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Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

June 12, 2015

Mr. John Horner
EPSVT-Hbg
1539 Bobali Drive
Harrisburg, PA 17104

RE: Project: G10633 Miller Chemical
Pace Project No.: 30150312

Dear Mr. Horner:
Enclosed are the analytical results for sample(s) received by the laboratory on June 10, 2015. 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.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

The samples were subcontracted to Summit Environmental, 3310 Win Street, Cuyahoga Falls, OH 44223 for TOX and TCLP Herbicides analysis are reported on the Summit Environmental data tables.

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

Sincerely,

[redacted]
Project Manager

Enclosures

cc: Mr. Derek Bartman, EPSVT-Hbg
Mr. Charlie Bisking, EPSVT-Hbg

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NELAP ACCREDITED TNI LABORATORY

REPORT OF LABORATORY ANALYSIS

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cc: Mr. Mark Bruce, EPSVT-Hbg
Mr. Brad Grenoble, EPSVT-Hbg
Mr. Jeff Joynt, EPSVT-Hbg
Mr. Ben Logan, EPSVT-Hbg
Mr. Gary Moore, EPSVT-Hbg
Ms. Ashley Nelson, EPSVT-Hbg
Ms. Deb Sweikert, EPSVT-Hbg
Steve Vedder, EPSVT-Hbg

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CERTIFICATIONS

Project: G10633 Miller Chemical
Pace Project No.: 30150312

Pennsylvania Certification IDs
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ACLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: PA014572014-4
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

Asheville Certification IDs
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE ANALYTE COUNT

Project: G10633 Miller Chemical
Pace Project No.: 30150312

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30150312001	**Miller - 01**	EPA 8081A	SJG	8	PASI-PA
		EPA 8082	SJG	9	PASI-PA
		EPA 6010B	CTS	7	PASI-PA
		EPA 6010B	CTS	13	PASI-PA
		EPA 7470A	RAC	1	PASI-PA
		EPA 7470A	RAC	1	PASI-PA
		EPA 8270C	DJL	18	PASI-PA
		EPA 8260B	CLG	13	PASI-PA
		EPA 1010	DEH	1	PASI-PA
		EPA 9040B	DEH	1	PASI-PA
		ASTM D5468-02	JTJ	1	PASI-A
		40CFR PART 432.2	JWL	1	PASI-PA
		EPA 351.2	JWL	1	PASI-PA
		EPA 410.4	DLH	1	PASI-PA
		SM 4500-NO3 F	JWL	1	PASI-PA
		SM 4500-P E	JWL	1	PASI-PA
		SW-846 7.3.3.2	KAS	1	PASI-PA
		SW-846 7.3.4.2	KAS	1	PASI-PA
		SM 4500-NO2 B	PAS	1	PASI-PA
		SM 4500-NO3 F	JWL	1	PASI-PA

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ANALYTICAL RESULTS

Project: G10633 Miller Chemical
Pace Project No.: 30150312

Sample: Miller - 01 **Lab ID: 30150312001** Collected: 06/09/15 15:15 Received: 06/10/15 09:15 Matrix: Water

Comments: • Sample containers split and preserved for TOX and COD.
• A screening analysis using potassium iodide paper was used to determine the presence/absence of oxidizers. A portion of the sample was placed on the test strip. The test strip did not change colors indicating the absence of oxidizers.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides, TCLP	Analytical Method: EPA 8081A Preparation Method: EPA 3510C							
	Leachate Method/Date: EPA 1311; 06/10/15 14:25 Initial pH: 6.9; Final pH: 5.45							
gamma-BHC (Lindane)	ND	ug/L	500	50	06/11/15 13:45	06/12/15 03:04	58-89-9	2c,D3, M6
Chlordane (Technical)	ND	ug/L	500	50	06/11/15 13:45	06/12/15 03:04	57-74-9	2c,D3
Endrin	ND	ug/L	50.0	50	06/11/15 13:45	06/12/15 03:04	72-20-8	2c,D3, M6
Heptachlor epoxide	ND	ug/L	25.0	50	06/11/15 13:45	06/12/15 03:04	1024-57-3	2c,D3, M6
Methoxychlor	ND	ug/L	5000	50	06/11/15 13:45	06/12/15 03:04	72-43-5	2c,D3, M6
Toxaphene	ND	ug/L	2500	50	06/11/15 13:45	06/12/15 03:04	8001-35-2	2c,D3
Surrogates								
Decachlorobiphenyl (S)	42	%	15-125	50	06/11/15 13:45	06/12/15 03:04	2051-24-3	
Tetrachloro-m-xylene (S)	150	%	14-136	50	06/11/15 13:45	06/12/15 03:04	877-09-8	S4
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3510C							
PCB-1016 (Aroclor 1016)	ND	ug/L	5.1	20	06/10/15 15:00	06/12/15 11:01	12674-11-2	1c,D3
PCB-1221 (Aroclor 1221)	ND	ug/L	5.1	20	06/10/15 15:00	06/12/15 11:01	11104-28-2	1c,D3
PCB-1232 (Aroclor 1232)	ND	ug/L	5.1	20	06/10/15 15:00	06/12/15 11:01	11141-16-5	1c,D3
PCB-1242 (Aroclor 1242)	ND	ug/L	5.1	20	06/10/15 15:00	06/12/15 11:01	53469-21-9	1c,D3
PCB-1248 (Aroclor 1248)	ND	ug/L	5.1	20	06/10/15 15:00	06/12/15 11:01	12672-29-6	1c,D3
PCB-1254 (Aroclor 1254)	ND	ug/L	5.1	20	06/10/15 15:00	06/12/15 11:01	11097-69-1	1c,D3
PCB-1260 (Aroclor 1260)	ND	ug/L	5.1	20	06/10/15 15:00	06/12/15 11:01	11096-82-5	1c,D3
Surrogates								
Tetrachloro-m-xylene (S)	47	%	29-105	20	06/10/15 15:00	06/12/15 11:01	877-09-8	
Decachlorobiphenyl (S)	5	%	10-110	20	06/10/15 15:00	06/12/15 11:01	2051-24-3	S4
6010 MET ICP, TCLP	Analytical Method: EPA 6010B Preparation Method: EPA 3005A							
	Leachate Method/Date: EPA 1311; 06/10/15 14:25 Initial pH: 6.9; Final pH: 5.45							
Arsenic	**0.17**	mg/L	0.050	1	06/11/15 13:44	06/12/15 09:43	7440-38-2	
Barium	ND	mg/L	1.0	1	06/11/15 13:44	06/12/15 09:43	7440-39-3	
Cadmium	ND	mg/L	0.050	1	06/11/15 13:44	06/12/15 09:43	7440-43-9	
Chromium	**0.065**	mg/L	0.050	1	06/11/15 13:44	06/12/15 09:43	7440-47-3	
Lead	**0.060**	mg/L	0.050	1	06/11/15 13:44	06/12/15 09:43	7439-92-1	
Selenium	ND	mg/L	0.10	1	06/11/15 13:44	06/12/15 09:43	7782-49-2	
Silver	ND	mg/L	0.050	1	06/11/15 13:44	06/12/15 09:43	7440-22-4	
6010 MET ICP	Analytical Method: EPA 6010B Preparation Method: EPA 3005A							
Antimony	**80.6**	ug/L	6.0	1	06/11/15 15:17	06/12/15 08:06	7440-36-0	
Arsenic	**404**	ug/L	5.0	1	06/11/15 15:17	06/12/15 08:06	7440-38-2	
Barium	**257**	ug/L	10.0	1	06/11/15 15:17	06/12/15 08:06	7440-39-3	
Beryllium	ND	ug/L	1.0	1	06/11/15 15:17	06/12/15 08:06	7440-41-7	
Cadmium	**14.0**	ug/L	3.0	1	06/11/15 15:17	06/12/15 08:06	7440-43-9	
Chromium	**172**	ug/L	5.0	1	06/11/15 15:17	06/12/15 08:06	7440-47-3	
Copper	**110000**	ug/L	500	100	06/11/15 15:17	06/12/15 08:17	7440-50-8	

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ANALYTICAL RESULTS

Project: G10633 Miller Chemical
Pace Project No.: 30150312

Sample: Miller - 01 **Lab ID: 30150312001** Collected: 06/09/15 15:15 Received: 06/10/15 09:15 Matrix: Water

Comments: • Sample containers split and preserved for TOX and COD.
• A screening analysis using potassium iodide paper was used to determine the presence/absence of oxidizers. A portion of the sample was placed on the test strip. The test strip did not change colors indicating the absence of oxidizers.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010B Preparation Method: EPA 3005A							
Lead	**148**	ug/L	5.0	1	06/11/15 15:17	06/12/15 08:06	7439-92-1	
Nickel	**124**	ug/L	10.0	1	06/11/15 15:17	06/12/15 08:06	7440-02-0	
Selenium	**99.7**	ug/L	8.0	1	06/11/15 15:17	06/12/15 08:06	7782-49-2	
Silver	**24.6**	ug/L	6.0	1	06/11/15 15:17	06/12/15 08:06	7440-22-4	
Thallium	**23.1**	ug/L	10.0	1	06/11/15 15:17	06/12/15 08:06	7440-28-0	
Zinc	**429000**	ug/L	1000	100	06/11/15 15:17	06/12/15 08:17	7440-66-6	
7470 Mercury, TCLP	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Leachate Method/Date: EPA 1311; 06/10/15 14:25 Initial pH: 6.9; Final pH: 5.45							
Mercury	ND	ug/L	2.5	1	06/11/15 13:59	06/12/15 11:09	7439-97-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	ug/L	5.0	1	06/12/15 09:57	06/12/15 11:47	7439-97-6	
8270 MSSV TCLP	Analytical Method: EPA 8270C Preparation Method: EPA 3535A Leachate Method/Date: EPA 1311; 06/10/15 14:25 Initial pH: 6.9; Final pH: 5.45							
1,4-Dichlorobenzene	ND	ug/L	500	1	06/11/15 09:00	06/11/15 12:17	106-46-7	
2,4-Dinitrotoluene	ND	ug/L	100	1	06/11/15 09:00	06/11/15 12:17	121-14-2	
Hexachloro-1,3-butadiene	ND	ug/L	100	1	06/11/15 09:00	06/11/15 12:17	87-68-3	
Hexachlorobenzene	ND	ug/L	100	1	06/11/15 09:00	06/11/15 12:17	118-74-1	
Hexachloroethane	ND	ug/L	500	1	06/11/15 09:00	06/11/15 12:17	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	2000	1	06/11/15 09:00	06/11/15 12:17	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2000	1	06/11/15 09:00	06/11/15 12:17		
Nitrobenzene	ND	ug/L	100	1	06/11/15 09:00	06/11/15 12:17	98-95-3	
Pentachlorophenol	ND	ug/L	5000	1	06/11/15 09:00	06/11/15 12:17	87-86-5	
Pyridine	ND	ug/L	500	1	06/11/15 09:00	06/11/15 12:17	110-86-1	
2,4,5-Trichlorophenol	ND	ug/L	5000	1	06/11/15 09:00	06/11/15 12:17	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	100	1	06/11/15 09:00	06/11/15 12:17	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	76	%	38-129	1	06/11/15 09:00	06/11/15 12:17	4165-60-0	
2-Fluorobiphenyl (S)	69	%	49-105	1	06/11/15 09:00	06/11/15 12:17	321-60-8	
Terphenyl-d14 (S)	38	%	10-101	1	06/11/15 09:00	06/11/15 12:17	1718-51-0	
Phenol-d6 (S)	80	%	48-121	1	06/11/15 09:00	06/11/15 12:17	13127-88-3	
2-Fluorophenol (S)	82	%	51-128	1	06/11/15 09:00	06/11/15 12:17	367-12-4	
2,4,6-Tribromophenol (S)	82	%	64-115	1	06/11/15 09:00	06/11/15 12:17	118-79-6	
8260 MSV TCLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1311; 06/11/15 18:34							
Benzene	ND	ug/L	50.0	1		06/12/15 11:52	71-43-2	
2-Butanone (MEK)	ND	ug/L	5000	1		06/12/15 11:52	78-93-3	
Carbon tetrachloride	ND	ug/L	50.0	1		06/12/15 11:52	56-23-5	
Chlorobenzene	ND	ug/L	1000	1		06/12/15 11:52	108-90-7	
Chloroform	ND	ug/L	500	1		06/12/15 11:52	67-66-3	
1,2-Dichloroethane	ND	ug/L	50.0	1		06/12/15 11:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	1		06/12/15 11:52	75-35-4	

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ANALYTICAL RESULTS

Project: G10633 Miller Chemical
Pace Project No.: 30150312

Sample: Miller - 01 **Lab ID: 30150312001** Collected: 06/09/15 15:15 Received: 06/10/15 09:15 Matrix: Water

Comments: • Sample containers split and preserved for TOX and COD.
• A screening analysis using potassium iodide paper was used to determine the presence/absence of oxidizers. A portion of the sample was placed on the test strip. The test strip did not change colors indicating the absence of oxidizers.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV TCLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1311; 06/11/15 18:34							
Tetrachloroethene	ND	ug/L	50.0	1		06/12/15 11:52	127-18-4	
Trichloroethene	ND	ug/L	50.0	1		06/12/15 11:52	79-01-6	
Vinyl chloride	ND	ug/L	50.0	1		06/12/15 11:52	75-01-4	
Surrogates								
1,2-Dichloroethane-d4 (S)	92	%	84-124	1		06/12/15 11:52	17060-07-0	
Toluene-d8 (S)	107	%	79-118	1		06/12/15 11:52	2037-26-5	
4-Bromofluorobenzene (S)	100	%	84-113	1		06/12/15 11:52	460-00-4	
1010 Flashpoint,Closed Cup	Analytical Method: EPA 1010							
Flashpoint	**>200**	deg F	60.0	1		06/10/15 14:30		
9040 pH	Analytical Method: EPA 9040B							
pH	**6.1**	Std. Units	1.0	1		06/10/15 22:05		H1,H6
ASTM D5468-02 BTU	Analytical Method: ASTM D5468-02							
British Thermal Units	ND	BTU/lb	50.0	1		06/11/15 11:30		N2
Total Nitrogen Calculation	Analytical Method: 40CFR PART 432.2							
Nitrogen	**3210**	mg/L	1.0	1		06/11/15 14:48	7727-37-9	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**2260**	mg/L	500	100		06/11/15 14:38	7727-37-9	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**18000**	mg/L	500	20		06/11/15 11:45		
SM4500NO3-F, NO3-NO2	Analytical Method: SM 4500-NO3 F							
Nitrogen, NO2 plus NO3	**950**	mg/L	100	1000		06/11/15 10:57		M6
4500PB5E Total Phosphorus	Analytical Method: SM 4500-P E							
Phosphorus	**1850**	mg/L	93.0	310		06/12/15 09:46	7723-14-0	
733C Reactive Cyanide	Analytical Method: SW-846 7.3.3.2							
Cyanide, Reactive	ND	mg/L	0.010	1		06/10/15 21:55		
734S Reactive Sulfide	Analytical Method: SW-846 7.3.4.2							
Sulfide, Reactive	ND	mg/L	1.0	1		06/10/15 16:30		
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B							
Nitrite as N	**70.8**	mg/L	10.0	1000		06/10/15 18:50	14797-65-0	

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ANALYTICAL RESULTS

Project: G10633 Miller Chemical
Pace Project No.: 30150312

Sample: Miller - 01 **Lab ID: 30150312001** Collected: 06/09/15 15:15 Received: 06/10/15 09:15 Matrix: Water

Comments:
- Sample containers split and preserved for TOX and COD.
- A screening analysis using potassium iodide paper was used to determine the presence/absence of oxidizers. A portion of the sample was placed on the test strip. The test strip did not change colors indicating the absence of oxidizers.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
SM4500NO3-F, Nitrate, unpres	Analytical Method: SM 4500-NO3 F							
Nitrate as N	**879**	mg/L	100	1000		06/11/15 10:57	14797-55-8	M6

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QUALITY CONTROL DATA

Project: G10633 Miller Chemical
Pace Project No.: 30150312

QC Batch: MERP/6594 — Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A — Analysis Description: 7470 Mercury TCLP
Associated Lab Samples: 30150312001

METHOD BLANK: 906201 — Matrix: Water
Associated Lab Samples: 30150312001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	1.0	06/12/15 10:30	

LABORATORY CONTROL SAMPLE: 906202

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	.89J	89	85-115	

MATRIX SPIKE SAMPLE: 906204

Parameter	Units	30150002001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	2.5	2.6	106	80-120	

MATRIX SPIKE SAMPLE: 906206

Parameter	Units	30149833001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1.0 U	2.5	2.7	108	80-120	

SAMPLE DUPLICATE: 906203

Parameter	Units	30150002001 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	ND	ND		

SAMPLE DUPLICATE: 906205

Parameter	Units	30149833001 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	1.0 U	ND		

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Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: G10633 Miller Chemical
Pace Project No.: 30150312

QC Batch: MERP/6595 | Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A | Analysis Description: 7470 Mercury
Associated Lab Samples: 30150312001

METHOD BLANK: 906592 | Matrix: Water
Associated Lab Samples: 30150312001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	06/12/15 11:34	

LABORATORY CONTROL SAMPLE: 906593

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	0.97	97	85-115	

MATRIX SPIKE SAMPLE: 906595

Parameter	Units	30150401001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	2.5	2.5	98	80-120	

SAMPLE DUPLICATE: 906594

Parameter	Units	30150401001 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: G10633 Miller Chemical
Pace Project No.: 30150312

QC Batch: MPRP/15736 | Analysis Method: EPA 6010B
QC Batch Method: EPA 3005A | Analysis Description: 6010 MET TCLP
Associated Lab Samples: 30150312001

METHOD BLANK: 906109 | Matrix: Water
Associated Lab Samples: 30150312001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.050	06/12/15 08:34	
Barium	mg/L	ND	1.0	06/12/15 08:34	
Cadmium	mg/L	ND	0.050	06/12/15 08:34	
Chromium	mg/L	ND	0.050	06/12/15 08:34	
Lead	mg/L	ND	0.050	06/12/15 08:34	
Selenium	mg/L	ND	0.10	06/12/15 08:34	
Silver	mg/L	ND	0.050	06/12/15 08:34	

LABORATORY CONTROL SAMPLE: 906110

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	.5	0.49	98	80-120	
Barium	mg/L	.5	.52J	104	80-120	
Cadmium	mg/L	.5	0.50	100	80-120	
Chromium	mg/L	.5	0.51	102	80-120	
Lead	mg/L	.5	0.47	94	80-120	
Selenium	mg/L	.5	0.51	103	80-120	
Silver	mg/L	.25	0.26	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 906112 906113

Parameter	Units	30149833001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Arsenic	mg/L	0.0080J	.5	.5	0.60	0.60	119	119	75-125	0	
Barium	mg/L	0.095J	.5	.5	.6J	.61J	101	102	75-125		
Cadmium	mg/L	0.00075 J	.5	.5	0.61	0.61	122	123	75-125	0	
Chromium	mg/L	0.0031J	.5	.5	0.48	0.48	96	96	75-125	0	
Lead	mg/L	0.050 U	.5	.5	0.49	0.49	98	99	75-125	1	
Selenium	mg/L	0.0088J	.5	.5	0.65	0.65	128	127	75-125	1	M1
Silver	mg/L	0.050 U	.25	.25	0.33	0.32	131	129	75-125	1	M1

MATRIX SPIKE SAMPLE: 906115

Parameter	Units	30150002001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	ND	.5	0.60	118	75-125	
Barium	mg/L	ND	.5	.9J	108	75-125	

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QUALITY CONTROL DATA

Project: G10633 Miller Chemical
Pace Project No.: 30150312

MATRIX SPIKE SAMPLE: 906115

Parameter	Units	30150002001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cadmium	mg/L	ND	.5	0.60	119	75-125	
Chromium	mg/L	ND	.5	0.48	96	75-125	
Lead	mg/L	ND	.5	0.49	99	75-125	
Selenium	mg/L	ND	.5	0.64	125	75-125	
Silver	mg/L	ND	.25	0.31	124	75-125	

SAMPLE DUPLICATE: 906111

Parameter	Units	30149833001 Result	Dup Result	RPD	Qualifiers
Arsenic	mg/L	0.0080J	ND		
Barium	mg/L	0.095J	.095J		
Cadmium	mg/L	0.00075J	.00082J		
Chromium	mg/L	0.0031J	.0025J		
Lead	mg/L	0.050 U	ND		
Selenium	mg/L	0.0088J	.02J		
Silver	mg/L	0.050 U	ND		

SAMPLE DUPLICATE: 906114

Parameter	Units	30150002001 Result	Dup Result	RPD	Qualifiers
Arsenic	mg/L	ND	ND		
Barium	mg/L	ND	.37J		
Cadmium	mg/L	ND	.002J		
Chromium	mg/L	ND	.001J		
Lead	mg/L	ND	ND		
Selenium	mg/L	ND	.012J		
Silver	mg/L	ND	ND		

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QUALITY CONTROL DATA

Project: G10633 Miller Chemical
Pace Project No.: 30150312

QC Batch: MPRP/15742
QC Batch Method: EPA 3005A
Associated Lab Samples: 30150312001

Analysis Method: EPA 6010B
Analysis Description: 6010 MET

METHOD BLANK: 906235
Matrix: Water
Associated Lab Samples: 30150312001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	06/12/15 07:49	
Arsenic	ug/L	ND	5.0	06/12/15 07:49	
Barium	ug/L	ND	10.0	06/12/15 07:49	
Beryllium	ug/L	ND	1.0	06/12/15 07:49	
Cadmium	ug/L	ND	3.0	06/12/15 07:49	
Chromium	ug/L	ND	5.0	06/12/15 07:49	
Copper	ug/L	ND	5.0	06/12/15 07:49	
Lead	ug/L	ND	5.0	06/12/15 07:49	
Nickel	ug/L	ND	10.0	06/12/15 07:49	
Selenium	ug/L	ND	8.0	06/12/15 07:49	
Silver	ug/L	ND	6.0	06/12/15 07:49	
Thallium	ug/L	ND	10.0	06/12/15 07:49	
Zinc	ug/L	ND	10.0	06/12/15 07:49	

LABORATORY CONTROL SAMPLE: 906236

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	533	107	80-120	
Arsenic	ug/L	500	514	103	80-120	
Barium	ug/L	500	523	105	80-120	
Beryllium	ug/L	500	534	107	80-120	
Cadmium	ug/L	500	523	105	80-120	
Chromium	ug/L	500	512	102	80-120	
Copper	ug/L	500	541	108	80-120	
Lead	ug/L	500	498	100	80-120	
Nickel	ug/L	500	531	106	80-120	
Selenium	ug/L	500	536	107	80-120	
Silver	ug/L	250	262	105	80-120	
Thallium	ug/L	500	461	92	80-120	
Zinc	ug/L	500	508	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 906238 906239

Parameter	Units	30150225001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Antimony	ug/L	ND	500	500	545	541	109	108	75-125	1	
Arsenic	ug/L	ND	500	500	530	526	105	104	75-125	1	
Barium	ug/L	81.2	500	500	611	600	106	104	75-125	2	

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QUALITY CONTROL DATA

Project: G10633 Miller Chemical
Pace Project No.: 30150312

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 906238 906239

Parameter	Units	30150225001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Beryllium	ug/L	ND	500	500	536	526	107	105	75-125	2	
Cadmium	ug/L	ND	500	500	536	532	107	106	75-125	1	
Chromium	ug/L	ND	500	500	505	501	101	100	75-125	1	
Copper	ug/L	ND	500	500	544	536	108	107	75-125	1	
Lead	ug/L	ND	500	500	517	510	103	102	75-125	1	
Nickel	ug/L	ND	500	500	530	526	105	105	75-125	1	
Selenium	ug/L	ND	500	500	551	545	110	109	75-125	1	
Silver	ug/L	ND	250	250	256	254	102	102	75-125	1	
Thallium	ug/L	ND	500	500	499	500	99	99	75-125	0	
Zinc	ug/L	10.5	500	500	514	512	101	100	75-125	0	

SAMPLE DUPLICATE: 906237

Parameter	Units	30150225001 Result	Dup Result	RPD	Qualifiers
Antimony	ug/L	ND	4.9J		
Arsenic	ug/L	ND	ND		
Barium	ug/L	81.2	80.6	1	
Beryllium	ug/L	ND	ND		
Cadmium	ug/L	ND	ND		
Chromium	ug/L	ND	2.1J		
Copper	ug/L	ND	ND		
Lead	ug/L	ND	ND		
Nickel	ug/L	ND	3J		
Selenium	ug/L	ND	ND		
Silver	ug/L	ND	ND		
Thallium	ug/L	ND	ND		
Zinc	ug/L	10.5	11.1	5	

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QUALITY CONTROL DATA

Project: G10633 Miller Chemical
Pace Project No.: 30150312

QC Batch: MSV/23797 | Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B | Analysis Description: 8260 MSV TCLP
Associated Lab Samples: 30150312001

METHOD BLANK: 906715 | Matrix: Water
Associated Lab Samples: 30150312001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	50.0	06/12/15 11:26	
1,2-Dichloroethane	ug/L	ND	50.0	06/12/15 11:26	
2-Butanone (MEK)	ug/L	ND	5000	06/12/15 11:26	
Benzene	ug/L	ND	50.0	06/12/15 11:26	
Carbon tetrachloride	ug/L	ND	50.0	06/12/15 11:26	
Chlorobenzene	ug/L	ND	1000	06/12/15 11:26	
Chloroform	ug/L	ND	500	06/12/15 11:26	
Tetrachloroethene	ug/L	ND	50.0	06/12/15 11:26	
Trichloroethene	ug/L	ND	50.0	06/12/15 11:26	
Vinyl chloride	ug/L	ND	50.0	06/12/15 11:26	
1,2-Dichloroethane-d4 (S)	%	95	84-124	06/12/15 11:26	
4-Bromofluorobenzene (S)	%	103	84-113	06/12/15 11:26	
Toluene-d8 (S)	%	102	79-118	06/12/15 11:26	

LABORATORY CONTROL SAMPLE: 906716

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	200	213	107	58-126	
1,2-Dichloroethane	ug/L	200	195	98	66-124	
2-Butanone (MEK)	ug/L	200	215J	108	69-126	
Benzene	ug/L	200	241	120	69-123	
Carbon tetrachloride	ug/L	200	234	117	52-133	
Chlorobenzene	ug/L	200	233J	116	72-121	
Chloroform	ug/L	200	209J	105	63-123	
Tetrachloroethene	ug/L	200	230	115	62-131	
Trichloroethene	ug/L	200	228	114	66-125	
Vinyl chloride	ug/L	200	207	104	58-131	
1,2-Dichloroethane-d4 (S)	%			88	84-124	
4-Bromofluorobenzene (S)	%			101	84-113	
Toluene-d8 (S)	%			105	79-118	

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QUALITY CONTROL DATA

Project: G10633 Miller Chemical
Pace Project No.: 30150312

QC Batch: OEXT/24011
QC Batch Method: EPA 3510C
Associated Lab Samples: 30150312001

Analysis Method: EPA 8081A
Analysis Description: 8081 GCS TCLP Pesticides

METHOD BLANK: 906049
Matrix: Water
Associated Lab Samples: 30150312001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chlordane (Technical)	ug/L	ND	10.0	06/12/15 02:09	
Endrin	ug/L	ND	1.0	06/12/15 02:09	
gamma-BHC (Lindane)	ug/L	ND	10.0	06/12/15 02:09	
Heptachlor epoxide	ug/L	ND	0.50	06/12/15 02:09	
Methoxychlor	ug/L	ND	100	06/12/15 02:09	
Toxaphene	ug/L	ND	50.0	06/12/15 02:09	
Decachlorobiphenyl (S)	%	83	15-125	06/12/15 02:09	
Tetrachloro-m-xylene (S)	%	77	14-136	06/12/15 02:09	

LABORATORY CONTROL SAMPLE: 906050

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Endrin	ug/L	1.6	1.5	97	64-110	
gamma-BHC (Lindane)	ug/L	.8	.73J	91	61-109	
Heptachlor epoxide	ug/L	.8	0.68	85	56-104	
Methoxychlor	ug/L	8	7.4J	92	61-108	
Decachlorobiphenyl (S)	%			89	15-125	
Tetrachloro-m-xylene (S)	%			76	14-136	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 906051 906052

Parameter	Units	30150312001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Endrin	ug/L	ND	1.6	1.6	1.5J	1.5J	45	49	64-110		M6
gamma-BHC (Lindane)	ug/L	ND	.8	.8	ND	ND	0	0	61-109		M6
Heptachlor epoxide	ug/L	ND	.8	.8	3.2J	1.4J	402	176	56-104		M6
Methoxychlor	ug/L	ND	8	8	4.5J	4.4J	49	48	61-108		M6
Decachlorobiphenyl (S)	%						38	34	15-125		
Tetrachloro-m-xylene (S)	%						0	163	14-136		S4

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QUALITY CONTROL DATA

Project: G10633 Miller Chemical
Pace Project No.: 30150312

QC Batch: OEXT/23984 | Analysis Method: EPA 8082
QC Batch Method: EPA 3510C | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 30150312001

METHOD BLANK: 905019 | Matrix: Water
Associated Lab Samples: 30150312001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	ND	0.25	06/12/15 10:20	
PCB-1221 (Aroclor 1221)	ug/L	ND	0.25	06/12/15 10:20	
PCB-1232 (Aroclor 1232)	ug/L	ND	0.25	06/12/15 10:20	
PCB-1242 (Aroclor 1242)	ug/L	ND	0.25	06/12/15 10:20	
PCB-1248 (Aroclor 1248)	ug/L	ND	0.25	06/12/15 10:20	
PCB-1254 (Aroclor 1254)	ug/L	ND	0.25	06/12/15 10:20	
PCB-1260 (Aroclor 1260)	ug/L	ND	0.25	06/12/15 10:20	
Decachlorobiphenyl (S)	%	57	10-110	06/12/15 10:20	
Tetrachloro-m-xylene (S)	%	71	29-105	06/12/15 10:20	

LABORATORY CONTROL SAMPLE: 905020

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	2.5	2.0	78	51-97	
PCB-1260 (Aroclor 1260)	ug/L	2.5	1.9	76	47-104	
Decachlorobiphenyl (S)	%			59	10-110	
Tetrachloro-m-xylene (S)	%			78	29-105	

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QUALITY CONTROL DATA

Project: G10633 Miller Chemical
Pace Project No.: 30150312

QC Batch: OEXT/23996 | Analysis Method: EPA 8270C
QC Batch Method: EPA 3535A | Analysis Description: 8270 TCLP MSSV
Associated Lab Samples: 30150312001

METHOD BLANK: 905719 | Matrix: Water
Associated Lab Samples: 30150312001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dichlorobenzene	ug/L	ND	500	06/11/15 12:36	
2,4,5-Trichlorophenol	ug/L	ND	5000	06/11/15 12:36	
2,4,6-Trichlorophenol	ug/L	ND	100	06/11/15 12:36	
2,4-Dinitrotoluene	ug/L	ND	100	06/11/15 12:36	
2-Methylphenol(o-Cresol)	ug/L	ND	2000	06/11/15 12:36	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	2000	06/11/15 12:36	
Hexachloro-1,3-butadiene	ug/L	ND	100	06/11/15 12:36	
Hexachlorobenzene	ug/L	ND	100	06/11/15 12:36	
Hexachloroethane	ug/L	ND	500	06/11/15 12:36	
Nitrobenzene	ug/L	ND	100	06/11/15 12:36	
Pentachlorophenol	ug/L	ND	5000	06/11/15 12:36	
Pyridine	ug/L	ND	500	06/11/15 12:36	
2,4,6-Tribromophenol (S)	%	88	64-115	06/11/15 12:36	
2-Fluorobiphenyl (S)	%	78	49-105	06/11/15 12:36	
2-Fluorophenol (S)	%	89	51-128	06/11/15 12:36	
Nitrobenzene-d5 (S)	%	91	38-129	06/11/15 12:36	
Phenol-d6 (S)	%	91	48-121	06/11/15 12:36	
Terphenyl-d14 (S)	%	64	10-101	06/11/15 12:36	

LABORATORY CONTROL SAMPLE: 905720

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	500	338J	68	49-85	
2,4,5-Trichlorophenol	ug/L	500	408J	82	63-117	
2,4,6-Trichlorophenol	ug/L	500	444	89	61-110	
2,4-Dinitrotoluene	ug/L	500	411	82	51-113	
2-Methylphenol(o-Cresol)	ug/L	500	430J	86	64-109	
3&4-Methylphenol(m&p Cresol)	ug/L	1000	877J	88	64-113	
Hexachloro-1,3-butadiene	ug/L	500	299	60	43-95	
Hexachlorobenzene	ug/L	500	257	51	33-80	
Hexachloroethane	ug/L	500	331J	66	44-93	
Nitrobenzene	ug/L	500	434	87	61-126	
Pentachlorophenol	ug/L	500	483J	97	40-111	
Pyridine	ug/L	500	198J	40	10-63	
2,4,6-Tribromophenol (S)	%			87	64-115	
2-Fluorobiphenyl (S)	%			71	49-105	
2-Fluorophenol (S)	%			75	51-128	
Nitrobenzene-d5 (S)	%			85	38-129	
Phenol-d6 (S)	%			78	48-121	
Terphenyl-d14 (S)	%			55	10-101	

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QUALITY CONTROL DATA

Project: G10633 Miller Chemical
Pace Project No.: 30150312

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 905721 905722

Parameter	Units	30149555001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,4-Dichlorobenzene	ug/L	ND	500	500	396J	381J	79	76	49-85		
2,4,5-Trichlorophenol	ug/L	ND	500	500	467J	444J	93	89	63-117		
2,4,6-Trichlorophenol	ug/L	ND	500	500	464	447	93	89	61-110	4	
2,4-Dinitrotoluene	ug/L	ND	500	500	466	431	93	86	51-113	8	
2-Methylphenol(o-Cresol)	ug/L	ND	500	500	471J	450J	94	90	64-109		
3&4-Methylphenol(m&p Cresol)	ug/L	ND	1000	1000	968J	902J	97	90	64-113		
Hexachloro-1,3-butadiene	ug/L	ND	500	500	358	347	72	69	43-95	3	
Hexachlorobenzene	ug/L	ND	500	500	299	294	60	59	33-80	2	
Hexachloroethane	ug/L	ND	500	500	398J	376J	80	75	44-93		
Nitrobenzene	ug/L	ND	500	500	449	428	90	86	61-126	5	
Pentachlorophenol	ug/L	ND	500	500	485J	474J	97	95	40-111		
Pyridine	ug/L	ND	500	500	239J	213J	48	43	10-63		
2,4,6-Tribromophenol (S)	%						92	92	64-115		
2-Fluorobiphenyl (S)	%						77	75	49-105		
2-Fluorophenol (S)	%						93	81	51-128		
Nitrobenzene-d5 (S)	%						88	85	38-129		
Phenol-d6 (S)	%						93	87	48-121		
Terphenyl-d14 (S)	%						68	65	10-101		

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QUALITY CONTROL DATA

Project: G10633 Miller Chemical
Pace Project No.: 30150312

QC Batch: WET/28683 | Analysis Method: EPA 1010
QC Batch Method: EPA 1010 | Analysis Description: 1010 Flash Point, Closed Cup
Associated Lab Samples: 30150312001

METHOD BLANK: 905329 | Matrix: Water
Associated Lab Samples: 30150312001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Flashpoint	deg F	>200	60.0	06/10/15 14:30	

SAMPLE DUPLICATE: 905330

Parameter	Units	30150184001 Result	Dup Result	RPD	Qualifiers
Flashpoint	deg F	>200	>200		

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QUALITY CONTROL DATA

Project: G10633 Miller Chemical
Pace Project No.: 30150312

QC Batch: WET/28697
QC Batch Method: EPA 9040B
Analysis Method: EPA 9040B
Analysis Description: 9040 pH
Associated Lab Samples: 30150312001

SAMPLE DUPLICATE: 905580

Parameter	Units	30150312001 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	6.1	6.1	0	H1,H6

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QUALITY CONTROL DATA

Project: G10633 Miller Chemical
Pace Project No.: 30150312

QC Batch: WET/38043
QC Batch Method: ASTM D5468-02
Associated Lab Samples: 30150312001

Analysis Method: ASTM D5468-02
Analysis Description: ASTM D5468-02 BTU

SAMPLE DUPLICATE: 1482013

Parameter	Units	30150312001 Result	Dup Result	RPD	Qualifiers
British Thermal Units	BTU/lb	ND	ND		N2

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QUALITY CONTROL DATA

Project: G10633 Miller Chemical
Pace Project No.: 30150312

QC Batch: WETA/20275 — Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 — Analysis Description: 351.2 TKN
Associated Lab Samples: 30150312001

METHOD BLANK: 905818 — Matrix: Water
Associated Lab Samples: 30150312001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	ND	1.0	06/11/15 14:13	

LABORATORY CONTROL SAMPLE: 905819

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	4	3.7	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 905820 905821

Parameter	Units	30149772001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	6.8	4	4	8.7	10.8	49	101	90-110	21	M1,R1

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QUALITY CONTROL DATA

Project: G10633 Miller Chemical
Pace Project No.: 30150312

QC Batch: WETA/20276 | Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 | Analysis Description: 410.4 COD
Associated Lab Samples: 30150312001

METHOD BLANK: 905957 | Matrix: Water
Associated Lab Samples: 30150312001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	25.0	06/11/15 11:45	

LABORATORY CONTROL SAMPLE: 905958

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	300	311	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 905959 905960

Parameter	Units	30149728001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chemical Oxygen Demand	mg/L	ND	150	150	174	174	108	108	90-110	0	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 905961 905962

Parameter	Units	30150244003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chemical Oxygen Demand	mg/L	ND	150	150	176	176	111	111	90-110	0	M1

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QUALITY CONTROL DATA

Project: G10633 Miller Chemical
Pace Project No.: 30150312

QC Batch: WETA/20272
QC Batch Method: SM 4500-NO3 F
Analysis Method: SM 4500-NO3 F
Analysis Description: SM4500NO3-F, Nitrate, Preserved
Associated Lab Samples: 30150312001

METHOD BLANK: 905741
Matrix: Water
Associated Lab Samples: 30150312001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	06/11/15 10:57	

LABORATORY CONTROL SAMPLE: 905742

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	4	3.9	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 905743 905744

Parameter	Units	30150312001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	950	5	5	958	891	164	-1180	90-110	7	M6

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QUALITY CONTROL DATA

Project: G10633 Miller Chemical
Pace Project No.: 30150312

QC Batch: WETA/20279
QC Batch Method: SM 4500-P E
Analysis Method: SM 4500-P E
Analysis Description: 4500PB5E Phosphorus
Associated Lab Samples: 30150312001

METHOD BLANK: 906228
Matrix: Water
Associated Lab Samples: 30150312001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	ND	0.030	06/12/15 09:07	

LABORATORY CONTROL SAMPLE: 906229

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	.4	0.42	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 906230 906231

Parameter	Units	30149498001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Phosphorus	mg/L	1.0	.4	.4	1.2	1.1	34	12	90-110	8	M6

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QUALITY CONTROL DATA

Project: G10633 Miller Chemical
Pace Project No.: 30150312

QC Batch: WETA/20268
QC Batch Method: SW-846 7.3.3.2
Associated Lab Samples: 30150312001

Analysis Method: SW-846 7.3.3.2
Analysis Description: 733C Reactive Cyanide

METHOD BLANK: 905452
Matrix: Water
Associated Lab Samples: 30150312001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide, Reactive	mg/L	ND	0.010	06/10/15 21:55	

SAMPLE DUPLICATE: 905673

Parameter	Units	30150142001 Result	Dup Result	RPD	Qualifiers
Cyanide, Reactive	mg/L	ND	ND		

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QUALITY CONTROL DATA

Project: G10633 Miller Chemical
Pace Project No.: 30150312

QC Batch: WETA/20269
QC Batch Method: SW-846 7.3.4.2
Analysis Method: SW-846 7.3.4.2
Analysis Description: 734S Reactive Sulfide
Associated Lab Samples: 30150312001

METHOD BLANK: 905458
Matrix: Water
Associated Lab Samples: 30150312001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Reactive	mg/L	ND	1.0	06/10/15 16:30	

SAMPLE DUPLICATE: 905459

Parameter	Units	30150142001 Result	Dup Result	RPD	Qualifiers
Sulfide, Reactive	mg/L	ND	ND		

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QUALITY CONTROL DATA

Project: G10633 Miller Chemical
Pace Project No.: 30150312

QC Batch: WETA/20270
QC Batch Method: SM 4500-NO2 B
Analysis Method: SM 4500-NO2 B
Analysis Description: SM4500NO2-B, Nitrite, unpres
Associated Lab Samples: 30150312001

METHOD BLANK: 905476
Matrix: Water
Associated Lab Samples: 30150312001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	ND	0.010	06/10/15 18:40	

LABORATORY CONTROL SAMPLE: 905477

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	.1	0.098	98	90-110	

MATRIX SPIKE SAMPLE: 905479

Parameter	Units	30150366001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	ND	.1	0.10	100	85-115	

SAMPLE DUPLICATE: 905478

Parameter	Units	30150366001 Result	Dup Result	RPD	Qualifiers
Nitrite as N	mg/L	ND	ND		

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QUALITY CONTROL DATA

Project: G10633 Miller Chemical
Pace Project No.: 30150312

QC Batch: WETA/20273
QC Batch Method: SM 4500-NO3 F
Analysis Method: SM 4500-NO3 F
Analysis Description: SM4500NO3-F, Nitrate, unpres
Associated Lab Samples: 30150312001

METHOD BLANK: 905745
Matrix: Water
Associated Lab Samples: 30150312001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate as N	mg/L	ND	0.10	06/11/15 10:57	

LABORATORY CONTROL SAMPLE: 905746

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	4	3.9	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 905747 905748

Parameter	Units	30150312001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Nitrate as N	mg/L	879	5	5	888	820	164	-1180	90-110	8	M6

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QUALIFIERS

Project: G10633 Miller Chemical
Pace Project No.: 30150312

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

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TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-PA	Pace Analytical Services - Greensburg

BATCH QUALIFIERS

Batch: OEXT/23984

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1c	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
2c	Emulsions were present during the extraction of this sample. Appropriate mechanical means were employed to break up the emulsions and were successful.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
H1	Analysis conducted outside the EPA method holding time.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
N2	The lab does not hold TNI accreditation for this parameter.
R1	RPD value was outside control limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: G10633 Miller Chemical
Pace Project No.: 30150312

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30150312001	**Miller - 01**	EPA 3510C	OEXT/24011	EPA 8081A	GCSV/8247
30150312001	**Miller - 01**	EPA 3510C	OEXT/23984	EPA 8082	GCSV/8238
30150312001	**Miller - 01**	EPA 3005A	MPRP/15736	EPA 6010B	ICP/14930
30150312001	**Miller - 01**	EPA 3005A	MPRP/15742	EPA 6010B	ICP/14936
30150312001	**Miller - 01**	EPA 7470A	MERP/6594	EPA 7470A	MERC/6292
30150312001	**Miller - 01**	EPA 7470A	MERP/6595	EPA 7470A	MERC/6293
30150312001	**Miller - 01**	EPA 3535A	OEXT/23996	EPA 8270C	MSSV/7726
30150312001	**Miller - 01**	EPA 8260B	MSV/23797		
30150312001	**Miller - 01**	EPA 1010	WET/28683		
30150312001	**Miller - 01**	EPA 9040B	WET/28697		
30150312001	**Miller - 01**	ASTM D5468-02	WET/38043		
30150312001	**Miller - 01**	40CFR PART 432.2	WET/28706		
30150312001	**Miller - 01**	EPA 351.2	WETA/20275		
30150312001	**Miller - 01**	EPA 410.4	WETA/20276		
30150312001	**Miller - 01**	SM 4500-NO3 F	WETA/20272		
30150312001	**Miller - 01**	SM 4500-P E	WETA/20279		
30150312001	**Miller - 01**	SW-846 7.3.3.2	WETA/20268		
30150312001	**Miller - 01**	SW-846 7.3.4.2	WETA/20269		
30150312001	**Miller - 01**	SM 4500-NO2 B	WETA/20270		
30150312001	**Miller - 01**	SM 4500-NO3 F	WETA/20273		

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