piers	2-Nitroaniline	88-74-4	ug/kg	5000	U	4200	U	2000	UJ	1500	UJ	1600	UJ	1700	U	2400	U	18000	U
002-SVOCs-Piers	2-Nitrophenol	88-75-5	ug/kg	2000	U	1700	U	780	UJ	610	UJ	640	UJ	690	U	960	U	7300	U
002-SVOCs-Piers	3,3'-Dichlorobenzidine	91-94-1	ug/kg	2000	U	1700	U	780	UJ	610	UJ	640	UJ	690	UJ	960	UJ	7300	U
002-SVOCs-Piers	3-Nitroaniline	99-09-2	ug/kg	5000	U	4200	U	2000	UJ	1500	UJ	1600	UJ	1700	U	2400	U	18000	U
002-SVOCs-Piers	4,6-Dinitro-2-methylphenol	534-52-1	ug/kg	5000	U	4200	U	2000	UJ	1500	UJ	1600	UJ	1700	U	2400	U	18000	U
002-SVOCs-Piers	4-Bromophenyl-phenylether	101-55-3	ug/kg	2000	U	1700	U	780	UJ	610	UJ	640	UJ	690	U	960	U	7300	U
002-SVOCs-Piers	4-Chloro-3-methylphenol	59-50-7	ug/kg	2000	U	1700	U	780	UJ	610	UJ	640	UJ	690	U	960	U	7300	U
002-SVOCs-Piers	4-Chloroaniline	106-47-8	ug/kg	2000	U	1700	U	780	UJ	610	UJ	640	UJ	690	U	960	U	7300	U
002-SVOCs-Piers	4-Chlorophenyl-phenylether	7005-72-3	ug/kg	2000	U	1700	U	780	UJ	610	UJ	640	UJ	690	U	960	U	7300	U
002-SVOCs-Piers	4-Nitroaniline	100-01-6	ug/kg	5000	U	4200	U	2000	UJ	1500	UJ	1600	UJ	1700	U	2400	U	18000	U
002-SVOCs-Piers	4-Nitrophenol	100-02-7	ug/kg	5000	U	4200	U	2000	UJ	1500	UJ	1600	UJ	1700	U	2400	U	18000	U

Table 1
Analytical Results - Sediment Samples
Pierson's Creek Superfund Site, OU1
Newark, NJ

			Location	D1		D1		D1		D1		D1		D2		D2		D2	
			Sample #	D1-SE-A		D1-SE-B		D1-SE-C		D1-SE-D		D1-SE-E		D2-SE-A		D2-SE-E		D2-SE-F	
			Start Depth	0		0.5		1		2		3		0		3		4	
			End Depth	0.5		1		2		3		4		0.5		4		5	
			Depth Unit	ft bgs		ft bgs		ft bgs		ft bgs		ft bgs		ft bgs		ft bgs		ft bgs	
			Sample Type	N		N		N		N		N		N		N		N	
			Parent Sample #																
			Sample Date	8/6/2019		8/6/2019		8/6/2019		8/6/2019		8/6/2019		8/5/2019		8/5/2019		8/5/2019	
Method Group	Analyte	CAS #	Units	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal
002-SVOCs-Piers	Acenaphthene	83-32-9	ug/kg	2000	U	1700	U	180	J	610	UJ	280	J	190	J	960	U	7300	U
002-SVOCs-Piers	Acenaphthylene	208-96-8	ug/kg	2000	U	1700	U	780	UJ	610	UJ	640	UJ	690	U	960	U	7300	U
002-SVOCs-Piers	Acetophenone	98-86-2	ug/kg	2000	U	1700	U	780	UJ	610	UJ	640	UJ	690	U	960	U	7300	U
002-SVOCs-Piers	Anthracene	120-12-7	ug/kg	2000	U	1700	U	3600	J	3900	J	1400	J	610	J	12000		34000	
002-SVOCs-Piers	Atrazine	1912-24-9	ug/kg	2000	U	1700	U	780	UJ	610	UJ	640	UJ	690	U	960	U	7300	U
002-SVOCs-Piers	Benzaldehyde	100-52-7	ug/kg	2000	U	1700	U	780	UJ	610	UJ	640	UJ	690	UJ	960	UJ	7300	U
002-SVOCs-Piers	Benzo(a)anthracene	56-55-3	ug/kg	640	J	450	J	780	UJ	360	J	430	J	3500	J	2600	J	7300	U
002-SVOCs-Piers	Benzo(a)pyrene	50-32-8	ug/kg	930	J	610	J	780	UJ	290	J	320	J	4300	J	2600	J	7300	U
002-SVOCs-Piers	Benzo(b)fluoranthene	205-99-2	ug/kg	1500	J	1700	U	780	UJ	610	UJ	640	UJ	7400	J	3800	J	7300	U
002-SVOCs-Piers	Benzo(g,h,i)perylene	191-24-2	ug/kg	760	J	1700	U	780	UJ	610	UJ	210	J	3200	J	2600	J	7300	U
002-SVOCs-Piers	Benzo(k)fluoranthene	207-08-9	ug/kg	650	J	1700	U	780	UJ	610	UJ	640	UJ	2800	J	1500	J	7300	U
002-SVOCs-Piers	Bis(2-chloroethoxy)methane	111-91-1	ug/kg	2000	U	1700	U	780	UJ	610	UJ	640	UJ	690	U	960	U	7300	U
002-SVOCs-Piers	Bis(2-chloroethyl)ether	111-44-4	ug/kg	2000	U	1700	U	780	UJ	610	UJ	640	UJ	690	U	960	U	7300	U
002-SVOCs-Piers	Bis(2-ethylhexyl)phthalate	117-81-7	ug/kg	21000		110000		100000		47000		26000	J	3500	J	520000		72000	
002-SVOCs-Piers	Butylbenzylphthalate	85-68-7	ug/kg	2000	U	1700	U	780	UJ	610	UJ	530	J	400	J	18000		3000	J
002-SVOCs-Piers	Caprolactam	105-60-2	ug/kg	2000	U	1700	U	780	UJ	610	UJ	640	UJ	690	U	960	U	7300	U
002-SVOCs-Piers	Carbazole	86-74-8	ug/kg	2000	U	1700	U	710	J	1200	J	640	UJ	620	J	960	U	7300	U
002-SVOCs-Piers	Chrysene	218-01-9	ug/kg	1000	J	860	J	370	J	540	J	620	J	4500	J	4200	J	7300	U
002-SVOCs-Piers	CRESOLS, M & P	MEPH1314	ug/kg	2000	U	1700	U	780	UJ	610	UJ	640	UJ	690	U	960	U	7300	U
002-SVOCs-Piers	Dibenzo(a,h)anthracene	53-70-3	ug/kg	2000	U	1700	U	780	UJ	610	UJ	640	UJ	1300	J	720	J	7300	U
002-SVOCs-Piers	Dibenzofuran	132-64-9	ug/kg	2000	U	1700	U	780	UJ	270	J	200	J	690	U	1000		7300	U
002-SVOCs-Piers	Diethylphthalate	84-66-2	ug/kg	2000	U	1700	U	780	UJ	610	UJ	640	UJ	690	U	960	U	7300	U
002-SVOCs-Piers	Dimethylphthalate	131-11-3	ug/kg	2000	U	1700	U	780	UJ	610	UJ	640	UJ	690	U	960	U	7300	U
002-SVOCs-Piers	Di-n-butylphthalate	84-74-2	ug/kg	2000	U	1700	U	780	UJ	610	UJ	640	UJ	690	U	4500		7300	U
002-SVOCs-Piers	Di-n-octylphthalate	117-84-0	ug/kg	2000	U	2300		2100	J	1300	J	640	UJ	690	UJ	8400	J	7300	U
002-SVOCs-Piers	Fluoranthene	206-44-0	ug/kg	910	J	770	J	280	J	650	J	640	J	5700		4900		2900	J
002-SVOCs-Piers	Fluorene	86-73-7	ug/kg	2000	U	1700	U	780	UJ	270	J	250	J	190	J	2300		7300	U
002-SVOCs-Piers	Hexachlorobenzene	118-74-1	ug/kg	2000	UJ	1700	UJ	780	UJ	610	UJ	640	UJ	690	UJ	960	UJ	7300	UJ
002-SVOCs-Piers	Hexachlorobutadiene	87-68-3	ug/kg	2000	U	1700	U	780	UJ	610	UJ	640	UJ	690	U	960	U	7300	U
002-SVOCs-Piers	Hexachlorocyclopentadiene	77-47-4	ug/kg	2000	U	1700	U	780	UJ	610	UJ	640	UJ	690	U	960	U	7300	U
002-SVOCs-Piers	Hexachloroethane	67-72-1	ug/kg	2000	U	1700	U	780	UJ	610	UJ	640	UJ	690	U	960	U	7300	U
002-SVOCs-Piers	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	790	J	1700	U	780	UJ	610	UJ	640	UJ	3000	J	2100	J	7300	U
002-SVOCs-Piers	Isophorone	78-59-1	ug/kg	2000	U	1700	U	780	UJ	610	UJ	640	UJ	690	U	960	U	7300	U
002-SVOCs-Piers	Naphthalene	91-20-3	ug/kg	2000	U	1700	U	780	UJ	220	J	230	J	690	U	16000		26000	
002-SVOCs-Piers	Nitrobenzene	98-95-3	ug/kg	2000	U	1700	U	780	UJ	610	UJ	640	UJ	690	U	960	U	7300	U
002-SVOCs-Piers	N-Nitroso-di-n-propylamine	621-64-7	ug/kg	2000	U	1700	U	780	UJ	610	UJ	640	UJ	690	U	960	U	7300	U
002-SVOCs-Piers	N-Nitrosodiphenylamine	86-30-6	ug/kg	2000	U	1700	U	760	J	950	J	1800	J	690	U	960	U	7300	U
002-SVOCs-Piers	Pentachlorophenol	87-86-5	ug/kg	5000	U	4200	U	2000	UJ	1500	UJ	1600	UJ	1700	U	2400	U	18000	U
002-SVOCs-Piers	Phenanthrene	85-01-8	ug/kg	2000	U	430	J	250	J	770	J	760	J	3400		8000		5100	J
002-SVOCs-Piers	Phenol	108-95-2	ug/kg	2000	U	1700	U	780	UJ	610	UJ	640	UJ	690	U	960	U	7300	U

Table 1
Analytical Results - Sediment Samples
Pierson's Creek Superfund Site, OU1
Newark, NJ

			Location	D1		D1		D1		D1		D1		D2		D2		D2	
			Sample #	D1-SE-A		D1-SE-B		D1-SE-C		D1-SE-D		D1-SE-E		D2-SE-A		D2-SE-E		D2-SE-F	
			Start Depth	0		0.5		1		2		3		0		3		4	
			End Depth	0.5		1		2		3		4		0.5		4		5	
			Depth Unit	ft bgs		ft bgs		ft bgs		ft bgs		ft bgs		ft bgs		ft bgs		ft bgs	
			Sample Type	N		N		N		N		N		N		N		N	
			Parent Sample #																
			Sample Date	8/6/2019		8/6/2019		8/6/2019		8/6/2019		8/6/2019		8/5/2019		8/5/2019		8/5/2019	
Method Group	Analyte	CAS #	Units	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal
002-SVOCs-Piers	Pyrene	129-00-0	ug/kg	1300	J	1100	J	1000	J	1300	J	1200	J	7400	J	8600	J	3300	J
003-Pest-Piers	4,4'-DDD	72-54-8	ug/kg	240		910	J	14000		18000		18000		87	J	1300	J	3700	
003-Pest-Piers	4,4'-DDE	72-55-9	ug/kg	51	J	210	J	4400	J	5900	J	4000		10	J	1100	J	970	J
003-Pest-Piers	4,4'-DDT	50-29-3	ug/kg	170	J	740	J	8600	J	10000	J	6000	J	42	U	1500	J	2900	U
003-Pest-Piers	Aldrin	309-00-2	ug/kg	19	J	66		1400	J	1600	J	760	J	21	U	720	J	22	U
003-Pest-Piers	alpha-BHC	319-84-6	ug/kg	30	U	17	U	24	U	18	U	20	U	21	U	29	U	63	J
003-Pest-Piers	alpha-Chlordane	5103-71-9	ug/kg	72		300		2900		3400		2700		21	U	1300	J	1100	J
003-Pest-Piers	beta-BHC	319-85-7	ug/kg	30	U	17	U	24	U	18	U	20	U	21	U	29	U	140	J
003-Pest-Piers	delta-BHC	319-86-8	ug/kg	30	U	17	U	840	J	1300	J	730	J	5.7	J	29	U	820	J
003-Pest-Piers	Dieldrin	60-57-1	ug/kg	210	J	910	J	8500	J	7400	J	3800	J	46	J	1900	J	2400	J
003-Pest-Piers	Endosulfan I	959-98-8	ug/kg	30	U	17	U	24	U	18	U	20	U	21	U	29	U	22	U
003-Pest-Piers	Endosulfan II	33213-65-9	ug/kg	59	U	33	U	47	U	36	U	38	U	42	U	56	U	43	U
003-Pest-Piers	Endosulfan Sulfate	1031-07-8	ug/kg	59	U	180		1800		2200		1600	J	42	U	56	U	590	J
003-Pest-Piers	Endrin	72-20-8	ug/kg	59	U	33	U	47	U	36	U	38	U	42	U	56	U	43	U
003-Pest-Piers	Endrin aldehyde	7421-93-4	ug/kg	34	J	180	J	1600	J	1900	J	1200	J	42	U	730	J	1000	J
003-Pest-Piers	Endrin Ketone	53494-70-5	ug/kg	59	U	33	U	47	U	36	U	1100	J	42	U	56	U	43	U
003-Pest-Piers	gamma-BHC (Lindane)	58-89-9	ug/kg	30	U	17	U	24	U	18	U	20	U	21	U	29	U	320	J
003-Pest-Piers	gamma-Chlordane	5103-74-2	ug/kg	130		560		6800	J	8200	J	6300	J	21	U	1300		1800	J
003-Pest-Piers	Heptachlor	76-44-8	ug/kg	30	U	17	U	24	U	18	U	20	U	21	U	29	U	22	U
003-Pest-Piers	Heptachlor Epoxide	1024-57-3	ug/kg	30	U	17	U	24	U	18	U	20	U	21	U	29	U	22	U
003-Pest-Piers	Methoxychlor	72-43-5	ug/kg	300	U	170	U	240	U	180	U	200	U	210	U	290	U	220	U
003-Pest-Piers	Toxaphene	8001-35-2	ug/kg	590	U	330	U	470	U	360	U	380	U	420	U	560	U	430	U
005-Aroclors-Piers	Aroclor 1016	12674-11-2	ug/kg	520	UJ	430	UJ	400	U	1200	U	330	U	180	U	480	U	370	U
005-Aroclors-Piers	Aroclor 1221	11104-28-2	ug/kg	520	UJ	430	UJ	400	U	1200	U	330	U	180	U	480	U	370	U
005-Aroclors-Piers	Aroclor 1232	11141-16-5	ug/kg	520	UJ	430	UJ	400	U	1200	U	330	U	180	U	480	U	370	U
005-Aroclors-Piers	Aroclor 1242	53469-21-9	ug/kg	520	UJ	430	UJ	400	U	42000		330	U	180	U	26000		35000	
005-Aroclors-Piers	Aroclor 1248	12672-29-6	ug/kg	520	UJ	430	UJ	60000		1200	U	53000		180	U	480	U	370	U
005-Aroclors-Piers	Aroclor 1254	11097-69-1	ug/kg	2500	J	8100	J	400	U	150000		330	U	180	U	61000		41000	
005-Aroclors-Piers	Aroclor 1260	11096-82-5	ug/kg	1600	J	5300	J	50000		71000		46000		740		27000		18000	
005-Aroclors-Piers	Aroclor 1262	37324-23-5	ug/kg	520	UJ	430	UJ	400	U	1200	U	330	U	180	U	480	U	370	U
005-Aroclors-Piers	Aroclor 1268	11100-14-4	ug/kg	520	UJ	430	UJ	400	U	1200	U	330	U	180	U	480	U	370	U
005-Aroclors-Piers	Total Aroclors	TARO	ug/kg	4100		13400		110000		263000		99000		740		114000		94000	
007-Dioxin/Furan-Piers	1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562-39-4	ng/kg																
007-Dioxin/Furan-Piers	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	35822-46-9	ng/kg																
007-Dioxin/Furan-Piers	1,2,3,4,7,8,9-Heptachlorodibenzofuran	55673-89-7	ng/kg																
007-Dioxin/Furan-Piers	1,2,3,4,7,8-Hexachlorodibenzofuran	70648-26-9	ng/kg																
007-Dioxin/Furan-Piers	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	39227-28-6	ng/kg																
007-Dioxin/Furan-Piers	1,2,3,6,7,8-Hexachlorodibenzofuran	57117-44-9	ng/kg																
007-Dioxin/Furan-Piers	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	57653-85-7	ng/kg																
007-Dioxin/Furan-Piers	1,2,3,7,8,9-Hexachlorodibenzofuran	72918-21-9	ng/kg																

Table 1
Analytical Results - Sediment Samples
Pierson's Creek Superfund Site, OU1
Newark, NJ

			Location	D1		D1		D1		D1		D1		D2		D2		D2	
			Sample #	D1-SE-A		D1-SE-B		D1-SE-C		D1-SE-D		D1-SE-E		D2-SE-A		D2-SE-E		D2-SE-F	
			Start Depth	0		0.5		1		2		3		0		3		4	
			End Depth	0.5		1		2		3		4		0.5		4		5	
			Depth Unit	ft bgs		ft bgs		ft bgs		ft bgs		ft bgs		ft bgs		ft bgs		ft bgs	
			Sample Type	N		N		N		N		N		N		N		N	
			Parent Sample #																
			Sample Date	8/6/2019		8/6/2019		8/6/2019		8/6/2019		8/6/2019		8/5/2019		8/5/2019		8/5/2019	
Method Group	Analyte	CAS #	Units	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal
007-Dioxin/Furan-Piers	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	19408-74-3	ng/kg																
007-Dioxin/Furan-Piers	1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6	ng/kg																
007-Dioxin/Furan-Piers	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	40321-76-4	ng/kg																
007-Dioxin/Furan-Piers	2,3,4,6,7,8-Hexachlorodibenzofuran	60851-34-5	ng/kg																
007-Dioxin/Furan-Piers	2,3,4,7,8-Pentachlorodibenzofuran	57117-31-4	ng/kg																
007-Dioxin/Furan-Piers	2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	ng/kg																
007-Dioxin/Furan-Piers	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6	ng/kg																
007-Dioxin/Furan-Piers	Octachlorodibenzofuran	39001-02-0	ng/kg																
007-Dioxin/Furan-Piers	Octachlorodibenzo-p-dioxin	3268-87-9	ng/kg																
007-Dioxin/Furan-Piers	Total HcCDF	38998-75-3	ng/kg																
007-Dioxin/Furan-Piers	Total HpCDD	37871-00-4	ng/kg																
007-Dioxin/Furan-Piers	Total HxCDD	34465-46-8	ng/kg																
007-Dioxin/Furan-Piers	Total HxCDF	55684-94-1	ng/kg																
007-Dioxin/Furan-Piers	Total PeCDD	36088-22-9	ng/kg																
007-Dioxin/Furan-Piers	Total PeCDF	30402-15-4	ng/kg																
007-Dioxin/Furan-Piers	Total TCDD	41903-57-5	ng/kg																
007-Dioxin/Furan-Piers	Total TCDF	55722-27-5	ng/kg																
011-Inorganics-Piers	Aluminum	7429-90-5	mg/kg	13500		17500		12900		10400		6880		19400		36200		10700	
011-Inorganics-Piers	Antimony	7440-36-0	mg/kg	10.2		16.5		21.3		53.4		12.6		1.61		23		21.4	
011-Inorganics-Piers	Arsenic	7440-38-2	mg/kg	98.6		226		460		407		239		45.4	J	1760		704	
011-Inorganics-Piers	Barium	7440-39-3	mg/kg	131		238		601		1200		214		156		955		4550	
011-Inorganics-Piers	Beryllium	7440-41-7	mg/kg	0.839		0.973		2.29		5.3		0.854		0.981		1.32		0.55	
011-Inorganics-Piers	Cadmium	7440-43-9	mg/kg	13.1		28.2		60.8		136		11.9		3.8		72.4		311	
011-Inorganics-Piers	Calcium	7440-70-2	mg/kg	6880		7690		12700		7080		4950		13900		28200		41500	
011-Inorganics-Piers	Chromium	7440-47-3	mg/kg	106		159		214		363		164		111		351		665	
011-Inorganics-Piers	Cobalt	7440-48-4	mg/kg	56.3		56.5		39.5		103		12.3		53		101		210	
011-Inorganics-Piers	Copper	7440-50-8	mg/kg	935		1250		856		1330		405		407		1550		3890	
011-Inorganics-Piers	Cyanide	57-12-5	mg/kg	5.2	U	6.8	U	7.1		13		5		3.7	U	32		10	J
011-Inorganics-Piers	Iron	7439-89-6	mg/kg	22500		27400		21900		22100		17500		39600		63200		28400	
011-Inorganics-Piers	Lead	7439-92-1	mg/kg	765		1330		2460		3460		647		918		4200		31600	
011-Inorganics-Piers	Magnesium	7439-95-4	mg/kg	5850		6760		5860		2930		2330		8220		8350		4810	
011-Inorganics-Piers	Manganese	7439-96-5	mg/kg	190		223		227		164		81		339		763		847	
011-Inorganics-Piers	Mercury	7439-97-6	mg/kg	1270	J	1820	J	934	J	504	J	87.1	J	681		4280		3560	
011-Inorganics-Piers	Mercury	7439-97-6	ng/g	396000		1E+06								671000					
011-Inorganics-Piers	Methyl Mercury	22967-92-6	ng/g	122		224		506		570		87.4		110		6400		12500	
011-Inorganics-Piers	Nickel	7440-02-0	mg/kg	260		338		77.2		120		24.8		130		153		137	
011-Inorganics-Piers	Potassium	7440-09-7	mg/kg	1390		1610		1150		1110		590		1760		2640		901	
011-Inorganics-Piers	Selenium	7782-49-2	mg/kg	1.4	J	2.26		2.13		3.64		1.76		0.811	J	4.5		2.1	
011-Inorganics-Piers	Silver	7440-22-4	mg/kg	26.7		52.7		33.6		71.9		4.95		10.5		105		116	
011-Inorganics-Piers	Sodium	7440-23-5	mg/kg	1000		1000		1080		804		806		1090		2480		846	

Table 1
Analytical Results - Sediment Samples
Pierson's Creek Superfund Site, OU1
Newark, NJ

			Location	D1		D1		D1		D1		D1		D2		D2		D2	
			Sample #	D1-SE-A		D1-SE-B		D1-SE-C		D1-SE-D		D1-SE-E		D2-SE-A		D2-SE-E		D2-SE-F	
			Start Depth	0		0.5		1		2		3		0		3		4	
			End Depth	0.5		1		2		3		4		0.5		4		5	
			Depth Unit	ft bgs		ft bgs		ft bgs		ft bgs		ft bgs		ft bgs		ft bgs		ft bgs	
			Sample Type	N		N		N		N		N		N		N		N	
			Parent Sample #																
			Sample Date	8/6/2019		8/6/2019		8/6/2019		8/6/2019		8/6/2019		8/5/2019		8/5/2019		8/5/2019	
Method Group	Analyte	CAS #	Units	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal
011-Inorganics-Piers	Thallium	7440-28-0	mg/kg	0.16	J	0.25	J	0.475		1.72		0.289		0.22		0.569		0.328	
011-Inorganics-Piers	Vanadium	7440-62-2	mg/kg	64.6		77.4		59.4		178		38.7		83.9		120		66.8	
011-Inorganics-Piers	Zinc	7440-66-6	mg/kg	1090		1430		916		1980		294		1620		3320		4210	
014-General Chemistry	Total Organic Carbon	TOC	ug/g	120000		180000		160000		190000		240000		56000		150000		150000	
015-Grain Size-Piers	% COARSE SAND >.5 - 1 MM	COARSE SAND	%	0		0		2.02		0.92		8.73				0		1.09	
015-Grain Size-Piers	% Coarse Sand >0.5 - 1.0 mm	%COARSESAND	%																
015-Grain Size-Piers	% Fine Sand >.125 - .25 mm	%FINE SAND	%																
015-Grain Size-Piers	% Medium Sand >.25 - .5 mm	%MEDIUM SAND	%																
015-Grain Size-Piers	% MEDIUM SAND >.25 - .5 MM	MEDIUM SAND	%	23.38		15.15		16.18		21.62		19.35				3.25		11.57	
015-Grain Size-Piers	HYD01	HYD01	% Passing	8.68		10.03		9.5		7.97		11.42				14.83		16.21	
015-Grain Size-Piers	HYD02	HYD02	% Passing	8.68		10.03		9.92		7.73		10.66				13.24		14.64	
015-Grain Size-Piers	HYD03	HYD03	% Passing	8.24		7.13		8.14		6.93		6.61				10.86		12.05	
015-Grain Size-Piers	HYD04	HYD04	% Passing	6.79		7.13		8.14		6.13		6.61				9.03		11.27	
015-Grain Size-Piers	HYD05	HYD05	% Passing	5.33		5.49		6.36		5.09		5.62				7.99		10.24	
015-Grain Size-Piers	HYD06	HYD06	% Passing	4.45		4.72		5.53		3.8		3.63				5.37		7.65	
015-Grain Size-Piers	HYD07	HYD07	% Passing	4.45		3.85		4.17		3.25		2.33				4.02		5.54	
015-Grain Size-Piers	0.75 INCH SIEVE	SIEVE0.75IN	% Passing	100		100		100		100		100				100		100	
015-Grain Size-Piers	1.5 INCH SIEVE	SIEVE1.5IN	% Passing	100		100		100		100		100				100		100	
015-Grain Size-Piers	3 INCH SIEVE	SIEVE3IN	% Passing	100		100		100		100		100				100		100	
015-Grain Size-Piers	Clay	%CLAY	%	5.53		5.36		6.17		4.72		4.52				6.82		8.82	
015-Grain Size-Piers	GRAVEL	Gravel	%	0		0		7.28		2.77		8.16				0		0.87	
015-Grain Size-Piers	HYDROMETER, READING 1	HYD1-PARTICLE	um	37.01		36.63		37.01		36.37		35.73				35.15		34.88	
015-Grain Size-Piers	HYDROMETER, READING 2	HYD2-PARTICLE	um	23.4		23.16		23.26		23.15		22.59				22.49		20.29	
015-Grain Size-Piers	HYDROMETER, READING 3	HYD3-PARTICLE	um	13.6		13.6		13.51		13.46		13.46				12.71		12.65	
015-Grain Size-Piers	HYDROMETER, READING 4	HYD4-PARTICLE	um	9.71		9.61		9.56		9.52		9.52				9.41		9.34	
015-Grain Size-Piers	HYDROMETER, READING 5	HYD5-PARTICLE	um	6.76		6.91		6.87		6.84		6.77				6.82		6.64	
015-Grain Size-Piers	HYDROMETER, READING 6	HYD6-PARTICLE	um	3.48		3.5		3.48		3.46		3.47				3.43		3.4	
015-Grain Size-Piers	HYDROMETER, READING 7	HYD7-PARTICLE	um	1.42		1.42		1.42		1.42		1.42				1.41		1.39	
015-Grain Size-Piers	Percent Passing Sieve#10	SIEVE10	% Passing	100		100		90.69		96.3		83.11				100		98.04	
015-Grain Size-Piers	Percent Passing Sieve#20	SIEVE20	% Passing	96.66		96.81		86.24		88.91		74.77				98.82		93.89	
015-Grain Size-Piers	Percent Passing Sieve#40	SIEVE40	% Passing	76.62		84.85		74.51		74.68		63.76				96.75		86.46	
015-Grain Size-Piers	Percent Passing Sieve#60	SIEVE60	% Passing	38.75		69.69		59.14		59.9		51.62				93.8		80.79	
015-Grain Size-Piers	Sand Fine	FINE SAND	%	81.29		35.89		39.24		31.6		39.08				16.55		13.97	
015-Grain Size-Piers	Sieve 0.25 inch, % passing	SIEVE0.25IN	% Passing	100		100		93.53		98.15		93.93				100		99.13	
015-Grain Size-Piers	SIEVE 1 inch, Percent Finer	SIEVE1INCH	% Passing	100		100		100		100		100				100		100	
015-Grain Size-Piers	SIEVE 2 inch, Percent Finer	SIEVE2INCH	% Passing	100		100		100		100		100				100		100	
015-Grain Size-Piers	SIEVE NO. 80, PERCENT PASSING	SIEVE80	% Passing	17.6		61.72		49.43		47.33		42.32				90.84		76.86	
015-Grain Size-Piers	SIEVE, 0.15 mm, PERCENT PASSING	SIEVEUS100	% Passing	8.69		57.73		43.76		44.19		35.31				88.48		74.68	
015-Grain Size-Piers	SIEVE, 4.75 mm, PERCENT PASSING	SIEVEUS4	% Passing	100		100		92.72		97.23		91.84				100		99.13	
015-Grain Size-Piers	Sieve-U.S. Std. No. 200 (0.075 mm)	SIEVEUS200	% Passing	-4.68		48.96		35.27		43.08		24.68				80.2		72.49	

Table 1
Analytical Results - Sediment Samples
Pierson's Creek Superfund Site, OU1
Newark, NJ

			Location	D1		D1		D1		D1		D1		D2		D2		D2	
			Sample #	D1-SE-A		D1-SE-B		D1-SE-C		D1-SE-D		D1-SE-E		D2-SE-A		D2-SE-E		D2-SE-F	
			Start Depth	0		0.5		1		2		3		0		3		4	
			End Depth	0.5		1		2		3		4		0.5		4		5	
			Depth Unit	ft bgs		ft bgs		ft bgs		ft bgs		ft bgs		ft bgs		ft bgs		ft bgs	
			Sample Type	N		N		N		N		N		N		N		N	
			Parent Sample #																
			Sample Date	8/6/2019		8/6/2019		8/6/2019		8/6/2019		8/6/2019		8/5/2019		8/5/2019		8/5/2019	
Method Group	Analyte	CAS #	Units	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal
015-Grain Size-Piers	Silt	%SILT	%																
015-Grain Size-Piers	SILT	445	%	-10.21		43.6		29.1		38.36		20.16				73.38		63.67	
017-MerSpec-Piers	MINERAL-BOUND HG	M-G-HG	ng/g	339000										470000					
017-MerSpec-Piers	ORGANO-COMPLEXED HG	OG-C-HG	ng/g	19400										13000					
017-MerSpec-Piers	STRONGLY COMPLEXED AND ELEMENTAL HG	S-B-HG	ng/g	200000										455000					
017-MerSpec-Piers	VOLATILE HG	V-E-HG	ng/g	315	U	262	U							107	U				
017-MerSpec-Piers	WATER SOLUBLE HG	W-S-HG	ng/g	4420										11800					
017-MerSpec-Piers	WEAK ACID-SOLUBLE HG	SAS-HG	ng/g	1280										3840					

Table 1
Analytical Results - Sediment Samples
Pierson's Creek Superfund Site, OU1
Newark, NJ

			Location	D3		D3		D3		D15		D15		D15		D16		D16	
			Sample #	D3-SE-A		D3-SE-B		D3-SE-C		D15-SE-A		D15-SE-B		D15-SE-C		D16-SE-A		D16-SE-B	
			Start Depth	0		0.5		1		0		0.5		1		0		0.5	
			End Depth	0.5		1		2.5		0.5		1		2		0.5		1	
			Depth Unit	ft bgs		ft bgs		ft bgs		ft bgs		ft bgs		ft bgs		ft bgs		ft bgs	
			Sample Type	N		N		N		N		N		N		N		N	
			Parent Sample #																
			Sample Date	8/6/2019		8/6/2019		8/6/2019		12/12/2019		12/12/2019		12/12/2019		12/12/2019		12/12/2019	
Method Group	Analyte	CAS #	Units	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal
001-VOCs-Piers	1,1,1-Trichloroethane	71-55-6	ug/kg	26	U	11	U	11	U	12	U	7.5	U	8.5	U	8	U	12	U
001-VOCs-Piers	1,1,2,2-Tetrachloroethane	79-34-5	ug/kg	26	UJ	11	UJ	11	U	12	UJ	7.5	UJ	8.5	UJ	8	UJ	12	U
001-VOCs-Piers	1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ug/kg	26	U	11	U	11	U	12	U	7.5	U	8.5	U	8	U	12	U
001-VOCs-Piers	1,1,2-Trichloroethane	79-00-5	ug/kg	26	U	11	U	11	U	12	U	7.5	U	8.5	U	8	U	12	U
001-VOCs-Piers	1,1-Dichloroethane	75-34-3	ug/kg	26	U	11	U	11	U	12	U	7.5	U	8.5	U	8	U	12	U
001-VOCs-Piers	1,1-Dichloroethene	75-35-4	ug/kg	26	U	11	U	11	U	12	U	7.5	U	8.5	U	8	U	12	U
001-VOCs-Piers	1,2,3-Trichlorobenzene	87-61-6	ug/kg	26	UJ	11	UJ	11	U	12	UJ	7.5	UJ	130	J	8	UJ	12	U
001-VOCs-Piers	1,2,4-Trichlorobenzene	120-82-1	ug/kg	26	UJ	11	UJ	11	U	25	J	100	J	4100		9.6	J	2.8	J
001-VOCs-Piers	1,2-Dibromo-3-chloropropane	96-12-8	ug/kg	26	UJ	11	UJ	11	U	12	UJ	7.5	UJ	8.5	UJ	8	UJ	12	U
001-VOCs-Piers	1,2-Dibromoethane	106-93-4	ug/kg	26	U	11	U	11	U	12	U	7.5	U	8.5	U	8	U	12	U
001-VOCs-Piers	1,2-Dichlorobenzene	95-50-1	ug/kg	26	UJ	11	UJ	11	U	150	J	1000	J	22000		37	J	8.9	J
001-VOCs-Piers	1,2-Dichloroethane	107-06-2	ug/kg	26	U	11	U	11	U	12	U	7.5	U	8.5	U	8	U	12	U
001-VOCs-Piers	1,2-Dichloropropane	78-87-5	ug/kg	26	U	11	U	11	U	12	U	7.5	U	8.5	U	8	U	12	U
001-VOCs-Piers	1,3-Dichlorobenzene	541-73-1	ug/kg	26	UJ	11	UJ	11	U	61	J	460	J	5800		39	J	7.8	J
001-VOCs-Piers	1,4-Dichlorobenzene	106-46-7	ug/kg	26	UJ	11	UJ	11	U	220	J	1900	J	25000		57	J	13	
001-VOCs-Piers	2-Butanone	78-93-3	ug/kg	130	U	55	U	55	U	34	J	38	U	42	U	84		79	
001-VOCs-Piers	2-Hexanone	591-78-6	ug/kg	130	U	55	U	55	U	58	U	38	U	42	U	40	U	62	U
001-VOCs-Piers	4-Methyl-2-pentanone	108-10-1	ug/kg	130	U	55	U	55	U	58	U	38	U	42	U	40	U	62	U
001-VOCs-Piers	Acetone	67-64-1	ug/kg	250		110		55	U	170	J	570		630	J	600		1400	
001-VOCs-Piers	Benzene	71-43-2	ug/kg	26	U	3.1	J	11	U	14	J	150		4400		17		4.4	J
001-VOCs-Piers	Bromochloromethane	74-97-5	ug/kg	26	U	11	U	11	U	12	U	7.5	U	8.5	U	8	U	12	U
001-VOCs-Piers	Bromodichloromethane	75-27-4	ug/kg	26	U	11	U	11	U	12	U	7.5	U	8.5	U	8	U	12	U
001-VOCs-Piers	Bromoform	75-25-2	ug/kg	26	U	11	U	11	U	12	UJ	7.5	UJ	8.5	UJ	8	UJ	12	U
001-VOCs-Piers	Bromomethane	74-83-9	ug/kg	53	U	22	U	22	U	23	U	15	U	17	UJ	16	U	25	U
001-VOCs-Piers	Carbon Disulfide	75-15-0	ug/kg	5.3	J	11	U	11	U	12	U	3.6	J	8.3	J	8	U	12	U
001-VOCs-Piers	Carbon Tetrachloride	56-23-5	ug/kg	26	U	11	U	11	U	12	U	7.5	U	8.5	U	8	U	12	U
001-VOCs-Piers	Chlorobenzene	108-90-7	ug/kg	26	U	11	U	11	U	100	J	1200	J	21000		11		12	U
001-VOCs-Piers	Chloroethane	75-00-3	ug/kg	53	U	22	U	22	U	23	U	15	U	17	UJ	16	U	25	U
001-VOCs-Piers	Chloroform	67-66-3	ug/kg	26	U	11	U	11	U	12	U	7.5	U	8.5	U	8	U	12	U
001-VOCs-Piers	Chloromethane	74-87-3	ug/kg	53	U	22	U	22	U	23	U	10	J	17	U	16	U	25	U
001-VOCs-Piers	cis-1,2-Dichloroethene	156-59-2	ug/kg	26	U	11	U	11	U	12	U	7.5	U	7.3	J	8	U	12	U
001-VOCs-Piers	cis-1,3-Dichloropropene	10061-01-5	ug/kg	26	U	11	U	11	U	12	U	7.5	U	8.5	U	8	U	12	U
001-VOCs-Piers	Cyclohexane	110-82-7	ug/kg	26	U	11	U	11	U	12	J	110		340	J	8	U	12	U
001-VOCs-Piers	Dibromochloromethane	124-48-1	ug/kg	26	U	11	U	11	U	12	U	7.5	U	8.5	U	8	U	12	U
001-VOCs-Piers	Dichlorodifluoromethane	75-71-8	ug/kg	53	U	22	U	22	U	23	U	15	U	17	U	16	U	25	U
001-VOCs-Piers	Ethylbenzene	100-41-4	ug/kg	26	U	11	U	11	U	27		190		4700		9.4		1.7	J
001-VOCs-Piers	Isopropylbenzene	98-82-8	ug/kg	26	UJ	11	UJ	11	U	72	J	620	J	4500		2.3	J	12	U
001-VOCs-Piers	M,P-XYLENE (SUM OF ISOMERS)	XYLMP	ug/kg	53	U	22	U	22	U	300	J	2300	J	47000		17	J	25	U
001-VOCs-Piers	Methyl acetate	79-20-9	ug/kg	26	U	11	U	11	U	12	UJ	7.5	UJ	8.5	UJ	8	UJ	12	U
001-VOCs-Piers	Methyl tert-Butyl Ether	1634-04-4	ug/kg	26	U	11	U	11	U	12	U	7.5	U	8.5	U	8	U	12	U

Table 1
Analytical Results - Sediment Samples
Pierson's Creek Superfund Site, OU1
Newark, NJ

			Location	D3		D3		D3		D15		D15		D15		D16		D16	
			Sample #	D3-SE-A		D3-SE-B		D3-SE-C		D15-SE-A		D15-SE-B		D15-SE-C		D16-SE-A		D16-SE-B	
			Start Depth	0		0.5		1		0		0.5		1		0		0.5	
			End Depth	0.5		1		2.5		0.5		1		2		0.5		1	
			Depth Unit	ft bgs		ft bgs		ft bgs		ft bgs		ft bgs		ft bgs		ft bgs		ft bgs	
			Sample Type	N		N		N		N		N		N		N		N	
			Parent Sample #																
			Sample Date	8/6/2019		8/6/2019		8/6/2019		12/12/2019		12/12/2019		12/12/2019		12/12/2019		12/12/2019	
Method Group	Analyte	CAS #	Units	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal
001-VOCs-Piers	Methylcyclohexane	108-87-2	ug/kg	26	U	11	U	11	U	37	J	360	J	1000	J	8	UJ	12	U
001-VOCs-Piers	Methylene Chloride	75-09-2	ug/kg	130	U	55	U	55	U	58	U	38	U	42	U	40	U	62	U
001-VOCs-Piers	o-Xylene	95-47-6	ug/kg	26	U	11	U	11	U	67	J	490	J	11000		5.9	J	12	U
001-VOCs-Piers	Styrene	100-42-5	ug/kg	26	U	11	U	11	U	12	UJ	7.5	UJ	8.5	UJ	8	UJ	12	U
001-VOCs-Piers	Tetrachloroethene	127-18-4	ug/kg	26	U	11	U	11	U	12	U	7.5	U	3.3	J	8	U	12	U
001-VOCs-Piers	Toluene	108-88-3	ug/kg	26	U	32		11	U	23	J	25		200	J	18		12	U
001-VOCs-Piers	TOTAL XYLENES	133-02-07	ug/kg																
001-VOCs-Piers	trans-1,2-Dichloroethene	156-60-5	ug/kg	26	U	11	U	11	U	12	U	7.5	U	1.7	J	8	U	12	U
001-VOCs-Piers	trans-1,3-Dichloropropene	10061-02-6	ug/kg	26	U	11	U	11	U	12	U	7.5	U	8.5	U	8	U	12	U
001-VOCs-Piers	Trichloroethene	79-01-6	ug/kg	26	U	11	U	11	U	12	U	2	J	8.2	J	1.2	J	12	U
001-VOCs-Piers	Trichlorofluoromethane	75-69-4	ug/kg	53	U	22	U	22	U	23	U	15	U	17	UJ	16	U	25	U
001-VOCs-Piers	Vinyl Chloride	75-01-4	ug/kg	53	U	22	U	22	U	23	U	15	U	1.8	J	16	U	25	U
001-VOCs-Piers	Xylenes (TOTAL)	1330-20-7	ug/kg	80	U	33	U	33	U	370	J	2800	J	7900	J	23	J	38	U
002-SVOCs-Piers	1,1'-Biphenyl	92-52-4	ug/kg	1300	U	650	U	710	U	640	U	8200		1400	J	520	U	610	U
002-SVOCs-Piers	1,2,4,5-Tetrachlorobenzene	95-94-3	ug/kg	1300	U	650	U	710	U	640	U	2600	U	500	U	520	U	610	U
002-SVOCs-Piers	1,4-Dioxane	123-91-1	ug/kg	1300	U	650	U	710	U	640	U	2600	U	500	U	520	U	610	U
002-SVOCs-Piers	2,2'-Oxybis(1-chloropropane)	108-60-1	ug/kg	1300	UJ	650	UJ	710	UJ	640	U	2600	U	500	U	520	U	610	U
002-SVOCs-Piers	2,3,4,6-Tetrachlorophenol	58-90-2	ug/kg	1300	U	650	U	710	U	640	U	2600	U	500	U	520	U	610	U
002-SVOCs-Piers	2,4,5-Trichlorophenol	95-95-4	ug/kg	3200	U	1600	U	1800	U	1600	U	6500	U	1200	U	1300	U	1500	U
002-SVOCs-Piers	2,4,6-Trichlorophenol	88-06-2	ug/kg	1300	U	650	U	710	U	640	U	2600	U	500	U	520	U	610	U
002-SVOCs-Piers	2,4-Dichlorophenol	120-83-2	ug/kg	1300	U	650	U	710	U	640	U	2600	U	500	U	520	U	610	U
002-SVOCs-Piers	2,4-Dimethylphenol	105-67-9	ug/kg	1300	U	650	U	710	U	640	U	2600	U	500	U	520	U	610	U
002-SVOCs-Piers	2,4-Dinitrophenol	51-28-5	ug/kg	3200	U	1600	U	1800	U	1600	U	6500	U	1200	U	1300	U	1500	U
002-SVOCs-Piers	2,4-Dinitrotoluene	121-14-2	ug/kg	840	J	210	J	710	U	640	U	2600	U	500	U	520	U	610	U
002-SVOCs-Piers	2,6-Dinitrotoluene	606-20-2	ug/kg	1300	U	650	U	710	U	640	U	2600	U	500	U	520	U	610	U
002-SVOCs-Piers	2-Chloronaphthalene	91-58-7	ug/kg	1300	U	650	U	710	U	640	U	2600	U	500	U	520	U	610	U
002-SVOCs-Piers	2-Chlorophenol	95-57-8	ug/kg	1300	U	650	U	710	U	640	U	2600	U	500	U	520	U	610	U
002-SVOCs-Piers	2-Methylnaphthalene	91-57-6	ug/kg	1300	U	650	U	710	U	640	U	4500		840		520	U	610	U
002-SVOCs-Piers	2-Methylphenol	95-48-7	ug/kg	1300	U	650	U	710	U	640	U	2600	U	500	U	520	U	610	U
002-SVOCs-Piers	2-Nitroaniline	88-74-4	ug/kg	3200	U	1600	U	1800	U	1600	U	6500	U	1200	U	1300	U	1500	U
002-SVOCs-Piers	2-Nitrophenol	88-75-5	ug/kg	1300	U	650	U	710	U	640	U	2600	U	500	U	520	U	610	U
002-SVOCs-Piers	3,3'-Dichlorobenzidine	91-94-1	ug/kg	1300	U	650	UJ	710	UJ	640	U	2600	U	500	UJ	520	U	610	UJ
002-SVOCs-Piers	3-Nitroaniline	99-09-2	ug/kg	3200	U	1600	U	1800	U	1600	U	6500	U	1200	U	1300	U	1500	U
002-SVOCs-Piers	4,6-Dinitro-2-methylphenol	534-52-1	ug/kg	3200	U	1600	U	1800	U	1600	U	6500	U	1200	U	1300	U	1500	U
002-SVOCs-Piers	4-Bromophenyl-phenylether	101-55-3	ug/kg	1300	U	650	U	710	U	640	U	2600	U	500	U	520	U	610	U
002-SVOCs-Piers	4-Chloro-3-methylphenol	59-50-7	ug/kg	1300	U	650	U	710	U	640	U	2600	U	500	U	520	U	610	U
002-SVOCs-Piers	4-Chloroaniline	106-47-8	ug/kg	1300	U	650	U	710	U	640	U	2600	U	500	U	520	U	610	U
002-SVOCs-Piers	4-Chlorophenyl-phenylether	7005-72-3	ug/kg	1300	U	650	U	710	U	640	U	2600	U	500	U	520	U	610	U
002-SVOCs-Piers	4-Nitroaniline	100-01-6	ug/kg	3200	U	1600	U	1800	U	1600	U	6500	U	1200	U	1300	U	1500	U
002-SVOCs-Piers	4-Nitrophenol	100-02-7	ug/kg	3200	U	1600	U	1800	U	1600	U	6500	U	1200	U	1300	U	1500	U

Table 1
Analytical Results - Sediment Samples
Pierson's Creek Superfund Site, OU1
Newark, NJ

			Location	D3		D3		D3		D15		D15		D15		D16		D16	
			Sample #	D3-SE-A		D3-SE-B		D3-SE-C		D15-SE-A		D15-SE-B		D15-SE-C		D16-SE-A		D16-SE-B	
			Start Depth	0		0.5		1		0		0.5		1		0		0.5	
			End Depth	0.5		1		2.5		0.5		1		2		0.5		1	
			Depth Unit	ft bgs		ft bgs		ft bgs		ft bgs		ft bgs		ft bgs		ft bgs		ft bgs	
			Sample Type	N		N		N		N		N		N		N		N	
			Parent Sample #																
			Sample Date	8/6/2019		8/6/2019		8/6/2019		12/12/2019		12/12/2019		12/12/2019		12/12/2019		12/12/2019	
Method Group	Analyte	CAS #	Units	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal
002-SVOCs-Piers	Acenaphthene	83-32-9	ug/kg	310	J	160	J	220	J	640	U	640	J	230	J	520	U	150	J
002-SVOCs-Piers	Acenaphthylene	208-96-8	ug/kg	1300	U	650	U	710	U	640	U	2600	U	500	U	520	U	610	U
002-SVOCs-Piers	Acetophenone	98-86-2	ug/kg	1300	U	650	U	710	U	640	U	2600	U	500	U	520	U	610	U
002-SVOCs-Piers	Anthracene	120-12-7	ug/kg	640	J	450	J	500	J	640	U	2200	J	1200		520	U	580	J
002-SVOCs-Piers	Atrazine	1912-24-9	ug/kg	1300	U	650	U	710	U	640	U	2600	U	500	U	520	U	610	U
002-SVOCs-Piers	Benzaldehyde	100-52-7	ug/kg	1300	U	650	U	710	U	640	U	2600	U	500	U	520	U	310	J
002-SVOCs-Piers	Benzo(a)anthracene	56-55-3	ug/kg	4700		3500	J	3000	J	880		980	J	1500	J	660		1900	J
002-SVOCs-Piers	Benzo(a)pyrene	50-32-8	ug/kg	6400	J	5200	J	3800	J	1300	J	970	J	1900	J	820	J	2400	J
002-SVOCs-Piers	Benzo(b)fluoranthene	205-99-2	ug/kg	11000	J	9600	J	6200	J	1700	J	2600	UJ	2400	J	1400	J	3000	J
002-SVOCs-Piers	Benzo(g,h,i)perylene	191-24-2	ug/kg	5200	J	4800	J	3100	J	1000	J	2600	UJ	1300	J	690	J	1700	J
002-SVOCs-Piers	Benzo(k)fluoranthene	207-08-9	ug/kg	3600	J	3200	J	2300	J	910	J	2600	UJ	1100	J	620	J	1200	J
002-SVOCs-Piers	Bis(2-chloroethoxy)methane	111-91-1	ug/kg	1300	U	650	U	710	U	640	U	2600	U	500	U	520	U	610	U
002-SVOCs-Piers	Bis(2-chloroethyl)ether	111-44-4	ug/kg	1300	U	650	U	710	U	640	U	2600	U	500	U	520	U	610	U
002-SVOCs-Piers	Bis(2-ethylhexyl)phthalate	117-81-7	ug/kg	3600		3900	J	6400	J	5100		220000		47000		7300		16000	
002-SVOCs-Piers	Butylbenzylphthalate	85-68-7	ug/kg	680	J	700	J	1400	J	190	J	2600	U	570	J	1700		360	J
002-SVOCs-Piers	Caprolactam	105-60-2	ug/kg	1300	U	650	U	710	U	640	U	2600	U	500	U	520	U	610	U
002-SVOCs-Piers	Carbazole	86-74-8	ug/kg	610	J	440	J	400	J	640	U	2600	U	220	J	520	U	610	U
002-SVOCs-Piers	Chrysene	218-01-9	ug/kg	7100		6000	J	4200	J	1300		1500	J	2000	J	860		2300	J
002-SVOCs-Piers	CRESOLS, M & P	MEPH1314	ug/kg	1300	U	650	U	710	U	640	U	2600	U	500	U	520	U	610	U
002-SVOCs-Piers	Dibenzo(a,h)anthracene	53-70-3	ug/kg	1800	J	1600	J	1000	J	270	J	2600	UJ	370	J	520	UJ	580	J
002-SVOCs-Piers	Dibenzofuran	132-64-9	ug/kg	1300	U	650	U	710	U	640	U	2600	U	180	J	520	U	610	U
002-SVOCs-Piers	Diethylphthalate	84-66-2	ug/kg	1300	U	650	U	710	U	640	U	2600	U	500	U	520	U	610	U
002-SVOCs-Piers	Dimethylphthalate	131-11-3	ug/kg	1300	U	650	U	710	U	640	U	2600	U	500	U	520	U	610	U
002-SVOCs-Piers	Di-n-butylphthalate	84-74-2	ug/kg	1300	U	210	J	710	U	640	U	2600	U	180	J	520	U	610	U
002-SVOCs-Piers	Di-n-octylphthalate	117-84-0	ug/kg	1300	UJ	650	UJ	710	UJ	640	UJ	6600	J	1200	J	520	UJ	610	UJ
002-SVOCs-Piers	Fluoranthene	206-44-0	ug/kg	8600		5800		5300		1400		2100	J	2300	J	1100		3000	
002-SVOCs-Piers	Fluorene	86-73-7	ug/kg	1300	U	650	U	710	U	640	U	1300	J	410	J	520	U	180	J
002-SVOCs-Piers	Hexachlorobenzene	118-74-1	ug/kg	1300	U	650	U	710	U	640	U	2600	U	500	U	520	U	610	U
002-SVOCs-Piers	Hexachlorobutadiene	87-68-3	ug/kg	1300	U	650	U	710	U	640	U	2600	U	500	U	520	U	610	U
002-SVOCs-Piers	Hexachlorocyclopentadiene	77-47-4	ug/kg	1300	U	650	U	710	U	640	U	2600	U		R	520	U	610	U
002-SVOCs-Piers	Hexachloroethane	67-72-1	ug/kg	1300	U	650	U	710	U	640	U	2600	U	500	U	520	U	610	U
002-SVOCs-Piers	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	5000	J	4100	J	3000	J	1100	J	2600	UJ	1300	J	670	J	1700	J
002-SVOCs-Piers	Isophorone	78-59-1	ug/kg	1300	U	650	U	710	U	640	U	2600	U	500	U	520	U	610	U
002-SVOCs-Piers	Naphthalene	91-20-3	ug/kg	1300	U	650	U	710	U	640	U	1700	J	470	J	520	U	610	U
002-SVOCs-Piers	Nitrobenzene	98-95-3	ug/kg	1300	U	650	U	710	U	640	U	2600	U	500	U	520	U	610	U
002-SVOCs-Piers	N-Nitroso-di-n-propylamine	621-64-7	ug/kg	1300	U	650	U	710	U	640	U	2600	U	500	U	520	U	610	U
002-SVOCs-Piers	N-Nitrosodiphenylamine	86-30-6	ug/kg	1300	U	650	U	710	U	640	U	2600	U	580	J	520	U	610	U
002-SVOCs-Piers	Pentachlorophenol	87-86-5	ug/kg	3200	U	1600	U	1800	U	1600	U	6500	U	1200	U	1300	U	1500	U
002-SVOCs-Piers	Phenanthrene	85-01-8	ug/kg	4000		2800		2900		750		4000		2300		640		2600	
002-SVOCs-Piers	Phenol	108-95-2	ug/kg	1300	U	650	U	710	U	640	U	2600	U	500	U	520	U	610	U

Table 1
Analytical Results - Sediment Samples
Pierson's Creek Superfund Site, OU1
Newark, NJ

			Location	D3		D3		D3		D15		D15		D15		D16		D16	
			Sample #	D3-SE-A		D3-SE-B		D3-SE-C		D15-SE-A		D15-SE-B		D15-SE-C		D16-SE-A		D16-SE-B	
			Start Depth	0		0.5		1		0		0.5		1		0		0.5	
			End Depth	0.5		1		2.5		0.5		1		2		0.5		1	
			Depth Unit	ft bgs		ft bgs		ft bgs		ft bgs		ft bgs		ft bgs		ft bgs		ft bgs	
			Sample Type	N		N		N		N		N		N		N		N	
			Parent Sample #																
			Sample Date	8/6/2019		8/6/2019		8/6/2019		12/12/2019		12/12/2019		12/12/2019		12/12/2019		12/12/2019	
Method Group	Analyte	CAS #	Units	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal
002-SVOCs-Piers	Pyrene	129-00-0	ug/kg	11000		9000		7700	J	2200		4300		6100	J	2100		5300	
003-Pest-Piers	4,4'-DDD	72-54-8	ug/kg	150	J	97	J	200	J	1500	J	5000		5700		850	J	1900	
003-Pest-Piers	4,4'-DDE	72-55-9	ug/kg	33	J	17	J	53	J	210		1100		1600	J	110	J	270	
003-Pest-Piers	4,4'-DDT	50-29-3	ug/kg	160	J	120	J	240	J	180	J	2000	J	4400	J	310	J	210	J
003-Pest-Piers	Aldrin	309-00-2	ug/kg	33	U	20	U	160	J	13	J	450		1200	J	2.9	U	16	U
003-Pest-Piers	alpha-BHC	319-84-6	ug/kg	33	U	20	U	22	U	17	U	14	U	14	U	2.9	U	16	U
003-Pest-Piers	alpha-Chlordane	5103-71-9	ug/kg	33	U	47	J	230	J	46	J	1100		2200		140		48	
003-Pest-Piers	beta-BHC	319-85-7	ug/kg	33	U	20	U	22	U	17	U	14	U	14	U	2.9	U	16	U
003-Pest-Piers	delta-BHC	319-86-8	ug/kg	190	J	62	J	22	U	17	U	14	U	14	U	2.9	U	16	U
003-Pest-Piers	Dieldrin	60-57-1	ug/kg	64	U	69	J	180	J	320	J	4700		8400		580		370	J
003-Pest-Piers	Endosulfan I	959-98-8	ug/kg	33	U	20	U	22	U	8.4	J	14	U	14	U	7.9		16	U
003-Pest-Piers	Endosulfan II	33213-65-9	ug/kg	64	U	39	U	43	U	33	U	27	U	26	U	5.6	U	30	U
003-Pest-Piers	Endosulfan Sulfate	1031-07-8	ug/kg	29	J	35	J	43	U	33	U	27	U	910	J	5.6	U	30	U
003-Pest-Piers	Endrin	72-20-8	ug/kg	64	U	39	U	43	U	33	U	27	U	26	U	5.6	U	30	U
003-Pest-Piers	Endrin aldehyde	7421-93-4	ug/kg	64	U	39	U	43	U	33	U	27	U	720		5.6	U	30	U
003-Pest-Piers	Endrin Ketone	53494-70-5	ug/kg	64	U	39	U	43	U	98	J	1100	J	2000	J	200	J	98	J
003-Pest-Piers	gamma-BHC (Lindane)	58-89-9	ug/kg	33	U	14	J	22	U	17	U	14	U	14	U	2.9	U	16	U
003-Pest-Piers	gamma-Chlordane	5103-74-2	ug/kg	33	U	63	J	300	J	100	J	1500		2900		230		110	
003-Pest-Piers	Heptachlor	76-44-8	ug/kg	33	U	20	U	22	U	17	U	14	U	14	U	2.9	U	16	U
003-Pest-Piers	Heptachlor Epoxide	1024-57-3	ug/kg	33	U	20	U	22	U	17	U	14	U	14	U	2.9	U	16	U
003-Pest-Piers	Methoxychlor	72-43-5	ug/kg	330	U	200	U	220	U	170	U	140	U	140	U	29	U	160	U
003-Pest-Piers	Toxaphene	8001-35-2	ug/kg	640	U	390	U	430	U	330	U	270	U	260	U	56	U	300	U
005-Aroclors-Piers	Aroclor 1016	12674-11-2	ug/kg	660	U	330	U	360	U	170	U	280	U	550	U	140	U	160	U
005-Aroclors-Piers	Aroclor 1221	11104-28-2	ug/kg	660	U	330	U	360	U	170	U	280	U	550	U	140	U	160	U
005-Aroclors-Piers	Aroclor 1232	11141-16-5	ug/kg	660	U	330	U	360	U	170	U	280	U	550	U	140	U	160	U
005-Aroclors-Piers	Aroclor 1242	53469-21-9	ug/kg	13000		3200		12000		170	UJ	9400		22000		500		320	
005-Aroclors-Piers	Aroclor 1248	12672-29-6	ug/kg	660	U	330	U	360	U	170	U	280	U	550	U	140	U	160	U
005-Aroclors-Piers	Aroclor 1254	11097-69-1	ug/kg	660	U	330	U	360	U	2200	J	32000		76000		6000		2600	J
005-Aroclors-Piers	Aroclor 1260	11096-82-5	ug/kg	1500		1100		1300		1100	J	14000		30000		3200		1400	
005-Aroclors-Piers	Aroclor 1262	37324-23-5	ug/kg	660	U	330	U	360	U	170	U	280	U	550	U	140	U	160	U
005-Aroclors-Piers	Aroclor 1268	11100-14-4	ug/kg	660	U	330	U	360	U	170	U	280	U	550	U	140	U	160	U
005-Aroclors-Piers	Total Aroclors	TARO	ug/kg	14500		4300		13300		3300		55400		128000		9700		4320	
007-Dioxin/Furan-Piers	1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562-39-4	ng/kg																
007-Dioxin/Furan-Piers	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	35822-46-9	ng/kg																
007-Dioxin/Furan-Piers	1,2,3,4,7,8,9-Heptachlorodibenzofuran	55673-89-7	ng/kg																
007-Dioxin/Furan-Piers	1,2,3,4,7,8-Hexachlorodibenzofuran	70648-26-9	ng/kg																
007-Dioxin/Furan-Piers	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	39227-28-6	ng/kg																
007-Dioxin/Furan-Piers	1,2,3,6,7,8-Hexachlorodibenzofuran	57117-44-9	ng/kg																
007-Dioxin/Furan-Piers	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	57653-85-7	ng/kg																
007-Dioxin/Furan-Piers	1,2,3,7,8,9-Hexachlorodibenzofuran	72918-21-9	ng/kg																

Table 1
Analytical Results - Sediment Samples
Pierson's Creek Superfund Site, OU1
Newark, NJ

			Location	D3		D3		D3		D15		D15		D15		D16		D16	
			Sample #	D3-SE-A		D3-SE-B		D3-SE-C		D15-SE-A		D15-SE-B		D15-SE-C		D16-SE-A		D16-SE-B	
			Start Depth	0		0.5		1		0		0.5		1		0		0.5	
			End Depth	0.5		1		2.5		0.5		1		2		0.5		1	
			Depth Unit	ft bgs		ft bgs		ft bgs		ft bgs		ft bgs		ft bgs		ft bgs		ft bgs	
			Sample Type	N		N		N		N		N		N		N		N	
			Parent Sample #																
			Sample Date	8/6/2019		8/6/2019		8/6/2019		12/12/2019		12/12/2019		12/12/2019		12/12/2019		12/12/2019	
Method Group	Analyte	CAS #	Units	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal
007-Dioxin/Furan-Piers	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	19408-74-3	ng/kg																
007-Dioxin/Furan-Piers	1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6	ng/kg																
007-Dioxin/Furan-Piers	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	40321-76-4	ng/kg																
007-Dioxin/Furan-Piers	2,3,4,6,7,8-Hexachlorodibenzofuran	60851-34-5	ng/kg																
007-Dioxin/Furan-Piers	2,3,4,7,8-Pentachlorodibenzofuran	57117-31-4	ng/kg																
007-Dioxin/Furan-Piers	2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	ng/kg																
007-Dioxin/Furan-Piers	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6	ng/kg																
007-Dioxin/Furan-Piers	Octachlorodibenzofuran	39001-02-0	ng/kg																
007-Dioxin/Furan-Piers	Octachlorodibenzo-p-dioxin	3268-87-9	ng/kg																
007-Dioxin/Furan-Piers	Total HcCDF	38998-75-3	ng/kg																
007-Dioxin/Furan-Piers	Total HpCDD	37871-00-4	ng/kg																
007-Dioxin/Furan-Piers	Total HxCDD	34465-46-8	ng/kg																
007-Dioxin/Furan-Piers	Total HxCDF	55684-94-1	ng/kg																
007-Dioxin/Furan-Piers	Total PeCDD	36088-22-9	ng/kg																
007-Dioxin/Furan-Piers	Total PeCDF	30402-15-4	ng/kg																
007-Dioxin/Furan-Piers	Total TCDD	41903-57-5	ng/kg																
007-Dioxin/Furan-Piers	Total TCDF	55722-27-5	ng/kg																
011-Inorganics-Piers	Aluminum	7429-90-5	mg/kg	23100		18700		21400		19800		11900		9890		11200		13600	
011-Inorganics-Piers	Antimony	7440-36-0	mg/kg	28.6		17.7		21.6		1.25	J	4.49	J	5.84	J	1.39	J	1.25	J
011-Inorganics-Piers	Arsenic	7440-38-2	mg/kg	455		507		623		303	J	1250		966		578		638	
011-Inorganics-Piers	Barium	7440-39-3	mg/kg	481		402		509		187		362		405		192		232	
011-Inorganics-Piers	Beryllium	7440-41-7	mg/kg	1.2		0.862		0.919		1.05		0.637		0.708		0.669		0.789	
011-Inorganics-Piers	Cadmium	7440-43-9	mg/kg	14.1		9.68		32.5		6.95		66.4		98.7		18.7		20.4	
011-Inorganics-Piers	Calcium	7440-70-2	mg/kg	17400		14100		13600		8890		10100		14900		16600		21400	
011-Inorganics-Piers	Chromium	7440-47-3	mg/kg	141		110		201		92.8		174		184		76.6		88.9	
011-Inorganics-Piers	Cobalt	7440-48-4	mg/kg	38.1		35.4		49.1		29.4		31.4		32.9		26		22.9	
011-Inorganics-Piers	Copper	7440-50-8	mg/kg	785		503		1020		476		446		449		320		273	
011-Inorganics-Piers	Cyanide	57-12-5	mg/kg	9.8		4.4		4.4		2.6	U	1.6		4.4		1.5	U	2.3	U
011-Inorganics-Piers	Iron	7439-89-6	mg/kg	59100		49700		51100		40600		24700		22400		25900		29100	
011-Inorganics-Piers	Lead	7439-92-1	mg/kg	1260		863		2520		425	J	947	J	2010	J	594	J	405	J
011-Inorganics-Piers	Magnesium	7439-95-4	mg/kg	10700		9110		7980		10700		4740		4230		6120		8040	
011-Inorganics-Piers	Manganese	7439-96-5	mg/kg	1280		1050		850		292		293		361		301		356	
011-Inorganics-Piers	Mercury	7439-97-6	mg/kg	48.5		154		7710		267	J	574	J	401	J	556	J	477	J
011-Inorganics-Piers	Mercury	7439-97-6	ng/g	55800		134000													
011-Inorganics-Piers	Methyl Mercury	22967-92-6	ng/g	9.95		14.3		72.5		28.5		1190		571		69.4		93.1	
011-Inorganics-Piers	Nickel	7440-02-0	mg/kg	336		198		267		103	J	76.8	J	61.5	J	94.1	J	61.3	J
011-Inorganics-Piers	Potassium	7440-09-7	mg/kg	2960		2420		1960		2200		1140		1230		1140		1650	
011-Inorganics-Piers	Selenium	7782-49-2	mg/kg	2.1		1.44		3.04		1.1	J	1.31		1.53		0.733	J	0.733	
011-Inorganics-Piers	Silver	7440-22-4	mg/kg	13.7		9.28		111		5.68	J	11.6	J	12.5	J	17.5	J	5.8	J
011-Inorganics-Piers	Sodium	7440-23-5	mg/kg	1790		1720		1170		1860		1190		1180		1860		1930	

Table 1
Analytical Results - Sediment Samples
Pierson's Creek Superfund Site, OU1
Newark, NJ

			Location	D3		D3		D3		D15		D15		D15		D16		D16	
			Sample #	D3-SE-A		D3-SE-B		D3-SE-C		D15-SE-A		D15-SE-B		D15-SE-C		D16-SE-A		D16-SE-B	
			Start Depth	0		0.5		1		0		0.5		1		0		0.5	
			End Depth	0.5		1		2.5		0.5		1		2		0.5		1	
			Depth Unit	ft bgs		ft bgs		ft bgs		ft bgs		ft bgs		ft bgs		ft bgs		ft bgs	
			Sample Type	N		N		N		N		N		N		N		N	
			Parent Sample #																
			Sample Date	8/6/2019		8/6/2019		8/6/2019		12/12/2019		12/12/2019		12/12/2019		12/12/2019		12/12/2019	
Method Group	Analyte	CAS #	Units	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal
011-Inorganics-Piers	Thallium	7440-28-0	mg/kg	0.293		0.213		0.237		0.215		0.204		0.266		0.14	J	0.199	
011-Inorganics-Piers	Vanadium	7440-62-2	mg/kg	112		91.2		102		79.4		47.1		44.6		46.1		58.1	
011-Inorganics-Piers	Zinc	7440-66-6	mg/kg	3400		2540		3820		751		904		1120		876		697	
014-General Chemistry	Total Organic Carbon	TOC	ug/g	130000		130000		140000		73000		110000		160000		64000		62000	
015-Grain Size-Piers	% COARSE SAND >.5 - 1 MM	COARSE SAND	%	0		0		0											
015-Grain Size-Piers	% Coarse Sand >0.5 - 1.0 mm	%COARSESAND	%																
015-Grain Size-Piers	% Fine Sand >.125 - .25 mm	%FINE SAND	%																
015-Grain Size-Piers	% Medium Sand >.25 - .5 mm	%MEDIUM SAND	%																
015-Grain Size-Piers	% MEDIUM SAND >.25 - .5 MM	MEDIUM SAND	%	13.76		5.71		2.62											
015-Grain Size-Piers	HYD01	HYD01	% Passing	12.44		12.27		19.67											
015-Grain Size-Piers	HYD02	HYD02	% Passing	10.01		12.27		17.52											
015-Grain Size-Piers	HYD03	HYD03	% Passing	9.2		10.67		14.31											
015-Grain Size-Piers	HYD04	HYD04	% Passing	8.14		8.28		10.77											
015-Grain Size-Piers	HYD05	HYD05	% Passing	7.34		7.23		9.7											
015-Grain Size-Piers	HYD06	HYD06	% Passing	4.66		5.39		131.43											
015-Grain Size-Piers	HYD07	HYD07	% Passing	2.48		3.24		2.95											
015-Grain Size-Piers	0.75 INCH SIEVE	SIEVE0.75IN	% Passing	100		100		100											
015-Grain Size-Piers	1.5 INCH SIEVE	SIEVE1.5IN	% Passing	100		100		100											
015-Grain Size-Piers	3 INCH SIEVE	SIEVE3IN	% Passing	100		100		100											
015-Grain Size-Piers	Clay	%CLAY	%	5.69		6.42		37.92											
015-Grain Size-Piers	GRAVEL	Gravel	%	0		0		0											
015-Grain Size-Piers	HYDROMETER, READING 1	HYD1-PARTICLE	um	35.77		35.77		35.37											
015-Grain Size-Piers	HYDROMETER, READING 2	HYD2-PARTICLE	um	23.04		22.62		22.62											
015-Grain Size-Piers	HYDROMETER, READING 3	HYD3-PARTICLE	um	13.3		13.21		13.21											
015-Grain Size-Piers	HYDROMETER, READING 4	HYD4-PARTICLE	um	9.57		9.51		9.57											
015-Grain Size-Piers	HYDROMETER, READING 5	HYD5-PARTICLE	um	6.76		6.76		6.76											
015-Grain Size-Piers	HYDROMETER, READING 6	HYD6-PARTICLE	um	3.46		3.43		2.25											
015-Grain Size-Piers	HYDROMETER, READING 7	HYD7-PARTICLE	um	1.42		1.42		1.43											
015-Grain Size-Piers	Percent Passing Sieve#10	SIEVE10	% Passing	100		100		100											
015-Grain Size-Piers	Percent Passing Sieve#20	SIEVE20	% Passing	95.28		98.03		99.42											
015-Grain Size-Piers	Percent Passing Sieve#40	SIEVE40	% Passing	86.24		94.29		97.38											
015-Grain Size-Piers	Percent Passing Sieve#60	SIEVE60	% Passing	77.98		90.75		95.06											
015-Grain Size-Piers	Sand Fine	FINE SAND	%	29.48		12.59		11.34											
015-Grain Size-Piers	Sieve 0.25 inch, % passing	SIEVE0.25IN	% Passing	100		100		100											
015-Grain Size-Piers	SIEVE 1 inch, Percent Finer	SIEVE1INCH	% Passing	100		100		100											
015-Grain Size-Piers	SIEVE 2 inch, Percent Finer	SIEVE2INCH	% Passing	100		100		100											
015-Grain Size-Piers	SIEVE NO. 80, PERCENT PASSING	SIEVE80	% Passing	72.09		88.39		93.31											
015-Grain Size-Piers	SIEVE, 0.15 mm, PERCENT PASSING	SIEVEUS100	% Passing	68.55		87.01		92.15											
015-Grain Size-Piers	SIEVE, 4.75 mm, PERCENT PASSING	SIEVEUS4	% Passing	100		100		100											
015-Grain Size-Piers	Sieve-U.S. Std. No. 200 (0.075 mm)	SIEVEUS200	% Passing	56.76		81.7		86.04											

Table 1
Analytical Results - Sediment Samples
Pierson's Creek Superfund Site, OU1
Newark, NJ

			Location	D3		D3		D3		D15		D15		D15		D16		D16	
			Sample #	D3-SE-A		D3-SE-B		D3-SE-C		D15-SE-A		D15-SE-B		D15-SE-C		D16-SE-A		D16-SE-B	
			Start Depth	0		0.5		1		0		0.5		1		0		0.5	
			End Depth	0.5		1		2.5		0.5		1		2		0.5		1	
			Depth Unit	ft bgs		ft bgs		ft bgs		ft bgs		ft bgs		ft bgs		ft bgs		ft bgs	
			Sample Type	N		N		N		N		N		N		N		N	
			Parent Sample #																
			Sample Date	8/6/2019		8/6/2019		8/6/2019		12/12/2019		12/12/2019		12/12/2019		12/12/2019		12/12/2019	
Method Group	Analyte	CAS #	Units	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal
015-Grain Size-Piers	Silt	%SILT	%																
015-Grain Size-Piers	SILT	445	%	51.07		75.28		48.12											
017-MerSpec-Piers	MINERAL-BOUND HG	M-G-HG	ng/g	8840															
017-MerSpec-Piers	ORGANO-COMPLEXED HG	OG-C-HG	ng/g	4110															
017-MerSpec-Piers	STRONGLY COMPLEXED AND ELEMENTAL HG	S-B-HG	ng/g	48900															
017-MerSpec-Piers	VOLATILE HG	V-E-HG	ng/g	190	U	99.5	U												
017-MerSpec-Piers	WATER SOLUBLE HG	W-S-HG	ng/g	1950															
017-MerSpec-Piers	WEAK ACID-SOLUBLE HG	SAS-HG	ng/g	223															

Table 2
Analytical Results - Surface Water Samples
Pierson's Creek Superfund Site, OU1
Newark, NJ

			Location	D1		D1		D1		D1		D3		D3		D3		D3	
			Sample #	D1-SW-R1		D1-SW-R1-F		D1-SW-R2		D1-SW-R2-F		D3-SW-R1		D3-SW-R1-F		D3-SW-R2		D3-SW-R2-F	
			Start Depth	0		0		0		0		0		0		0		0	
			End Depth	1		1		1		1		1		1		1		1	
			Depth Unit	ft		ft		ft bgs		ft bgs		ft		ft		ft bgs		ft bgs	
			Sample Type	N		N		N		N		N		N		N		N	
			Parent Sample #																
			Sample Date	8/22/2019		8/22/2019		12/12/2019		12/12/2019		8/22/2019		8/22/2019		12/12/2019		12/12/2019	
Method Group	Analyte	CAS #	Units	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal
001-VOCs-Piers	1,1,1-Trichloroethane	71-55-6	ug/l	0.5	U			0.5	U			0.5	U			0.5	U		
001-VOCs-Piers	1,1,2,2-Tetrachloroethane	79-34-5	ug/l	1	U			0.5	U			1	U			0.5	U		
001-VOCs-Piers	1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ug/l	0.5	U			0.5	U			0.5	U			0.5	U		
001-VOCs-Piers	1,1,2-Trichloroethane	79-00-5	ug/l	0.5	U			0.5	U			0.5	U			0.5	U		
001-VOCs-Piers	1,1-Dichloroethane	75-34-3	ug/l	0.5	U			0.12	J			0.57				0.43	J		
001-VOCs-Piers	1,1-Dichloroethene	75-35-4	ug/l	0.5	U			0.5	U			0.5	U			0.5	UJ		
001-VOCs-Piers	1,2,3-Trichlorobenzene	87-61-6	ug/l	0.5	U			0.5	U			0.5	U			0.5	U		
001-VOCs-Piers	1,2,4-Trichlorobenzene	120-82-1	ug/l	1	U			0.49	J			1	U			0.5	U		
001-VOCs-Piers	1,2-Dibromo-3-chloropropane	96-12-8	ug/l	0.5	U			0.5	U			0.5	U			0.5	U		
001-VOCs-Piers	1,2-Dibromoethane	106-93-4	ug/l	0.5	U			0.5	U			0.5	U			0.5	U		
001-VOCs-Piers	1,2-Dichlorobenzene	95-50-1	ug/l	3.2				1.8				3.5				0.5	U		
001-VOCs-Piers	1,2-Dichloroethane	107-06-2	ug/l	0.5	U			0.5	U			1.7				0.14	J		
001-VOCs-Piers	1,2-Dichloropropane	78-87-5	ug/l	0.5	U			0.5	U			0.5	U			0.5	U		
001-VOCs-Piers	1,3-Dichlorobenzene	541-73-1	ug/l	1.8				0.36	J			3				0.5	U		
001-VOCs-Piers	1,4-Dichlorobenzene	106-46-7	ug/l	6.8				1.3				12				0.5	U		
001-VOCs-Piers	2-Butanone	78-93-3	ug/l	5	U			5	U			5	U			5	U		
001-VOCs-Piers	2-Hexanone	591-78-6	ug/l	5	U			5	U			5	U			5	U		
001-VOCs-Piers	4-Methyl-2-pentanone	108-10-1	ug/l	5	U			5	U			5	U			5	U		
001-VOCs-Piers	Acetone	67-64-1	ug/l	40				5	U			5	U			5	U		
001-VOCs-Piers	Benzene	71-43-2	ug/l	21				1.7				7.6				0.42	J		
001-VOCs-Piers	Bromochloromethane	74-97-5	ug/l	0.5	U			0.5	U			0.5	U			0.5	U		
001-VOCs-Piers	Bromodichloromethane	75-27-4	ug/l	0.5	U			0.5	U			0.5	U			0.5	U		
001-VOCs-Piers	Bromoform	75-25-2	ug/l	0.5	U			0.5	U			0.5	U			0.5	U		
001-VOCs-Piers	Bromomethane	74-83-9	ug/l	1	UL			0.5	U			1	U			0.5	U		
001-VOCs-Piers	Carbon Disulfide	75-15-0	ug/l	0.5	U			0.5	U			0.5	U			0.5	U		
001-VOCs-Piers	Carbon Tetrachloride	56-23-5	ug/l	0.5	U			0.5	U			0.5	U			0.5	U		
001-VOCs-Piers	Chlorobenzene	108-90-7	ug/l	8.6				1.7				1.5	L			0.5	U		
001-VOCs-Piers	Chloroethane	75-00-3	ug/l	1.3				0.5	U			0.5	U			0.5	U		
001-VOCs-Piers	Chloroform	67-66-3	ug/l	0.5	U			0.5	U			0.5	U			0.5	U		
001-VOCs-Piers	Chloromethane	74-87-3	ug/l	0.5	U			0.5	U			0.5	U			0.5	U		
001-VOCs-Piers	cis-1,2-Dichloroethene	156-59-2	ug/l	0.5	U			0.5	U			1.6				1.4	J-		
001-VOCs-Piers	cis-1,3-Dichloropropene	10061-01-5	ug/l	0.5	U			0.5	U			0.5	UL			0.5	U		
001-VOCs-Piers	Cyclohexane	110-82-7	ug/l	0.5	UL			0.5	U			0.5	UL			0.5	U		
001-VOCs-Piers	Dibromochloromethane	124-48-1	ug/l	0.5	U			0.5	U			0.5	U			0.5	U		
001-VOCs-Piers	Dichlorodifluoromethane	75-71-8	ug/l	0.5	UL			0.5	U			0.5	U			0.5	U		
001-VOCs-Piers	Ethylbenzene	100-41-4	ug/l	3.8				0.55				0.53				0.5	U		
001-VOCs-Piers	Isopropylbenzene	98-82-8	ug/l	0.5	U			0.17	J			1.1				0.5	U		
001-VOCs-Piers	m,p-Xylene	179601-23-1	ug/l					1.7								0.1	J		
001-VOCs-Piers	M,P-XYLENE (SUM OF ISOMERS)	XYLMP	ug/l	3.6								0.79							
001-VOCs-Piers	Methyl acetate	79-20-9	ug/l	0.5	U			0.5	U			0.5	U			0.5	U		

Table 2
Analytical Results - Surface Water Samples
Pierson's Creek Superfund Site, OU1
Newark, NJ

			Location	D1		D1		D1		D1		D3		D3		D3		D3	
			Sample #	D1-SW-R1		D1-SW-R1-F		D1-SW-R2		D1-SW-R2-F		D3-SW-R1		D3-SW-R1-F		D3-SW-R2		D3-SW-R2-F	
			Start Depth	0		0		0		0		0		0		0		0	
			End Depth	1		1		1		1		1		1		1		1	
			Depth Unit	ft		ft		ft bgs		ft bgs		ft		ft		ft bgs		ft bgs	
			Sample Type	N		N		N		N		N		N		N		N	
			Parent Sample #																
			Sample Date	8/22/2019		8/22/2019		12/12/2019		12/12/2019		8/22/2019		8/22/2019		12/12/2019		12/12/2019	
Method Group	Analyte	CAS #	Units	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal
001-VOCs-Piers	Methyl tert-Butyl Ether	1634-04-4	ug/l	0.5	U			0.52				0.5	U			0.5	U		
001-VOCs-Piers	Methylcyclohexane	108-87-2	ug/l	0.5	UL			0.5	U			0.5	UL			0.5	U		
001-VOCs-Piers	Methylene Chloride	75-09-2	ug/l	0.5	U			0.5	U			0.5	U			0.5	U		
001-VOCs-Piers	o-Xylene	95-47-6	ug/l	2.7				1.1				1.2				0.5	U		
001-VOCs-Piers	Styrene	100-42-5	ug/l	0.5	U			0.5	U			0.5	U			0.5	U		
001-VOCs-Piers	Tetrachloroethene	127-18-4	ug/l	0.5	U			0.5	U			0.5	U			0.5	U		
001-VOCs-Piers	Toluene	108-88-3	ug/l	2.7				0.44	J			0.75				0.5	U		
001-VOCs-Piers	trans-1,2-Dichloroethene	156-60-5	ug/l	0.5	U			0.12	J			0.5	U			0.1	J-		
001-VOCs-Piers	trans-1,3-Dichloropropene	10061-02-6	ug/l	0.5	U			0.5	U			0.5	U			0.5	U		
001-VOCs-Piers	Trichloroethene	79-01-6	ug/l	0.5	U			0.5	U			0.5	U			0.19	J		
001-VOCs-Piers	Trichlorofluoromethane	75-69-4	ug/l	0.5	U			0.5	U			0.5	U			0.5	U		
001-VOCs-Piers	Vinyl Chloride	75-01-4	ug/l	0.5	UJ			0.11	J			0.5	UJ			0.81			
002-SVOCs-Piers	1,1'-Biphenyl	92-52-4	ug/l	4.8	U			5	U			5	U			5	U		
002-SVOCs-Piers	1,2,4,5-Tetrachlorobenzene	95-94-3	ug/l	4.8	U			5	U			5	U			5	U		
002-SVOCs-Piers	1,4-Dioxane	123-91-1	ug/l	1.9	U			2	U			2	U			2	U		
002-SVOCs-Piers	2,2'-Oxybis(1-chloropropane)	108-60-1	ug/l	9.5	U			10	U			10	U			10	U		
002-SVOCs-Piers	2,3,4,6-Tetrachlorophenol	58-90-2	ug/l	4.8	U			5	U			5	U			5	U		
002-SVOCs-Piers	2,4,5-Trichlorophenol	95-95-4	ug/l	4.8	U			5	U			5	U			5	U		
002-SVOCs-Piers	2,4,6-Trichlorophenol	88-06-2	ug/l	4.8	U			5	U			5	U			5	U		
002-SVOCs-Piers	2,4-Dichlorophenol	120-83-2	ug/l	4.8	U			5	U			5	U			5	U		
002-SVOCs-Piers	2,4-Dimethylphenol	105-67-9	ug/l	4.8	U			1.3	J			5	U			5	U		
002-SVOCs-Piers	2,4-Dinitrophenol	51-28-5	ug/l	9.5	U			10	U			10	U			10	U		
002-SVOCs-Piers	2,4-Dinitrotoluene	121-14-2	ug/l	4.8	U			5	U			5	U			5	U		
002-SVOCs-Piers	2,6-Dinitrotoluene	606-20-2	ug/l	4.8	U			5	U			5	U			5	U		
002-SVOCs-Piers	2-Chloronaphthalene	91-58-7	ug/l	4.8	U			5	U			5	U			5	U		
002-SVOCs-Piers	2-Chlorophenol	95-57-8	ug/l	4.8	U			5	U			5	U			5	U		
002-SVOCs-Piers	2-Methylnaphthalene	91-57-6	ug/l	4.8	U			5	U			5	U			5	U		
002-SVOCs-Piers	2-Methylphenol	95-48-7	ug/l	9.5	U			10	U			10	U			10	U		
002-SVOCs-Piers	2-Nitroaniline	88-74-4	ug/l	4.8	U			5	U			5	U			5	U		
002-SVOCs-Piers	2-Nitrophenol	88-75-5	ug/l	4.8	U			5	U			5	U			5	U		
002-SVOCs-Piers	3,3'-Dichlorobenzidine	91-94-1	ug/l	9.5	U			10	U			10	U			10	U		
002-SVOCs-Piers	3-Nitroaniline	99-09-2	ug/l	9.5	U			10	U			10	U			10	U		
002-SVOCs-Piers	4,6-Dinitro-2-methylphenol	534-52-1	ug/l	9.5	U			10	U			10	U			10	U		
002-SVOCs-Piers	4-Bromophenyl-phenylether	101-55-3	ug/l	4.8	U			5	U			5	U			5	U		
002-SVOCs-Piers	4-Chloro-3-methylphenol	59-50-7	ug/l	4.8	U			5	U			5	U			5	U		
002-SVOCs-Piers	4-Chloroaniline	106-47-8	ug/l	0.97	J			10	U			10	U			10	U		
002-SVOCs-Piers	4-Chlorophenyl-phenylether	7005-72-3	ug/l	4.8	U			5	U			5	U			5	U		
002-SVOCs-Piers	4-Methylphenol	106-44-5	ug/l	0.96	J			10	U			10	U			10	U		
002-SVOCs-Piers	4-Nitroaniline	100-01-6	ug/l	9.5	U			10	U			10	U			10	U		
002-SVOCs-Piers	4-Nitrophenol	100-02-7	ug/l	9.5	U			10	U			10	U			10	U		

Table 2
Analytical Results - Surface Water Samples
Pierson's Creek Superfund Site, OU1
Newark, NJ

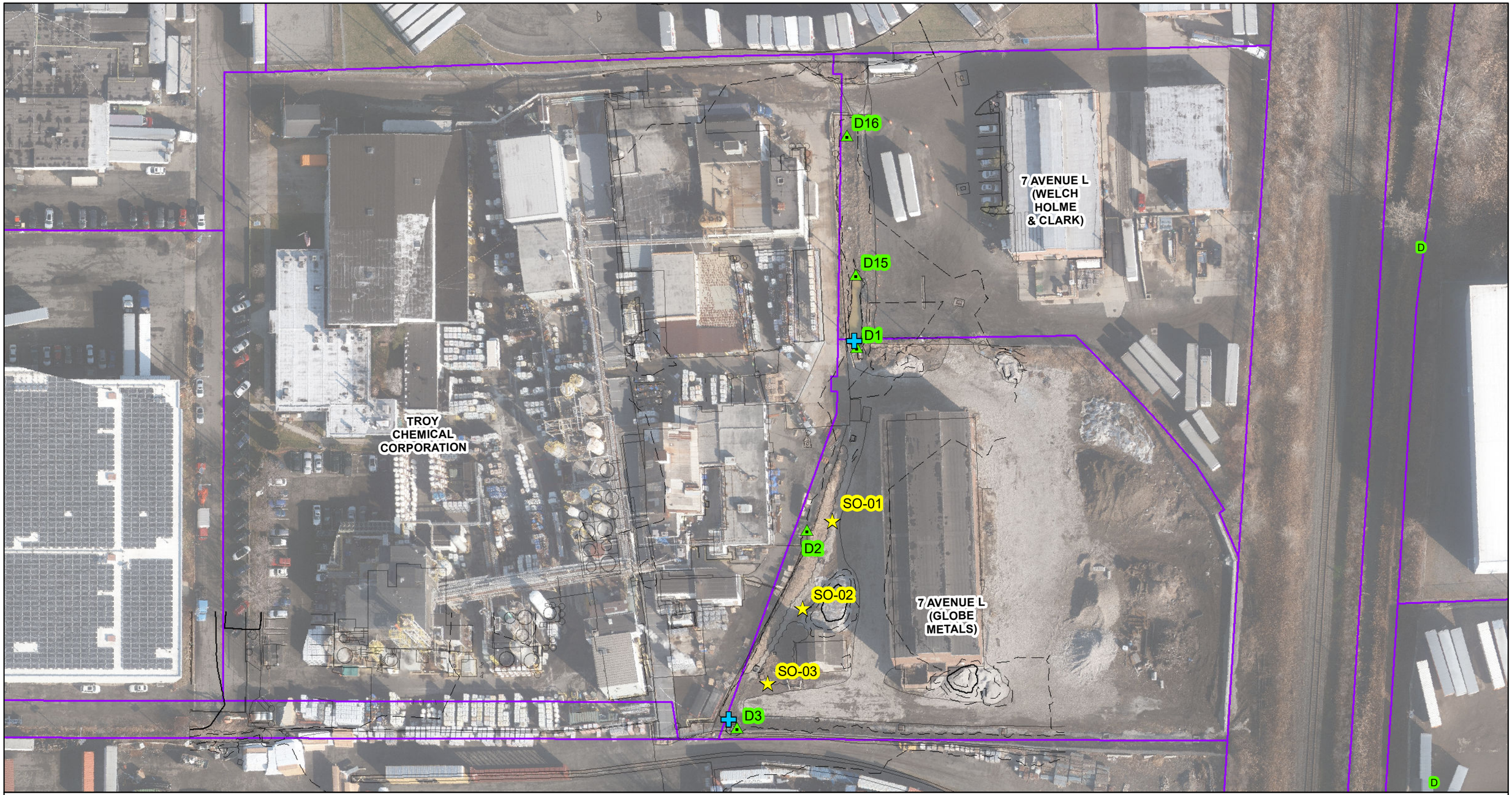
			Location	D1		D1		D1		D1		D3		D3		D3		D3	
			Sample #	D1-SW-R1		D1-SW-R1-F		D1-SW-R2		D1-SW-R2-F		D3-SW-R1		D3-SW-R1-F		D3-SW-R2		D3-SW-R2-F	
			Start Depth	0		0		0		0		0		0		0		0	
			End Depth	1		1		1		1		1		1		1		1	
			Depth Unit	ft		ft		ft bgs		ft bgs		ft		ft		ft bgs		ft bgs	
			Sample Type	N		N		N		N		N		N		N		N	
			Parent Sample #																
			Sample Date	8/22/2019		8/22/2019		12/12/2019		12/12/2019		8/22/2019		8/22/2019		12/12/2019		12/12/2019	
Method Group	Analyte	CAS #	Units	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal
002-SVOCs-Piers	Acenaphthene	83-32-9	ug/l	4.8	U			5	U			5	U			5	U		
002-SVOCs-Piers	Acenaphthylene	208-96-8	ug/l	4.8	U			5	U			5	U			5	U		
002-SVOCs-Piers	Acetophenone	98-86-2	ug/l	9.5	U			10	U			10	U			10	U		
002-SVOCs-Piers	Anthracene	120-12-7	ug/l	4.8	U			5	U			2.8	J			5	U		
002-SVOCs-Piers	Atrazine	1912-24-9	ug/l	9.5	U			10	U			10	U			10	U		
002-SVOCs-Piers	Benzaldehyde	100-52-7	ug/l	9.5	U			10	U			10	U			10	U		
002-SVOCs-Piers	Benzo(a)anthracene	56-55-3	ug/l	4.8	U			5	U			0.7	J			5	U		
002-SVOCs-Piers	Benzo(a)pyrene	50-32-8	ug/l	4.8	U			5	U			5	U			5	U		
002-SVOCs-Piers	Benzo(b)fluoranthene	205-99-2	ug/l	4.8	U			5	U			1.2	J			5	U		
002-SVOCs-Piers	Benzo(g,h,i)perylene	191-24-2	ug/l	4.8	U			5	U			5	U			5	U		
002-SVOCs-Piers	Benzo(k)fluoranthene	207-08-9	ug/l	4.8	U			5	U			5	U			5	U		
002-SVOCs-Piers	Bis(2-chloroethoxy)methane	111-91-1	ug/l	4.8	U			5	U			5	U			5	U		
002-SVOCs-Piers	Bis(2-chloroethyl)ether	111-44-4	ug/l	9.5	U			10	U			10	U			10	U		
002-SVOCs-Piers	Bis(2-ethylhexyl)phthalate	117-81-7	ug/l	0.77	J			5	U			200	J			5	U		
002-SVOCs-Piers	Butylbenzylphthalate	85-68-7	ug/l	4.8	UJ			5	U			0.77	J			5	U		
002-SVOCs-Piers	Caprolactam	105-60-2	ug/l	13				10	U			10	U			10	U		
002-SVOCs-Piers	Carbazole	86-74-8	ug/l	9.5	U			10	U			10	U			10	U		
002-SVOCs-Piers	Chrysene	218-01-9	ug/l	4.8	U			5	U			1.2	J			5	U		
002-SVOCs-Piers	Dibenzo(a,h)anthracene	53-70-3	ug/l	4.8	UJ			5	U			5	UJ			5	U		
002-SVOCs-Piers	Dibenzofuran	132-64-9	ug/l	4.8	U			5	U			5	U			5	U		
002-SVOCs-Piers	Diethylphthalate	84-66-2	ug/l	4.8	U			5	U			5	U			5	U		
002-SVOCs-Piers	Dimethylphthalate	131-11-3	ug/l	4.8	U			1.1	J			5	U			1.2	J		
002-SVOCs-Piers	Di-n-butylphthalate	84-74-2	ug/l	4.8	U			5	U			8.5				5	U		
002-SVOCs-Piers	Di-n-octylphthalate	117-84-0	ug/l	9.5	U			10	U			4.1	J			10	U		
002-SVOCs-Piers	Fluoranthene	206-44-0	ug/l	9.5	U			10	U			2.1	J			10	U		
002-SVOCs-Piers	Fluorene	86-73-7	ug/l	4.8	U			5	U			5	U			5	U		
002-SVOCs-Piers	Hexachlorobenzene	118-74-1	ug/l	4.8	U			5	U			5	U			5	U		
002-SVOCs-Piers	Hexachlorobutadiene	87-68-3	ug/l	4.8	U			5	U			5	U			5	U		
002-SVOCs-Piers	Hexachlorocyclopentadiene	77-47-4	ug/l	9.5	U			10	U			10	U			10	U		
002-SVOCs-Piers	Hexachloroethane	67-72-1	ug/l	4.8	U			5	U			5	U			5	U		
002-SVOCs-Piers	Indeno(1,2,3-cd)pyrene	193-39-5	ug/l	4.8	UJ			5	U			5	UJ			5	U		
002-SVOCs-Piers	Isophorone	78-59-1	ug/l	4.8	U			5	U			5	U			5	U		
002-SVOCs-Piers	Naphthalene	91-20-3	ug/l	4.8	U			5	U			1.3	J			5	U		
002-SVOCs-Piers	Nitrobenzene	98-95-3	ug/l	4.8	U			5	U			5	U			5	U		
002-SVOCs-Piers	N-Nitroso-di-n-propylamine	621-64-7	ug/l	4.8	U			5	U			5	U			5	U		
002-SVOCs-Piers	N-Nitrosodiphenylamine	86-30-6	ug/l	4.8	U			5	U			1.3	J			4.3	J		
002-SVOCs-Piers	Pentachlorophenol	87-86-5	ug/l	9.5	U			10	U			10	UJ			10	U		
002-SVOCs-Piers	Phenanthrene	85-01-8	ug/l	4.8	U			5	U			0.86	J			5	U		
002-SVOCs-Piers	Phenol	108-95-2	ug/l	2.2	J			10	U			10	U			10	U		
002-SVOCs-Piers	Pyrene	129-00-0	ug/l	4.8	U			5	U			2.4	J			5	U		

Table 2
Analytical Results - Surface Water Samples
Pierson's Creek Superfund Site, OU1
Newark, NJ

			Location	D1		D1		D1		D1		D3		D3		D3		D3	
			Sample #	D1-SW-R1		D1-SW-R1-F		D1-SW-R2		D1-SW-R2-F		D3-SW-R1		D3-SW-R1-F		D3-SW-R2		D3-SW-R2-F	
			Start Depth	0		0		0		0		0		0		0		0	
			End Depth	1		1		1		1		1		1		1		1	
			Depth Unit	ft		ft		ft bgs		ft bgs		ft		ft		ft bgs		ft bgs	
			Sample Type	N		N		N		N		N		N		N		N	
			Parent Sample #																
			Sample Date	8/22/2019		8/22/2019		12/12/2019		12/12/2019		8/22/2019		8/22/2019		12/12/2019		12/12/2019	
Method Group	Analyte	CAS #	Units	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal
003-Pest-Piers	4,4'-DDD	72-54-8	ug/l	0.15				0.1	U			0.74				0.1	U		
003-Pest-Piers	4,4'-DDE	72-55-9	ug/l	0.097	U			0.1	U			0.12	U			0.1	U		
003-Pest-Piers	4,4'-DDT	50-29-3	ug/l	0.097	U			0.1	U				R			0.1	U		
003-Pest-Piers	Aldrin	309-00-2	ug/l	0.049	U			0.05	U			0.06	U			0.05	U		
003-Pest-Piers	alpha-BHC	319-84-6	ug/l	0.049	U			0.05	U			0.06	U			0.05	U		
003-Pest-Piers	alpha-Chlordane	5103-71-9	ug/l	0.049	U			0.05	U				R			0.05	U		
003-Pest-Piers	beta-BHC	319-85-7	ug/l	0.049	U			0.05	U			0.062				0.05	U		
003-Pest-Piers	delta-BHC	319-86-8	ug/l	0.0068	J			0.05	U			0.074				0.05	U		
003-Pest-Piers	Dieldrin	60-57-1	ug/l	0.097	U			0.013	J			0.38	J			0.1	U		
003-Pest-Piers	Endosulfan I	959-98-8	ug/l	0.049	U			0.05	U			0.077	NJ			0.05	U		
003-Pest-Piers	Endosulfan II	33213-65-9	ug/l	0.013	J			0.1	U			0.12	U			0.1	U		
003-Pest-Piers	Endosulfan Sulfate	1031-07-8	ug/l	0.097	U			0.1	U			0.12	U			0.1	U		
003-Pest-Piers	Endrin	72-20-8	ug/l	0.097	U			0.1	U			0.12	U			0.1	U		
003-Pest-Piers	Endrin aldehyde	7421-93-4	ug/l	0.097	U			0.1	U			0.12	U			0.1	U		
003-Pest-Piers	Endrin Ketone	53494-70-5	ug/l	0.097	U			0.1	U			0.12	U			0.1	U		
003-Pest-Piers	gamma-BHC (Lindane)	58-89-9	ug/l	0.049	U			0.05	U			0.06	U			0.05	U		
003-Pest-Piers	gamma-Chlordane	5103-74-2	ug/l	0.049	U			0.05	U			0.22	J			0.05	U		
003-Pest-Piers	Heptachlor	76-44-8	ug/l	0.049	U			0.018	J			0.06	U			0.05	U		
003-Pest-Piers	Heptachlor Epoxide	1024-57-3	ug/l	0.049	U			0.05	U			0.06	U			0.05	U		
003-Pest-Piers	Methoxychlor	72-43-5	ug/l	0.49	U			0.5	U			0.6	U			0.5	U		
003-Pest-Piers	Toxaphene	8001-35-2	ug/l	4.9	U			5	U			6	U			5	U		
005-Aroclors-Piers	Aroclor 1016	12674-11-2	ug/l	0.97	U			1	U			1.2	U			1	U		
005-Aroclors-Piers	Aroclor 1221	11104-28-2	ug/l	0.97	U			1	U			1.2	U			1	U		
005-Aroclors-Piers	Aroclor 1232	11141-16-5	ug/l	0.97	U			1	U			1.2	U			1	U		
005-Aroclors-Piers	Aroclor 1242	53469-21-9	ug/l	0.82	J			1	U			8.6	NJ			1	U		
005-Aroclors-Piers	Aroclor 1248	12672-29-6	ug/l	0.97	U			1	U			1.2	U			1	U		
005-Aroclors-Piers	Aroclor 1254	11097-69-1	ug/l	0.97	U			1	U			1.2	U			1	U		
005-Aroclors-Piers	Aroclor 1260	11096-82-5	ug/l	0.57	J			1	U			3.2				1	U		
005-Aroclors-Piers	Aroclor 1262	37324-23-5	ug/l	0.97	U			1	U			1.2	U			1	U		
005-Aroclors-Piers	Aroclor 1268	11100-14-4	ug/l	0.97	U			1	U			1.2	U			1	U		
005-Aroclors-Piers	Total Aroclors	TARO	ug/l	1.39				0	U			11.8				0	U		
011-Inorganics-Piers	Aluminum	7429-90-5	ug/l	11000		2300		144		20	U	1200		570		10.4	J	20	U
011-Inorganics-Piers	Antimony	7440-36-0	ug/l	20	U	20	U	2	U	2	U	20	U	20	U	2	U	2	U
011-Inorganics-Piers	Arsenic	7440-38-2	ug/l	520		290		5740	J	3740	J	1700		1400		538		550	
011-Inorganics-Piers	Barium	7440-39-3	ug/l	220		130		321		301	J	350		230		55.2		55.2	
011-Inorganics-Piers	Beryllium	7440-41-7	ug/l	3	U	3	U	1	U	1	U	3	U	3	U	1	U	1	U
011-Inorganics-Piers	Cadmium	7440-43-9	ug/l	3	U	3	U	1.1		0.15	J	3	U	3	U	0.13	J	1	U
011-Inorganics-Piers	Calcium	7440-70-2	ug/l	82000		62000		104000		104000	J	81000		75000		78500		79200	
011-Inorganics-Piers	Chromium	7440-47-3	ug/l	95		20		1.9	J	1.1	J	18		9.5		1	J	0.78	J
011-Inorganics-Piers	Cobalt	7440-48-4	ug/l	65		20	U	21.8		21.4	J	20	U	20	U	0.79	J	0.73	J

Table 2
Analytical Results - Surface Water Samples
Pierson's Creek Superfund Site, OU1
Newark, NJ

			Location	D1		D1		D1		D1		D3		D3		D3		D3	
			Sample #	D1-SW-R1		D1-SW-R1-F		D1-SW-R2		D1-SW-R2-F		D3-SW-R1		D3-SW-R1-F		D3-SW-R2		D3-SW-R2-F	
			Start Depth	0		0		0		0		0		0		0		0	
			End Depth	1		1		1		1		1		1		1		1	
			Depth Unit	ft		ft		ft bgs		ft bgs		ft		ft		ft bgs		ft bgs	
			Sample Type	N		N		N		N		N		N		N		N	
			Parent Sample #																
			Sample Date	8/22/2019		8/22/2019		12/12/2019		12/12/2019		8/22/2019		8/22/2019		12/12/2019		12/12/2019	
Method Group	Analyte	CAS #	Units	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal	Result	Quaal
011-Inorganics-Piers	Copper	7440-50-8	ug/l	2900		640		8.2		0.69	J	160		49		7.3		3.9	
011-Inorganics-Piers	Cyanide	57-12-5	ug/l	10	U			10	U			12				10	U		
011-Inorganics-Piers	Iron	7439-89-6	ug/l	37000		11000		17100	J	14300	J	24000		18000		14700		14800	
011-Inorganics-Piers	Lead	7439-92-1	ug/l	480		100		2.9		1	U	190		140		2		0.93	J
011-Inorganics-Piers	Magnesium	7439-95-4	ug/l	26000		19000		16900		16600	J	18000		16000		13900		14000	
011-Inorganics-Piers	Manganese	7439-96-5	ug/l	1100		580		744	J	738		810		890		249		249	
011-Inorganics-Piers	Mercury	7439-97-6	ug/l	300		44		0.38		0.05	U	25		24		0.16		0.024	J
011-Inorganics-Piers	Methyl Mercury	22967-92-6	ng/l					2.49								0.394			
011-Inorganics-Piers	Nickel	7440-02-0	ug/l	850		250		18.6		17.9	J	53		25		4.5		4.7	
011-Inorganics-Piers	Potassium	7440-09-7	ug/l	12000		16000		12300		11000	J	14000		13000		14100		13700	
011-Inorganics-Piers	Selenium	7782-49-2	ug/l	20	U	20	U	5	U	5	U	20	U	20	U	5	U	5	U
011-Inorganics-Piers	Silver	7440-22-4	ug/l	7.6		5	U	1	U	1	U	5	U	5	U	1	U	1	U
011-Inorganics-Piers	Sodium	7440-23-5	ug/l	150000		170000		283000	J	227000	J	130000		120000		96500		99300	
011-Inorganics-Piers	Thallium	7440-28-0	ug/l	20	U	20	U	1	U	1	U	20	U	20	U	1	U	1	U
011-Inorganics-Piers	Vanadium	7440-62-2	ug/l	44		20	U	1.5	J	5	U	20	U	20	U	0.8	J	0.71	J
011-Inorganics-Piers	Zinc	7440-66-6	ug/l	1300		330		210		184	J	210		140		49.7		45.9	
014-General Chemistry-Piers	Alkalinity Bicarbonate	71-52-3	mg/l	280								250							
014-General Chemistry-Piers	ALKALINITY, BICARBONATE (AS CACO3)	ALKB	mg/l					300								220			
014-General Chemistry-Piers	Ammonia	7664-41-7	mg/l	0.9				2				1.1				0.75			
014-General Chemistry-Piers	Chloride	16887-00-6	mg/l	220				410				190				140			
014-General Chemistry-Piers	Dissolved Organic Carbon	DOC	mg/l	22				11				15				9.6			
014-General Chemistry-Piers	Nitrate + Nitrite [As N]	NN	mg/l	0.11				0.05	U			0.085				0.05	U		
014-General Chemistry-Piers	Particulate Organic Carbon	PAROC	ug/l	43000				4900				2E+06				3000			
014-General Chemistry-Piers	Phosphorus	7723-14-0	mg/l	0.715				0.107				3.07				0.0821			
014-General Chemistry-Piers	Sulfate	14808-79-8	mg/l	71				25				78				100			
014-General Chemistry-Piers	Total Alkalinity	ALK	mg/l					300								220			
014-General Chemistry-Piers	Total Dissolved Solids	TDS	mg/l	750				990				730				640			
014-General Chemistry-Piers	Total Organic Carbon	TOC	mg/l	26				10				1	U			9.2			
014-General Chemistry-Piers	Total Suspended Solids	TSS	mg/l	390				50				22000				31			



Pierson's Creek Orientation

- Creek Culvert
- Storm Pipe
- Pavement/Footbridge
- Concrete
- Aerial Survey Features
- Topography/Bathymetry Contour (10 foot)
- Topography/Bathymetry Contour (2 foot)

- Property Boundaries
- Creek Footprint (low tide)

Sample Locations:

- Sediment Core
- Surface Water

Labels:

- T1 -Transect/Drainage Ditch
- A -Transect Sediment Sample
- 200 Creek Length Marker (feet)

N

0 75 150 Feet

1 in = 75 feet

Figure 1
Samples Locations - Upper Creek
Pierson's Creek Superfund Site
Newark, NJ

CDM Smith