Pace Analytical Services, Inc.
1233 Dublin Road
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7726 Moller Road
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(317)875-5894

July 29, 2013

Ms. Angye Dragotta
Environmental Quality Mgmt, IN
1800 Carillon Blvd.
Cincinnati, OH 45240

RE: Project: Jacobsville RA
Pace Project No.: 5084026

Dear Ms. Dragotta:
Enclosed are the analytical results for sample(s) received by the laboratory on July 24, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mick Mayse

mick.mayse@pacelabs.com
Project Manager

Enclosures

cc: Accounts Payable, Environmental Quality Mgmt, INC

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Jacobsville RA
Pace Project No.: 5084026

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana/NELAC Certification #: 04076
Ohio VAP Certification #: 101170-0
Pennsylvania Certification #: 68-04991
West Virginia Certification #: 330

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SAMPLE SUMMARY

Project: Jacobsville RA
Pace Project No.: 5084026

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5084026001	**JRA-STAUB1-072313**	Solid	07/23/13 08:50	07/24/13 10:54
5084026002	**JRA-STAUB2-072313**	Solid	07/23/13 09:00	07/24/13 10:54
5084026003	**JRA-STAUB3-072313**	Solid	07/23/13 09:15	07/24/13 10:54
5084026004	**JRA-STAUB4-072313**	Solid	07/23/13 09:28	07/24/13 10:54
5084026005	**Trip Blank**	Solid	07/23/13 08:00	07/24/13 10:54

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SAMPLE ANALYTE COUNT

Project: Jacobsville RA
Pace Project No.: 5084026

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
5084026001	**JRA-STAUB1-072313**	EPA 8081	DMH	24	PASI-G
		EPA 8082	DMT	8	PASI-I
		EPA 6010	FRW	7	PASI-I
		EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		EPA 8270	KES	50	PASI-I
		EPA 8260	ALA	73	PASI-I
		ASTM D2974-87	SLB	1	PASI-I
		EPA 9045	ZM	1	PASI-I
5084026002	**JRA-STAUB2-072313**	EPA 8081	DMH	24	PASI-G
		EPA 8082	DMT	8	PASI-I
		EPA 6010	FRW	7	PASI-I
		EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		EPA 8270	KES	50	PASI-I
		EPA 8260	ALA	73	PASI-I
		ASTM D2974-87	SLB	1	PASI-I
		EPA 9045	ZM	1	PASI-I
5084026003	**JRA-STAUB3-072313**	EPA 8081	DMH	24	PASI-G
		EPA 8082	DMT	8	PASI-I
		EPA 6010	FRW	7	PASI-I
		EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		EPA 8270	KES	50	PASI-I
		EPA 8260	ALA	73	PASI-I
		ASTM D2974-87	SLB	1	PASI-I
		EPA 9045	ZM	1	PASI-I
5084026004	**JRA-STAUB4-072313**	EPA 8081	DMH	24	PASI-G
		EPA 8082	DMT	8	PASI-I
		EPA 6010	FRW	7	PASI-I
		EPA 7471	LLB	1	PASI-I
		EPA 8270 by SIM	CEM	20	PASI-I
		EPA 8270	KES	50	PASI-I
		EPA 8260	ALA	73	PASI-I
		ASTM D2974-87	SLB	1	PASI-I
		EPA 9045	ZM	1	PASI-I
5084026005	**Trip Blank**	EPA 8260	ALA	73	PASI-I

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ANALYTICAL RESULTS

Project: Jacobsville RA
Pace Project No.: 5084026

Sample: JRA-STAUB1-072313 **Lab ID: 5084026001** Collected: 07/23/13 08:50 Received: 07/24/13 10:54 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3550								
Aldrin	**<0.0021**	mg/kg	0.0021	0.00045	1	07/25/13 12:00	07/26/13 18:23	309-00-2	
alpha-BHC	**<0.0021**	mg/kg	0.0021	0.00044	1	07/25/13 12:00	07/26/13 18:23	319-84-6	
beta-BHC	**<0.0021**	mg/kg	0.0021	0.00075	1	07/25/13 12:00	07/26/13 18:23	319-85-7	
delta-BHC	**<0.0021**	mg/kg	0.0021	0.00068	1	07/25/13 12:00	07/26/13 18:23	319-86-8	
gamma-BHC (Lindane)	**<0.0021**	mg/kg	0.0021	0.00041	1	07/25/13 12:00	07/26/13 18:23	58-89-9	
Chlordane (Technical)	**0.013J**	mg/kg	0.043	0.0051	1	07/25/13 12:00	07/26/13 18:23	57-74-9	C2
alpha-Chlordane	**0.0012J**	mg/kg	0.0021	0.00034	1	07/25/13 12:00	07/26/13 18:23	5103-71-9	C2
gamma-Chlordane	**0.00065J**	mg/kg	0.0021	0.00044	1	07/25/13 12:00	07/26/13 18:23	5103-74-2	C2
4,4'-DDD	**<0.0043**	mg/kg	0.0043	0.00067	1	07/25/13 12:00	07/26/13 18:23	72-54-8	
4,4'-DDE	**0.0019J**	mg/kg	0.0043	0.00090	1	07/25/13 12:00	07/26/13 18:23	72-55-9	C2
4,4'-DDT	**0.0076**	mg/kg	0.0043	0.00095	1	07/25/13 12:00	07/26/13 18:23	50-29-3	
Dieldrin	**<0.0043**	mg/kg	0.0043	0.0010	1	07/25/13 12:00	07/26/13 18:23	60-57-1	
Endosulfan I	**<0.0021**	mg/kg	0.0021	0.00055	1	07/25/13 12:00	07/26/13 18:23	959-98-8	
Endosulfan II	**<0.0043**	mg/kg	0.0043	0.0018	1	07/25/13 12:00	07/26/13 18:23	33213-65-9	
Endosulfan sulfate	**<0.0043**	mg/kg	0.0043	0.00092	1	07/25/13 12:00	07/26/13 18:23	1031-07-8	
Endrin	**<0.0043**	mg/kg	0.0043	0.00072	1	07/25/13 12:00	07/26/13 18:23	72-20-8	
Endrin aldehyde	**0.0015J**	mg/kg	0.0043	0.00099	1	07/25/13 12:00	07/26/13 18:23	7421-93-4	
Endrin ketone	**<0.0043**	mg/kg	0.0043	0.00079	1	07/25/13 12:00	07/26/13 18:23	53494-70-5	
Heptachlor	**<0.0021**	mg/kg	0.0021	0.00036	1	07/25/13 12:00	07/26/13 18:23	76-44-8	
Heptachlor epoxide	**<0.0021**	mg/kg	0.0021	0.00037	1	07/25/13 12:00	07/26/13 18:23	1024-57-3	
Methoxychlor	**<0.021**	mg/kg	0.021	0.0034	1	07/25/13 12:00	07/26/13 18:23	72-43-5	
Toxaphene	**<0.13**	mg/kg	0.13	0.064	1	07/25/13 12:00	07/26/13 18:23	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	45	%	37-130		1	07/25/13 12:00	07/26/13 18:23	877-09-8	
Decachlorobiphenyl (S)	49	%	40-130		1	07/25/13 12:00	07/26/13 18:23	2051-24-3	
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	**<0.13**	mg/kg	0.13	0.063	1	07/25/13 10:25	07/26/13 16:13	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.13**	mg/kg	0.13	0.063	1	07/25/13 10:25	07/26/13 16:13	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.13**	mg/kg	0.13	0.063	1	07/25/13 10:25	07/26/13 16:13	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.13**	mg/kg	0.13	0.063	1	07/25/13 10:25	07/26/13 16:13	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.13**	mg/kg	0.13	0.063	1	07/25/13 10:25	07/26/13 16:13	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.13**	mg/kg	0.13	0.063	1	07/25/13 10:25	07/26/13 16:13	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.13**	mg/kg	0.13	0.063	1	07/25/13 10:25	07/26/13 16:13	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	75	%.	30-106		1	07/25/13 10:25	07/26/13 16:13	877-09-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**10.4**	mg/kg	2.4	1.2	1	07/25/13 08:29	07/25/13 12:00	7440-38-2	
Barium	**137**	mg/kg	2.4	1.2	1	07/25/13 08:29	07/25/13 12:00	7440-39-3	
Cadmium	**1.3J**	mg/kg	2.4	1.2	1	07/25/13 08:29	07/25/13 12:00	7440-43-9	
Chromium	**33.1**	mg/kg	2.4	1.2	1	07/25/13 08:29	07/25/13 12:00	7440-47-3	
Lead	**40.0**	mg/kg	2.4	1.2	1	07/25/13 08:29	07/25/13 12:00	7439-92-1	
Selenium	**<2.4**	mg/kg	2.4	1.2	1	07/25/13 08:29	07/25/13 12:00	7782-49-2	
Silver	**<2.4**	mg/kg	2.4	1.2	1	07/25/13 08:29	07/25/13 12:00	7440-22-4	

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ANALYTICAL RESULTS

Project: Jacobsville RA
Pace Project No.: 5084026

Sample: JRA-STAUB1-072313 **Lab ID: 5084026001** Collected: 07/23/13 08:50 Received: 07/24/13 10:54 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**<0.26**	mg/kg	0.26	0.22	1	07/29/13 09:20	07/29/13 12:09	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**0.022J**	mg/kg	0.032	0.016	5	07/24/13 15:01	07/25/13 10:33	83-32-9	
Acenaphthylene	**0.043**	mg/kg	0.032	0.016	5	07/24/13 15:01	07/25/13 10:33	208-96-8	
Anthracene	**0.066**	mg/kg	0.032	0.016	5	07/24/13 15:01	07/25/13 10:33	120-12-7	
Benzo(a)anthracene	**0.22**	mg/kg	0.032	0.016	5	07/24/13 15:01	07/25/13 10:33	56-55-3	
Benzo(a)pyrene	**0.23**	mg/kg	0.032	0.016	5	07/24/13 15:01	07/25/13 10:33	50-32-8	
Benzo(b)fluoranthene	**0.24**	mg/kg	0.032	0.016	5	07/24/13 15:01	07/25/13 10:33	205-99-2	
Benzo(g,h,i)perylene	**0.17**	mg/kg	0.032	0.016	5	07/24/13 15:01	07/25/13 10:33	191-24-2	
Benzo(k)fluoranthene	**0.19**	mg/kg	0.032	0.016	5	07/24/13 15:01	07/25/13 10:33	207-08-9	
Chrysene	**0.27**	mg/kg	0.032	0.016	5	07/24/13 15:01	07/25/13 10:33	218-01-9	
Dibenz(a,h)anthracene	**<0.032**	mg/kg	0.032	0.016	5	07/24/13 15:01	07/25/13 10:33	53-70-3	
Fluoranthene	**0.39**	mg/kg	0.032	0.016	5	07/24/13 15:01	07/25/13 10:33	206-44-0	
Fluorene	**<0.032**	mg/kg	0.032	0.016	5	07/24/13 15:01	07/25/13 10:33	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.14**	mg/kg	0.032	0.016	5	07/24/13 15:01	07/25/13 10:33	193-39-5	
1-Methylnaphthalene	**0.37**	mg/kg	0.032	0.016	5	07/24/13 15:01	07/25/13 10:33	90-12-0	N2
2-Methylnaphthalene	**0.42**	mg/kg	0.032	0.016	5	07/24/13 15:01	07/25/13 10:33	91-57-6	
Naphthalene	**0.31**	mg/kg	0.032	0.016	5	07/24/13 15:01	07/25/13 10:33	91-20-3	2d
Phenanthrene	**0.43**	mg/kg	0.032	0.016	5	07/24/13 15:01	07/25/13 10:33	85-01-8	
Pyrene	**0.32**	mg/kg	0.032	0.016	5	07/24/13 15:01	07/25/13 10:33	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	76	%.	38-110		5	07/24/13 15:01	07/25/13 10:33	321-60-8	
p-Terphenyl-d14 (S)	79	%.	32-111		5	07/24/13 15:01	07/25/13 10:33	1718-51-0	
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Benzyl alcohol	**<0.84**	mg/kg	0.84	0.42	1	07/25/13 11:30	07/26/13 16:18	100-51-6	
4-Bromophenylphenyl ether	**<0.42**	mg/kg	0.42	0.21	1	07/25/13 11:30	07/26/13 16:18	101-55-3	
Butylbenzylphthalate	**<0.42**	mg/kg	0.42	0.21	1	07/25/13 11:30	07/26/13 16:18	85-68-7	
4-Chloro-3-methylphenol	**<0.84**	mg/kg	0.84	0.42	1	07/25/13 11:30	07/26/13 16:18	59-50-7	
4-Chloroaniline	**<0.84**	mg/kg	0.84	0.42	1	07/25/13 11:30	07/26/13 16:18	106-47-8	
bis(2-Chloroethoxy)methane	**<0.42**	mg/kg	0.42	0.21	1	07/25/13 11:30	07/26/13 16:18	111-91-1	
bis(2-Chloroethyl) ether	**<0.42**	mg/kg	0.42	0.21	1	07/25/13 11:30	07/26/13 16:18	111-44-4	
bis(2-Chloroisopropyl) ether	**<0.42**	mg/kg	0.42	0.21	1	07/25/13 11:30	07/26/13 16:18	108-60-1	
bis(2chloro1methylethyl) ether	**<0.42**	mg/kg	0.42	0.21	1	07/25/13 11:30	07/26/13 16:18	108-60-1	
2-Chloronaphthalene	**<0.42**	mg/kg	0.42	0.21	1	07/25/13 11:30	07/26/13 16:18	91-58-7	
2-Chlorophenol	**<0.42**	mg/kg	0.42	0.21	1	07/25/13 11:30	07/26/13 16:18	95-57-8	
4-Chlorophenylphenyl ether	**<0.42**	mg/kg	0.42	0.21	1	07/25/13 11:30	07/26/13 16:18	7005-72-3	
Dibenzofuran	**<0.42**	mg/kg	0.42	0.21	1	07/25/13 11:30	07/26/13 16:18	132-64-9	
3,3'-Dichlorobenzidine	**<0.84**	mg/kg	0.84	0.42	1	07/25/13 11:30	07/26/13 16:18	91-94-1	
2,4-Dichlorophenol	**<0.42**	mg/kg	0.42	0.21	1	07/25/13 11:30	07/26/13 16:18	120-83-2	
Diethylphthalate	**<0.42**	mg/kg	0.42	0.21	1	07/25/13 11:30	07/26/13 16:18	84-66-2	
2,4-Dimethylphenol	**<0.42**	mg/kg	0.42	0.21	1	07/25/13 11:30	07/26/13 16:18	105-67-9	
Dimethylphthalate	**<0.42**	mg/kg	0.42	0.21	1	07/25/13 11:30	07/26/13 16:18	131-11-3	

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ANALYTICAL RESULTS

Project: Jacobsville RA
Pace Project No.: 5084026

Sample: JRA-STAUB1-072313 **Lab ID: 5084026001** Collected: 07/23/13 08:50 Received: 07/24/13 10:54 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Di-n-butylphthalate	**<0.42**	mg/kg	0.42	0.21	1	07/25/13 11:30	07/26/13 16:18	84-74-2	
4,6-Dinitro-2-methylphenol	**<2.0**	mg/kg	2.0	1.0	1	07/25/13 11:30	07/26/13 16:18	534-52-1	
2,4-Dinitrophenol	**<2.0**	mg/kg	2.0	2.0	1	07/25/13 11:30	07/26/13 16:18	51-28-5	
2,4-Dinitrotoluene	**<0.42**	mg/kg	0.42	0.21	1	07/25/13 11:30	07/26/13 16:18	121-14-2	
2,6-Dinitrotoluene	**<0.42**	mg/kg	0.42	0.21	1	07/25/13 11:30	07/26/13 16:18	606-20-2	
Di-n-octylphthalate	**<0.42**	mg/kg	0.42	0.21	1	07/25/13 11:30	07/26/13 16:18	117-84-0	
bis(2-Ethylhexyl)phthalate	**<0.42**	mg/kg	0.42	0.21	1	07/25/13 11:30	07/26/13 16:18	117-81-7	
Hexachloro-1,3-butadiene	**<0.42**	mg/kg	0.42	0.21	1	07/25/13 11:30	07/26/13 16:18	87-68-3	
Hexachlorobenzene	**<0.42**	mg/kg	0.42	0.21	1	07/25/13 11:30	07/26/13 16:18	118-74-1	
Hexachlorocyclopentadiene	**<0.42**	mg/kg	0.42	0.21	1	07/25/13 11:30	07/26/13 16:18	77-47-4	
Hexachloroethane	**<0.42**	mg/kg	0.42	0.21	1	07/25/13 11:30	07/26/13 16:18	67-72-1	
Isophorone	**<0.42**	mg/kg	0.42	0.21	1	07/25/13 11:30	07/26/13 16:18	78-59-1	
2-Methylphenol(o-Cresol)	**<0.42**	mg/kg	0.42	0.21	1	07/25/13 11:30	07/26/13 16:18	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<0.84**	mg/kg	0.84	0.42	1	07/25/13 11:30	07/26/13 16:18		
2-Nitroaniline	**<2.0**	mg/kg	2.0	1.0	1	07/25/13 11:30	07/26/13 16:18	88-74-4	
3-Nitroaniline	**<2.0**	mg/kg	2.0	1.0	1	07/25/13 11:30	07/26/13 16:18	99-09-2	
4-Nitroaniline	**<2.0**	mg/kg	2.0	1.0	1	07/25/13 11:30	07/26/13 16:18	100-01-6	
Nitrobenzene	**<0.42**	mg/kg	0.42	0.21	1	07/25/13 11:30	07/26/13 16:18	98-95-3	
2-Nitrophenol	**<0.42**	mg/kg	0.42	0.21	1	07/25/13 11:30	07/26/13 16:18	88-75-5	
4-Nitrophenol	**<2.0**	mg/kg	2.0	1.0	1	07/25/13 11:30	07/26/13 16:18	100-02-7	
N-Nitroso-di-n-propylamine	**<0.42**	mg/kg	0.42	0.21	1	07/25/13 11:30	07/26/13 16:18	621-64-7	
N-Nitrosodiphenylamine	**<0.42**	mg/kg	0.42	0.21	1	07/25/13 11:30	07/26/13 16:18	86-30-6	
Pentachlorophenol	**<2.0**	mg/kg	2.0	1.0	1	07/25/13 11:30	07/26/13 16:18	87-86-5	
Phenol	**<0.42**	mg/kg	0.42	0.21	1	07/25/13 11:30	07/26/13 16:18	108-95-2	
2,4,5-Trichlorophenol	**<0.42**	mg/kg	0.42	0.21	1	07/25/13 11:30	07/26/13 16:18	95-95-4	
2,4,6-Trichlorophenol	**<0.42**	mg/kg	0.42	0.21	1	07/25/13 11:30	07/26/13 16:18	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	62	%.	28-101		1	07/25/13 11:30	07/26/13 16:18	4165-60-0	
2-Fluorobiphenyl (S)	66	%.	31-94		1	07/25/13 11:30	07/26/13 16:18	321-60-8	
p-Terphenyl-d14 (S)	73	%.	26-110		1	07/25/13 11:30	07/26/13 16:18	1718-51-0	
Phenol-d5 (S)	56	%.	28-101		1	07/25/13 11:30	07/26/13 16:18	4165-62-2	
2-Fluorophenol (S)	61	%.	24-104		1	07/25/13 11:30	07/26/13 16:18	367-12-4	
2,4,6-Tribromophenol (S)	68	%.	16-122		1	07/25/13 11:30	07/26/13 16:18	118-79-6	
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	**<0.099**	mg/kg	0.099	0.049	1		07/27/13 07:39	67-64-1	
Acrolein	**<0.099**	mg/kg	0.099	0.049	1		07/27/13 07:39	107-02-8	
Acrylonitrile	**<0.099**	mg/kg	0.099	0.049	1		07/27/13 07:39	107-13-1	
Benzene	**<0.0049**	mg/kg	0.0049	0.00099	1		07/27/13 07:39	71-43-2	
Bromobenzene	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	108-86-1	
Bromochloromethane	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	74-97-5	
Bromodichloromethane	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	75-27-4	
Bromoform	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	75-25-2	
Bromomethane	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	74-83-9	

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ANALYTICAL RESULTS

Project: Jacobsville RA
Pace Project No.: 5084026

Sample: JRA-STAUB1-072313 **Lab ID: 5084026001** Collected: 07/23/13 08:50 Received: 07/24/13 10:54 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
2-Butanone (MEK)	**<0.025**	mg/kg	0.025	0.012	1		07/27/13 07:39	78-93-3	
n-Butylbenzene	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	104-51-8	
sec-Butylbenzene	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	135-98-8	
tert-Butylbenzene	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	98-06-6	
Carbon disulfide	**<0.0099**	mg/kg	0.0099	0.0025	1		07/27/13 07:39	75-15-0	
Carbon tetrachloride	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	56-23-5	
Chlorobenzene	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	108-90-7	
Chloroethane	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	75-00-3	
Chloroform	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	67-66-3	
Chloromethane	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	74-87-3	
2-Chlorotoluene	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	95-49-8	
4-Chlorotoluene	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	106-43-4	
Dibromochloromethane	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	124-48-1	
1,2-Dibromoethane (EDB)	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	106-93-4	
Dibromomethane	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	74-95-3	
1,2-Dichlorobenzene	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	95-50-1	
1,3-Dichlorobenzene	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	541-73-1	
1,4-Dichlorobenzene	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	106-46-7	
trans-1,4-Dichloro-2-butene	**<0.099**	mg/kg	0.099	0.049	1		07/27/13 07:39	110-57-6	
Dichlorodifluoromethane	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	75-71-8	
1,1-Dichloroethane	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	75-34-3	
1,2-Dichloroethane	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	107-06-2	
1,1-Dichloroethene	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	75-35-4	
cis-1,2-Dichloroethene	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	156-59-2	
trans-1,2-Dichloroethene	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	156-60-5	
1,2-Dichloropropane	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	78-87-5	
1,3-Dichloropropane	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	142-28-9	
2,2-Dichloropropane	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	594-20-7	
1,1-Dichloropropene	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	563-58-6	
cis-1,3-Dichloropropene	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	10061-01-5	
trans-1,3-Dichloropropene	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	10061-02-6	
Ethylbenzene	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	100-41-4	
Ethyl methacrylate	**<0.099**	mg/kg	0.099	0.049	1		07/27/13 07:39	97-63-2	
Hexachloro-1,3-butadiene	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	87-68-3	
n-Hexane	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	110-54-3	N2
2-Hexanone	**<0.099**	mg/kg	0.099	0.049	1		07/27/13 07:39	591-78-6	
Iodomethane	**<0.099**	mg/kg	0.099	0.049	1		07/27/13 07:39	74-88-4	
Isopropylbenzene (Cumene)	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	98-82-8	
p-Isopropyltoluene	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	99-87-6	
Methylene Chloride	**<0.020**	mg/kg	0.020	0.0099	1		07/27/13 07:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.025**	mg/kg	0.025	0.012	1		07/27/13 07:39	108-10-1	
Methyl-tert-butyl ether	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	1634-04-4	
Naphthalene	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	91-20-3	
n-Propylbenzene	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	103-65-1	
Styrene	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	100-42-5	

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ANALYTICAL RESULTS

Project: Jacobsville RA
Pace Project No.: 5084026

Sample: JRA-STAUB1-072313 **Lab ID: 5084026001** Collected: 07/23/13 08:50 Received: 07/24/13 10:54 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	79-34-5	
Tetrachloroethene	**<0.0049**	mg/kg	0.0049	0.0014	1		07/27/13 07:39	127-18-4	
Toluene	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	108-88-3	
1,2,3-Trichlorobenzene	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	87-61-6	
1,2,4-Trichlorobenzene	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	120-82-1	
1,1,1-Trichloroethane	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	71-55-6	
1,1,2-Trichloroethane	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	79-00-5	
Trichloroethene	**<0.0049**	mg/kg	0.0049	0.00099	1		07/27/13 07:39	79-01-6	
Trichlorofluoromethane	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	75-69-4	
1,2,3-Trichloropropane	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	96-18-4	
1,2,4-Trimethylbenzene	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	95-63-6	
1,3,5-Trimethylbenzene	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	108-67-8	
Vinyl acetate	**<0.099**	mg/kg	0.099	0.049	1		07/27/13 07:39	108-05-4	
Vinyl chloride	**<0.0049**	mg/kg	0.0049	0.0025	1		07/27/13 07:39	75-01-4	
Xylene (Total)	**<0.0099**	mg/kg	0.0099	0.0049	1		07/27/13 07:39	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	104	%.	85-118		1		07/27/13 07:39	1868-53-7	
Toluene-d8 (S)	100	%.	71-128		1		07/27/13 07:39	2037-26-5	
4-Bromofluorobenzene (S)	94	%.	56-144		1		07/27/13 07:39	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**21.6**	%	0.10	0.10	1		07/24/13 17:43		
9045 pH Soil	Analytical Method: EPA 9045								
pH at 25 Degrees C	**7.5**	Std. Units	0.10		1		07/26/13 11:01		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Jacobsville RA
Pace Project No.: 5084026

Sample: JRA-STAUB2-072313 **Lab ID: 5084026002** Collected: 07/23/13 09:00 Received: 07/24/13 10:54 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3550								
Aldrin	**<0.0021**	mg/kg	0.0021	0.00045	1	07/25/13 12:00	07/26/13 18:51	309-00-2	
alpha-BHC	**<0.0021**	mg/kg	0.0021	0.00043	1	07/25/13 12:00	07/26/13 18:51	319-84-6	
beta-BHC	**<0.0021**	mg/kg	0.0021	0.00075	1	07/25/13 12:00	07/26/13 18:51	319-85-7	
delta-BHC	**<0.0021**	mg/kg	0.0021	0.00068	1	07/25/13 12:00	07/26/13 18:51	319-86-8	
gamma-BHC (Lindane)	**<0.0021**	mg/kg	0.0021	0.00041	1	07/25/13 12:00	07/26/13 18:51	58-89-9	
Chlordane (Technical)	**0.016J**	mg/kg	0.042	0.0051	1	07/25/13 12:00	07/26/13 18:51	57-74-9	C2
alpha-Chlordane	**0.0020J**	mg/kg	0.0021	0.00034	1	07/25/13 12:00	07/26/13 18:51	5103-71-9	C2
gamma-Chlordane	**0.0021J**	mg/kg	0.0021	0.00044	1	07/25/13 12:00	07/26/13 18:51	5103-74-2	
4,4'-DDD	**<0.0042**	mg/kg	0.0042	0.00066	1	07/25/13 12:00	07/26/13 18:51	72-54-8	
4,4'-DDE	**0.00090J**	mg/kg	0.0042	0.00090	1	07/25/13 12:00	07/26/13 18:51	72-55-9	C2
4,4'-DDT	**<0.0042**	mg/kg	0.0042	0.00094	1	07/25/13 12:00	07/26/13 18:51	50-29-3	
Dieldrin	**<0.0042**	mg/kg	0.0042	0.0010	1	07/25/13 12:00	07/26/13 18:51	60-57-1	
Endosulfan I	**<0.0021**	mg/kg	0.0021	0.00054	1	07/25/13 12:00	07/26/13 18:51	959-98-8	
Endosulfan II	**<0.0042**	mg/kg	0.0042	0.0018	1	07/25/13 12:00	07/26/13 18:51	33213-65-9	
Endosulfan sulfate	**<0.0042**	mg/kg	0.0042	0.00092	1	07/25/13 12:00	07/26/13 18:51	1031-07-8	
Endrin	**<0.0042**	mg/kg	0.0042	0.00071	1	07/25/13 12:00	07/26/13 18:51	72-20-8	
Endrin aldehyde	**<0.0042**	mg/kg	0.0042	0.00098	1	07/25/13 12:00	07/26/13 18:51	7421-93-4	
Endrin ketone	**<0.0042**	mg/kg	0.0042	0.00078	1	07/25/13 12:00	07/26/13 18:51	53494-70-5	
Heptachlor	**<0.0021**	mg/kg	0.0021	0.00036	1	07/25/13 12:00	07/26/13 18:51	76-44-8	
Heptachlor epoxide	**<0.0021**	mg/kg	0.0021	0.00036	1	07/25/13 12:00	07/26/13 18:51	1024-57-3	
Methoxychlor	**<0.021**	mg/kg	0.021	0.0034	1	07/25/13 12:00	07/26/13 18:51	72-43-5	
Toxaphene	**<0.13**	mg/kg	0.13	0.063	1	07/25/13 12:00	07/26/13 18:51	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	73	%	37-130		1	07/25/13 12:00	07/26/13 18:51	877-09-8	
Decachlorobiphenyl (S)	73	%	40-130		1	07/25/13 12:00	07/26/13 18:51	2051-24-3	
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	**<0.13**	mg/kg	0.13	0.063	1	07/25/13 10:25	07/26/13 16:19	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.13**	mg/kg	0.13	0.063	1	07/25/13 10:25	07/26/13 16:19	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.13**	mg/kg	0.13	0.063	1	07/25/13 10:25	07/26/13 16:19	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.13**	mg/kg	0.13	0.063	1	07/25/13 10:25	07/26/13 16:19	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.13**	mg/kg	0.13	0.063	1	07/25/13 10:25	07/26/13 16:19	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.13**	mg/kg	0.13	0.063	1	07/25/13 10:25	07/26/13 16:19	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.13**	mg/kg	0.13	0.063	1	07/25/13 10:25	07/26/13 16:19	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	77	%.	30-106		1	07/25/13 10:25	07/26/13 16:19	877-09-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**9.3**	mg/kg	2.2	1.1	1	07/25/13 08:29	07/25/13 12:02	7440-38-2	
Barium	**125**	mg/kg	2.2	1.1	1	07/25/13 08:29	07/25/13 12:02	7440-39-3	
Cadmium	**1.1J**	mg/kg	2.2	1.1	1	07/25/13 08:29	07/25/13 12:02	7440-43-9	
Chromium	**32.3**	mg/kg	2.2	1.1	1	07/25/13 08:29	07/25/13 12:02	7440-47-3	
Lead	**38.2**	mg/kg	2.2	1.1	1	07/25/13 08:29	07/25/13 12:02	7439-92-1	
Selenium	**<2.2**	mg/kg	2.2	1.1	1	07/25/13 08:29	07/25/13 12:02	7782-49-2	
Silver	**<2.2**	mg/kg	2.2	1.1	1	07/25/13 08:29	07/25/13 12:02	7440-22-4	

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ANALYTICAL RESULTS

Project: Jacobsville RA
Pace Project No.: 5084026

Sample: JRA-STAUB2-072313 **Lab ID: 5084026002** Collected: 07/23/13 09:00 Received: 07/24/13 10:54 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**<0.26**	mg/kg	0.26	0.22	1	07/29/13 09:20	07/29/13 12:15	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**0.026J**	mg/kg	0.031	0.016	5	07/24/13 15:01	07/25/13 10:51	83-32-9	
Acenaphthylene	**0.039**	mg/kg	0.031	0.016	5	07/24/13 15:01	07/25/13 10:51	208-96-8	
Anthracene	**0.061**	mg/kg	0.031	0.016	5	07/24/13 15:01	07/25/13 10:51	120-12-7	
Benzo(a)anthracene	**0.24**	mg/kg	0.031	0.016	5	07/24/13 15:01	07/25/13 10:51	56-55-3	
Benzo(a)pyrene	**0.25**	mg/kg	0.031	0.016	5	07/24/13 15:01	07/25/13 10:51	50-32-8	
Benzo(b)fluoranthene	**0.25**	mg/kg	0.031	0.016	5	07/24/13 15:01	07/25/13 10:51	205-99-2	
Benzo(g,h,i)perylene	**0.18**	mg/kg	0.031	0.016	5	07/24/13 15:01	07/25/13 10:51	191-24-2	
Benzo(k)fluoranthene	**0.21**	mg/kg	0.031	0.016	5	07/24/13 15:01	07/25/13 10:51	207-08-9	
Chrysene	**0.28**	mg/kg	0.031	0.016	5	07/24/13 15:01	07/25/13 10:51	218-01-9	
Dibenz(a,h)anthracene	**<0.031**	mg/kg	0.031	0.016	5	07/24/13 15:01	07/25/13 10:51	53-70-3	
Fluoranthene	**0.42**	mg/kg	0.031	0.016	5	07/24/13 15:01	07/25/13 10:51	206-44-0	
Fluorene	**0.032**	mg/kg	0.031	0.016	5	07/24/13 15:01	07/25/13 10:51	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.16**	mg/kg	0.031	0.016	5	07/24/13 15:01	07/25/13 10:51	193-39-5	
1-Methylnaphthalene	**0.32**	mg/kg	0.031	0.016	5	07/24/13 15:01	07/25/13 10:51	90-12-0	N2
2-Methylnaphthalene	**0.37**	mg/kg	0.031	0.016	5	07/24/13 15:01	07/25/13 10:51	91-57-6	
Naphthalene	**0.28**	mg/kg	0.031	0.016	5	07/24/13 15:01	07/25/13 10:51	91-20-3	2d
Phenanthrene	**0.39**	mg/kg	0.031	0.016	5	07/24/13 15:01	07/25/13 10:51	85-01-8	
Pyrene	**0.34**	mg/kg	0.031	0.016	5	07/24/13 15:01	07/25/13 10:51	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	75	%.	38-110		5	07/24/13 15:01	07/25/13 10:51	321-60-8	
p-Terphenyl-d14 (S)	80	%.	32-111		5	07/24/13 15:01	07/25/13 10:51	1718-51-0	
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Benzyl alcohol	**<0.82**	mg/kg	0.82	0.41	1	07/25/13 11:30	07/26/13 16:38	100-51-6	
4-Bromophenylphenyl ether	**<0.41**	mg/kg	0.41	0.21	1	07/25/13 11:30	07/26/13 16:38	101-55-3	
Butylbenzylphthalate	**<0.41**	mg/kg	0.41	0.21	1	07/25/13 11:30	07/26/13 16:38	85-68-7	
4-Chloro-3-methylphenol	**<0.82**	mg/kg	0.82	0.41	1	07/25/13 11:30	07/26/13 16:38	59-50-7	
4-Chloroaniline	**<0.82**	mg/kg	0.82	0.41	1	07/25/13 11:30	07/26/13 16:38	106-47-8	
bis(2-Chloroethoxy)methane	**<0.41**	mg/kg	0.41	0.21	1	07/25/13 11:30	07/26/13 16:38	111-91-1	
bis(2-Chloroethyl) ether	**<0.41**	mg/kg	0.41	0.21	1	07/25/13 11:30	07/26/13 16:38	111-44-4	
bis(2-Chloroisopropyl) ether	**<0.41**	mg/kg	0.41	0.21	1	07/25/13 11:30	07/26/13 16:38	108-60-1	
bis(2chloro1methylethyl) ether	**<0.41**	mg/kg	0.41	0.21	1	07/25/13 11:30	07/26/13 16:38	108-60-1	
2-Chloronaphthalene	**<0.41**	mg/kg	0.41	0.21	1	07/25/13 11:30	07/26/13 16:38	91-58-7	
2-Chlorophenol	**<0.41**	mg/kg	0.41	0.21	1	07/25/13 11:30	07/26/13 16:38	95-57-8	
4-Chlorophenylphenyl ether	**<0.41**	mg/kg	0.41	0.21	1	07/25/13 11:30	07/26/13 16:38	7005-72-3	
Dibenzofuran	**<0.41**	mg/kg	0.41	0.21	1	07/25/13 11:30	07/26/13 16:38	132-64-9	
3,3'-Dichlorobenzidine	**<0.82**	mg/kg	0.82	0.41	1	07/25/13 11:30	07/26/13 16:38	91-94-1	
2,4-Dichlorophenol	**<0.41**	mg/kg	0.41	0.21	1	07/25/13 11:30	07/26/13 16:38	120-83-2	
Diethylphthalate	**<0.41**	mg/kg	0.41	0.21	1	07/25/13 11:30	07/26/13 16:38	84-66-2	
2,4-Dimethylphenol	**<0.41**	mg/kg	0.41	0.21	1	07/25/13 11:30	07/26/13 16:38	105-67-9	
Dimethylphthalate	**<0.41**	mg/kg	0.41	0.21	1	07/25/13 11:30	07/26/13 16:38	131-11-3	

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ANALYTICAL RESULTS

Project: Jacobsville RA
Pace Project No.: 5084026

Sample: JRA-STAUB2-072313 **Lab ID: 5084026002** Collected: 07/23/13 09:00 Received: 07/24/13 10:54 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Di-n-butylphthalate	**<0.41**	mg/kg	0.41	0.21	1	07/25/13 11:30	07/26/13 16:38	84-74-2	
4,6-Dinitro-2-methylphenol	**<2.0**	mg/kg	2.0	1.0	1	07/25/13 11:30	07/26/13 16:38	534-52-1	
2,4-Dinitrophenol	**<2.0**	mg/kg	2.0	2.0	1	07/25/13 11:30	07/26/13 16:38	51-28-5	
2,4-Dinitrotoluene	**<0.41**	mg/kg	0.41	0.21	1	07/25/13 11:30	07/26/13 16:38	121-14-2	
2,6-Dinitrotoluene	**<0.41**	mg/kg	0.41	0.21	1	07/25/13 11:30	07/26/13 16:38	606-20-2	
Di-n-octylphthalate	**<0.41**	mg/kg	0.41	0.21	1	07/25/13 11:30	07/26/13 16:38	117-84-0	
bis(2-Ethylhexyl)phthalate	**<0.41**	mg/kg	0.41	0.21	1	07/25/13 11:30	07/26/13 16:38	117-81-7	
Hexachloro-1,3-butadiene	**<0.41**	mg/kg	0.41	0.21	1	07/25/13 11:30	07/26/13 16:38	87-68-3	
Hexachlorobenzene	**<0.41**	mg/kg	0.41	0.21	1	07/25/13 11:30	07/26/13 16:38	118-74-1	
Hexachlorocyclopentadiene	**<0.41**	mg/kg	0.41	0.21	1	07/25/13 11:30	07/26/13 16:38	77-47-4	
Hexachloroethane	**<0.41**	mg/kg	0.41	0.21	1	07/25/13 11:30	07/26/13 16:38	67-72-1	
Isophorone	**<0.41**	mg/kg	0.41	0.21	1	07/25/13 11:30	07/26/13 16:38	78-59-1	
2-Methylphenol(o-Cresol)	**<0.41**	mg/kg	0.41	0.21	1	07/25/13 11:30	07/26/13 16:38	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<0.82**	mg/kg	0.82	0.41	1	07/25/13 11:30	07/26/13 16:38		
2-Nitroaniline	**<2.0**	mg/kg	2.0	1.0	1	07/25/13 11:30	07/26/13 16:38	88-74-4	
3-Nitroaniline	**<2.0**	mg/kg	2.0	1.0	1	07/25/13 11:30	07/26/13 16:38	99-09-2	
4-Nitroaniline	**<2.0**	mg/kg	2.0	1.0	1	07/25/13 11:30	07/26/13 16:38	100-01-6	
Nitrobenzene	**<0.41**	mg/kg	0.41	0.21	1	07/25/13 11:30	07/26/13 16:38	98-95-3	
2-Nitrophenol	**<0.41**	mg/kg	0.41	0.21	1	07/25/13 11:30	07/26/13 16:38	88-75-5	
4-Nitrophenol	**<2.0**	mg/kg	2.0	1.0	1	07/25/13 11:30	07/26/13 16:38	100-02-7	
N-Nitroso-di-n-propylamine	**<0.41**	mg/kg	0.41	0.21	1	07/25/13 11:30	07/26/13 16:38	621-64-7	
N-Nitrosodiphenylamine	**<0.41**	mg/kg	0.41	0.21	1	07/25/13 11:30	07/26/13 16:38	86-30-6	
Pentachlorophenol	**<2.0**	mg/kg	2.0	1.0	1	07/25/13 11:30	07/26/13 16:38	87-86-5	
Phenol	**<0.41**	mg/kg	0.41	0.21	1	07/25/13 11:30	07/26/13 16:38	108-95-2	
2,4,5-Trichlorophenol	**<0.41**	mg/kg	0.41	0.21	1	07/25/13 11:30	07/26/13 16:38	95-95-4	
2,4,6-Trichlorophenol	**<0.41**	mg/kg	0.41	0.21	1	07/25/13 11:30	07/26/13 16:38	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	63	%.	28-101		1	07/25/13 11:30	07/26/13 16:38	4165-60-0	
2-Fluorobiphenyl (S)	68	%.	31-94		1	07/25/13 11:30	07/26/13 16:38	321-60-8	
p-Terphenyl-d14 (S)	80	%.	26-110		1	07/25/13 11:30	07/26/13 16:38	1718-51-0	
Phenol-d5 (S)	52	%.	28-101		1	07/25/13 11:30	07/26/13 16:38	4165-62-2	
2-Fluorophenol (S)	54	%.	24-104		1	07/25/13 11:30	07/26/13 16:38	367-12-4	
2,4,6-Tribromophenol (S)	66	%.	16-122		1	07/25/13 11:30	07/26/13 16:38	118-79-6	
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	**<0.095**	mg/kg	0.095	0.048	1		07/27/13 08:17	67-64-1	
Acrolein	**<0.095**	mg/kg	0.095	0.048	1		07/27/13 08:17	107-02-8	
Acrylonitrile	**<0.095**	mg/kg	0.095	0.048	1		07/27/13 08:17	107-13-1	
Benzene	**<0.0048**	mg/kg	0.0048	0.00095	1		07/27/13 08:17	71-43-2	
Bromobenzene	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	108-86-1	
Bromochloromethane	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	74-97-5	
Bromodichloromethane	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	75-27-4	
Bromoform	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	75-25-2	
Bromomethane	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	74-83-9	

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ANALYTICAL RESULTS

Project: Jacobsville RA
Pace Project No.: 5084026

Sample: JRA-STAUB2-072313 **Lab ID: 5084026002** Collected: 07/23/13 09:00 Received: 07/24/13 10:54 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
2-Butanone (MEK)	**<0.024**	mg/kg	0.024	0.011	1		07/27/13 08:17	78-93-3	
n-Butylbenzene	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	104-51-8	
sec-Butylbenzene	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	135-98-8	
tert-Butylbenzene	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	98-06-6	
Carbon disulfide	**<0.0095**	mg/kg	0.0095	0.0024	1		07/27/13 08:17	75-15-0	
Carbon tetrachloride	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	56-23-5	
Chlorobenzene	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	108-90-7	
Chloroethane	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	75-00-3	
Chloroform	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	67-66-3	
Chloromethane	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	74-87-3	
2-Chlorotoluene	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	95-49-8	
4-Chlorotoluene	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	106-43-4	
Dibromochloromethane	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	124-48-1	
1,2-Dibromoethane (EDB)	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	106-93-4	
Dibromomethane	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	74-95-3	
1,2-Dichlorobenzene	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	95-50-1	
1,3-Dichlorobenzene	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	541-73-1	
1,4-Dichlorobenzene	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	106-46-7	
trans-1,4-Dichloro-2-butene	**<0.095**	mg/kg	0.095	0.048	1		07/27/13 08:17	110-57-6	
Dichlorodifluoromethane	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	75-71-8	
1,1-Dichloroethane	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	75-34-3	
1,2-Dichloroethane	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	107-06-2	
1,1-Dichloroethene	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	75-35-4	
cis-1,2-Dichloroethene	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	156-59-2	
trans-1,2-Dichloroethene	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	156-60-5	
1,2-Dichloropropane	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	78-87-5	
1,3-Dichloropropane	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	142-28-9	
2,2-Dichloropropane	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	594-20-7	
1,1-Dichloropropene	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	563-58-6	
cis-1,3-Dichloropropene	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	10061-01-5	
trans-1,3-Dichloropropene	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	10061-02-6	
Ethylbenzene	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	100-41-4	
Ethyl methacrylate	**<0.095**	mg/kg	0.095	0.048	1		07/27/13 08:17	97-63-2	
Hexachloro-1,3-butadiene	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	87-68-3	
n-Hexane	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	110-54-3	N2
2-Hexanone	**<0.095**	mg/kg	0.095	0.048	1		07/27/13 08:17	591-78-6	
Iodomethane	**<0.095**	mg/kg	0.095	0.048	1		07/27/13 08:17	74-88-4	
Isopropylbenzene (Cumene)	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	98-82-8	
p-Isopropyltoluene	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	99-87-6	
Methylene Chloride	**<0.019**	mg/kg	0.019	0.0095	1		07/27/13 08:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.024**	mg/kg	0.024	0.011	1		07/27/13 08:17	108-10-1	
Methyl-tert-butyl ether	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	1634-04-4	
Naphthalene	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	91-20-3	
n-Propylbenzene	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	103-65-1	
Styrene	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	100-42-5	

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ANALYTICAL RESULTS

Project: Jacobsville RA
Pace Project No.: 5084026

Sample: JRA-STAUB2-072313 **Lab ID: 5084026002** Collected: 07/23/13 09:00 Received: 07/24/13 10:54 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	79-34-5	
Tetrachloroethene	**<0.0048**	mg/kg	0.0048	0.0013	1		07/27/13 08:17	127-18-4	
Toluene	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	108-88-3	
1,2,3-Trichlorobenzene	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	87-61-6	
1,2,4-Trichlorobenzene	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	120-82-1	
1,1,1-Trichloroethane	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	71-55-6	
1,1,2-Trichloroethane	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	79-00-5	
Trichloroethene	**<0.0048**	mg/kg	0.0048	0.00095	1		07/27/13 08:17	79-01-6	
Trichlorofluoromethane	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	75-69-4	
1,2,3-Trichloropropane	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	96-18-4	
1,2,4-Trimethylbenzene	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	95-63-6	
1,3,5-Trimethylbenzene	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	108-67-8	
Vinyl acetate	**<0.095**	mg/kg	0.095	0.048	1		07/27/13 08:17	108-05-4	
Vinyl chloride	**<0.0048**	mg/kg	0.0048	0.0024	1		07/27/13 08:17	75-01-4	
Xylene (Total)	**<0.0095**	mg/kg	0.0095	0.0048	1		07/27/13 08:17	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	107	%.	85-118		1		07/27/13 08:17	1868-53-7	
Toluene-d8 (S)	131	%.	71-128		1		07/27/13 08:17	2037-26-5	S3
4-Bromofluorobenzene (S)	92	%.	56-144		1		07/27/13 08:17	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**21.0**	%	0.10	0.10	1		07/24/13 17:44		
9045 pH Soil	Analytical Method: EPA 9045								
pH at 25 Degrees C	**7.5**	Std. Units	0.10		1		07/26/13 11:02		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Jacobsville RA
Pace Project No.: 5084026

Sample: JRA-STAUB3-072313 **Lab ID: 5084026003** Collected: 07/23/13 09:15 Received: 07/24/13 10:54 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3550								
Aldrin	**<0.0019**	mg/kg	0.0019	0.00040	1	07/25/13 12:00	07/26/13 19:18	309-00-2	
alpha-BHC	**<0.0019**	mg/kg	0.0019	0.00039	1	07/25/13 12:00	07/26/13 19:18	319-84-6	
beta-BHC	**<0.0019**	mg/kg	0.0019	0.00067	1	07/25/13 12:00	07/26/13 19:18	319-85-7	
delta-BHC	**<0.0019**	mg/kg	0.0019	0.00061	1	07/25/13 12:00	07/26/13 19:18	319-86-8	
gamma-BHC (Lindane)	**<0.0019**	mg/kg	0.0019	0.00037	1	07/25/13 12:00	07/26/13 19:18	58-89-9	
Chlordane (Technical)	**0.011J**	mg/kg	0.038	0.0046	1	07/25/13 12:00	07/26/13 19:18	57-74-9	C2
alpha-Chlordane	**0.00098J**	mg/kg	0.0019	0.00030	1	07/25/13 12:00	07/26/13 19:18	5103-71-9	C2
gamma-Chlordane	**0.00057J**	mg/kg	0.0019	0.00040	1	07/25/13 12:00	07/26/13 19:18	5103-74-2	C2
4,4'-DDD	**<0.0038**	mg/kg	0.0038	0.00060	1	07/25/13 12:00	07/26/13 19:18	72-54-8	
4,4'-DDE	**<0.0038**	mg/kg	0.0038	0.00081	1	07/25/13 12:00	07/26/13 19:18	72-55-9	
4,4'-DDT	**<0.0038**	mg/kg	0.0038	0.00085	1	07/25/13 12:00	07/26/13 19:18	50-29-3	
Dieldrin	**<0.0038**	mg/kg	0.0038	0.00093	1	07/25/13 12:00	07/26/13 19:18	60-57-1	
Endosulfan I	**<0.0019**	mg/kg	0.0019	0.00049	1	07/25/13 12:00	07/26/13 19:18	959-98-8	
Endosulfan II	**<0.0038**	mg/kg	0.0038	0.0017	1	07/25/13 12:00	07/26/13 19:18	33213-65-9	
Endosulfan sulfate	**<0.0038**	mg/kg	0.0038	0.00083	1	07/25/13 12:00	07/26/13 19:18	1031-07-8	
Endrin	**<0.0038**	mg/kg	0.0038	0.00064	1	07/25/13 12:00	07/26/13 19:18	72-20-8	
Endrin aldehyde	**<0.0038**	mg/kg	0.0038	0.00089	1	07/25/13 12:00	07/26/13 19:18	7421-93-4	
Endrin ketone	**<0.0038**	mg/kg	0.0038	0.00071	1	07/25/13 12:00	07/26/13 19:18	53494-70-5	
Heptachlor	**<0.0019**	mg/kg	0.0019	0.00032	1	07/25/13 12:00	07/26/13 19:18	76-44-8	
Heptachlor epoxide	**<0.0019**	mg/kg	0.0019	0.00033	1	07/25/13 12:00	07/26/13 19:18	1024-57-3	
Methoxychlor	**<0.019**	mg/kg	0.019	0.0031	1	07/25/13 12:00	07/26/13 19:18	72-43-5	
Toxaphene	**<0.11**	mg/kg	0.11	0.057	1	07/25/13 12:00	07/26/13 19:18	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	63	%	37-130		1	07/25/13 12:00	07/26/13 19:18	877-09-8	
Decachlorobiphenyl (S)	66	%	40-130		1	07/25/13 12:00	07/26/13 19:18	2051-24-3	
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	**<0.11**	mg/kg	0.11	0.057	1	07/25/13 10:25	07/26/13 16:25	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.11**	mg/kg	0.11	0.057	1	07/25/13 10:25	07/26/13 16:25	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.11**	mg/kg	0.11	0.057	1	07/25/13 10:25	07/26/13 16:25	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.11**	mg/kg	0.11	0.057	1	07/25/13 10:25	07/26/13 16:25	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.11**	mg/kg	0.11	0.057	1	07/25/13 10:25	07/26/13 16:25	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.11**	mg/kg	0.11	0.057	1	07/25/13 10:25	07/26/13 16:25	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.11**	mg/kg	0.11	0.057	1	07/25/13 10:25	07/26/13 16:25	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	71	%.	30-106		1	07/25/13 10:25	07/26/13 16:25	877-09-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**9.3**	mg/kg	2.3	1.1	1	07/25/13 08:29	07/25/13 12:04	7440-38-2	
Barium	**129**	mg/kg	2.3	1.1	1	07/25/13 08:29	07/25/13 12:04	7440-39-3	
Cadmium	**1.2J**	mg/kg	2.3	1.1	1	07/25/13 08:29	07/25/13 12:04	7440-43-9	
Chromium	**26.8**	mg/kg	2.3	1.1	1	07/25/13 08:29	07/25/13 12:04	7440-47-3	
Lead	**33.9**	mg/kg	2.3	1.1	1	07/25/13 08:29	07/25/13 12:04	7439-92-1	
Selenium	**<2.3**	mg/kg	2.3	1.1	1	07/25/13 08:29	07/25/13 12:04	7782-49-2	
Silver	**<2.3**	mg/kg	2.3	1.1	1	07/25/13 08:29	07/25/13 12:04	7440-22-4	

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ANALYTICAL RESULTS

Project: Jacobsville RA
Pace Project No.: 5084026

Sample: JRA-STAUB3-072313 **Lab ID: 5084026003** Collected: 07/23/13 09:15 Received: 07/24/13 10:54 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**<0.23**	mg/kg	0.23	0.20	1	07/29/13 09:20	07/29/13 12:17	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**0.025J**	mg/kg	0.028	0.014	5	07/24/13 15:01	07/25/13 11:08	83-32-9	
Acenaphthylene	**0.037**	mg/kg	0.028	0.014	5	07/24/13 15:01	07/25/13 11:08	208-96-8	
Anthracene	**0.067**	mg/kg	0.028	0.014	5	07/24/13 15:01	07/25/13 11:08	120-12-7	
Benzo(a)anthracene	**0.24**	mg/kg	0.028	0.014	5	07/24/13 15:01	07/25/13 11:08	56-55-3	
Benzo(a)pyrene	**0.24**	mg/kg	0.028	0.014	5	07/24/13 15:01	07/25/13 11:08	50-32-8	
Benzo(b)fluoranthene	**0.24**	mg/kg	0.028	0.014	5	07/24/13 15:01	07/25/13 11:08	205-99-2	
Benzo(g,h,i)perylene	**0.18**	mg/kg	0.028	0.014	5	07/24/13 15:01	07/25/13 11:08	191-24-2	
Benzo(k)fluoranthene	**0.22**	mg/kg	0.028	0.014	5	07/24/13 15:01	07/25/13 11:08	207-08-9	
Chrysene	**0.27**	mg/kg	0.028	0.014	5	07/24/13 15:01	07/25/13 11:08	218-01-9	
Dibenz(a,h)anthracene	**<0.028**	mg/kg	0.028	0.014	5	07/24/13 15:01	07/25/13 11:08	53-70-3	
Fluoranthene	**0.46**	mg/kg	0.028	0.014	5	07/24/13 15:01	07/25/13 11:08	206-44-0	
Fluorene	**0.026J**	mg/kg	0.028	0.014	5	07/24/13 15:01	07/25/13 11:08	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.15**	mg/kg	0.028	0.014	5	07/24/13 15:01	07/25/13 11:08	193-39-5	
1-Methylnaphthalene	**0.22**	mg/kg	0.028	0.014	5	07/24/13 15:01	07/25/13 11:08	90-12-0	N2
2-Methylnaphthalene	**0.25**	mg/kg	0.028	0.014	5	07/24/13 15:01	07/25/13 11:08	91-57-6	
Naphthalene	**0.19**	mg/kg	0.028	0.014	5	07/24/13 15:01	07/25/13 11:08	91-20-3	2d
Phenanthrene	**0.37**	mg/kg	0.028	0.014	5	07/24/13 15:01	07/25/13 11:08	85-01-8	
Pyrene	**0.36**	mg/kg	0.028	0.014	5	07/24/13 15:01	07/25/13 11:08	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	67	%.	38-110		5	07/24/13 15:01	07/25/13 11:08	321-60-8	
p-Terphenyl-d14 (S)	73	%.	32-111		5	07/24/13 15:01	07/25/13 11:08	1718-51-0	
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Benzyl alcohol	**<0.76**	mg/kg	0.76	0.38	1	07/25/13 11:30	07/26/13 16:57	100-51-6	
4-Bromophenylphenyl ether	**<0.38**	mg/kg	0.38	0.19	1	07/25/13 11:30	07/26/13 16:57	101-55-3	
Butylbenzylphthalate	**<0.38**	mg/kg	0.38	0.19	1	07/25/13 11:30	07/26/13 16:57	85-68-7	
4-Chloro-3-methylphenol	**<0.76**	mg/kg	0.76	0.38	1	07/25/13 11:30	07/26/13 16:57	59-50-7	
4-Chloroaniline	**<0.76**	mg/kg	0.76	0.38	1	07/25/13 11:30	07/26/13 16:57	106-47-8	
bis(2-Chloroethoxy)methane	**<0.38**	mg/kg	0.38	0.19	1	07/25/13 11:30	07/26/13 16:57	111-91-1	
bis(2-Chloroethyl) ether	**<0.38**	mg/kg	0.38	0.19	1	07/25/13 11:30	07/26/13 16:57	111-44-4	
bis(2-Chloroisopropyl) ether	**<0.38**	mg/kg	0.38	0.19	1	07/25/13 11:30	07/26/13 16:57	108-60-1	
bis(2chloro1methylethyl) ether	**<0.38**	mg/kg	0.38	0.19	1	07/25/13 11:30	07/26/13 16:57	108-60-1	
2-Chloronaphthalene	**<0.38**	mg/kg	0.38	0.19	1	07/25/13 11:30	07/26/13 16:57	91-58-7	
2-Chlorophenol	**<0.38**	mg/kg	0.38	0.19	1	07/25/13 11:30	07/26/13 16:57	95-57-8	
4-Chlorophenylphenyl ether	**<0.38**	mg/kg	0.38	0.19	1	07/25/13 11:30	07/26/13 16:57	7005-72-3	
Dibenzofuran	**<0.38**	mg/kg	0.38	0.19	1	07/25/13 11:30	07/26/13 16:57	132-64-9	
3,3'-Dichlorobenzidine	**<0.76**	mg/kg	0.76	0.38	1	07/25/13 11:30	07/26/13 16:57	91-94-1	
2,4-Dichlorophenol	**<0.38**	mg/kg	0.38	0.19	1	07/25/13 11:30	07/26/13 16:57	120-83-2	
Diethylphthalate	**<0.38**	mg/kg	0.38	0.19	1	07/25/13 11:30	07/26/13 16:57	84-66-2	
2,4-Dimethylphenol	**<0.38**	mg/kg	0.38	0.19	1	07/25/13 11:30	07/26/13 16:57	105-67-9	
Dimethylphthalate	**<0.38**	mg/kg	0.38	0.19	1	07/25/13 11:30	07/26/13 16:57	131-11-3	

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ANALYTICAL RESULTS

Project: Jacobsville RA
Pace Project No.: 5084026

Sample: JRA-STAUB3-072313 **Lab ID: 5084026003** Collected: 07/23/13 09:15 Received: 07/24/13 10:54 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Di-n-butylphthalate	**<0.38**	mg/kg	0.38	0.19	1	07/25/13 11:30	07/26/13 16:57	84-74-2	
4,6-Dinitro-2-methylphenol	**<1.8**	mg/kg	1.8	0.92	1	07/25/13 11:30	07/26/13 16:57	534-52-1	
2,4-Dinitrophenol	**<1.8**	mg/kg	1.8	1.8	1	07/25/13 11:30	07/26/13 16:57	51-28-5	
2,4-Dinitrotoluene	**<0.38**	mg/kg	0.38	0.19	1	07/25/13 11:30	07/26/13 16:57	121-14-2	
2,6-Dinitrotoluene	**<0.38**	mg/kg	0.38	0.19	1	07/25/13 11:30	07/26/13 16:57	606-20-2	
Di-n-octylphthalate	**<0.38**	mg/kg	0.38	0.19	1	07/25/13 11:30	07/26/13 16:57	117-84-0	
bis(2-Ethylhexyl)phthalate	**<0.38**	mg/kg	0.38	0.19	1	07/25/13 11:30	07/26/13 16:57	117-81-7	
Hexachloro-1,3-butadiene	**<0.38**	mg/kg	0.38	0.19	1	07/25/13 11:30	07/26/13 16:57	87-68-3	
Hexachlorobenzene	**<0.38**	mg/kg	0.38	0.19	1	07/25/13 11:30	07/26/13 16:57	118-74-1	
Hexachlorocyclopentadiene	**<0.38**	mg/kg	0.38	0.19	1	07/25/13 11:30	07/26/13 16:57	77-47-4	
Hexachloroethane	**<0.38**	mg/kg	0.38	0.19	1	07/25/13 11:30	07/26/13 16:57	67-72-1	
Isophorone	**<0.38**	mg/kg	0.38	0.19	1	07/25/13 11:30	07/26/13 16:57	78-59-1	
2-Methylphenol(o-Cresol)	**<0.38**	mg/kg	0.38	0.19	1	07/25/13 11:30	07/26/13 16:57	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<0.76**	mg/kg	0.76	0.38	1	07/25/13 11:30	07/26/13 16:57		
2-Nitroaniline	**<1.8**	mg/kg	1.8	0.92	1	07/25/13 11:30	07/26/13 16:57	88-74-4	
3-Nitroaniline	**<1.8**	mg/kg	1.8	0.92	1	07/25/13 11:30	07/26/13 16:57	99-09-2	
4-Nitroaniline	**<1.8**	mg/kg	1.8	0.92	1	07/25/13 11:30	07/26/13 16:57	100-01-6	
Nitrobenzene	**<0.38**	mg/kg	0.38	0.19	1	07/25/13 11:30	07/26/13 16:57	98-95-3	
2-Nitrophenol	**<0.38**	mg/kg	0.38	0.19	1	07/25/13 11:30	07/26/13 16:57	88-75-5	
4-Nitrophenol	**<1.8**	mg/kg	1.8	0.92	1	07/25/13 11:30	07/26/13 16:57	100-02-7	
N-Nitroso-di-n-propylamine	**<0.38**	mg/kg	0.38	0.19	1	07/25/13 11:30	07/26/13 16:57	621-64-7	
N-Nitrosodiphenylamine	**<0.38**	mg/kg	0.38	0.19	1	07/25/13 11:30	07/26/13 16:57	86-30-6	
Pentachlorophenol	**<1.8**	mg/kg	1.8	0.92	1	07/25/13 11:30	07/26/13 16:57	87-86-5	
Phenol	**<0.38**	mg/kg	0.38	0.19	1	07/25/13 11:30	07/26/13 16:57	108-95-2	
2,4,5-Trichlorophenol	**<0.38**	mg/kg	0.38	0.19	1	07/25/13 11:30	07/26/13 16:57	95-95-4	
2,4,6-Trichlorophenol	**<0.38**	mg/kg	0.38	0.19	1	07/25/13 11:30	07/26/13 16:57	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	49	%.	28-101		1	07/25/13 11:30	07/26/13 16:57	4165-60-0	
2-Fluorobiphenyl (S)	53	%.	31-94		1	07/25/13 11:30	07/26/13 16:57	321-60-8	
p-Terphenyl-d14 (S)	61	%.	26-110		1	07/25/13 11:30	07/26/13 16:57	1718-51-0	
Phenol-d5 (S)	41	%.	28-101		1	07/25/13 11:30	07/26/13 16:57	4165-62-2	
2-Fluorophenol (S)	44	%.	24-104		1	07/25/13 11:30	07/26/13 16:57	367-12-4	
2,4,6-Tribromophenol (S)	47	%.	16-122		1	07/25/13 11:30	07/26/13 16:57	118-79-6	
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	**<0.10**	mg/kg	0.10	0.052	1		07/27/13 08:55	67-64-1	
Acrolein	**<0.10**	mg/kg	0.10	0.052	1		07/27/13 08:55	107-02-8	
Acrylonitrile	**<0.10**	mg/kg	0.10	0.052	1		07/27/13 08:55	107-13-1	
Benzene	**<0.0052**	mg/kg	0.0052	0.0010	1		07/27/13 08:55	71-43-2	
Bromobenzene	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	108-86-1	
Bromochloromethane	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	74-97-5	
Bromodichloromethane	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	75-27-4	
Bromoform	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	75-25-2	
Bromomethane	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	74-83-9	

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ANALYTICAL RESULTS

Project: Jacobsville RA
Pace Project No.: 5084026

Sample: JRA-STAUB3-072313 **Lab ID: 5084026003** Collected: 07/23/13 09:15 Received: 07/24/13 10:54 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
2-Butanone (MEK)	**<0.026**	mg/kg	0.026	0.012	1		07/27/13 08:55	78-93-3	
n-Butylbenzene	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	104-51-8	
sec-Butylbenzene	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	135-98-8	
tert-Butylbenzene	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	98-06-6	
Carbon disulfide	**<0.010**	mg/kg	0.010	0.0026	1		07/27/13 08:55	75-15-0	
Carbon tetrachloride	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	56-23-5	
Chlorobenzene	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	108-90-7	
Chloroethane	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	75-00-3	
Chloroform	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	67-66-3	
Chloromethane	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	74-87-3	
2-Chlorotoluene	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	95-49-8	
4-Chlorotoluene	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	106-43-4	
Dibromochloromethane	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	124-48-1	
1,2-Dibromoethane (EDB)	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	106-93-4	
Dibromomethane	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	74-95-3	
1,2-Dichlorobenzene	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	95-50-1	
1,3-Dichlorobenzene	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	541-73-1	
1,4-Dichlorobenzene	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	106-46-7	
trans-1,4-Dichloro-2-butene	**<0.10**	mg/kg	0.10	0.052	1		07/27/13 08:55	110-57-6	
Dichlorodifluoromethane	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	75-71-8	
1,1-Dichloroethane	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	75-34-3	
1,2-Dichloroethane	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	107-06-2	
1,1-Dichloroethene	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	75-35-4	
cis-1,2-Dichloroethene	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	156-59-2	
trans-1,2-Dichloroethene	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	156-60-5	
1,2-Dichloropropane	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	78-87-5	
1,3-Dichloropropane	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	142-28-9	
2,2-Dichloropropane	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	594-20-7	
1,1-Dichloropropene	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	563-58-6	
cis-1,3-Dichloropropene	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	10061-01-5	
trans-1,3-Dichloropropene	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	10061-02-6	
Ethylbenzene	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	100-41-4	
Ethyl methacrylate	**<0.10**	mg/kg	0.10	0.052	1		07/27/13 08:55	97-63-2	
Hexachloro-1,3-butadiene	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	87-68-3	
n-Hexane	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	110-54-3	N2
2-Hexanone	**<0.10**	mg/kg	0.10	0.052	1		07/27/13 08:55	591-78-6	
Iodomethane	**<0.10**	mg/kg	0.10	0.052	1		07/27/13 08:55	74-88-4	
Isopropylbenzene (Cumene)	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	98-82-8	
p-Isopropyltoluene	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	99-87-6	
Methylene Chloride	**<0.021**	mg/kg	0.021	0.010	1		07/27/13 08:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.026**	mg/kg	0.026	0.012	1		07/27/13 08:55	108-10-1	
Methyl-tert-butyl ether	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	1634-04-4	
Naphthalene	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	91-20-3	
n-Propylbenzene	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	103-65-1	
Styrene	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	100-42-5	

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ANALYTICAL RESULTS

Project: Jacobsville RA
Pace Project No.: 5084026

Sample: JRA-STAUB3-072313 **Lab ID: 5084026003** Collected: 07/23/13 09:15 Received: 07/24/13 10:54 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	79-34-5	
Tetrachloroethene	**<0.0052**	mg/kg	0.0052	0.0014	1		07/27/13 08:55	127-18-4	
Toluene	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	108-88-3	
1,2,3-Trichlorobenzene	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	87-61-6	
1,2,4-Trichlorobenzene	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	120-82-1	
1,1,1-Trichloroethane	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	71-55-6	
1,1,2-Trichloroethane	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	79-00-5	
Trichloroethene	**<0.0052**	mg/kg	0.0052	0.0010	1		07/27/13 08:55	79-01-6	
Trichlorofluoromethane	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	75-69-4	
1,2,3-Trichloropropane	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	96-18-4	
1,2,4-Trimethylbenzene	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	95-63-6	
1,3,5-Trimethylbenzene	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	108-67-8	
Vinyl acetate	**<0.10**	mg/kg	0.10	0.052	1		07/27/13 08:55	108-05-4	
Vinyl chloride	**<0.0052**	mg/kg	0.0052	0.0026	1		07/27/13 08:55	75-01-4	
Xylene (Total)	**<0.010**	mg/kg	0.010	0.0052	1		07/27/13 08:55	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	111	%.	85-118		1		07/27/13 08:55	1868-53-7	
Toluene-d8 (S)	148	%.	71-128		1		07/27/13 08:55	2037-26-5	S3
4-Bromofluorobenzene (S)	77	%.	56-144		1		07/27/13 08:55	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**12.6**	%	0.10	0.10	1		07/24/13 17:44		
9045 pH Soil	Analytical Method: EPA 9045								
pH at 25 Degrees C	**7.4**	Std. Units	0.10		1		07/26/13 11:06		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Jacobsville RA
Pace Project No.: 5084026

Sample: JRA-STAUB4-072313 **Lab ID: 5084026004** Collected: 07/23/13 09:28 Received: 07/24/13 10:54 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides	Analytical Method: EPA 8081 Preparation Method: EPA 3550								
Aldrin	**<0.0018**	mg/kg	0.0018	0.00039	1	07/25/13 12:00	07/26/13 19:45	309-00-2	
alpha-BHC	**<0.0018**	mg/kg	0.0018	0.00038	1	07/25/13 12:00	07/26/13 19:45	319-84-6	
beta-BHC	**<0.0018**	mg/kg	0.0018	0.00065	1	07/25/13 12:00	07/26/13 19:45	319-85-7	
delta-BHC	**<0.0018**	mg/kg	0.0018	0.00059	1	07/25/13 12:00	07/26/13 19:45	319-86-8	
gamma-BHC (Lindane)	**<0.0018**	mg/kg	0.0018	0.00036	1	07/25/13 12:00	07/26/13 19:45	58-89-9	
Chlordane (Technical)	**0.0055J**	mg/kg	0.037	0.0044	1	07/25/13 12:00	07/26/13 19:45	57-74-9	C2
alpha-Chlordane	**0.00087J**	mg/kg	0.0018	0.00029	1	07/25/13 12:00	07/26/13 19:45	5103-71-9	
gamma-Chlordane	**<0.0018**	mg/kg	0.0018	0.00038	1	07/25/13 12:00	07/26/13 19:45	5103-74-2	
4,4'-DDD	**<0.0037**	mg/kg	0.0037	0.00058	1	07/25/13 12:00	07/26/13 19:45	72-54-8	
4,4'-DDE	**<0.0037**	mg/kg	0.0037	0.00078	1	07/25/13 12:00	07/26/13 19:45	72-55-9	
4,4'-DDT	**<0.0037**	mg/kg	0.0037	0.00082	1	07/25/13 12:00	07/26/13 19:45	50-29-3	
Dieldrin	**<0.0037**	mg/kg	0.0037	0.00090	1	07/25/13 12:00	07/26/13 19:45	60-57-1	
Endosulfan I	**<0.0018**	mg/kg	0.0018	0.00048	1	07/25/13 12:00	07/26/13 19:45	959-98-8	
Endosulfan II	**<0.0037**	mg/kg	0.0037	0.0016	1	07/25/13 12:00	07/26/13 19:45	33213-65-9	
Endosulfan sulfate	**<0.0037**	mg/kg	0.0037	0.00080	1	07/25/13 12:00	07/26/13 19:45	1031-07-8	
Endrin	**<0.0037**	mg/kg	0.0037	0.00062	1	07/25/13 12:00	07/26/13 19:45	72-20-8	
Endrin aldehyde	**<0.0037**	mg/kg	0.0037	0.00086	1	07/25/13 12:00	07/26/13 19:45	7421-93-4	
Endrin ketone	**0.00087J**	mg/kg	0.0037	0.00068	1	07/25/13 12:00	07/26/13 19:45	53494-70-5	C2
Heptachlor	**<0.0018**	mg/kg	0.0018	0.00031	1	07/25/13 12:00	07/26/13 19:45	76-44-8	
Heptachlor epoxide	**<0.0018**	mg/kg	0.0018	0.00032	1	07/25/13 12:00	07/26/13 19:45	1024-57-3	
Methoxychlor	**<0.018**	mg/kg	0.018	0.0030	1	07/25/13 12:00	07/26/13 19:45	72-43-5	
Toxaphene	**<0.11**	mg/kg	0.11	0.055	1	07/25/13 12:00	07/26/13 19:45	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	59	%	37-130		1	07/25/13 12:00	07/26/13 19:45	877-09-8	
Decachlorobiphenyl (S)	61	%	40-130		1	07/25/13 12:00	07/26/13 19:45	2051-24-3	
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	**<0.11**	mg/kg	0.11	0.055	1	07/25/13 10:25	07/26/13 16:31	12674-11-2	
PCB-1221 (Aroclor 1221)	**<0.11**	mg/kg	0.11	0.055	1	07/25/13 10:25	07/26/13 16:31	11104-28-2	
PCB-1232 (Aroclor 1232)	**<0.11**	mg/kg	0.11	0.055	1	07/25/13 10:25	07/26/13 16:31	11141-16-5	
PCB-1242 (Aroclor 1242)	**<0.11**	mg/kg	0.11	0.055	1	07/25/13 10:25	07/26/13 16:31	53469-21-9	
PCB-1248 (Aroclor 1248)	**<0.11**	mg/kg	0.11	0.055	1	07/25/13 10:25	07/26/13 16:31	12672-29-6	
PCB-1254 (Aroclor 1254)	**<0.11**	mg/kg	0.11	0.055	1	07/25/13 10:25	07/26/13 16:31	11097-69-1	
PCB-1260 (Aroclor 1260)	**<0.11**	mg/kg	0.11	0.055	1	07/25/13 10:25	07/26/13 16:31	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	75	%.	30-106		1	07/25/13 10:25	07/26/13 16:31	877-09-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**7.0**	mg/kg	1.8	0.92	1	07/25/13 08:29	07/25/13 12:07	7440-38-2	
Barium	**92.3**	mg/kg	1.8	0.92	1	07/25/13 08:29	07/25/13 12:07	7440-39-3	
Cadmium	**<1.8**	mg/kg	1.8	0.92	1	07/25/13 08:29	07/25/13 12:07	7440-43-9	
Chromium	**15.8**	mg/kg	1.8	0.92	1	07/25/13 08:29	07/25/13 12:07	7440-47-3	
Lead	**19.9**	mg/kg	1.8	0.92	1	07/25/13 08:29	07/25/13 12:07	7439-92-1	
Selenium	**<1.8**	mg/kg	1.8	0.92	1	07/25/13 08:29	07/25/13 12:07	7782-49-2	
Silver	**<1.8**	mg/kg	1.8	0.92	1	07/25/13 08:29	07/25/13 12:07	7440-22-4	

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ANALYTICAL RESULTS

Project: Jacobsville RA
Pace Project No.: 5084026

Sample: JRA-STAUB4-072313 **Lab ID: 5084026004** Collected: 07/23/13 09:28 Received: 07/24/13 10:54 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**<0.22**	mg/kg	0.22	0.19	1	07/29/13 09:20	07/29/13 12:19	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**0.020J**	mg/kg	0.027	0.014	5	07/24/13 15:01	07/25/13 11:26	83-32-9	
Acenaphthylene	**0.049**	mg/kg	0.027	0.014	5	07/24/13 15:01	07/25/13 11:26	208-96-8	
Anthracene	**0.077**	mg/kg	0.027	0.014	5	07/24/13 15:01	07/25/13 11:26	120-12-7	
Benzo(a)anthracene	**0.31**	mg/kg	0.027	0.014	5	07/24/13 15:01	07/25/13 11:26	56-55-3	
Benzo(a)pyrene	**0.30**	mg/kg	0.027	0.014	5	07/24/13 15:01	07/25/13 11:26	50-32-8	
Benzo(b)fluoranthene	**0.28**	mg/kg	0.027	0.014	5	07/24/13 15:01	07/25/13 11:26	205-99-2	
Benzo(g,h,i)perylene	**0.20**	mg/kg	0.027	0.014	5	07/24/13 15:01	07/25/13 11:26	191-24-2	
Benzo(k)fluoranthene	**0.28**	mg/kg	0.027	0.014	5	07/24/13 15:01	07/25/13 11:26	207-08-9	
Chrysene	**0.33**	mg/kg	0.027	0.014	5	07/24/13 15:01	07/25/13 11:26	218-01-9	
Dibenz(a,h)anthracene	**0.059**	mg/kg	0.027	0.014	5	07/24/13 15:01	07/25/13 11:26	53-70-3	
Fluoranthene	**0.53**	mg/kg	0.027	0.014	5	07/24/13 15:01	07/25/13 11:26	206-44-0	
Fluorene	**0.020J**	mg/kg	0.027	0.014	5	07/24/13 15:01	07/25/13 11:26	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.18**	mg/kg	0.027	0.014	5	07/24/13 15:01	07/25/13 11:26	193-39-5	
1-Methylnaphthalene	**0.10**	mg/kg	0.027	0.014	5	07/24/13 15:01	07/25/13 11:26	90-12-0	N2
2-Methylnaphthalene	**0.12**	mg/kg	0.027	0.014	5	07/24/13 15:01	07/25/13 11:26	91-57-6	
Naphthalene	**0.094**	mg/kg	0.027	0.014	5	07/24/13 15:01	07/25/13 11:26	91-20-3	2d
Phenanthrene	**0.28**	mg/kg	0.027	0.014	5	07/24/13 15:01	07/25/13 11:26	85-01-8	
Pyrene	**0.41**	mg/kg	0.027	0.014	5	07/24/13 15:01	07/25/13 11:26	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	65	%.	38-110		5	07/24/13 15:01	07/25/13 11:26	321-60-8	
p-Terphenyl-d14 (S)	71	%.	32-111		5	07/24/13 15:01	07/25/13 11:26	1718-51-0	
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Benzyl alcohol	**<0.73**	mg/kg	0.73	0.36	1	07/25/13 11:30	07/26/13 17:17	100-51-6	
4-Bromophenylphenyl ether	**<0.36**	mg/kg	0.36	0.18	1	07/25/13 11:30	07/26/13 17:17	101-55-3	
Butylbenzylphthalate	**<0.36**	mg/kg	0.36	0.18	1	07/25/13 11:30	07/26/13 17:17	85-68-7	
4-Chloro-3-methylphenol	**<0.73**	mg/kg	0.73	0.36	1	07/25/13 11:30	07/26/13 17:17	59-50-7	
4-Chloroaniline	**<0.73**	mg/kg	0.73	0.36	1	07/25/13 11:30	07/26/13 17:17	106-47-8	
bis(2-Chloroethoxy)methane	**<0.36**	mg/kg	0.36	0.18	1	07/25/13 11:30	07/26/13 17:17	111-91-1	
bis(2-Chloroethyl) ether	**<0.36**	mg/kg	0.36	0.18	1	07/25/13 11:30	07/26/13 17:17	111-44-4	
bis(2-Chloroisopropyl) ether	**<0.36**	mg/kg	0.36	0.18	1	07/25/13 11:30	07/26/13 17:17	108-60-1	
bis(2chloro1methylethyl) ether	**<0.36**	mg/kg	0.36	0.18	1	07/25/13 11:30	07/26/13 17:17	108-60-1	
2-Chloronaphthalene	**<0.36**	mg/kg	0.36	0.18	1	07/25/13 11:30	07/26/13 17:17	91-58-7	
2-Chlorophenol	**<0.36**	mg/kg	0.36	0.18	1	07/25/13 11:30	07/26/13 17:17	95-57-8	
4-Chlorophenylphenyl ether	**<0.36**	mg/kg	0.36	0.18	1	07/25/13 11:30	07/26/13 17:17	7005-72-3	
Dibenzofuran	**<0.36**	mg/kg	0.36	0.18	1	07/25/13 11:30	07/26/13 17:17	132-64-9	
3,3'-Dichlorobenzidine	**<0.73**	mg/kg	0.73	0.36	1	07/25/13 11:30	07/26/13 17:17	91-94-1	
2,4-Dichlorophenol	**<0.36**	mg/kg	0.36	0.18	1	07/25/13 11:30	07/26/13 17:17	120-83-2	
Diethylphthalate	**<0.36**	mg/kg	0.36	0.18	1	07/25/13 11:30	07/26/13 17:17	84-66-2	
2,4-Dimethylphenol	**<0.36**	mg/kg	0.36	0.18	1	07/25/13 11:30	07/26/13 17:17	105-67-9	
Dimethylphthalate	**<0.36**	mg/kg	0.36	0.18	1	07/25/13 11:30	07/26/13 17:17	131-11-3	

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ANALYTICAL RESULTS

Project: Jacobsville RA
Pace Project No.: 5084026

Sample: JRA-STAUB4-072313 **Lab ID: 5084026004** Collected: 07/23/13 09:28 Received: 07/24/13 10:54 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546								
Di-n-butylphthalate	**<0.36**	mg/kg	0.36	0.18	1	07/25/13 11:30	07/26/13 17:17	84-74-2	
4,6-Dinitro-2-methylphenol	**<1.8**	mg/kg	1.8	0.88	1	07/25/13 11:30	07/26/13 17:17	534-52-1	
2,4-Dinitrophenol	**<1.8**	mg/kg	1.8	1.8	1	07/25/13 11:30	07/26/13 17:17	51-28-5	
2,4-Dinitrotoluene	**<0.36**	mg/kg	0.36	0.18	1	07/25/13 11:30	07/26/13 17:17	121-14-2	
2,6-Dinitrotoluene	**<0.36**	mg/kg	0.36	0.18	1	07/25/13 11:30	07/26/13 17:17	606-20-2	
Di-n-octylphthalate	**<0.36**	mg/kg	0.36	0.18	1	07/25/13 11:30	07/26/13 17:17	117-84-0	
bis(2-Ethylhexyl)phthalate	**<0.36**	mg/kg	0.36	0.18	1	07/25/13 11:30	07/26/13 17:17	117-81-7	
Hexachloro-1,3-butadiene	**<0.36**	mg/kg	0.36	0.18	1	07/25/13 11:30	07/26/13 17:17	87-68-3	
Hexachlorobenzene	**<0.36**	mg/kg	0.36	0.18	1	07/25/13 11:30	07/26/13 17:17	118-74-1	
Hexachlorocyclopentadiene	**<0.36**	mg/kg	0.36	0.18	1	07/25/13 11:30	07/26/13 17:17	77-47-4	
Hexachloroethane	**<0.36**	mg/kg	0.36	0.18	1	07/25/13 11:30	07/26/13 17:17	67-72-1	
Isophorone	**<0.36**	mg/kg	0.36	0.18	1	07/25/13 11:30	07/26/13 17:17	78-59-1	
2-Methylphenol(o-Cresol)	**<0.36**	mg/kg	0.36	0.18	1	07/25/13 11:30	07/26/13 17:17	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<0.73**	mg/kg	0.73	0.36	1	07/25/13 11:30	07/26/13 17:17		
2-Nitroaniline	**<1.8**	mg/kg	1.8	0.88	1	07/25/13 11:30	07/26/13 17:17	88-74-4	
3-Nitroaniline	**<1.8**	mg/kg	1.8	0.88	1	07/25/13 11:30	07/26/13 17:17	99-09-2	
4-Nitroaniline	**<1.8**	mg/kg	1.8	0.88	1	07/25/13 11:30	07/26/13 17:17	100-01-6	
Nitrobenzene	**<0.36**	mg/kg	0.36	0.18	1	07/25/13 11:30	07/26/13 17:17	98-95-3	
2-Nitrophenol	**<0.36**	mg/kg	0.36	0.18	1	07/25/13 11:30	07/26/13 17:17	88-75-5	
4-Nitrophenol	**<1.8**	mg/kg	1.8	0.88	1	07/25/13 11:30	07/26/13 17:17	100-02-7	
N-Nitroso-di-n-propylamine	**<0.36**	mg/kg	0.36	0.18	1	07/25/13 11:30	07/26/13 17:17	621-64-7	
N-Nitrosodiphenylamine	**<0.36**	mg/kg	0.36	0.18	1	07/25/13 11:30	07/26/13 17:17	86-30-6	
Pentachlorophenol	**<1.8**	mg/kg	1.8	0.88	1	07/25/13 11:30	07/26/13 17:17	87-86-5	
Phenol	**<0.36**	mg/kg	0.36	0.18	1	07/25/13 11:30	07/26/13 17:17	108-95-2	
2,4,5-Trichlorophenol	**<0.36**	mg/kg	0.36	0.18	1	07/25/13 11:30	07/26/13 17:17	95-95-4	
2,4,6-Trichlorophenol	**<0.36**	mg/kg	0.36	0.18	1	07/25/13 11:30	07/26/13 17:17	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	57	%.	28-101		1	07/25/13 11:30	07/26/13 17:17	4165-60-0	
2-Fluorobiphenyl (S)	64	%.	31-94		1	07/25/13 11:30	07/26/13 17:17	321-60-8	
p-Terphenyl-d14 (S)	78	%.	26-110		1	07/25/13 11:30	07/26/13 17:17	1718-51-0	
Phenol-d5 (S)	53	%.	28-101		1	07/25/13 11:30	07/26/13 17:17	4165-62-2	
2-Fluorophenol (S)	55	%.	24-104		1	07/25/13 11:30	07/26/13 17:17	367-12-4	
2,4,6-Tribromophenol (S)	64	%.	16-122		1	07/25/13 11:30	07/26/13 17:17	118-79-6	
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	**<0.10**	mg/kg	0.10	0.050	1		07/27/13 09:33	67-64-1	
Acrolein	**<0.10**	mg/kg	0.10	0.050	1		07/27/13 09:33	107-02-8	
Acrylonitrile	**<0.10**	mg/kg	0.10	0.050	1		07/27/13 09:33	107-13-1	
Benzene	**<0.0050**	mg/kg	0.0050	0.0010	1		07/27/13 09:33	71-43-2	
Bromobenzene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	108-86-1	
Bromochloromethane	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	74-97-5	
Bromodichloromethane	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	75-27-4	
Bromoform	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	75-25-2	
Bromomethane	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	74-83-9	

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ANALYTICAL RESULTS

Project: Jacobsville RA
Pace Project No.: 5084026

Sample: JRA-STAUB4-072313 **Lab ID: 5084026004** Collected: 07/23/13 09:28 Received: 07/24/13 10:54 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
2-Butanone (MEK)	**<0.025**	mg/kg	0.025	0.012	1		07/27/13 09:33	78-93-3	
n-Butylbenzene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	104-51-8	
sec-Butylbenzene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	135-98-8	
tert-Butylbenzene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	98-06-6	
Carbon disulfide	**<0.010**	mg/kg	0.010	0.0025	1		07/27/13 09:33	75-15-0	
Carbon tetrachloride	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	56-23-5	
Chlorobenzene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	108-90-7	
Chloroethane	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	75-00-3	
Chloroform	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	67-66-3	
Chloromethane	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	74-87-3	
2-Chlorotoluene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	95-49-8	
4-Chlorotoluene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	106-43-4	
Dibromochloromethane	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	124-48-1	
1,2-Dibromoethane (EDB)	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	106-93-4	
Dibromomethane	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	74-95-3	
1,2-Dichlorobenzene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	95-50-1	
1,3-Dichlorobenzene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	541-73-1	
1,4-Dichlorobenzene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	106-46-7	
trans-1,4-Dichloro-2-butene	**<0.10**	mg/kg	0.10	0.050	1		07/27/13 09:33	110-57-6	
Dichlorodifluoromethane	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	75-71-8	
1,1-Dichloroethane	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	75-34-3	
1,2-Dichloroethane	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	107-06-2	
1,1-Dichloroethene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	75-35-4	
cis-1,2-Dichloroethene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	156-59-2	
trans-1,2-Dichloroethene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	156-60-5	
1,2-Dichloropropane	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	78-87-5	
1,3-Dichloropropane	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	142-28-9	
2,2-Dichloropropane	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	594-20-7	
1,1-Dichloropropene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	563-58-6	
cis-1,3-Dichloropropene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	10061-01-5	
trans-1,3-Dichloropropene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	10061-02-6	
Ethylbenzene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	100-41-4	
Ethyl methacrylate	**<0.10**	mg/kg	0.10	0.050	1		07/27/13 09:33	97-63-2	
Hexachloro-1,3-butadiene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	87-68-3	
n-Hexane	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	110-54-3	N2
2-Hexanone	**<0.10**	mg/kg	0.10	0.050	1		07/27/13 09:33	591-78-6	
Iodomethane	**<0.10**	mg/kg	0.10	0.050	1		07/27/13 09:33	74-88-4	
Isopropylbenzene (Cumene)	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	98-82-8	
p-Isopropyltoluene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	99-87-6	
Methylene Chloride	**<0.020**	mg/kg	0.020	0.010	1		07/27/13 09:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.025**	mg/kg	0.025	0.012	1		07/27/13 09:33	108-10-1	
Methyl-tert-butyl ether	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	1634-04-4	
Naphthalene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	91-20-3	
n-Propylbenzene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	103-65-1	
Styrene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	100-42-5	

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ANALYTICAL RESULTS

Project: Jacobsville RA
Pace Project No.: 5084026

Sample: JRA-STAUB4-072313 **Lab ID: 5084026004** Collected: 07/23/13 09:28 Received: 07/24/13 10:54 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	79-34-5	
Tetrachloroethene	**<0.0050**	mg/kg	0.0050	0.0014	1		07/27/13 09:33	127-18-4	
Toluene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	108-88-3	
1,2,3-Trichlorobenzene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	87-61-6	
1,2,4-Trichlorobenzene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	120-82-1	
1,1,1-Trichloroethane	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	71-55-6	
1,1,2-Trichloroethane	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	79-00-5	
Trichloroethene	**<0.0050**	mg/kg	0.0050	0.0010	1		07/27/13 09:33	79-01-6	
Trichlorofluoromethane	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	75-69-4	
1,2,3-Trichloropropane	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	96-18-4	
1,2,4-Trimethylbenzene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	95-63-6	
1,3,5-Trimethylbenzene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	108-67-8	
Vinyl acetate	**<0.10**	mg/kg	0.10	0.050	1		07/27/13 09:33	108-05-4	
Vinyl chloride	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 09:33	75-01-4	
Xylene (Total)	**<0.010**	mg/kg	0.010	0.0050	1		07/27/13 09:33	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	104	%.	85-118		1		07/27/13 09:33	1868-53-7	
Toluene-d8 (S)	108	%.	71-128		1		07/27/13 09:33	2037-26-5	
4-Bromofluorobenzene (S)	92	%.	56-144		1		07/27/13 09:33	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**9.6**	%	0.10	0.10	1		07/24/13 17:44		
9045 pH Soil	Analytical Method: EPA 9045								
pH at 25 Degrees C	**7.5**	Std. Units	0.10		1		07/26/13 11:06		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Jacobsville RA
Pace Project No.: 5084026

Sample: Trip Blank **Lab ID: 5084026005** Collected: 07/23/13 08:00 Received: 07/24/13 10:54 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	**<0.10**	mg/kg	0.10	0.050	1		07/27/13 10:11	67-64-1	
Acrolein	**<0.10**	mg/kg	0.10	0.050	1		07/27/13 10:11	107-02-8	
Acrylonitrile	**<0.10**	mg/kg	0.10	0.050	1		07/27/13 10:11	107-13-1	
Benzene	**<0.0050**	mg/kg	0.0050	0.0010	1		07/27/13 10:11	71-43-2	
Bromobenzene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	108-86-1	
Bromochloromethane	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	74-97-5	
Bromodichloromethane	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	75-27-4	
Bromoform	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	75-25-2	
Bromomethane	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	74-83-9	
2-Butanone (MEK)	**<0.025**	mg/kg	0.025	0.012	1		07/27/13 10:11	78-93-3	
n-Butylbenzene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	104-51-8	
sec-Butylbenzene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	135-98-8	
tert-Butylbenzene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	98-06-6	
Carbon disulfide	**<0.010**	mg/kg	0.010	0.0025	1		07/27/13 10:11	75-15-0	
Carbon tetrachloride	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	56-23-5	
Chlorobenzene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	108-90-7	
Chloroethane	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	75-00-3	
Chloroform	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	67-66-3	
Chloromethane	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	74-87-3	
2-Chlorotoluene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	95-49-8	
4-Chlorotoluene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	106-43-4	
Dibromochloromethane	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	124-48-1	
1,2-Dibromoethane (EDB)	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	106-93-4	
Dibromomethane	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	74-95-3	
1,2-Dichlorobenzene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	95-50-1	
1,3-Dichlorobenzene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	541-73-1	
1,4-Dichlorobenzene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	106-46-7	
trans-1,4-Dichloro-2-butene	**<0.10**	mg/kg	0.10	0.050	1		07/27/13 10:11	110-57-6	
Dichlorodifluoromethane	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	75-71-8	
1,1-Dichloroethane	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	75-34-3	
1,2-Dichloroethane	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	107-06-2	
1,1-Dichloroethene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	75-35-4	
cis-1,2-Dichloroethene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	156-59-2	
trans-1,2-Dichloroethene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	156-60-5	
1,2-Dichloropropane	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	78-87-5	
1,3-Dichloropropane	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	142-28-9	
2,2-Dichloropropane	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	594-20-7	
1,1-Dichloropropene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	563-58-6	
cis-1,3-Dichloropropene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	10061-01-5	
trans-1,3-Dichloropropene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	10061-02-6	
Ethylbenzene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	100-41-4	
Ethyl methacrylate	**<0.10**	mg/kg	0.10	0.050	1		07/27/13 10:11	97-63-2	
Hexachloro-1,3-butadiene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	87-68-3	
n-Hexane	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	110-54-3	N2
2-Hexanone	**<0.10**	mg/kg	0.10	0.050	1		07/27/13 10:11	591-78-6	

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ANALYTICAL RESULTS

Project: Jacobsville RA
Pace Project No.: 5084026

Sample: Trip Blank **Lab ID: 5084026005** Collected: 07/23/13 08:00 Received: 07/24/13 10:54 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Iodomethane	**<0.10**	mg/kg	0.10	0.050	1		07/27/13 10:11	74-88-4	
Isopropylbenzene (Cumene)	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	98-82-8	
p-Isopropyltoluene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	99-87-6	
Methylene Chloride	**<0.020**	mg/kg	0.020	0.010	1		07/27/13 10:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.025**	mg/kg	0.025	0.012	1		07/27/13 10:11	108-10-1	
Methyl-tert-butyl ether	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	1634-04-4	
Naphthalene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	91-20-3	
n-Propylbenzene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	103-65-1	
Styrene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	79-34-5	
Tetrachloroethene	**<0.0050**	mg/kg	0.0050	0.0014	1		07/27/13 10:11	127-18-4	
Toluene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	108-88-3	
1,2,3-Trichlorobenzene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	87-61-6	
1,2,4-Trichlorobenzene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	120-82-1	
1,1,1-Trichloroethane	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	71-55-6	
1,1,2-Trichloroethane	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	79-00-5	
Trichloroethene	**<0.0050**	mg/kg	0.0050	0.0010	1		07/27/13 10:11	79-01-6	
Trichlorofluoromethane	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	75-69-4	
1,2,3-Trichloropropane	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	96-18-4	
1,2,4-Trimethylbenzene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	95-63-6	
1,3,5-Trimethylbenzene	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	108-67-8	
Vinyl acetate	**<0.10**	mg/kg	0.10	0.050	1		07/27/13 10:11	108-05-4	
Vinyl chloride	**<0.0050**	mg/kg	0.0050	0.0025	1		07/27/13 10:11	75-01-4	
Xylene (Total)	**<0.010**	mg/kg	0.010	0.0050	1		07/27/13 10:11	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	115	%.	85-118		1		07/27/13 10:11	1868-53-7	
Toluene-d8 (S)	99	%.	71-128		1		07/27/13 10:11	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	56-144		1		07/27/13 10:11	460-00-4	

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QUALITY CONTROL DATA

Project: Jacobsville RA
Pace Project No.: 5084026

QC Batch: MERP/4788 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 5084026001, 5084026002, 5084026003, 5084026004

METHOD BLANK: 953400 Matrix: Solid
Associated Lab Samples: 5084026001, 5084026002, 5084026003, 5084026004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.20	0.20	07/29/13 12:05	

LABORATORY CONTROL SAMPLE: 953401

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.5	0.49	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 953402 953403

Parameter	Units	5084026001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	<0.26	.61	.61	0.81	0.80	101	97	75-125	2	20	

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QUALITY CONTROL DATA

Project: Jacobsville RA
Pace Project No.: 5084026

QC Batch: MPRP/11731 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 5084026001, 5084026002, 5084026003, 5084026004

METHOD BLANK: 952782 Matrix: Solid
Associated Lab Samples: 5084026001, 5084026002, 5084026003, 5084026004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<2.0	2.0	07/25/13 11:15	
Barium	mg/kg	<2.0	2.0	07/25/13 11:15	
Cadmium	mg/kg	<2.0	2.0	07/25/13 11:15	
Chromium	mg/kg	<2.0	2.0	07/25/13 11:15	
Lead	mg/kg	<2.0	2.0	07/25/13 11:15	
Selenium	mg/kg	<2.0	2.0	07/25/13 11:15	
Silver	mg/kg	<2.0	2.0	07/25/13 11:15	

LABORATORY CONTROL SAMPLE: 952783

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	52.6	105	80-120	
Barium	mg/kg	50	51.6	103	80-120	
Cadmium	mg/kg	50	49.9	100	80-120	
Chromium	mg/kg	50	49.1	98	80-120	
Lead	mg/kg	50	49.6	99	80-120	
Selenium	mg/kg	50	50.0	100	80-120	
Silver	mg/kg	25	23.2	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 952784 952785

Parameter	Units	5084020004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	6.0	50.5	49.6	56.9	57.0	101	103	75-125	0	20	
Barium	mg/kg	39.2	50.5	49.6	90.3	96.6	101	116	75-125	7	20	
Cadmium	mg/kg	ND	50.5	49.6	49.6	49.7	98	100	75-125	0	20	
Chromium	mg/kg	8.3	50.5	49.6	51.7	51.9	86	88	75-125	0	20	
Lead	mg/kg	5.7	50.5	49.6	45.3	45.1	79	80	75-125	0	20	
Selenium	mg/kg	ND	50.5	49.6	47.5	47.7	94	96	75-125	0	20	
Silver	mg/kg	ND	25.3	24.7	21.7	21.6	86	87	75-125	1	20	

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QUALITY CONTROL DATA

Project: Jacobsville RA
Pace Project No.: 5084026

QC Batch: MSV/55635 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 5084026001, 5084026002, 5084026003, 5084026004, 5084026005

METHOD BLANK: 954664 Matrix: Solid
Associated Lab Samples: 5084026001, 5084026002, 5084026003, 5084026004, 5084026005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	<0.0050	0.0050	07/27/13 07:01	
1,1,1-Trichloroethane	mg/kg	<0.0050	0.0050	07/27/13 07:01	
1,1,2,2-Tetrachloroethane	mg/kg	<0.0050	0.0050	07/27/13 07:01	
1,1,2-Trichloroethane	mg/kg	<0.0050	0.0050	07/27/13 07:01	
1,1-Dichloroethane	mg/kg	<0.0050	0.0050	07/27/13 07:01	
1,1-Dichloroethene	mg/kg	<0.0050	0.0050	07/27/13 07:01	
1,1-Dichloropropene	mg/kg	<0.0050	0.0050	07/27/13 07:01	
1,2,3-Trichlorobenzene	mg/kg	<0.0050	0.0050	07/27/13 07:01	
1,2,3-Trichloropropane	mg/kg	<0.0050	0.0050	07/27/13 07:01	
1,2,4-Trichlorobenzene	mg/kg	<0.0050	0.0050	07/27/13 07:01	
1,2,4-Trimethylbenzene	mg/kg	<0.0050	0.0050	07/27/13 07:01	
1,2-Dibromoethane (EDB)	mg/kg	<0.0050	0.0050	07/27/13 07:01	
1,2-Dichlorobenzene	mg/kg	<0.0050	0.0050	07/27/13 07:01	
1,2-Dichloroethane	mg/kg	<0.0050	0.0050	07/27/13 07:01	
1,2-Dichloropropane	mg/kg	<0.0050	0.0050	07/27/13 07:01	
1,3,5-Trimethylbenzene	mg/kg	<0.0050	0.0050	07/27/13 07:01	
1,3-Dichlorobenzene	mg/kg	<0.0050	0.0050	07/27/13 07:01	
1,3-Dichloropropane	mg/kg	<0.0050	0.0050	07/27/13 07:01	
1,4-Dichlorobenzene	mg/kg	<0.0050	0.0050	07/27/13 07:01	
2,2-Dichloropropane	mg/kg	<0.0050	0.0050	07/27/13 07:01	
2-Butanone (MEK)	mg/kg	<0.025	0.025	07/27/13 07:01	
2-Chlorotoluene	mg/kg	<0.0050	0.0050	07/27/13 07:01	
2-Hexanone	mg/kg	<0.10	0.10	07/27/13 07:01	
4-Chlorotoluene	mg/kg	<0.0050	0.0050	07/27/13 07:01	
4-Methyl-2-pentanone (MIBK)	mg/kg	<0.025	0.025	07/27/13 07:01	
Acetone	mg/kg	<0.10	0.10	07/27/13 07:01	
Acrolein	mg/kg	<0.10	0.10	07/27/13 07:01	
Acrylonitrile	mg/kg	<0.10	0.10	07/27/13 07:01	
Benzene	mg/kg	<0.0050	0.0050	07/27/13 07:01	
Bromobenzene	mg/kg	<0.0050	0.0050	07/27/13 07:01	
Bromochloromethane	mg/kg	<0.0050	0.0050	07/27/13 07:01	
Bromodichloromethane	mg/kg	<0.0050	0.0050	07/27/13 07:01	
Bromoform	mg/kg	<0.0050	0.0050	07/27/13 07:01	
Bromomethane	mg/kg	<0.0050	0.0050	07/27/13 07:01	
Carbon disulfide	mg/kg	<0.010	0.010	07/27/13 07:01	
Carbon tetrachloride	mg/kg	<0.0050	0.0050	07/27/13 07:01	
Chlorobenzene	mg/kg	<0.0050	0.0050	07/27/13 07:01	
Chloroethane	mg/kg	<0.0050	0.0050	07/27/13 07:01	
Chloroform	mg/kg	<0.0050	0.0050	07/27/13 07:01	
Chloromethane	mg/kg	<0.0050	0.0050	07/27/13 07:01	
cis-1,2-Dichloroethene	mg/kg	<0.0050	0.0050	07/27/13 07:01	
cis-1,3-Dichloropropene	mg/kg	<0.0050	0.0050	07/27/13 07:01	
Dibromochloromethane	mg/kg	<0.0050	0.0050	07/27/13 07:01	

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QUALITY CONTROL DATA

Project: Jacobsville RA
Pace Project No.: 5084026

METHOD BLANK: 954664 Matrix: Solid

Associated Lab Samples: 5084026001, 5084026002, 5084026003, 5084026004, 5084026005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	mg/kg	<0.0050	0.0050	07/27/13 07:01	
Dichlorodifluoromethane	mg/kg	<0.0050	0.0050	07/27/13 07:01	
Ethyl methacrylate	mg/kg	<0.10	0.10	07/27/13 07:01	
Ethylbenzene	mg/kg	<0.0050	0.0050	07/27/13 07:01	
Hexachloro-1,3-butadiene	mg/kg	<0.0050	0.0050	07/27/13 07:01	
Iodomethane	mg/kg	<0.10	0.10	07/27/13 07:01	
Isopropylbenzene (Cumene)	mg/kg	<0.0050	0.0050	07/27/13 07:01	
Methyl-tert-butyl ether	mg/kg	<0.0050	0.0050	07/27/13 07:01	
Methylene Chloride	mg/kg	0.013J	0.020	07/27/13 07:01	
n-Butylbenzene	mg/kg	<0.0050	0.0050	07/27/13 07:01	
n-Hexane	mg/kg	<0.0050	0.0050	07/27/13 07:01	N2
n-Propylbenzene	mg/kg	<0.0050	0.0050	07/27/13 07:01	
Naphthalene	mg/kg	<0.0050	0.0050	07/27/13 07:01	
p-Isopropyltoluene	mg/kg	<0.0050	0.0050	07/27/13 07:01	
sec-Butylbenzene	mg/kg	<0.0050	0.0050	07/27/13 07:01	
Styrene	mg/kg	<0.0050	0.0050	07/27/13 07:01	
tert-Butylbenzene	mg/kg	<0.0050	0.0050	07/27/13 07:01	
Tetrachloroethene	mg/kg	<0.0050	0.0050	07/27/13 07:01	
Toluene	mg/kg	<0.0050	0.0050	07/27/13 07:01	
trans-1,2-Dichloroethene	mg/kg	<0.0050	0.0050	07/27/13 07:01	
trans-1,3-Dichloropropene	mg/kg	<0.0050	0.0050	07/27/13 07:01	
trans-1,4-Dichloro-2-butene	mg/kg	<0.10	0.10	07/27/13 07:01	
Trichloroethene	mg/kg	<0.0050	0.0050	07/27/13 07:01	
Trichlorofluoromethane	mg/kg	<0.0050	0.0050	07/27/13 07:01	
Vinyl acetate	mg/kg	<0.10	0.10	07/27/13 07:01	
Vinyl chloride	mg/kg	<0.0050	0.0050	07/27/13 07:01	
Xylene (Total)	mg/kg	<0.010	0.010	07/27/13 07:01	
4-Bromofluorobenzene (S)	%.	111	56-144	07/27/13 07:01	
Dibromofluoromethane (S)	%.	88	85-118	07/27/13 07:01	
Toluene-d8 (S)	%.	96	71-128	07/27/13 07:01	

LABORATORY CONTROL SAMPLE: 954665

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	.05	0.042	85	62-123	
1,1,1-Trichloroethane	mg/kg	.05	0.044	87	70-123	
1,1,2,2-Tetrachloroethane	mg/kg	.05	0.050	99	65-124	
1,1,2-Trichloroethane	mg/kg	.05	0.046	91	74-129	
1,1-Dichloroethane	mg/kg	.05	0.040	80	73-130	
1,1-Dichloroethene	mg/kg	.05	0.045	90	66-126	
1,1-Dichloropropene	mg/kg	.05	0.049	98	78-125	
1,2,3-Trichlorobenzene	mg/kg	.05	0.037	74	66-131	
1,2,3-Trichloropropane	mg/kg	.05	0.053	106	44-157	
1,2,4-Trichlorobenzene	mg/kg	.05	0.039	77	68-129	
1,2,4-Trimethylbenzene	mg/kg	.05	0.043	85	67-126	

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QUALITY CONTROL DATA

Project: Jacobsville RA
Pace Project No.: 5084026

LABORATORY CONTROL SAMPLE: 954665

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	mg/kg	.05	0.046	92	74-120	
1,2-Dichlorobenzene	mg/kg	.05	0.043	85	73-122	
1,2-Dichloroethane	mg/kg	.05	0.042	85	73-127	
1,2-Dichloropropane	mg/kg	.05	0.053	106	75-118	
1,3,5-Trimethylbenzene	mg/kg	.05	0.045	90	65-127	
1,3-Dichlorobenzene	mg/kg	.05	0.040	81	73-121	
1,3-Dichloropropane	mg/kg	.05	0.047	95	72-121	
1,4-Dichlorobenzene	mg/kg	.05	0.040	80	75-119	
2,2-Dichloropropane	mg/kg	.05	0.038	76	63-122	
2-Butanone (MEK)	mg/kg	.25	0.21	82	59-139	
2-Chlorotoluene	mg/kg	.05	0.047	95	72-121	
2-Hexanone	mg/kg	.25	0.22	89	56-139	
4-Chlorotoluene	mg/kg	.05	0.047	95	75-123	
4-Methyl-2-pentanone (MIBK)	mg/kg	.25	0.23	94	63-136	
Acetone	mg/kg	.25	0.23	94	46-156	
Acrolein	mg/kg	1	1.9	195	47-200	
Acrylonitrile	mg/kg	1	0.92	92	67-130	
Benzene	mg/kg	.05	0.042	83	74-119	
Bromobenzene	mg/kg	.05	0.048	95	69-129	
Bromochloromethane	mg/kg	.05	0.051	101	67-129	
Bromodichloromethane	mg/kg	.05	0.048	96	68-121	
Bromoform	mg/kg	.05	0.045	90	49-124	
Bromomethane	mg/kg	.05	0.051	102	44-142	
Carbon disulfide	mg/kg	.1	0.096	96	61-129	
Carbon tetrachloride	mg/kg	.05	0.044	88	58-127	
Chlorobenzene	mg/kg	.05	0.042	84	77-122	
Chloroethane	mg/kg	.05	0.053	106	59-141	
Chloroform	mg/kg	.05	0.042	84	75-124	
Chloromethane	mg/kg	.05	0.050	99	46-133	
cis-1,2-Dichloroethene	mg/kg	.05	0.041	82	72-122	
cis-1,3-Dichloropropene	mg/kg	.05	0.044	89	68-115	
Dibromochloromethane	mg/kg	.05	0.043	86	60-121	
Dibromomethane	mg/kg	.05	0.046	92	72-124	
Dichlorodifluoromethane	mg/kg	.05	0.066	133	26-186	
Ethyl methacrylate	mg/kg	.2	0.20	98	63-130	
Ethylbenzene	mg/kg	.05	0.045	90	72-123	
Hexachloro-1,3-butadiene	mg/kg	.05	0.038	75	55-139	
Iodomethane	mg/kg	.1	0.11	106	38-149	
Isopropylbenzene (Cumene)	mg/kg	.05	0.049	98	65-123	
Methyl-tert-butyl ether	mg/kg	.1	0.093	93	68-120	
Methylene Chloride	mg/kg	.05	0.051	103	57-142	
n-Butylbenzene	mg/kg	.05	0.041	82	68-125	
n-Hexane	mg/kg	.05	0.044	88	57-117	N2
n-Propylbenzene	mg/kg	.05	0.047	95	68-122	
Naphthalene	mg/kg	.05	0.043	86	67-131	
p-Isopropyltoluene	mg/kg	.05	0.044	87	66-133	
sec-Butylbenzene	mg/kg	.05	0.045	90	64-131	
Styrene	mg/kg	.05	0.043	87	70-126	

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QUALITY CONTROL DATA

Project: Jacobsville RA
Pace Project No.: 5084026

LABORATORY CONTROL SAMPLE: 954665

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	mg/kg	.05	0.036	72	46-124	
Tetrachloroethene	mg/kg	.05	0.036	73	72-126	
Toluene	mg/kg	.05	0.041	83	71-121	
trans-1,2-Dichloroethene	mg/kg	.05	0.046	92	69-123	
trans-1,3-Dichloropropene	mg/kg	.05	0.043	87	66-114	
trans-1,4-Dichloro-2-butene	mg/kg	.2	0.20	98	61-124	
Trichloroethene	mg/kg	.05	0.045	91	74-123	
Trichlorofluoromethane	mg/kg	.05	0.064	127	72-146	
Vinyl acetate	mg/kg	.2	0.21	106	57-131	
Vinyl chloride	mg/kg	.05	0.060	121	55-128	
Xylene (Total)	mg/kg	.15	0.13	87	66-124	
4-Bromofluorobenzene (S)	%.			111	56-144	
Dibromofluoromethane (S)	%.			101	85-118	
Toluene-d8 (S)	%.			101	71-128	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 954666 954667

Parameter	Units	5083561002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	mg/kg	ND	.038	.036	0.024	0.026	65	70	10-129	5	20	
1,1,1-Trichloroethane	mg/kg	ND	.038	.036	0.051	0.047	135	128	26-143	7	20	
1,1,2,2-Tetrachloroethane	mg/kg	ND	.038	.036	0.030	0.030	81	82	10-156	0	20	
1,1,2-Trichloroethane	mg/kg	ND	.038	.036	0.034	0.031	92	85	13-156	9	20	
1,1-Dichloroethane	mg/kg	ND	.038	.036	0.054	0.040	145	109	36-150	30	20	
1,1-Dichloroethene	mg/kg	ND	.038	.036	0.077	0.053	206	145	31-146	37	20	
1,1-Dichloropropene	mg/kg	ND	.038	.036	0.041	0.047	111	127	26-145	12	20	
1,2,3-Trichlorobenzene	mg/kg	ND	.038	.036	0.0042	0.0057	11	16	10-119	31	20	
1,2,3-Trichloropropane	mg/kg	ND	.038	.036	0.035	0.035	94	94	10-168	2	20	
1,2,4-Trichlorobenzene	mg/kg	ND	.038	.036	0.0052	0.0073	14	20	10-122	34	20	
1,2,4-Trimethylbenzene	mg/kg	ND	.038	.036	0.035	0.039	85	98	10-139	12	20	
1,2-Dibromoethane (EDB)	mg/kg	ND	.038	.036	0.023	0.020	62	55	15-136	14	20	
1,2-Dichlorobenzene	mg/kg	ND	.038	.036	0.012	0.013	32	36	10-132	11	20	
1,2-Dichloroethane	mg/kg	ND	.038	.036	0.033	0.032	89	89	30-140	3	20	
1,2-Dichloropropane	mg/kg	ND	.038	.036	0.041	0.035	109	96	29-135	15	20	
1,3,5-Trimethylbenzene	mg/kg	ND	.038	.036	0.049	0.056	131	153	10-143	13	20	
1,3-Dichlorobenzene	mg/kg	ND	.038	.036	0.015	0.019	41	52	10-130	22	20	
1,3-Dichloropropane	mg/kg	ND	.038	.036	0.027	0.029	72	78	17-139	6	20	
1,4-Dichlorobenzene	mg/kg	ND	.038	.036	0.012	0.017	33	47	10-128	34	20	
2,2-Dichloropropane	mg/kg	ND	.038	.036	0.056	0.045	149	122	29-136	22	20	
2-Butanone (MEK)	mg/kg	ND	.19	.19	0.33	0.25	174	135	22-176	27	20	
2-Chlorotoluene	mg/kg	ND	.038	.036	0.036	0.042	96	114	10-146	15	20	
2-Hexanone	mg/kg	ND	.19	.19	0.19	0.15	102	83	12-165	23	20	
4-Chlorotoluene	mg/kg	ND	.038	.036	0.026	0.032	68	88	10-138	24	20	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	.19	.19	0.29	0.28	156	155	22-155	3	20	
Acetone	mg/kg	ND	.19	.19	0.60	0.33	315	175	11-200	58	20	
Acrolein	mg/kg	ND	.75	.73	1.2	1.0	156	141	10-200	12	20	
Acrylonitrile	mg/kg	ND	.75	.73	1.6	1.0	208	141	20-150	40	20	

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QUALITY CONTROL DATA

Project: Jacobsville RA
Pace Project No.: 5084026

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 954666 954667

Parameter	Units	5083561002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	mg/kg	ND	.038	.036	0.034	0.036	90	99	27-140	7	20	
Bromobenzene	mg/kg	ND	.038	.036	0.0095	0.014	25	38	10-133	37	20	
Bromochloromethane	mg/kg	ND	.038	.036	0.058	0.053	157	144	28-142	10	20	
Bromodichloromethane	mg/kg	ND	.038	.036	0.018	0.018	49	49	13-139	2	20	
Bromoform	mg/kg	ND	.038	.036	0.012	0.014	32	39	10-122	17	20	
Bromomethane	mg/kg	ND	.038	.036	0.065	0.049	175	134	10-154	29	20	
Carbon disulfide	mg/kg	ND	.075	.073	0.14	0.10	187	140	20-142	31	20	
Carbon tetrachloride	mg/kg	ND	.038	.036	0.041	0.042	109	115	19-135	3	20	
Chlorobenzene	mg/kg	ND	.038	.036	0.020	0.023	54	63	10-136	15	20	
Chloroethane	mg/kg	ND	.038	.036	0.10	0.067	270	181	24-161	41	20	
Chloroform	mg/kg	ND	.038	.036	0.039	0.037	104	100	36-138	5	20	
Chloromethane	mg/kg	ND	.038	.036	0.11	0.065	282	178	28-143	47	20	
cis-1,2-Dichloroethene	mg/kg	ND	.038	.036	0.046	0.038	123	103	29-136	20	20	
cis-1,3-Dichloropropene	mg/kg	ND	.038	.036	0.024	0.025	64	69	10-130	6	20	
Dibromochloromethane	mg/kg	ND	.038	.036	0.012	0.014	33	39	10-124	14	20	
Dibromomethane	mg/kg	ND	.038	.036	0.040	0.027	107	75	24-136	37	20	
Dichlorodifluoromethane	mg/kg	ND	.038	.036	0.14	0.083	378	226	15-187	52	20	
Ethyl methacrylate	mg/kg	ND	.15	.14	0.11	0.12	77	80	10-147	2	20	
Ethylbenzene	mg/kg	ND	.038	.036	0.030	0.033	78	88	10-144	10	20	
Hexachloro-1,3-butadiene	mg/kg	ND	.038	.036	0.043	0.049	116	133	10-136	11	20	
Iodomethane	mg/kg	ND	.075	.073	0.099	0.076	132	104	10-155	26	20	
Isopropylbenzene (Cumene)	mg/kg	ND	.038	.036	0.036	0.045	97	122	10-134	20	20	
Methyl-tert-butyl ether	mg/kg	ND	.075	.073	0.16	0.11	211	153	30-147	34	20	
Methylene Chloride	mg/kg	ND	.038	.036	0.073	0.049	196	134	23-150	39	20	
n-Butylbenzene	mg/kg	ND	.038	.036	0.043	0.046	113	125	10-141	8	20	
n-Hexane	mg/kg	ND	.038	.036	0.055	0.046	146	126	10-140	17	20	N2
n-Propylbenzene	mg/kg	ND	.038	.036	0.053	0.062	142	169	10-143	15	20	
Naphthalene	mg/kg	26.7 ug/kg	.038	.036	0.0086	0.018	-48	-25	10-130	69	20	
p-Isopropyltoluene	mg/kg	ND	.038	.036	0.055	0.064	147	174	10-146	15	20	
sec-Butylbenzene	mg/kg	ND	.038	.036	0.070	0.069	188	189	10-150	1	20	
Styrene	mg/kg	ND	.038	.036	0.014	0.017	37	47	10-138	22	20	
tert-Butylbenzene	mg/kg	ND	.038	.036	0.070	0.058	188	159	10-135	18	20	
Tetrachloroethene	mg/kg	ND	.038	.036	0.044	0.045	117	123	10-153	4	20	
Toluene	mg/kg	ND	.038	.036	0.037	0.044	97	117	10-140	17	20	
trans-1,2-Dichloroethene	mg/kg	ND	.038	.036	0.059	0.044	159	120	28-139	30	20	
trans-1,3-Dichloropropene	mg/kg	ND	.038	.036	0.016	0.018	42	50	10-126	15	20	
trans-1,4-Dichloro-2-butene	mg/kg	ND	.15	.14	<0.075	<0.073	14	15	10-132		20	
Trichloroethene	mg/kg	ND	.038	.036	0.038	0.035	102	94	17-148	10	20	
Trichlorofluoromethane	mg/kg	ND	.038	.036	0.12	0.074	321	203	31-177	47	20	
Vinyl acetate	mg/kg	ND	.15	.14	0.17	0.088	115	60	10-131	64	20	
Vinyl chloride	mg/kg	ND	.038	.036	0.14	0.084	366	229	30-145	48	20	
Xylene (Total)	mg/kg	ND	.11	.11	0.077	0.096	68	88	10-143	23	20	
4-Bromofluorobenzene (S)	%.						70	83	56-144		20	
Dibromofluoromethane (S)	%.						102	95	85-118		20	3d,4d
Toluene-d8 (S)	%.						132	147	71-128		20	S2

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Jacobsville RA
Pace Project No.: 5084026

QC Batch: OEXT/19153 Analysis Method: EPA 8081
QC Batch Method: EPA 3550 Analysis Description: 8081 GCS Pesticides
Associated Lab Samples: 5084026001, 5084026002, 5084026003, 5084026004

METHOD BLANK: 828341 Matrix: Solid
Associated Lab Samples: 5084026001, 5084026002, 5084026003, 5084026004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4,4'-DDD	mg/kg	<0.0033	0.0033	07/26/13 16:35	
4,4'-DDE	mg/kg	<0.0033	0.0033	07/26/13 16:35	
4,4'-DDT	mg/kg	<0.0033	0.0033	07/26/13 16:35	
Aldrin	mg/kg	<0.0017	0.0017	07/26/13 16:35	
alpha-BHC	mg/kg	<0.0017	0.0017	07/26/13 16:35	
alpha-Chlordane	mg/kg	<0.0017	0.0017	07/26/13 16:35	
beta-BHC	mg/kg	<0.0017	0.0017	07/26/13 16:35	
Chlordane (Technical)	mg/kg	<0.033	0.033	07/26/13 16:35	
delta-BHC	mg/kg	<0.0017	0.0017	07/26/13 16:35	
Dieldrin	mg/kg	<0.0033	0.0033	07/26/13 16:35	
Endosulfan I	mg/kg	<0.0017	0.0017	07/26/13 16:35	
Endosulfan II	mg/kg	<0.0033	0.0033	07/26/13 16:35	
Endosulfan sulfate	mg/kg	<0.0033	0.0033	07/26/13 16:35	
Endrin	mg/kg	<0.0033	0.0033	07/26/13 16:35	
Endrin aldehyde	mg/kg	<0.0033	0.0033	07/26/13 16:35	
Endrin ketone	mg/kg	<0.0033	0.0033	07/26/13 16:35	
gamma-BHC (Lindane)	mg/kg	<0.0017	0.0017	07/26/13 16:35	
gamma-Chlordane	mg/kg	<0.0017	0.0017	07/26/13 16:35	
Heptachlor	mg/kg	<0.0017	0.0017	07/26/13 16:35	
Heptachlor epoxide	mg/kg	<0.0017	0.0017	07/26/13 16:35	
Methoxychlor	mg/kg	<0.017	0.017	07/26/13 16:35	
Toxaphene	mg/kg	<0.10	0.10	07/26/13 16:35	
Decachlorobiphenyl (S)	%	76	40-130	07/26/13 16:35	
Tetrachloro-m-xylene (S)	%	68	37-130	07/26/13 16:35	

LABORATORY CONTROL SAMPLE: 828342

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4,4'-DDD	mg/kg	.027	0.021	80	32-130	
4,4'-DDE	mg/kg	.027	0.022	83	38-130	
4,4'-DDT	mg/kg	.027	0.023	87	37-130	
Aldrin	mg/kg	.013	0.011	83	31-130	
alpha-BHC	mg/kg	.013	0.012	90	36-130	
alpha-Chlordane	mg/kg	.013	0.011	83	33-130	
beta-BHC	mg/kg	.013	0.0082	62	31-130	
Chlordane (Technical)	mg/kg		<0.033			
delta-BHC	mg/kg	.013	0.011	83	10-130	
Dieldrin	mg/kg	.027	0.021	77	34-130	
Endosulfan I	mg/kg	.013	0.012	87	29-130	
Endosulfan II	mg/kg	.027	0.022	81	33-130	
Endosulfan sulfate	mg/kg	.027	0.022	82	31-130	

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QUALITY CONTROL DATA

Project: Jacobsville RA
Pace Project No.: 5084026

LABORATORY CONTROL SAMPLE: 828342

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Endrin	mg/kg	.027	0.022	81	34-130	
Endrin aldehyde	mg/kg	.027	0.019	71	27-130	
Endrin ketone	mg/kg	.027	0.021	78	36-130	
gamma-BHC (Lindane)	mg/kg	.013	0.011	86	38-130	
gamma-Chlordane	mg/kg	.013	0.010	75	29-130	
Heptachlor	mg/kg	.013	0.010	77	35-130	
Heptachlor epoxide	mg/kg	.013	0.011	83	36-130	
Methoxychlor	mg/kg	.13	0.11	80	34-130	
Toxaphene	mg/kg		<0.10			
Decachlorobiphenyl (S)	%			87	40-130	
Tetrachloro-m-xylene (S)	%			78	37-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 828343 828344

Parameter	Units	5084026001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
4,4'-DDD	mg/kg	<0.0043	.0344	.0344	0.024	0.022	71	66	36-130	7	36	
4,4'-DDE	mg/kg	0.0019J	.0344	.0344	0.024	0.023	66	62	30-130	5	41	
4,4'-DDT	mg/kg	0.0076	.0344	.0344	0.030	0.027	67	57	37-130	11	36	
Aldrin	mg/kg	<0.0021	.0166	.0166	0.011	0.011	66	64	31-130	2	36	
alpha-BHC	mg/kg	<0.0021	.0166	.0166	0.013	0.012	76	73	30-130	4	39	
alpha-Chlordane	mg/kg	0.0012J	.0166	.0166	0.013	0.012	70	63	33-130	9	35	
beta-BHC	mg/kg	<0.0021	.0166	.0166	0.011	0.0090	67	53	31-130	24	32	C2
Chlordane (Technical)	mg/kg	0.013J			<0.043	<0.043					20	
delta-BHC	mg/kg	<0.0021	.0166	.0166	0.014	0.014	80	80	10-130	1	38	
Dieldrin	mg/kg	<0.0043	.0344	.0344	0.025	0.024	73	70	34-130	4	36	
Endosulfan I	mg/kg	<0.0021	.0166	.0166	0.012	0.011	72	66	29-130	8	35	
Endosulfan II	mg/kg	<0.0043	.0344	.0344	0.024	0.022	71	66	33-130	8	33	
Endosulfan sulfate	mg/kg	<0.0043	.0344	.0344	0.024	0.022	70	66	31-130	6	36	
Endrin	mg/kg	<0.0043	.0344	.0344	0.023	0.022	67	64	34-130	5	38	
Endrin aldehyde	mg/kg	0.0015J	.0344	.0344	0.024	0.021	65	59	27-130	10	37	
Endrin ketone	mg/kg	<0.0043	.0344	.0344	0.023	0.022	69	65	36-130	6	38	
gamma-BHC (Lindane)	mg/kg	<0.0021	.0166	.0166	0.012	0.012	73	70	38-130	4	36	
gamma-Chlordane	mg/kg	0.00065 J	.0166	.0166	0.012	0.011	66	61	29-130	8	36	
Heptachlor	mg/kg	<0.0021	.0166	.0166	0.011	0.010	62	62	35-130	1	33	
Heptachlor epoxide	mg/kg	<0.0021	.0166	.0166	0.012	0.011	70	67	33-130	6	34	
Methoxychlor	mg/kg	<0.021	.166	.166	0.12	0.11	68	64	34-130	6	32	
Toxaphene	mg/kg	<0.13			<0.13	<0.13					20	
Decachlorobiphenyl (S)	%						67	67	40-130			
Tetrachloro-m-xylene (S)	%						64	63	37-130			

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QUALITY CONTROL DATA

Project: Jacobsville RA
Pace Project No.: 5084026

QC Batch: OEXT/33419 Analysis Method: EPA 8082
QC Batch Method: EPA 3546 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 5084026001, 5084026002, 5084026003, 5084026004

METHOD BLANK: 953152 Matrix: Solid
Associated Lab Samples: 5084026001, 5084026002, 5084026003, 5084026004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	mg/kg	<0.10	0.10	07/26/13 14:09	
PCB-1221 (Aroclor 1221)	mg/kg	<0.10	0.10	07/26/13 14:09	
PCB-1232 (Aroclor 1232)	mg/kg	<0.10	0.10	07/26/13 14:09	
PCB-1242 (Aroclor 1242)	mg/kg	<0.10	0.10	07/26/13 14:09	
PCB-1248 (Aroclor 1248)	mg/kg	<0.10	0.10	07/26/13 14:09	
PCB-1254 (Aroclor 1254)	mg/kg	<0.10	0.10	07/26/13 14:09	
PCB-1260 (Aroclor 1260)	mg/kg	<0.10	0.10	07/26/13 14:09	
Tetrachloro-m-xylene (S)	%.	73	30-106	07/26/13 14:09	

LABORATORY CONTROL SAMPLE: 953153

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	mg/kg	.17	0.16	95	42-100	
PCB-1260 (Aroclor 1260)	mg/kg	.17	0.14	85	40-106	
Tetrachloro-m-xylene (S)	%.			92	30-106	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 953154 953155

Parameter	Units	5083823001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	mg/kg	ND	.2	.2	0.16	0.16	82	81	10-145	1	20	
PCB-1260 (Aroclor 1260)	mg/kg	ND	.2	.2	0.17	0.16	85	85	16-132	1	20	
Tetrachloro-m-xylene (S)	%.						70	72	30-106		20	

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QUALITY CONTROL DATA

Project: Jacobsville RA
Pace Project No.: 5084026

QC Batch: OEXT/33411 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270 MSSV PAH by SIM
Associated Lab Samples: 5084026001, 5084026002, 5084026003, 5084026004

METHOD BLANK: 952833 Matrix: Solid
Associated Lab Samples: 5084026001, 5084026002, 5084026003, 5084026004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	mg/kg	<0.0050	0.0050	07/25/13 08:46	N2
2-Methylnaphthalene	mg/kg	<0.0050	0.0050	07/25/13 08:46	
Acenaphthene	mg/kg	<0.0050	0.0050	07/25/13 08:46	
Acenaphthylene	mg/kg	<0.0050	0.0050	07/25/13 08:46	
Anthracene	mg/kg	<0.0050	0.0050	07/25/13 08:46	
Benzo(a)anthracene	mg/kg	<0.0050	0.0050	07/25/13 08:46	
Benzo(a)pyrene	mg/kg	<0.0050	0.0050	07/25/13 08:46	
Benzo(b)fluoranthene	mg/kg	<0.0050	0.0050	07/25/13 08:46	
Benzo(g,h,i)perylene	mg/kg	<0.0050	0.0050	07/25/13 08:46	
Benzo(k)fluoranthene	mg/kg	<0.0050	0.0050	07/25/13 08:46	
Chrysene	mg/kg	<0.0050	0.0050	07/25/13 08:46	
Dibenz(a,h)anthracene	mg/kg	<0.0050	0.0050	07/25/13 08:46	
Fluoranthene	mg/kg	<0.0050	0.0050	07/25/13 08:46	
Fluorene	mg/kg	<0.0050	0.0050	07/25/13 08:46	
Indeno(1,2,3-cd)pyrene	mg/kg	<0.0050	0.0050	07/25/13 08:46	
Naphthalene	mg/kg	<0.0050	0.0050	07/25/13 08:46	
Phenanthrene	mg/kg	<0.0050	0.0050	07/25/13 08:46	
Pyrene	mg/kg	<0.0050	0.0050	07/25/13 08:46	
2-Fluorobiphenyl (S)	%.	98	38-110	07/25/13 08:46	
p-Terphenyl-d14 (S)	%.	109	32-111	07/25/13 08:46	

LABORATORY CONTROL SAMPLE: 952834

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	.33	0.28	85	40-102	N2
2-Methylnaphthalene	mg/kg	.33	0.26	77	39-104	
Acenaphthene	mg/kg	.33	0.28	84	43-108	
Acenaphthylene	mg/kg	.33	0.28	83	44-110	
Anthracene	mg/kg	.33	0.30	90	44-112	
Benzo(a)anthracene	mg/kg	.33	0.33	100	43-124	
Benzo(a)pyrene	mg/kg	.33	0.33	98	44-124	
Benzo(b)fluoranthene	mg/kg	.33	0.33	98	44-123	
Benzo(g,h,i)perylene	mg/kg	.33	0.33	98	44-118	
Benzo(k)fluoranthene	mg/kg	.33	0.33	99	42-122	
Chrysene	mg/kg	.33	0.32	97	44-124	
Dibenz(a,h)anthracene	mg/kg	.33	0.33	99	44-119	
Fluoranthene	mg/kg	.33	0.34	101	45-119	
Fluorene	mg/kg	.33	0.29	87	44-113	
Indeno(1,2,3-cd)pyrene	mg/kg	.33	0.33	99	44-119	
Naphthalene	mg/kg	.33	0.26	78	42-103	
Phenanthrene	mg/kg	.33	0.32	95	44-113	

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7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Jacobsville RA
Pace Project No.: 5084026

LABORATORY CONTROL SAMPLE: 952834

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	mg/kg	.33	0.31	93	45-123	
2-Fluorobiphenyl (S)	%.			80	38-110	
p-Terphenyl-d14 (S)	%.			89	32-111	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 952835 952836

Parameter	Units	5084021001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	mg/kg	61.6 ug/kg	.34	.34	0.40	0.49	97	123	20-116	21	20	M0,N2, R1
2-Methylnaphthalene	mg/kg	70.4 ug/kg	.34	.34	0.38	0.41	88	97	10-131	8	20	
Acenaphthene	mg/kg	ND	.34	.34	0.35	0.34	100	98	25-117	2	20	
Acenaphthylene	mg/kg	82.1 ug/kg	.34	.34	0.40	0.40	92	91	27-123	0	20	
Anthracene	mg/kg	78.5 ug/kg	.34	.34	0.43	0.44	101	104	20-123	3	20	
Benzo(a)anthracene	mg/kg	296 ug/kg	.34	.34	0.71	0.85	121	160	23-124	17	20	M0
Benzo(a)pyrene	mg/kg	365 ug/kg	.34	.34	0.67	0.79	90	122	23-120	16	20	M0
Benzo(b)fluoranthene	mg/kg	406 ug/kg	.34	.34	0.73	0.81	93	118	24-117	11	20	M0
Benzo(g,h,i)perylene	mg/kg	367 ug/kg	.34	.34	0.63	0.69	77	94	12-122	9	20	
Benzo(k)fluoranthene	mg/kg	301 ug/kg	.34	.34	0.65	0.76	102	133	14-123	16	20	M0
Chrysene	mg/kg	404 ug/kg	.34	.34	0.78	0.94	110	156	22-124	18	20	M0
Dibenz(a,h)anthracene	mg/kg	ND	.34	.34	0.44	0.46	128	133	26-113	5	20	M0
Fluoranthene	mg/kg	350 ug/kg	.34	.34	0.86	1.0	149	189	21-125	15	20	M0
Fluorene	mg/kg	ND	.34	.34	0.37	0.37	103	101	19-127	1	20	
Indeno(1,2,3-cd)pyrene	mg/kg	257 ug/kg	.34	.34	0.54	0.59	82	95	15-121	8	20	
Naphthalene	mg/kg	60.0 ug/kg	.34	.34	0.36	0.53	88	136	15-125	38	20	1d,M0, R1
Phenanthrene	mg/kg	124 ug/kg	.34	.34	0.56	0.63	125	144	10-139	12	20	M0
Pyrene	mg/kg	417 ug/kg	.34	.34	0.88	1.0	133	178	17-132	16	20	M0
2-Fluorobiphenyl (S)	%.						94	91	38-110		20	
p-Terphenyl-d14 (S)	%.						97	94	32-111		20	

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QUALITY CONTROL DATA

Project: Jacobsville RA
Pace Project No.: 5084026

QC Batch: OEXT/33420 Analysis Method: EPA 8270
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave Short Spike
Associated Lab Samples: 5084026001, 5084026002, 5084026003, 5084026004

METHOD BLANK: 953156 Matrix: Solid
Associated Lab Samples: 5084026001, 5084026002, 5084026003, 5084026004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-Trichlorophenol	mg/kg	<0.33	0.33	07/26/13 15:39	
2,4,6-Trichlorophenol	mg/kg	<0.33	0.33	07/26/13 15:39	
2,4-Dichlorophenol	mg/kg	<0.33	0.33	07/26/13 15:39	
2,4-Dimethylphenol	mg/kg	<0.33	0.33	07/26/13 15:39	
2,4-Dinitrophenol	mg/kg	<1.6	1.6	07/26/13 15:39	
2,4-Dinitrotoluene	mg/kg	<0.33	0.33	07/26/13 15:39	
2,6-Dinitrotoluene	mg/kg	<0.33	0.33	07/26/13 15:39	
2-Chloronaphthalene	mg/kg	<0.33	0.33	07/26/13 15:39	
2-Chlorophenol	mg/kg	<0.33	0.33	07/26/13 15:39	
2-Methylphenol(o-Cresol)	mg/kg	<0.33	0.33	07/26/13 15:39	
2-Nitroaniline	mg/kg	<1.6	1.6	07/26/13 15:39	
2-Nitrophenol	mg/kg	<0.33	0.33	07/26/13 15:39	
3&4-Methylphenol(m&p Cresol)	mg/kg	<0.66	0.66	07/26/13 15:39	
3,3'-Dichlorobenzidine	mg/kg	<0.66	0.66	07/26/13 15:39	
3-Nitroaniline	mg/kg	<1.6	1.6	07/26/13 15:39	
4,6-Dinitro-2-methylphenol	mg/kg	<1.6	1.6	07/26/13 15:39	
4-Bromophenylphenyl ether	mg/kg	<0.33	0.33	07/26/13 15:39	
4-Chloro-3-methylphenol	mg/kg	<0.66	0.66	07/26/13 15:39	
4-Chloroaniline	mg/kg	<0.66	0.66	07/26/13 15:39	
4-Chlorophenylphenyl ether	mg/kg	<0.33	0.33	07/26/13 15:39	
4-Nitroaniline	mg/kg	<1.6	1.6	07/26/13 15:39	
4-Nitrophenol	mg/kg	<1.6	1.6	07/26/13 15:39	
Benzyl alcohol	mg/kg	<0.66	0.66	07/26/13 15:39	
bis(2-Chloroethoxy)methane	mg/kg	<0.33	0.33	07/26/13 15:39	
bis(2-Chloroethyl) ether	mg/kg	<0.33	0.33	07/26/13 15:39	
bis(2-Chloroisopropyl) ether	mg/kg	<0.33	0.33	07/26/13 15:39	
bis(2-Ethylhexyl)phthalate	mg/kg	<0.33	0.33	07/26/13 15:39	
bis(2chloro1methylethyl) ether	mg/kg	<0.33	0.33	07/26/13 15:39	
Butylbenzylphthalate	mg/kg	<0.33	0.33	07/26/13 15:39	
Di-n-butylphthalate	mg/kg	<0.33	0.33	07/26/13 15:39	
Di-n-octylphthalate	mg/kg	<0.33	0.33	07/26/13 15:39	
Dibenzofuran	mg/kg	<0.33	0.33	07/26/13 15:39	
Diethylphthalate	mg/kg	<0.33	0.33	07/26/13 15:39	
Dimethylphthalate	mg/kg	<0.33	0.33	07/26/13 15:39	
Hexachloro-1,3-butadiene	mg/kg	<0.33	0.33	07/26/13 15:39	
Hexachlorobenzene	mg/kg	<0.33	0.33	07/26/13 15:39	
Hexachlorocyclopentadiene	mg/kg	<0.33	0.33	07/26/13 15:39	
Hexachloroethane	mg/kg	<0.33	0.33	07/26/13 15:39	
Isophorone	mg/kg	<0.33	0.33	07/26/13 15:39	
N-Nitroso-di-n-propylamine	mg/kg	<0.33	0.33	07/26/13 15:39	
N-Nitrosodiphenylamine	mg/kg	<0.33	0.33	07/26/13 15:39	
Nitrobenzene	mg/kg	<0.33	0.33	07/26/13 15:39	
Pentachlorophenol	mg/kg	<1.6	1.6	07/26/13 15:39	

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QUALITY CONTROL DATA

Project: Jacobsville RA
Pace Project No.: 5084026

METHOD BLANK: 953156 Matrix: Solid

Associated Lab Samples: 5084026001, 5084026002, 5084026003, 5084026004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenol	mg/kg	<0.33	0.33	07/26/13 15:39	
2,4,6-Tribromophenol (S)	%.	63	16-122	07/26/13 15:39	
2-Fluorobiphenyl (S)	%.	58	31-94	07/26/13 15:39	
2-Fluorophenol (S)	%.	59	24-104	07/26/13 15:39	
Nitrobenzene-d5 (S)	%.	55	28-101	07/26/13 15:39	
p-Terphenyl-d14 (S)	%.	72	26-110	07/26/13 15:39	
Phenol-d5 (S)	%.	48	28-101	07/26/13 15:39	

LABORATORY CONTROL SAMPLE: 953157

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrotoluene	mg/kg	3.3	1.9	58	39-103	
2-Chlorophenol	mg/kg	3.3	1.6	49	38-96	
4-Chloro-3-methylphenol	mg/kg	3.3	1.6	48	38-104	
4-Nitrophenol	mg/kg	3.3	1.8	55	34-104	
N-Nitroso-di-n-propylamine	mg/kg	3.3	1.6	47	37-96	
Pentachlorophenol	mg/kg	3.3	1.8	54	21-103	
Phenol	mg/kg	3.3	1.7	51	37-101	
2,4,6-Tribromophenol (S)	%.			63	16-122	
2-Fluorobiphenyl (S)	%.			58	31-94	
2-Fluorophenol (S)	%.			59	24-104	
Nitrobenzene-d5 (S)	%.			55	28-101	
p-Terphenyl-d14 (S)	%.			73	26-110	
Phenol-d5 (S)	%.			50	28-101	

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QUALITY CONTROL DATA

Project: Jacobsville RA
Pace Project No.: 5084026

QC Batch: PMST/8522 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 5084026001, 5084026002, 5084026003, 5084026004

SAMPLE DUPLICATE: 952728

Parameter	Units	5083981005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.8	20.8	0	5	

SAMPLE DUPLICATE: 952846

Parameter	Units	5084020004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	9.4	10.5	11	5	R1

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QUALITY CONTROL DATA

Project: Jacobsville RA
Pace Project No.: 5084026

QC Batch: WET/12498 Analysis Method: EPA 9045
QC Batch Method: EPA 9045 Analysis Description: 9045 pH
Associated Lab Samples: 5084026001, 5084026002, 5084026003, 5084026004

SAMPLE DUPLICATE: 953448

Parameter	Units	5084057013 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.4	1	20	

SAMPLE DUPLICATE: 953449

Parameter	Units	5084026004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.5	7.5	0	20	

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QUALIFIERS

Project: Jacobsville RA
Pace Project No.: 5084026

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay
PASI-I	Pace Analytical Services - Indianapolis

ANALYTE QUALIFIERS

1d	Due to the extract's physical characteristics, the analysis was performed at dilution. CEM 07/25/13
2d	Due to the extract's physical characteristics, the analysis was performed at dilution. CEM 07/26/13
3d	Several compounds are outside of acceptance limits for percent recovery and/or RPD value. aa 7/29/13
4d	Several compounds are outside of acceptance limits for percent recovery. aa 7/29/13
C2	Relative percent difference between results from each column was greater than 40%. The lower of the two results was reported.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
N2	The lab does not hold TNI accreditation for this parameter.
R1	RPD value was outside control limits.
S2	Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Jacobsville RA
Pace Project No.: 5084026

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5084026001	**JRA-STAUB1-072313**	EPA 3550	OEXT/19153	EPA 8081	GCSV/9938
5084026002	**JRA-STAUB2-072313**	EPA 3550	OEXT/19153	EPA 8081	GCSV/9938
5084026003	**JRA-STAUB3-072313**	EPA 3550	OEXT/19153	EPA 8081	GCSV/9938
5084026004	**JRA-STAUB4-072313**	EPA 3550	OEXT/19153	EPA 8081	GCSV/9938
5084026001	**JRA-STAUB1-072313**	EPA 3546	OEXT/33419	EPA 8082	GCSV/11232
5084026002	**JRA-STAUB2-072313**	EPA 3546	OEXT/33419	EPA 8082	GCSV/11232
5084026003	**JRA-STAUB3-072313**	EPA 3546	OEXT/33419	EPA 8082	GCSV/11232
5084026004	**JRA-STAUB4-072313**	EPA 3546	OEXT/33419	EPA 8082	GCSV/11232
5084026001	**JRA-STAUB1-072313**	EPA 3050	MPRP/11731	EPA 6010	ICP/12666
5084026002	**JRA-STAUB2-072313**	EPA 3050	MPRP/11731	EPA 6010	ICP/12666
5084026003	**JRA-STAUB3-072313**	EPA 3050	MPRP/11731	EPA 6010	ICP/12666
5084026004	**JRA-STAUB4-072313**	EPA 3050	MPRP/11731	EPA 6010	ICP/12666
5084026001	**JRA-STAUB1-072313**	EPA 7471	MERP/4788	EPA 7471	MERC/5037
5084026002	**JRA-STAUB2-072313**	EPA 7471	MERP/4788	EPA 7471	MERC/5037
5084026003	**JRA-STAUB3-072313**	EPA 7471	MERP/4788	EPA 7471	MERC/5037
5084026004	**JRA-STAUB4-072313**	EPA 7471	MERP/4788	EPA 7471	MERC/5037
5084026001	**JRA-STAUB1-072313**	EPA 3546	OEXT/33411	EPA 8270 by SIM	MSSV/13053
5084026002	**JRA-STAUB2-072313**	EPA 3546	OEXT/33411	EPA 8270 by SIM	MSSV/13053
5084026003	**JRA-STAUB3-072313**	EPA 3546	OEXT/33411	EPA 8270 by SIM	MSSV/13053
5084026004	**JRA-STAUB4-072313**	EPA 3546	OEXT/33411	EPA 8270 by SIM	MSSV/13053
5084026001	**JRA-STAUB1-072313**	EPA 3546	OEXT/33420	EPA 8270	MSSV/13070
5084026002	**JRA-STAUB2-072313**	EPA 3546	OEXT/33420	EPA 8270	MSSV/13070
5084026003	**JRA-STAUB3-072313**	EPA 3546	OEXT/33420	EPA 8270	MSSV/13070
5084026004	**JRA-STAUB4-072313**	EPA 3546	OEXT/33420	EPA 8270	MSSV/13070
5084026001	**JRA-STAUB1-072313**	EPA 8260	MSV/55635		
5084026002	**JRA-STAUB2-072313**	EPA 8260	MSV/55635		
5084026003	**JRA-STAUB3-072313**	EPA 8260	MSV/55635		
5084026004	**JRA-STAUB4-072313**	EPA 8260	MSV/55635		
5084026005	**Trip Blank**	EPA 8260	MSV/55635		
5084026001	**JRA-STAUB1-072313**	ASTM D2974-87	PMST/8522		
5084026002	**JRA-STAUB2-072313**	ASTM D2974-87	PMST/8522		
5084026003	**JRA-STAUB3-072313**	ASTM D2974-87	PMST/8522		
5084026004	**JRA-STAUB4-072313**	ASTM D2974-87	PMST/8522		
5084026001	**JRA-STAUB1-072313**	EPA 9045	WET/12498		
5084026002	**JRA-STAUB2-072313**	EPA 9045	WET/12498		
5084026003	**JRA-STAUB3-072313**	EPA 9045	WET/12498		
5084026004	**JRA-STAUB4-072313**	EPA 9045	WET/12498		

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PACE-IN

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

LT# 12419 5084026

Page: of

1684879

Section A Required Client Information:

Company: EQM
Address: 1800 CARILLON BLVD CINCINNATI
Email To: ADRAGOTTA@EQM.COM
Phone: 513 825-8520 Fax:
Requested Due Date/TAT: 3 days per A.D.

Section B Required Project Information:

Report To: ANGYE DRAGOTTA
Copy To: William Brewster, Lynn Eich
Purchase Order No.: 19268
Project Name: JACKSONVILLE RA
Project Number: 030312.0012

Section C Invoice Information:

Attention: ANGYE DRAGOTTA
Company Name: EQM
Address: 1800 CARILLON BLVD
Pace Quote Reference: JACKSONVILLE
Pace Project Manager: MICK MAUSE
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: IN

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	COLLECTED Composite Start Time	COLLECTED Composite End/Grab Date	COLLECTED Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: VOCs	8 VOCs +5/m	PCB	pH	RCRA Metals	Pesticides	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	JRA-STAUB1-072313	SL	C	7-23	8:50	—	—		5	2						1	2	X	X	X	X	X	X		001
2	JRA-STAUB2-072313			7-23	9:00	—	—		5	2						1	2	X	X	X	X	X	X		002
3	JRA-STAUB3-072313			7-23	9:15	—	—		5	2						1	2	X	X	X	X	X	X		003
4	JRA-STAUB4-072313			7-23	9:28	—	—		5	2						1	2	X	X	X	X	X	X		004
5	TRIP BLANK								3							1	2	X							005
6																									
7																									
8																									
9																									
10																									
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	William Brewster	7-23-13	4:05	[illegible]	7-24-13	1054

SAMPLE CONDITIONS: Temp in °C: 4°C; Received on Ice (Y/N): X; Custody Sealed Cooler (Y/N): N; Samples Intact (Y/N):

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: SCOTT BOYER
SIGNATURE of SAMPLER: Scott Boyer
DATE Signed (MM/DD/YY): 07-23-13

WB/FEDEX 8027 1970 8219

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Sample Condition Upon Receipt

Pace Analytical

Client Name: EQM Project # 5084026

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 802719208219

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ no

Date/Time 5035A kits placed in freezer 1110

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other ZPLC

Thermometer Used 1 2 3 4 6 A B C D (E) **Type of Ice:** (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 4.4°C **Ice Visible in Sample Containers:** ☐ yes ☒ no
(Corrected, if applicable)

Temp should be above freezing to 6°C

Date and Initials of person examining contents: TM 7-24-13

				Comments:
Chain of Custody Present:	☒Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☒Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☒Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☒Yes	☐No	☐N/A	4.
Short Hold Time Analysis (<72hr):	☒Yes	☐No	☐N/A	5. TC KITS
Rush Turn Around Time Requested:	☐Yes	☒No	☐N/A	6.
Containers Intact:	☒Yes	☐No	☐N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	☒Yes	☐No	☐N/A	8.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G	☐Yes	☐No	☒N/A	9. (Circle) HNO3 H2SO4 NaOH HCl
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☒N/A	
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☒N/A	10.
Trip Blank Present:	☒Yes	☐No	☐N/A	11.
Trip Blank Custody Seals Present	☐Yes	☒No	☐N/A	
Project Manager Review				TM
Samples Arrived within Hold Time:	☒Yes	☐No	☐N/A	12.
Sufficient Volume:	☒Yes	☐No	☐N/A	13.
Correct Containers Used:	☒Yes	☐No	☐N/A	14.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [signature] **Date:** 7/24/13

Form F-IN-Q290-rev.04, 28Apr2011

Sample Container Count

CLIENT: FQM

COC PAGE 1 of 1
COC ID# 1168 4879

Project # 5084026

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R 4/6 (BULK)	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H			Comments
1			2		3											
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag