

PADEP Frac and Flowback Water Analytical Data - SVOAs

SVOA		24		23		22		21		20		19		18	
Count															
Lab. Sample ID		O2009008665		O2009008664		O2009008663		O2009008317		O2009007736		O2009007383		O2009007176	
Collector No.		9516003		9522002		9522001		9522001		9522001		9522001		9522001	
County		Susquehanna		Susquehanna		Clinton		Tioga		Tioga		Tioga		Indiana	
Type of Sample		Frac Flow Back		Frac Flow Back		Frac Flow Back		Frac Flow Back		Frac Flow Back		Frac Flow Back		Frac Flow Back	
Permit #		115-20095		115-20095		035-21155		117-20268		117-20325		117-20295		063-36435	
Site Name		J. Grimsley 2H		J. Grimsley 1		COP Tract 285		Smith K 253 1H		Bowers 408 1H		White 262 1H		Ind. Co. Airport 8391H	
Date		11/19/2009		11/19/2009		11/18/2009		11/4/2009		10/16/2009		10/1/2009		9/25/2009	
Collector		Tersine		Fuller		Fuller		Fuller		Fuller		Fuller		Fuller/Tersine	
Test/CAS#	Description	Reported (UG/L)	Results	Reported (UG/L)	Results	Reported (UG/L)	Results	Reported (UG/L)	Results	Reported (UG/L)	Results	Reported (UG/L)	Results	Reported (UG/L)	Results
109068	2-Picoline (2-Methylpyridine)	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
95943	1,2,4,5-Tetrachlorobenzene	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
120821	1,2,4-Trichlorobenzene	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
95501	1,2-Dichlorobenzene	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
541731	1,3-Dichlorobenzene	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
99650	1,3-Dinitrobenzene	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
106467	1,4-Dichlorobenzene	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
130154	1,4-Naphthoquinone	<5.15	U	<5.32	U	<5	U	<5.21	U	<37.5	U	<5	U	<5.26	U
58902	2,3,4,6-Tetrachlorophenol	<10.3	U	<10.6	U	<10	U	<10.4	U	<10.4	U	<10	U	<10.5	U
95954	2,4,5-Trichlorophenol	<10.3	U	<10.6	U	<10	U	<10.4	U	<10	U	<10	U	<10.5	U
88062	2,4,6-Trichlorophenol	<10.3	U	<10.6	U	<10	U	<10.4	U	<10	U	<10	U	<10.5	U
120832	2,4-Dichlorophenol	<10.3	U	<10.6	U	<10	U	<10.4	U	<10	U	<10	U	<10.5	U
105679	2,4-Dimethylphenol	<10.3	U	<10.6	U	<10	U	<10.4	U	<10	U	<10	U	<10.5	U
51285	2,4-Dinitrophenol	<5.15	U	<53.2	U	<5	U	<10.4	U	<100	U	<10	U	<10.5	U
121142	2,4-Dinitrotoluene	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
87650	2,6-Dichlorophenol	<10.3	U	<10.6	U	<10	U	<10.4	U	<10	U	<10	U	<10.5	U
606202	2,6-Dinitrotoluene	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
53963	2-Acetylaminofluorene	<25.8	U	<26.6	U	<25	U	<5.21	U	<5	U	<5	U	<5.26	U
91587	2-Chloronaphthalene	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
95578	2-Chlorophenol	<10.3	U	<10.6	U	<10	U	<10.4	U	<10	U	<10	U	<10.5	U
91576	2-Methylnaphthalene	<2.58	U	6.28	U	1.120	U	<2.6	U	<2.5	U	<2.5	U	<2.63	U
95487	2-Methylphenol	<10.3	U	<10.6	U	<10	U	<10.4	U	<10	U	<10	U	<10.5	U
88744	2-Nitroaniline	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
88755	2-Nitrophenol	<10.3	U	<10.6	U	<10	U	<10.4	U	<10	U	<10	U	<10.5	U
1319773	3&4-Methylphenol	<20.6	U	<21.3	U	<20	U	<20.8	U	<5	U	<20	U	<21.0	U
91941	3,3'-Dichlorobenzidine	<25.8	U	<5.32	U	<25	U	<5.21	U	<5	U	<5	U	<5.26	U
56495	3-Methylcholanthrene	<2.58	U	<2.66	U	<2.5	U	<2.6	U	<5	U	<2.5	U	<2.63	U
99092	3-Nitroaniline	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
72548	4,4'-DDD	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
72559	4,4'-DDE	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
50293	4,4'-DDT	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
534521	4,6-Dinitro-2-Methylphenol	<20.6	U	<21.3	U	<20	U	<10.4	U	<10	U	<10	U	<10.5	U
92671	4-Aminobiphenyl	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
101553	4-Bromophenyl-Phenyl Ether	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
59507	4-Chloro-3-Methylphenol	<10.3	U	<10.6	U	<10	U	<10.4	U	<10	U	<10	U	<10.5	U
106478	4-Chloroaniline	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
7005723	4-Chlorophenyl-Phenyl Ether	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
100016	4-Nitroaniline	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
100027	4-Nitrophenol	<10.3	U	<10.6	U	<10	U	<10.4	U	<50	U	<10	U	<10.5	U
99558	5-Nitro-O-Toluidine	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
57976	7,12-Dimethylbenz(A)-Anthracen	<2.58	U	<2.66	U	<2.5	U	<2.6	U	<2.5	U	<2.5	U	<2.63	U
83329	Acenaphthene	<2.58	U	<2.66	U	<5	U	<2.6	U	<2.5	U	<5	U	<2.63	U
208968	Acenaphthylene	<2.58	U	<2.66	U	<2.5	U	<2.6	U	<2.5	U	<2.5	U	<2.63	U
98862	Acetophenone	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
309002	Aldrin	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
319846	Alpha-Bhc	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
62533	Aniline	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
120127	Anthracene	<2.58	U	<2.66	U	<2.5	U	<2.6	U	<2.5	U	<2.5	U	<2.63	U
140578	Aramite	<10.3	U	<10.6	U	<10	U	<10.4	U	<5	U	<5	U	<5.26	U
56553	Benz(A)Anthracene	<2.58	U	<2.66	U	<2.5	U	<2.6	U	<2.5	U	<2.5	U	<2.63	U
50328	Benzo(A)Pyrene	<5.15	U	<2.66	U	<2.5	U	<2.6	U	<2.5	U	<2.5	U	<2.63	U
205992	Benzo(B)Fluoranthene	<2.58	U	<2.66	U	<2.5	U	<2.6	U	<5	U	<2.5	U	<2.63	U
191242	Benzo(G,H,I)Perylene	<2.58	U	<5.32	U	<2.5	U	<2.6	U	<2.5	U	<2.5	U	<2.63	U
207089	Benzo(K)Fluoranthene	<2.58	U	<2.66	U	<2.5	U	<2.6	U	<2.5	U	<2.5	U	<2.63	U
100516	Benzyl Alcohol	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
319857	Beta-Bhc	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
111911	Bis-(2-Chloroethoxy)Methane	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
111444	Bis-(2-Chloroethyl)Ether	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
108601	Bis-(2-Chloroisopropyl)Ether	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
117817	Bis-(2-Ethylhexyl)Phthalate	<10.3	U	<10.6	U	<10	U	9.26	U	<5	U	<5	U	<5.26	U
85687	Butylbenzylphthalate	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
510156	Chlorobenzilate	<25.8	U	<26.6	U	<25	U	<5.21	U	<5	U	<5	U	<5.26	U

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Collector No.		9516003		9522002		9522001		9522001		9522001		9522001		9522001	
County		Susquehanna		Susquehanna		Clinton		Tioga		Tioga		Tioga		Indiana	
Type of Sample		Frac Flow Back		Frac Flow Back		Frac Flow Back		Frac Flow Back		Frac Flow Back		Frac Flow Back		Frac Flow Back	
Permit #		115-20095		115-20095		035-21155		117-20268		117-20325		117-20295		063-36435	
Site Name		J. Grimsley 2H		J. Grimsley 1		COP Tract 285		Smith K 253 1H		Bowers 408 1H		White 262 1H		Ind. Co. Airport 8391H	
Date		11/19/2009		11/19/2009		11/18/2009		11/4/2009		10/16/2009		10/1/2009		9/25/2009	
Collector		Tersine		Fuller		Fuller		Fuller		Fuller		Fuller		Fuller/Tersine	
Test/CAS#	Description	Reported (UG/L)	Results	Reported (UG/L)	Results	Reported (UG/L)	Results	Reported (UG/L)	Results	Reported (UG/L)	Results	Reported (UG/L)	Results	Reported (UG/L)	Results
218019	Chrysene	<2.58	U	<2.66	U	<2.5	U	<2.6	U	<2.5	U	<2.5	U	<2.63	U
319868	Delta-Bhc	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
2303164	Diallate (Cis or Trans)	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
53703	Dibenzo(A,H)Anthracene	<2.58	U	<2.66	U	<2.5	U	<2.6	U	<2.5	U	<2.5	U	<2.63	U
132649	Dibenzofuran	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
60571	Dieldrin	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
84662	Diethylphthalate	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
60515	Dimethoate	<10.3	U	<10.6	U	<10	U	<5.21	U	<5	U	<5	U	<5.26	U
60117	Dimethylaminoazobenzene	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
131113	Dimethylphthalate	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
84742	Di-N-Butylphthalate	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
117840	Di-N-Octylphthalate	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
88857	Dinoseb	<20.6	U	<21.3	U	<20	U	<10.4	U	<75	U	<10	U	<10.5	U
122394	Diphenylamine	<10.3	U	<10.6	U	<10	U	<10.4	U	<10	U	<5	U	<5.26	U
298044	Disulfoton	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
959988	Endosulfan I	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
33213659	Endosulfan II	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
72208	Endrin	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
62500	Ethyl Methanesulfonate	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
56382	Ethyl Parathion	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
206440	Fluoranthene	<2.58	U	<2.66	U	<2.5	U	<2.6	U	<2.5	U	<2.5	U	<2.63	U
86737	Fluorene	<2.58	U	<2.66	U	<2.5	U	<2.6	U	<2.5	U	<2.5	U	<2.63	U
58899	gamma-BHC (Lindane)	<5.15	U	<5.32	U	<5	U	<5.21	U	<10	U	<5	U	<5.26	U
76448	Heptachlor	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
1024573	Heptachlor Epoxide	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
118741	Hexachlorobenzene	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
87683	Hexachlorobutadiene	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
77474	Hexachlorocyclopentadiene	<10.3	U	<10.6	U	<10	U	<26.0	U	<37.5	U	<25	U	<10.5	U
67721	Hexachloroethane	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
1888717	Hexachloropropene	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
193395	Indeno-1,2,3-cd-pyrene	<2.58	U	<2.66	U	<2.5	U	<2.6	U	<2.5	U	<2.5	U	<2.63	U
465736	Isodrin	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
78591	Isophorone	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
120581	Isosafrole	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
72435	Methoxychlor	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
66273	Methyl Methanesulfonate	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
91203	Naphthalene	6.77	U	11.9	U	2.560	U	<2.6	U	<5	U	<2.5	U	<2.63	U
98953	Nitrobenzene	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
924163	N-Nitrosodibutylamine	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
55185	N-Nitrosodiethylamine	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
62759	N-Nitrosodimethylamine	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<25	U	<5.26	U
621647	N-Nitrosodipropylamine	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
10595956	N-Nitrosomethylethylamine	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
59892	N-Nitrosomorpholine	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
100754	N-Nitrosopiperidine	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
126681	O,O,O-Triethyl Phosphorothioat	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
95534	O-Toluidine	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
608935	Pentachlorobenzene	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
76017	Pentachloroethane	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
82688	Pentachloronitrobenzene	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
87865	Pentachlorophenol	<10.3	U	<10.6	U	<10	U	<10.4	U	<10	U	<10	U	<10.5	U
85018	Phenanthrene	<2.58	U	<2.66	U	<2.5	U	<2.6	U	<2.5	U	<2.5	U	<2.63	U
108952	Phenol	105	Q	<10.6	U	<10	U	<10.4	U	<10	U	<10	U	<10.5	U
298022	Phorate	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
23950585	Pronamide	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
129000	Pyrene	<2.58	U	<2.66	U	<2.5	U	<2.6	U	<2.5	U	<2.5	U	<2.63	U
110861	Pyridine	404	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
94597	Safrole	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
3689245	Tetraethyl Dithiopyrophosphate (Sulfotep)	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U
297972	Thionazine	<5.15	U	<5.32	U	<5	U	<5.21	U	<5	U	<5	U	<5.26	U

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SVOA	Count	17		16		15		14		13		12		11	
Lab. Sample ID	Collector No.	O2009006820 9516003		O2009006649 9522001		O2009006650 9522002		O2009006571 9522001		O2009006150 9522001		O2009005813 9522001			
County	Type of Sample	Westmoreland Tank Frac Water		Susquehanna Tank Frac Water		Susquehanna Tank Frac Water		Clinton Frac Flow Back		Fayette Frac Flow Back		Fayette Frac Flow Back		Tioga Frac Flow Back	
Permit #	Site Name	129-27856 Eaglehouse Unit #7 1H		115-20148 Hubbard H5		115-20147 Hubbard 6H		035-21162 COP Tract 653 1001H		051-24098 W. Simth #1		051-24209 Bezjak #26		117-20279 Courtney H 255	
Date	Collector	9/14/2009		9/9/2009		9/9/2009		9/2/2009		8/19/2009		8/5/2009		7/23/2009	
Test/CAS#	Description	Tersine Reported (UG/L)	Results	Fuller Reported (UG/L)	Results	Fuller Reported (UG/L)	Results	Fuller Reported (UG/L)	Results	Fuller Reported (UG/L)	Results	Fuller Reported (UG/L)	Results	Fuller Reported (UG/L)	Results
218019	Chrysene	<2.45	U	<2.78	U	<2.78	U	<2.36	U	<2.45	U	<2.36	U	<3.01	U
319868	Delta-Bhc	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
2303164	Diallate (Cis or Trans)	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
53703	Dibenzo(A,H)Anthracene	<2.45	U	<2.78	U	<2.78	U	<2.36	U	<2.45	U	<2.36	U	<3.01	U
132649	Dibenzofuran	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
60571	Dieldrin	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
84662	Diethylphthalate	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
60515	Dimethoate	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
60117	Dimethylaminoazobenzene	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
131113	Dimethylphthalate	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
84742	Di-N-Butylphthalate	46.8	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
117840	Di-N-Octylphthalate	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
88857	Dinoseb	<9.8	U	<11.1	U	<11.1	U	<9.43	U	<9.8	U	<9.43	U	<12	U
122394	Diphenylamine	<4.9	U	<11.1	U	<11.1	U	<4.72	U	<4.9	U	<9.43	U	<12	U
298044	Disulfoton	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
959988	Endosulfan I	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
33213659	Endosulfan II	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
72208	Endrin	24.5	U	<5.56	U	<5.56	U	<4.72	U	<24.5	U	<4.72	U	<6.02	U
62500	Ethyl Methanesulfonate	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
56382	Ethyl Parathion	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
206440	Fluoranthene	<2.45	U	<2.78	U	<2.78	U	<2.36	U	<2.45	U	<2.36	U	<3.01	U
86737	Fluorene	<2.45	U	<2.78	U	<2.78	U	<2.36	U	<2.45	U	<2.36	U	<3.01	U
58899	gamma-BHC (Lindane)	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
76448	Heptachlor	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
1024573	Heptachlor Epoxide	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
118741	Hexachlorobenzene	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
87683	Hexachlorobutadiene	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
77474	Hexachlorocyclopentadiene	<4.9	U	<11.1	U	<11.1	U	<9.43	U	<4.9	U	<9.43	U	<6.02	U
67721	Hexachloroethane	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
1888717	Hexachloropropene	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
193395	Indeno-1,2,3-cd-pyrene	<2.45	U	<2.78	U	<2.78	U	<2.36	U	<2.45	U	<2.36	U	<3.01	U
465736	Isodrin	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
78591	Isophorone	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
120581	Isosafrole	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
72435	Methoxychlor	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
66273	Methyl Methanesulfonate	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
91203	Naphthalene	<2.45	U	<2.78	U	<2.78	U	<2.36	U	8.93	U	72.6	U	<3.01	U
98953	Nitrobenzene	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
924163	N-Nitrosodibutylamine	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
55185	N-Nitrosodiethylamine	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
62759	N-Nitrosodimethylamine	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
621647	N-Nitrosodipropylamine	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
10595956	N-Nitrosomethylethylamine	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
59892	N-Nitrosomorpholine	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
100754	N-Nitrosopiperidine	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
126681	O,O,O-Triethyl Phosphorothioat	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
95534	O-Toluidine	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
608935	Pentachlorobenzene	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
76017	Pentachloroethane	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
82688	Pentachloronitrobenzene	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
87865	Pentachlorophenol	<4.9	U	<11.1	U	<11.1	U	<9.43	U	<9.8	U	<9.43	U	<12	U
85018	Phenanthrene	<2.45	U	<2.78	U	<2.78	U	<2.36	U	<2.45	U	<2.36	U	<3.01	U
108952	Phenol	757	U	<11.1	U	<11.1	U	<9.43	U	<9.8	U	<9.43	U	<12	U
298022	Phorate	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
23950585	Pronamide	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
129000	Pyrene	<2.45	U	<2.78	U	<2.78	U	<2.36	U	<2.45	U	<2.36	U	<3.01	U
110861	Pyridine	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
94597	Safrole	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
3689245	Tetraethyl Dithiopyrophosphate (Sulfotep)	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U
297972	Thionazine	<4.9	U	<5.56	U	<5.56	U	<4.72	U	<4.9	U	<4.72	U	<6.02	U

PADEP Frac and Flowback Water Analytical Data - SVOAs

SVOA		10		9		8		7		6		5		4	
Count															
Lab. Sample ID		O2009005471		O2008008700		O2008008483		O2008008410		O2008007839		O2008007838		O2008007840	
Collector No.		9516		9516 001		9516 003		9516 002		9516 005		9516002		9516 008	
County		Fayette		Clearfield		Clearfield		Clearfield		Susquehanna		Susquehanna		Centre	
Type of Sample		Frac Flow Back												Frac Water	
Permit #		051-24206		033-26585		033-26585		033-26585		115-20036		033-26585		027-21478	
Site Name		Lee #11		Bonsall 7		Bonsall 7		Bonsall 7		Costello # 1		Teel 7		Litke 7H (H#1)	
Date		7/22/2009		11/5/2008		10/27/2008		10/23/08		10/9/2008		10/9/2008		10/9/2008	
Collector		Tersine		Tersine		Tersine		Tersine		Tersine		Tersine		Tersine	
Test/CAS#	Description	Reported (UG/L)	Results	Reported (UG/L)	Results	Reported (UG/L)	Results	Reported (UG/L)	Results	Reported (UG/L)	Results	Reported (UG/L)	Results	Reported (UG/L)	Results
218019	Chrysene	<2.38	U	<2.50	U	<2.40	U	<2.36	U	<2.31	U	<23.4	U	<2.34	U
319868	Delta-Bhc	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
2303164	Diallate (Cis or Trans)	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
53703	Dibenzo(A,H)Anthracene	<2.38	U	<2.50	U	<2.40	U	<2.36	U	<2.31	U	<23.4	U	<2.34	U
132649	Dibenzofuran	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
60571	Dieldrin	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
84662	Diethylphthalate	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
60515	Dimethoate	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
60117	Dimethylaminoazobenzene	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
131113	Dimethylphthalate	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
84742	Di-N-Butylphthalate	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
117840	Di-N-Octylphthalate	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
88857	Dinoseb	<9.52	U	<10.0	U	<9.62	U	<9.43	U	<9.26	U	<93.4	U	<9.34	U
122394	Diphenylamine	<9.52	U	<10.0	U	<9.62	U	<9.43	U	<9.26	U	<93.4	U	<9.34	U
298044	Disulfoton	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
959988	Endosulfan I	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
33213659	Endosulfan II	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
72208	Endrin	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
62500	Ethyl Methanesulfonate	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
56382	Ethyl Parathion	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
206440	Fluoranthene	<4.76	U	<2.50	U	<2.40	U	<2.36	U	<2.31	U	<23.4	U	<4.67	U
86737	Fluorene	<2.38	U	<2.50	U	<2.40	U	<2.36	U	<2.31	U	<23.4	U	<2.34	U
58899	gamma-BHC (Lindane)	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
76448	Heptachlor	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
1024573	Heptachlor Epoxide	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
118741	Hexachlorobenzene	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
87683	Hexachlorobutadiene	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
77474	Hexachlorocyclopentadiene	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<23.1	U	<23.4	U	<23.4	U
67721	Hexachloroethane	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
1888717	Hexachloropropene	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
193395	Indeno-1,2,3-cd-pyrene	<2.38	U	<2.50	U	<2.40	U	<2.36	U	<2.31	U	<23.4	U	<2.34	U
465736	Isodrin	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
78591	Isophorone	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
120581	Isosafrole	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
72435	Methoxychlor	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
66273	Methyl Methanesulfonate	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
91203	Naphthalene	29.3	U	<2.50	U	<2.40	U	11.1	U	<2.31	U	<23.4	U	<2.34	U
98953	Nitrobenzene	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
924163	N-Nitrosodibutylamine	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
55185	N-Nitrosodiethylamine	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
62759	N-Nitrosodimethylamine	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
621647	N-Nitrosodipropylamine	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
10595956	N-Nitrosomethylethylamine	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
59892	N-Nitrosomorpholine	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
100754	N-Nitrosopiperidine	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
126681	O,O,O-Triethyl Phosphorothioat	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
95534	O-Toluidine	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
608935	Pentachlorobenzene	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
76017	Pentachloroethane	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
82688	Pentachloronitrobenzene	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
87865	Pentachlorophenol	<9.52	U	<10.0	U	<9.62	U	<9.43	U	<9.26	U	<46.7	U	<9.34	U
85018	Phenanthrene	<2.38	U	<2.50	U	<2.40	U	<2.36	U	<2.31	U	<46.7	U	<2.34	U
108952	Phenol	<9.52	U	<10.0	U	<9.62	U	<9.43	U	<9.26	U	<93.4	U	<9.34	U
298022	Phorate	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
23950585	Pronamide	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
129000	Pyrene	<2.38	U	<2.50	U	<2.40	U	<2.36	U	<2.31	U	<23.4	U	<2.34	U
110861	Pyridine	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
94597	Safrole	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
3689245	Tetraethyl Dithiopyrophosphate (Sulfotep)	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U
297972	Thionazine	<4.76	U	<5.00	U	<4.81	U	<4.72	U	<4.63	U	<46.7	U	<4.67	U

PADEP Frac and Flowback Water Analytical Data - SVOAs

SVOA		3		2		1	
Count							
Lab. Sample ID		O2008007839		O2008007661		O2008007662	
Collector No.		9516 005		9516003		9516004	
County		Centre		Centre		Centre	
Type of Sample		Frac Water		Frac Water		Frac Water	
Permit #		027-21479		027-21478		027-21479	
Site Name		Litke 8H (H#2)		Litke 7H (H#1)		Litke 8H (H#2)	
Date		10/9/2008		10/2/2008		10/2/2008	
Collector		Tersine		Tersine		Tersine	
Test/CAS#	Description	Reported (UG/L)	Results	Reported (UG/L)	Results	Reported (UG/L)	Results
218019	Chrysene	<2.31	U	<2.5	U	<23.5	U
319868	Delta-Bhc	<4.63	U	<5.0	U	<46.9	U
2303164	Diallate (Cis or Trans)	<4.63	U	<5.0	U	<46.9	U
53703	Dibenzo(A,H)Anthracene	<2.31	U	<2.5	U	<23.5	U
132649	Dibenzofuran	<4.63	U	<5.0	U	<46.9	U
60571	Dieldrin	<4.63	U	<5.0	U	<46.9	U
84662	Diethylphthalate	<4.63	U	<5.0	U	<46.9	U
60515	Dimethoate	<4.63	U	<5.0	U	<46.9	U
60117	Dimethylaminoazobenzene	<4.63	U	<5.0	U	<46.9	U
131113	Dimethylphthalate	<4.63	U	<5.0	U	<46.9	U
84742	Di-N-Butylphthalate	<4.63	U	<5.0	U	<46.9	U
117840	Di-N-Octylphthalate	<4.63	U	<5.0	U	<46.9	U
88857	Dinoseb	<9.26	U	<10	U	<93.9	U
122394	Diphenylamine	<9.26	U	<10.0	U	<93.9	U
298044	Disulfoton	<4.63	U	<5.0	U	<46.9	U
959988	Endosulfan I	<4.63	U	<5.0	U	<46.9	U
33213659	Endosulfan II	<4.63	U	<5.0	U	<46.9	U
72208	Endrin	<4.63	U	<5.0	U	<46.9	U
62500	Ethyl Methanesulfonate	<4.63	U	<5.0	U	<46.9	U
56382	Ethyl Parathion	<4.63	U	<5.0	U	<46.9	U
206440	Fluoranthene	<2.31	U	<2.5	U	<23.5	U
86737	Fluorene	<3.94	U	<2.5	U	<23.5	U
58899	gamma-BHC (Lindane)	<4.63	U	<5.0	U	<46.9	U
76448	Heptachlor	<4.63	U	<5.0	U	<46.9	U
1024573	Heptachlor Epoxide	<4.63	U	<5.0	U	<46.9	U
118741	Hexachlorobenzene	<4.63	U	<5.0	U	<46.9	U
87683	Hexachlorobutadiene	<4.63	U	<5.0	U	<46.9	U
77474	Hexachlorocyclopentadiene	<23.1	U	<5.0	U	<46.9	U
67721	Hexachloroethane	<4.63	U	<5.0	U	<46.9	U
1888717	Hexachloropropene	<4.63	U	<5.0	U	<46.9	U
193395	Indeno-1,2,3-cd-pyrene	<2.31	U	<2.5	U	<23.5	U
465736	Isodrin	<4.63	U	<5.0	U	<46.9	U
78591	Isophorone	<4.63	U	<5.0	U	<46.9	U
120581	Isosafrole	<4.63	U	<5.0	U	<46.9	U
72435	Methoxychlor	<4.63	U	<5.0	U	<46.9	U
66273	Methyl Methanesulfonate	<4.63	U	<5.0	U	<46.9	U
91203	Naphthalene	<2.31	U	<2.5	U	<23.5	U
98953	Nitrobenzene	<4.63	U	<5.0	U	<46.9	U
924163	N-Nitrosodibutylamine	<4.63	U	<5.0	U	<46.9	U
55185	N-Nitrosodiethylamine	<4.63	U	<5.0	U	<46.9	U
62759	N-Nitrosodimethylamine	<4.63	U	<5.0	U	<46.9	U
621647	N-Nitrosodipropylamine	<4.63	U	<5.0	U	<46.9	U
10595956	N-Nitrosomethylethylamine	<4.63	U	<5.0	U	<46.9	U
59892	N-Nitrosomorpholine	<4.63	U	<5.0	U	<46.9	U
100754	N-Nitrosopiperidine	<4.63	U	<5.0	U	<46.9	U
126681	O,O,O-Triethyl Phosphorothioat	<4.63	U	<5.0	U	<46.9	U
95534	O-Toluidine	<4.63	U	<5.0	U	<46.9	U
608935	Pentachlorobenzene	<4.63	U	<5.0	U	<46.9	U
76017	Pentachloroethane	<4.63	U	<5.0	U	<46.9	U
82688	Pentachloronitrobenzene	<4.63	U	<5.0	U	<46.9	U
87865	Pentachlorophenol	<9.26	U	<10.0	U	<93.9	U
85018	Phenanthrene	5.98	U	<2.5	U	<23.5	U
108952	Phenol	<9.26	U	<10.0	U	<93.9	U
298022	Phorate	<4.63	U	<5.0	U	<46.9	U
23950585	Pronamide	<4.63	U	<5.0	U	<46.9	U
129000	Pyrene	<2.31	U	<2.5	U	<23.5	U
110861	Pyridine	<4.63	U	<5.0	U	<46.9	U
94597	Safrole	<4.63	U	<5.0	U	<46.9	U
3689245	Tetraethyl Dithiopyrophosphate (Sulfotep)	<4.63	U	<5.0	U	<46.9	U
297972	Thionazine	<4.63	U	<5.0	U	<46.9	U

Marcellus Shale Committee
2008/2009 Testing Results

Frack Fluid	Frack Flow Back
ND	ND
ND	ND
ND	ND
ND - 0.0059	ND - 0.0032
ND	ND
ND	ND
ND	ND
ND	ND
ND	ND
ND	ND
ND	ND - 0.011
ND	ND
ND	ND
ND	ND
ND	ND
ND	ND
ND	ND
ND	ND
ND	ND
ND - 0.0055	ND - 0.0056
ND	ND - 0.0078
ND	ND
ND	ND
ND	ND
ND	ND
ND	ND
ND	ND
ND	ND
ND	ND
ND	ND
ND	ND
ND - 0.069	ND - 1.4
ND	ND
ND	ND
ND	ND
ND	ND
ND	ND
ND	ND
ND	ND
ND	ND
ND	ND
ND - 0.024	ND - 0.019
ND	ND - 0.013
ND	ND
ND	ND
ND	ND
ND	ND - 0.0021
0.035 - 0.31	0.014 - 0.64
ND	ND
ND	ND
ND	ND