

June 10, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-318
Pace Project No.: 60170356

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 02, 2014. 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,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Bill Abernathy, Feezor Engineering
Kelly Caddy, Barr Engineering
DAN FEEZOR, FEEZOR ENGINEERING
Dana B. Pasi, Barr Engineering Co.
Brian Power, Republic Services
Brian Sehie, Republic Services
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-318

Pace Project No.: 60170356

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-13-4

Utah Certification #: KS000212013-3

Illinois Certification #: 003097

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-318

Pace Project No.: 60170356

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60170356001	316-318	Water	06/02/14 07:53	06/02/14 13:20
60170356002	TRIP BLANK	Water	06/02/14 07:53	06/02/14 13:20

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-318

Pace Project No.: 60170356

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60170356001	316-318	EPA 200.7	NDJ, SMW	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	CRT	1
		EPA 1664A	CRT	1
		SM 2540D	ESM	1
		SM 4500-H+B	NDL	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC1	1
		60170356002	TRIP BLANK	EPA 624 Low

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-318

Pace Project No.: 60170356

Sample: 316-318	Lab ID: 60170356001	Collected: 06/02/14 07:53	Received: 06/02/14 13:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Aluminum	6900	ug/L	750	2	06/03/14 17:30	06/04/14 14:33	7429-90-5	
Antimony	ND	ug/L	100	2	06/03/14 17:30	06/04/14 14:33	7440-36-0	D3
Arsenic	1150	ug/L	50.0	1	06/03/14 17:30	06/04/14 14:31	7440-38-2	
Beryllium	ND	ug/L	5.0	1	06/03/14 17:30	06/04/14 14:31	7440-41-7	
Cadmium	ND	ug/L	25.0	1	06/03/14 17:30	06/04/14 14:31	7440-43-9	
Chromium	233	ug/L	25.0	1	06/03/14 17:30	06/04/14 14:31	7440-47-3	
Cobalt	35.1	ug/L	25.0	1	06/03/14 17:30	06/04/14 14:31	7440-48-4	
Copper	ND	ug/L	50.0	1	06/03/14 17:30	06/04/14 14:31	7440-50-8	
Iron	580000	ug/L	500	2	06/03/14 17:30	06/05/14 13:02	7439-89-6	
Lead	86.1	ug/L	25.0	1	06/03/14 17:30	06/04/14 14:31	7439-92-1	
Nickel	131	ug/L	25.0	1	06/03/14 17:30	06/04/14 14:31	7440-02-0	
Selenium	ND	ug/L	75.0	1	06/03/14 17:30	06/04/14 14:31	7782-49-2	
Silver	ND	ug/L	35.0	1	06/03/14 17:30	06/04/14 14:31	7440-22-4	
Thallium	ND	ug/L	100	1	06/03/14 17:30	06/04/14 14:31	7440-28-0	
Zinc	4550	ug/L	500	2	06/03/14 17:30	06/04/14 14:33	7440-66-6	
200.7 Metals, Dissolved (LF)								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Aluminum, Dissolved	1840	ug/L	750	2	06/04/14 17:00	06/10/14 12:35	7429-90-5	
Antimony, Dissolved	81.5	ug/L	50.0	1	06/04/14 17:00	06/10/14 11:34	7440-36-0	
Arsenic, Dissolved	1080	ug/L	50.0	1	06/04/14 17:00	06/10/14 11:34	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	06/04/14 17:00	06/10/14 11:34	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	06/04/14 17:00	06/10/14 11:34	7440-43-9	
Chromium, Dissolved	197	ug/L	25.0	1	06/04/14 17:00	06/10/14 11:34	7440-47-3	
Cobalt, Dissolved	26.6	ug/L	25.0	1	06/04/14 17:00	06/10/14 11:34	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	06/04/14 17:00	06/10/14 11:34	7440-50-8	
Iron, Dissolved	351000	ug/L	250	1	06/04/14 17:00	06/10/14 11:34	7439-89-6	
Lead, Dissolved	25.4	ug/L	25.0	1	06/04/14 17:00	06/10/14 11:34	7439-92-1	
Nickel, Dissolved	107	ug/L	25.0	1	06/04/14 17:00	06/10/14 11:34	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	06/04/14 17:00	06/10/14 11:34	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	06/04/14 17:00	06/10/14 11:34	7440-22-4	
Thallium, Dissolved	ND	ug/L	200	2	06/04/14 17:00	06/10/14 12:35	7440-28-0	
Zinc, Dissolved	4090	ug/L	500	2	06/04/14 17:00	06/10/14 12:35	7440-66-6	
245.1 Mercury								
Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Mercury	ND	ug/L	6.0	1	06/05/14 13:00	06/06/14 12:52	7439-97-6	
245.1 Mercury, Dissolved (LF)								
Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Mercury, Dissolved	ND	ug/L	6.0	1	06/05/14 13:00	06/06/14 12:29	7439-97-6	
625 MSSV								
Analytical Method: EPA 625 Preparation Method: EPA 625								
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	06/05/14 00:00	06/06/14 12:22	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	06/05/14 00:00	06/06/14 12:22	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	06/05/14 00:00	06/06/14 12:22	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	06/05/14 00:00	06/06/14 12:22	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	2000	2	06/05/14 00:00	06/06/14 12:22	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	6480	ug/L	4000	2	06/05/14 00:00	06/06/14 12:22		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-318

Pace Project No.: 60170356

Sample: 316-318		Lab ID: 60170356001	Collected: 06/02/14 07:53	Received: 06/02/14 13:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	1170 ug/L		1000	2	06/05/14 00:00	06/06/14 12:22	91-20-3	
Nitrobenzene	ND ug/L		1000	2	06/05/14 00:00	06/06/14 12:22	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	06/05/14 00:00	06/06/14 12:22	87-86-5	
Phenol	7940 ug/L		1000	2	06/05/14 00:00	06/06/14 12:22	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	06/05/14 00:00	06/06/14 12:22	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	06/05/14 00:00	06/06/14 12:22	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	125 %		33-120	2	06/05/14 00:00	06/06/14 12:22	4165-60-0	S0
2-Fluorobiphenyl (S)	64 %		39-120	2	06/05/14 00:00	06/06/14 12:22	321-60-8	
Terphenyl-d14 (S)	64 %		45-120	2	06/05/14 00:00	06/06/14 12:22	1718-51-0	
Phenol-d6 (S)	25 %		11-120	2	06/05/14 00:00	06/06/14 12:22	13127-88-3	
2-Fluorophenol (S)	36 %		17-120	2	06/05/14 00:00	06/06/14 12:22	367-12-4	
2,4,6-Tribromophenol (S)	75 %		39-120	2	06/05/14 00:00	06/06/14 12:22	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	103000 ug/L		2500	250		06/03/14 13:06	67-64-1	N2
Benzene	ND ug/L		250	250		06/03/14 13:06	71-43-2	
Bromodichloromethane	ND ug/L		250	250		06/03/14 13:06	75-27-4	
Bromoform	ND ug/L		250	250		06/03/14 13:06	75-25-2	
Bromomethane	ND ug/L		1250	250		06/03/14 13:06	74-83-9	
2-Butanone (MEK)	41100 ug/L		2500	250		06/03/14 13:06	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		06/03/14 13:06	56-23-5	
Chloroethane	ND ug/L		250	250		06/03/14 13:06	75-00-3	
Chloroform	ND ug/L		250	250		06/03/14 13:06	67-66-3	
1,4-Dichlorobenzene	ND ug/L		250	250		06/03/14 13:06	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		06/03/14 13:06	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		06/03/14 13:06	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		06/03/14 13:06	156-60-5	
Ethylbenzene	ND ug/L		250	250		06/03/14 13:06	100-41-4	
Methylene chloride	ND ug/L		250	250		06/03/14 13:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		06/03/14 13:06	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		06/03/14 13:06	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		06/03/14 13:06	127-18-4	
Toluene	ND ug/L		250	250		06/03/14 13:06	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		06/03/14 13:06	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		06/03/14 13:06	79-00-5	
Trichloroethene	ND ug/L		250	250		06/03/14 13:06	79-01-6	
Vinyl chloride	ND ug/L		250	250		06/03/14 13:06	75-01-4	
Xylene (Total)	ND ug/L		750	250		06/03/14 13:06	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100 %		80-120	250		06/03/14 13:06	460-00-4	
Toluene-d8 (S)	100 %		80-120	250		06/03/14 13:06	2037-26-5	
1,2-Dichloroethane-d4 (S)	98 %		80-120	250		06/03/14 13:06	17060-07-0	
Preservation pH	6.0		1.0	250		06/03/14 13:06		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	1430 mg/L		5.0	1		06/03/14 10:48		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-318

Pace Project No.: 60170356

Sample: 316-318		Lab ID: 60170356001	Collected: 06/02/14 07:53	Received: 06/02/14 13:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	7.0	mg/L	5.0	1		06/04/14 10:27		M1
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	5500	mg/L	5.0	1		06/05/14 09:17		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.4	Std. Units	0.10	1		06/03/14 13:15		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	29200	mg/L	2.0	1	06/02/14 15:42	06/07/14 07:01		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	658	mg/L	20.0	200		06/04/14 14:07	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	55000	mg/L	5000	500		06/04/14 07:29		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-318

Pace Project No.: 60170356

Sample: TRIP BLANK		Lab ID: 60170356002	Collected: 06/02/14 07:53	Received: 06/02/14 13:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		06/03/14 12:04	67-64-1	N2
Benzene	ND ug/L		1.0	1		06/03/14 12:04	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		06/03/14 12:04	75-27-4	
Bromoform	ND ug/L		1.0	1		06/03/14 12:04	75-25-2	
Bromomethane	ND ug/L		5.0	1		06/03/14 12:04	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/03/14 12:04	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		06/03/14 12:04	56-23-5	
Chloroethane	ND ug/L		1.0	1		06/03/14 12:04	75-00-3	
Chloroform	ND ug/L		1.0	1		06/03/14 12:04	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		06/03/14 12:04	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		06/03/14 12:04	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		06/03/14 12:04	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		06/03/14 12:04	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		06/03/14 12:04	100-41-4	
Methylene chloride	ND ug/L		1.0	1		06/03/14 12:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/03/14 12:04	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		06/03/14 12:04	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		06/03/14 12:04	127-18-4	
Toluene	ND ug/L		1.0	1		06/03/14 12:04	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		06/03/14 12:04	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		06/03/14 12:04	79-00-5	
Trichloroethene	ND ug/L		1.0	1		06/03/14 12:04	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		06/03/14 12:04	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		06/03/14 12:04	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	97 %		80-120	1		06/03/14 12:04	460-00-4	
Toluene-d8 (S)	99 %		80-120	1		06/03/14 12:04	2037-26-5	
1,2-Dichloroethane-d4 (S)	96 %		80-120	1		06/03/14 12:04	17060-07-0	
Preservation pH	6.0		1.0	1		06/03/14 12:04		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-318

Pace Project No.: 60170356

QC Batch: MERP/8463

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60170356001

METHOD BLANK: 1389350

Matrix: Water

Associated Lab Samples: 60170356001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	06/06/14 12:36	

LABORATORY CONTROL SAMPLE: 1389351

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.4	109	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1389352 1389353

Parameter	Units	60170139001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Mercury	ug/L	ND	5	4.3	5	4.2	87	84	70-130	3	20	

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: BRIDGETON LF 316-318

Pace Project No.: 60170356

QC Batch: MERP/8462

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60170356001

METHOD BLANK: 1389341

Matrix: Water

Associated Lab Samples: 60170356001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	06/06/14 12:16	

LABORATORY CONTROL SAMPLE: 1389342

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.8	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1389343 1389344

Parameter	Units	60170311001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Mercury, Dissolved	ug/L	ND	150	150	92.4	92.7	62	62	70-130	0	20	M1	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-318

Pace Project No.: 60170356

QC Batch: MPRP/27481

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Total

Associated Lab Samples: 60170356001

METHOD BLANK: 1387985

Matrix: Water

Associated Lab Samples: 60170356001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	06/04/14 14:06	
Antimony	ug/L	ND	10.0	06/04/14 14:06	
Arsenic	ug/L	ND	10.0	06/04/14 14:06	
Beryllium	ug/L	ND	1.0	06/04/14 14:06	
Cadmium	ug/L	ND	5.0	06/04/14 14:06	
Chromium	ug/L	ND	5.0	06/04/14 14:06	
Cobalt	ug/L	ND	5.0	06/04/14 14:06	
Copper	ug/L	ND	10.0	06/04/14 14:06	
Iron	ug/L	ND	50.0	06/05/14 12:52	
Lead	ug/L	ND	5.0	06/04/14 14:06	
Nickel	ug/L	ND	5.0	06/04/14 14:06	
Selenium	ug/L	ND	15.0	06/04/14 14:06	
Silver	ug/L	ND	7.0	06/04/14 14:06	
Thallium	ug/L	ND	20.0	06/04/14 14:06	
Zinc	ug/L	ND	50.0	06/04/14 14:06	

LABORATORY CONTROL SAMPLE: 1387986

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	8850	88	85-115	
Antimony	ug/L	1000	964	96	85-115	
Arsenic	ug/L	1000	971	97	85-115	
Beryllium	ug/L	1000	915	92	85-115	
Cadmium	ug/L	1000	943	94	85-115	
Chromium	ug/L	1000	948	95	85-115	
Cobalt	ug/L	1000	952	95	85-115	
Copper	ug/L	1000	901	90	85-115	
Iron	ug/L	10000	9510	95	85-115	
Lead	ug/L	1000	955	95	85-115	
Nickel	ug/L	1000	997	100	85-115	
Selenium	ug/L	1000	979	98	85-115	
Silver	ug/L	500	448	90	85-115	
Thallium	ug/L	1000	967	97	85-115	
Zinc	ug/L	1000	962	96	85-115	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-318

Pace Project No.: 60170356

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1387987												1387988	
Parameter	Units	60170311001		MS	MSD	MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Aluminum	ug/L	4320	50000	50000	50300	50200	92	92	70-130	0	8		
Antimony	ug/L	ND	5000	5000	4810	4930	95	98	70-130	3	7		
Arsenic	ug/L	1210	5000	5000	6360	6350	103	103	70-130	0	10		
Beryllium	ug/L	ND	5000	5000	4500	4580	90	92	70-130	2	7		
Cadmium	ug/L	ND	5000	5000	4910	4860	98	97	70-130	1	10		
Chromium	ug/L	216	5000	5000	4930	4990	94	95	70-130	1	10		
Cobalt	ug/L	34.1	5000	5000	4590	4550	91	90	70-130	1	6		
Copper	ug/L	ND	5000	5000	4980	4980	100	100	70-130	0	11		
Iron	ug/L	471000	50000	50000	472000	507000	1	72	70-130	7	10	M1	
Lead	ug/L	59.2	5000	5000	4430	4390	87	87	70-130	1	10		
Nickel	ug/L	126	5000	5000	4810	4770	94	93	70-130	1	10		
Selenium	ug/L	ND	5000	5000	5560	5470	110	109	70-130	2	10		
Silver	ug/L	ND	2500	2500	2550	2550	101	102	70-130	0	10		
Thallium	ug/L	ND	5000	5000	4310	4290	86	86	70-130	1	6		
Zinc	ug/L	4970	5000	5000	9090	9270	82	86	70-130	2	11		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-318

Pace Project No.: 60170356

QC Batch: MPRP/27502

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Dissolved

Associated Lab Samples: 60170356001

METHOD BLANK: 1388726

Matrix: Water

Associated Lab Samples: 60170356001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	06/10/14 11:08	
Antimony, Dissolved	ug/L	ND	10.0	06/10/14 11:08	
Arsenic, Dissolved	ug/L	ND	10.0	06/10/14 11:08	
Beryllium, Dissolved	ug/L	ND	1.0	06/10/14 11:08	
Cadmium, Dissolved	ug/L	ND	5.0	06/10/14 11:08	
Chromium, Dissolved	ug/L	ND	5.0	06/10/14 11:08	
Cobalt, Dissolved	ug/L	ND	5.0	06/10/14 11:08	
Copper, Dissolved	ug/L	ND	10.0	06/10/14 11:08	
Iron, Dissolved	ug/L	ND	50.0	06/10/14 11:08	
Lead, Dissolved	ug/L	ND	5.0	06/10/14 11:08	
Nickel, Dissolved	ug/L	ND	5.0	06/10/14 11:08	
Selenium, Dissolved	ug/L	ND	15.0	06/10/14 11:08	
Silver, Dissolved	ug/L	ND	7.0	06/10/14 11:08	
Thallium, Dissolved	ug/L	ND	20.0	06/10/14 11:08	
Zinc, Dissolved	ug/L	ND	50.0	06/10/14 11:08	

LABORATORY CONTROL SAMPLE: 1388727

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9980	100	85-115	
Antimony, Dissolved	ug/L	1000	1020	102	85-115	
Arsenic, Dissolved	ug/L	1000	988	99	85-115	
Beryllium, Dissolved	ug/L	1000	1020	102	85-115	
Cadmium, Dissolved	ug/L	1000	1010	101	85-115	
Chromium, Dissolved	ug/L	1000	1000	100	85-115	
Cobalt, Dissolved	ug/L	1000	1030	103	85-115	
Copper, Dissolved	ug/L	1000	1000	100	85-115	
Iron, Dissolved	ug/L	10000	10500	105	85-115	
Lead, Dissolved	ug/L	1000	1030	103	85-115	
Nickel, Dissolved	ug/L	1000	1040	104	85-115	
Selenium, Dissolved	ug/L	1000	1020	102	85-115	
Silver, Dissolved	ug/L	500	494	99	85-115	
Thallium, Dissolved	ug/L	1000	1040	104	85-115	
Zinc, Dissolved	ug/L	1000	1010	101	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-318

Pace Project No.: 60170356

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1388728		1388729		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		60170311001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Aluminum, Dissolved	ug/L	1770	50000	50000	52200	52200	101	101	70-130	0	8		
Antimony, Dissolved	ug/L	81.2	5000	5000	5360	5330	106	105	70-130	1	7		
Arsenic, Dissolved	ug/L	1060	5000	5000	6700	6730	113	113	70-130	0	10		
Beryllium, Dissolved	ug/L	ND	5000	5000	4900	4860	98	97	70-130	1	7		
Cadmium, Dissolved	ug/L	ND	5000	5000	5320	5290	106	105	70-130	1	10		
Chromium, Dissolved	ug/L	192	5000	5000	5020	4980	97	96	70-130	1	10		
Cobalt, Dissolved	ug/L	28.8	5000	5000	4850	4800	96	95	70-130	1	6		
Copper, Dissolved	ug/L	ND	5000	5000	5320	5300	106	105	70-130	0	11		
Iron, Dissolved	ug/L	347000	50000	50000	416000	419000	137	144	70-130	1	10	M1	
Lead, Dissolved	ug/L	29.3	5000	5000	4590	4550	91	90	70-130	1	10		
Nickel, Dissolved	ug/L	94.0	5000	5000	4900	4850	96	95	70-130	1	10		
Selenium, Dissolved	ug/L	ND	5000	5000	6100	6090	121	121	70-130	0	10		
Silver, Dissolved	ug/L	ND	2500	2500	2650	2630	105	105	70-130	1	10		
Thallium, Dissolved	ug/L	ND	5000	5000	4230	4160	85	83	70-130	2	6		
Zinc, Dissolved	ug/L	4450	5000	5000	9320	9310	97	97	70-130	0	11		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-318

Pace Project No.: 60170356

QC Batch: MSV/62014 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60170356001, 60170356002

METHOD BLANK: 1387834 Matrix: Water

Associated Lab Samples: 60170356001, 60170356002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/03/14 11:33	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/03/14 11:33	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	06/03/14 11:33	
1,2-Dichloroethane	ug/L	ND	1.0	06/03/14 11:33	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/03/14 11:33	
2-Butanone (MEK)	ug/L	ND	10.0	06/03/14 11:33	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/03/14 11:33	N2
Acetone	ug/L	ND	10.0	06/03/14 11:33	N2
Benzene	ug/L	ND	1.0	06/03/14 11:33	
Bromodichloromethane	ug/L	ND	1.0	06/03/14 11:33	
Bromoform	ug/L	ND	1.0	06/03/14 11:33	
Bromomethane	ug/L	ND	5.0	06/03/14 11:33	
Carbon tetrachloride	ug/L	ND	1.0	06/03/14 11:33	
Chloroethane	ug/L	ND	1.0	06/03/14 11:33	
Chloroform	ug/L	ND	1.0	06/03/14 11:33	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/03/14 11:33	N2
Ethylbenzene	ug/L	ND	1.0	06/03/14 11:33	
Methylene chloride	ug/L	ND	1.0	06/03/14 11:33	
Tetrachloroethene	ug/L	ND	1.0	06/03/14 11:33	
Toluene	ug/L	ND	1.0	06/03/14 11:33	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/03/14 11:33	
Trichloroethene	ug/L	ND	1.0	06/03/14 11:33	
Vinyl chloride	ug/L	ND	1.0	06/03/14 11:33	
Xylene (Total)	ug/L	ND	3.0	06/03/14 11:33	N2
1,2-Dichloroethane-d4 (S)	%	102	80-120	06/03/14 11:33	
4-Bromofluorobenzene (S)	%	100	80-120	06/03/14 11:33	
Toluene-d8 (S)	%	101	80-120	06/03/14 11:33	

LABORATORY CONTROL SAMPLE: 1387835

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.0	95	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	22.0	110	67-127	N2
1,1,2-Trichloroethane	ug/L	20	19.9	100	67-124	
1,2-Dichloroethane	ug/L	20	19.0	95	70-126	
1,4-Dichlorobenzene	ug/L	20	19.4	97	74-120	
2-Butanone (MEK)	ug/L	100	102	102	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	110	110	59-131	N2
Acetone	ug/L	100	98.8	99	38-134	N2
Benzene	ug/L	20	18.8	94	75-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-318

Pace Project No.: 60170356

LABORATORY CONTROL SAMPLE: 1387835

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	20	19.7	98	68-125	
Bromoform	ug/L	20	19.9	100	65-127	
Bromomethane	ug/L	20	13.4	67	13-157	
Carbon tetrachloride	ug/L	20	19.0	95	70-131	
Chloroethane	ug/L	20	19.0	95	47-133	
Chloroform	ug/L	20	18.9	94	65-127	
cis-1,2-Dichloroethene	ug/L	20	19.6	98	68-127	N2
Ethylbenzene	ug/L	20	19.1	96	74-122	
Methylene chloride	ug/L	20	18.4	92	64-129	
Tetrachloroethene	ug/L	20	18.8	94	73-125	
Toluene	ug/L	20	18.4	92	69-126	
trans-1,2-Dichloroethene	ug/L	20	18.3	92	66-129	
Trichloroethene	ug/L	20	18.1	91	71-123	
Vinyl chloride	ug/L	20	17.4	87	43-129	
Xylene (Total)	ug/L	60	57.4	96	75-121	N2
1,2-Dichloroethane-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			104	80-120	
Toluene-d8 (S)	%			98	80-120	

MATRIX SPIKE SAMPLE: 1387836

Parameter	Units	60170355001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	4560	91	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	5170	103	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	4580	92	52-143	
1,2-Dichloroethane	ug/L	ND	5000	4360	87	49-144	
1,4-Dichlorobenzene	ug/L	288	5000	4730	89	33-140	
2-Butanone (MEK)	ug/L	41200	25000	62600	85	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	24700	97	40-160	N2
Acetone	ug/L	102000	25000	118000	61	10-160	N2
Benzene	ug/L	ND	5000	4320	86	37-151	
Bromodichloromethane	ug/L	ND	5000	4530	91	35-142	
Bromoform	ug/L	ND	5000	4540	91	45-142	
Bromomethane	ug/L	ND	5000	3250	64	10-158	
Carbon tetrachloride	ug/L	ND	5000	4760	95	70-140	
Chloroethane	ug/L	ND	5000	4070	81	19-152	
Chloroform	ug/L	ND	5000	4400	88	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	4480	90	34-147	N2
Ethylbenzene	ug/L	ND	5000	4570	91	40-142	
Methylene chloride	ug/L	ND	5000	4040	78	31-144	
Tetrachloroethene	ug/L	ND	5000	4670	93	64-148	
Toluene	ug/L	ND	5000	4460	89	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	4260	85	54-151	
Trichloroethene	ug/L	ND	5000	4300	86	71-149	
Vinyl chloride	ug/L	ND	5000	3850	77	22-146	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-318

Pace Project No.: 60170356

MATRIX SPIKE SAMPLE:		1387836					
Parameter	Units	60170355001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	ND	15000	13700	91	37-144	N2
1,2-Dichloroethane-d4 (S)	%				97	80-120	
4-Bromofluorobenzene (S)	%				106	80-120	
Toluene-d8 (S)	%				99	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-318
Pace Project No.: 60170356

QC Batch: OEXT/44501 Analysis Method: EPA 625
QC Batch Method: EPA 625 Analysis Description: 625 MSS
Associated Lab Samples: 60170356001

METHOD BLANK: 1389069 Matrix: Water
Associated Lab Samples: 60170356001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/06/14 09:13	
2,4,6-Trichlorophenol	ug/L	ND	5.0	06/06/14 09:13	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	06/06/14 09:13	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	06/06/14 09:13	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	06/06/14 09:13	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/06/14 09:13	
Hexachlorocyclopentadiene	ug/L	ND	5.0	06/06/14 09:13	
Hexachloroethane	ug/L	ND	5.0	06/06/14 09:13	
Naphthalene	ug/L	ND	5.0	06/06/14 09:13	
Nitrobenzene	ug/L	ND	5.0	06/06/14 09:13	
Pentachlorophenol	ug/L	ND	5.0	06/06/14 09:13	
Phenol	ug/L	ND	5.0	06/06/14 09:13	
2,4,6-Tribromophenol (S)	%	78	39-120	06/06/14 09:13	
2-Fluorobiphenyl (S)	%	69	39-120	06/06/14 09:13	
2-Fluorophenol (S)	%	38	17-120	06/06/14 09:13	
Nitrobenzene-d5 (S)	%	72	33-120	06/06/14 09:13	
Phenol-d6 (S)	%	25	11-120	06/06/14 09:13	
Terphenyl-d14 (S)	%	66	45-120	06/06/14 09:13	

LABORATORY CONTROL SAMPLE: 1389070

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	38.2	76	46-120	
2,4,6-Trichlorophenol	ug/L	50	38.4	77	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	28.9	58	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	27.4	55	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	43.6	87	40-133	
Hexachloro-1,3-butadiene	ug/L	50	38.8	78	44-116	
Hexachlorocyclopentadiene	ug/L	100	62.3	62	24-120	
Hexachloroethane	ug/L	50	39.7	79	43-113	
Naphthalene	ug/L	50	40.2	80	48-120	
Nitrobenzene	ug/L	50	41.2	82	48-120	
Pentachlorophenol	ug/L	50	38.8	78	47-120	
Phenol	ug/L	50	12.2	24	16-112	
2,4,6-Tribromophenol (S)	%			89	39-120	
2-Fluorobiphenyl (S)	%			78	39-120	
2-Fluorophenol (S)	%			37	17-120	
Nitrobenzene-d5 (S)	%			82	33-120	
Phenol-d6 (S)	%			23	11-120	
Terphenyl-d14 (S)	%			78	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-318

Pace Project No.: 60170356

MATRIX SPIKE SAMPLE:	1389071	60170477001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	36.2	72	44-120	
2,4,6-Trichlorophenol	ug/L	ND	50	36.6	73	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	50	22.5	45	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	50	24.6	49	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	50	39.5	79	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	50	38.1	76	39-116	
Hexachlorocyclopentadiene	ug/L	ND	100	60.5	60	11-120	
Hexachloroethane	ug/L	ND	50	36.2	72	40-113	
Naphthalene	ug/L	ND	50	36.5	73	45-120	
Nitrobenzene	ug/L	ND	50	46.7	93	38-120	
Pentachlorophenol	ug/L	ND	50	36.8	74	43-135	
Phenol	ug/L	ND	50	10.7	21	13-112	
2,4,6-Tribromophenol (S)	%				84	39-120	
2-Fluorobiphenyl (S)	%				73	39-120	
2-Fluorophenol (S)	%				33	17-120	
Nitrobenzene-d5 (S)	%				76	33-120	
Phenol-d6 (S)	%				23	11-120	
Terphenyl-d14 (S)	%				75	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-318

Pace Project No.: 60170356

QC Batch:	WET/48194	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60170356001		

METHOD BLANK: 1387827 Matrix: Water

Associated Lab Samples: 60170356001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	06/03/14 10:41	

LABORATORY CONTROL SAMPLE: 1387828

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	36.9	92	78-114	

MATRIX SPIKE SAMPLE: 1387849

Parameter	Units	60170130001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	1670	167	2160	290	78-114	M1

SAMPLE DUPLICATE: 1387850

Parameter	Units	60170239001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	1200	1160	4	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-318

Pace Project No.: 60170356

QC Batch: WET/48214

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60170356001

METHOD BLANK: 1388457

Matrix: Water

Associated Lab Samples: 60170356001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	06/04/14 10:25	

LABORATORY CONTROL SAMPLE: 1388458

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	23.6	118	64-132	

MATRIX SPIKE SAMPLE: 1388460

Parameter	Units	60170356001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	7.0	76.9	115	141	64-132	M1

SAMPLE DUPLICATE: 1388459

Parameter	Units	60169935001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	148	118	23	34	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-318

Pace Project No.: 60170356

QC Batch: WET/48239

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60170356001

METHOD BLANK: 1389165

Matrix: Water

Associated Lab Samples: 60170356001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	06/05/14 09:13	

SAMPLE DUPLICATE: 1389166

Parameter	Units	60170381001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	847	817	4	10	

SAMPLE DUPLICATE: 1389167

Parameter	Units	60170421004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	87.0	79.0	10	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-318

Pace Project No.: 60170356

QC Batch: WET/48195 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60170356001

SAMPLE DUPLICATE: 1387831

Parameter	Units	60170381001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.7	7.8	1	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-318

Pace Project No.: 60170356

QC Batch: WET/48181

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60170356001

METHOD BLANK: 1387259

Matrix: Water

Associated Lab Samples: 60170356001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	06/07/14 06:39	

LABORATORY CONTROL SAMPLE: 1387260

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	171	86	85-115	

SAMPLE DUPLICATE: 1387261

Parameter	Units	60170356001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	29200	29800	2	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-318
Pace Project No.: 60170356

QC Batch: WETA/29696 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60170356001

METHOD BLANK: 1388432 Matrix: Water
Associated Lab Samples: 60170356001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	06/04/14 13:35	

LABORATORY CONTROL SAMPLE: 1388433

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	104	90-110	

MATRIX SPIKE SAMPLE: 1388434

Parameter	Units	60170128002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	14.6	10	22.7	81	90-110	M1

MATRIX SPIKE SAMPLE: 1388435

Parameter	Units	60170174002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.11	2	2.0	97	90-110	

SAMPLE DUPLICATE: 1388436

Parameter	Units	60170226004 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-318

Pace Project No.: 60170356

QC Batch:	WETA/29666	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60170356001		

METHOD BLANK: 1387646 Matrix: Water
Associated Lab Samples: 60170356001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	06/04/14 07:18	

LABORATORY CONTROL SAMPLE: 1387647

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	51.2	102	90-110	

MATRIX SPIKE SAMPLE: 1387648

Parameter	Units	60170279001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	ND	50	60.6	115	90-110	M1

MATRIX SPIKE SAMPLE: 1387650

Parameter	Units	60170355001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	56100	25000	78800	91	90-110	

SAMPLE DUPLICATE: 1387649

Parameter	Units	60170073001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	65.7	64.8	1	25	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 316-318

Pace Project No.: 60170356

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.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

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.

N2 The lab does not hold TNI accreditation for this parameter.

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-318

Pace Project No.: 60170356

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60170356001	316-318	EPA 200.7	MPRP/27481	EPA 200.7	ICP/20801
60170356001	316-318	EPA 200.7	MPRP/27502	EPA 200.7	ICP/20811
60170356001	316-318	EPA 245.1	MERP/8463	EPA 245.1	MERC/8418
60170356001	316-318	EPA 245.1	MERP/8462	EPA 245.1	MERC/8417
60170356001	316-318	EPA 625	OEXT/44501	EPA 625	MSSV/14242
60170356001	316-318	EPA 624 Low	MSV/62014		
60170356002	TRIP BLANK	EPA 624 Low	MSV/62014		
60170356001	316-318	EPA 1664A	WET/48194		
60170356001	316-318	EPA 1664A	WET/48214		
60170356001	316-318	SM 2540D	WET/48239		
60170356001	316-318	SM 4500-H+B	WET/48195		
60170356001	316-318	SM 5210B	WET/48181	SM 5210B	WET/48316
60170356001	316-318	EPA 350.1	WETA/29696		
60170356001	316-318	EPA 410.4	WETA/29666		

REPORT OF LABORATORY ANALYSIS

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WO#: 60170356



Sample Condition Upon Receipt

Client Name: Bar

Optional
Proj Due Date:
Proj Name:

Courier: Fed Ex UPS USPS Client Commercial Pace Other Grads

Tracking #: _____ Pace Shipping Label Used? Yes No

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other

Thermometer Used: T-239 / T-194 Type of Ice: Vet Blue None Samples received on ice, cooling process has begun.

Cooler Temperature: 5.8

Date and initials of person examining contents: W 6/2/14

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>Bar pH</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix: <u>WT</u>		13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>HNO3 initial pH ~5.0; added 2.5ml; final pH ~4.0</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<u>H2SO4 initial pH ~5.0; added 2ml; final pH ~3.0</u>
Exceptions: VOA, coliform, TOC, <u>O&G</u> WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>W</u> Lot # of added preservative <u>12513-23-2 12522-2-7</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank lot # (if purchased): <u>May 08</u>		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <u>ND</u>

Client Notification/ Resolution: Copy COC to Client? Y N Field Data Required? Y N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: [Signature]

June 10, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-317
Pace Project No.: 60170357

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 02, 2014. 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,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Bill Abernathy, Feezor Engineering
Kelly Caddy, Barr Engineering
DAN FEEZOR, FEEZOR ENGINEERING
Dana B. Pasi, Barr Engineering Co.
Brian Power, Republic Services
Brian Sehie, Republic Services
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-317

Pace Project No.: 60170357

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-13-4

Utah Certification #: KS000212013-3

Illinois Certification #: 003097

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-317

Pace Project No.: 60170357

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60170357001	316-317	Water	06/01/14 08:30	06/02/14 13:20
60170357002	TRIP BLANK	Water	06/01/14 08:30	06/02/14 13:20

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-317

Pace Project No.: 60170357

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60170357001	316-317	EPA 200.7	NDJ, SMW	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	CRT	1
		EPA 1664A	CRT	1
		SM 2540D	ESM	1
		SM 4500-H+B	NDL	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC1	1
		60170357002	TRIP BLANK	EPA 624 Low

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-317

Pace Project No.: 60170357

Sample: 316-317		Lab ID: 60170357001	Collected: 06/01/14 08:30	Received: 06/02/14 13:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	4770 ug/L		750	2	06/03/14 17:30	06/04/14 14:38	7429-90-5	
Antimony	ND ug/L		100	2	06/03/14 17:30	06/04/14 14:38	7440-36-0	D3
Arsenic	1230 ug/L		50.0	1	06/03/14 17:30	06/04/14 14:35	7440-38-2	
Beryllium	ND ug/L		5.0	1	06/03/14 17:30	06/04/14 14:35	7440-41-7	
Cadmium	ND ug/L		25.0	1	06/03/14 17:30	06/04/14 14:35	7440-43-9	
Chromium	221 ug/L		25.0	1	06/03/14 17:30	06/04/14 14:35	7440-47-3	
Cobalt	34.5 ug/L		25.0	1	06/03/14 17:30	06/04/14 14:35	7440-48-4	
Copper	65.6 ug/L		50.0	1	06/03/14 17:30	06/04/14 14:35	7440-50-8	
Iron	447000 ug/L		500	2	06/03/14 17:30	06/05/14 13:04	7439-89-6	
Lead	57.0 ug/L		25.0	1	06/03/14 17:30	06/04/14 14:35	7439-92-1	
Nickel	134 ug/L		25.0	1	06/03/14 17:30	06/04/14 14:35	7440-02-0	
Selenium	ND ug/L		75.0	1	06/03/14 17:30	06/04/14 14:35	7782-49-2	
Silver	ND ug/L		35.0	1	06/03/14 17:30	06/04/14 14:35	7440-22-4	
Thallium	ND ug/L		100	1	06/03/14 17:30	06/04/14 14:35	7440-28-0	
Zinc	4870 ug/L		500	2	06/03/14 17:30	06/04/14 14:38	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	1750 ug/L		750	2	06/04/14 17:00	06/10/14 11:42	7429-90-5	
Antimony, Dissolved	77.5 ug/L		50.0	1	06/04/14 17:00	06/10/14 11:39	7440-36-0	
Arsenic, Dissolved	1190 ug/L		50.0	1	06/04/14 17:00	06/10/14 11:39	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	06/04/14 17:00	06/10/14 11:39	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	06/04/14 17:00	06/10/14 11:39	7440-43-9	
Chromium, Dissolved	213 ug/L		25.0	1	06/04/14 17:00	06/10/14 11:39	7440-47-3	
Cobalt, Dissolved	28.9 ug/L		25.0	1	06/04/14 17:00	06/10/14 11:39	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	06/04/14 17:00	06/10/14 11:39	7440-50-8	
Iron, Dissolved	361000 ug/L		250	1	06/04/14 17:00	06/10/14 11:39	7439-89-6	
Lead, Dissolved	ND ug/L		25.0	1	06/04/14 17:00	06/10/14 11:39	7439-92-1	
Nickel, Dissolved	108 ug/L		25.0	1	06/04/14 17:00	06/10/14 11:39	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	06/04/14 17:00	06/10/14 11:39	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	06/04/14 17:00	06/10/14 11:39	7440-22-4	
Thallium, Dissolved	ND ug/L		200	2	06/04/14 17:00	06/10/14 11:42	7440-28-0	
Zinc, Dissolved	4270 ug/L		500	2	06/04/14 17:00	06/10/14 11:42	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	ND ug/L		6.0	1	06/05/14 13:00	06/06/14 12:54	7439-97-6	
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND ug/L		6.0	1	06/05/14 13:00	06/06/14 12:32	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	06/05/14 00:00	06/06/14 12:44	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	06/05/14 00:00	06/06/14 12:44	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	06/05/14 00:00	06/06/14 12:44	77-47-4	
Hexachloroethane	ND ug/L		1000	2	06/05/14 00:00	06/06/14 12:44	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	2	06/05/14 00:00	06/06/14 12:44	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	6210 ug/L		4000	2	06/05/14 00:00	06/06/14 12:44		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-317

Pace Project No.: 60170357

Sample: 316-317 **Lab ID: 60170357001** Collected: 06/01/14 08:30 Received: 06/02/14 13:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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625 MSSV

Analytical Method: EPA 625 Preparation Method: EPA 625

Naphthalene	ND ug/L		1000	2	06/05/14 00:00	06/06/14 12:44	91-20-3	
Nitrobenzene	ND ug/L		1000	2	06/05/14 00:00	06/06/14 12:44	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	06/05/14 00:00	06/06/14 12:44	87-86-5	
Phenol	8400 ug/L		1000	2	06/05/14 00:00	06/06/14 12:44	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	06/05/14 00:00	06/06/14 12:44	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	06/05/14 00:00	06/06/14 12:44	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	143 %		33-120	2	06/05/14 00:00	06/06/14 12:44	4165-60-0	S0
2-Fluorobiphenyl (S)	72 %		39-120	2	06/05/14 00:00	06/06/14 12:44	321-60-8	
Terphenyl-d14 (S)	70 %		45-120	2	06/05/14 00:00	06/06/14 12:44	1718-51-0	
Phenol-d6 (S)	31 %		11-120	2	06/05/14 00:00	06/06/14 12:44	13127-88-3	
2-Fluorophenol (S)	42 %		17-120	2	06/05/14 00:00	06/06/14 12:44	367-12-4	
2,4,6-Tribromophenol (S)	80 %		39-120	2	06/05/14 00:00	06/06/14 12:44	118-79-6	

624 Volatile Organics

Analytical Method: EPA 624 Low

Acetone	100000 ug/L		2500	250		06/03/14 13:22	67-64-1	N2
Benzene	ND ug/L		250	250		06/03/14 13:22	71-43-2	
Bromodichloromethane	ND ug/L		250	250		06/03/14 13:22	75-27-4	
Bromoform	ND ug/L		250	250		06/03/14 13:22	75-25-2	
Bromomethane	ND ug/L		1250	250		06/03/14 13:22	74-83-9	
2-Butanone (MEK)	40600 ug/L		2500	250		06/03/14 13:22	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		06/03/14 13:22	56-23-5	
Chloroethane	ND ug/L		250	250		06/03/14 13:22	75-00-3	
Chloroform	ND ug/L		250	250		06/03/14 13:22	67-66-3	
1,4-Dichlorobenzene	ND ug/L		250	250		06/03/14 13:22	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		06/03/14 13:22	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		06/03/14 13:22	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		06/03/14 13:22	156-60-5	
Ethylbenzene	ND ug/L		250	250		06/03/14 13:22	100-41-4	
Methylene chloride	ND ug/L		250	250		06/03/14 13:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		06/03/14 13:22	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		06/03/14 13:22	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		06/03/14 13:22	127-18-4	
Toluene	ND ug/L		250	250		06/03/14 13:22	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		06/03/14 13:22	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		06/03/14 13:22	79-00-5	
Trichloroethene	ND ug/L		250	250		06/03/14 13:22	79-01-6	
Vinyl chloride	ND ug/L		250	250		06/03/14 13:22	75-01-4	
Xylene (Total)	ND ug/L		750	250		06/03/14 13:22	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	99 %		80-120	250		06/03/14 13:22	460-00-4	
Toluene-d8 (S)	99 %		80-120	250		06/03/14 13:22	2037-26-5	
1,2-Dichloroethane-d4 (S)	98 %		80-120	250		06/03/14 13:22	17060-07-0	
Preservation pH	6.0		1.0	250		06/03/14 13:22		

HEM, Oil and Grease

Analytical Method: EPA 1664A

Oil and Grease	758 mg/L		5.0	1		06/05/14 08:18		M1
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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-317

Pace Project No.: 60170357

Sample: 316-317		Lab ID: 60170357001	Collected: 06/01/14 08:30	Received: 06/02/14 13:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	9.2 mg/L		5.0	1		06/05/14 08:39		M1
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	5320 mg/L		5.0	1		06/05/14 09:17		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.5 Std. Units		0.10	1		06/03/14 13:15		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	29300 mg/L		2.0	1	06/02/14 15:39	06/07/14 06:55		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	639 mg/L		20.0	200		06/04/14 14:09	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	52300 mg/L		5000	500		06/04/14 07:29		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-317

Pace Project No.: 60170357

Sample: TRIP BLANK		Lab ID: 60170357002	Collected: 06/01/14 08:30	Received: 06/02/14 13:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		06/03/14 12:20	67-64-1	N2
Benzene	ND ug/L		1.0	1		06/03/14 12:20	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		06/03/14 12:20	75-27-4	
Bromoform	ND ug/L		1.0	1		06/03/14 12:20	75-25-2	
Bromomethane	ND ug/L		5.0	1		06/03/14 12:20	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/03/14 12:20	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		06/03/14 12:20	56-23-5	
Chloroethane	ND ug/L		1.0	1		06/03/14 12:20	75-00-3	
Chloroform	ND ug/L		1.0	1		06/03/14 12:20	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		06/03/14 12:20	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		06/03/14 12:20	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		06/03/14 12:20	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		06/03/14 12:20	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		06/03/14 12:20	100-41-4	
Methylene chloride	ND ug/L		1.0	1		06/03/14 12:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/03/14 12:20	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		06/03/14 12:20	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		06/03/14 12:20	127-18-4	
Toluene	ND ug/L		1.0	1		06/03/14 12:20	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		06/03/14 12:20	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		06/03/14 12:20	79-00-5	
Trichloroethene	ND ug/L		1.0	1		06/03/14 12:20	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		06/03/14 12:20	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		06/03/14 12:20	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	99 %		80-120	1		06/03/14 12:20	460-00-4	
Toluene-d8 (S)	98 %		80-120	1		06/03/14 12:20	2037-26-5	
1,2-Dichloroethane-d4 (S)	94 %		80-120	1		06/03/14 12:20	17060-07-0	
Preservation pH	6.0		1.0	1		06/03/14 12:20		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-317

Pace Project No.: 60170357

QC Batch:	MERP/8463	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
Associated Lab Samples:	60170357001		

METHOD BLANK: 1389350 Matrix: Water
Associated Lab Samples: 60170357001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	06/06/14 12:36	

LABORATORY CONTROL SAMPLE: 1389351

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.4	109	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1389352 1389353

Parameter	Units	60170139001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits		
Mercury	ug/L	ND	5	5	4.3	4.2	87	84	70-130	3	20

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-317

Pace Project No.: 60170357

QC Batch:	MERP/8462	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury - Dissolved
Associated Lab Samples:	60170357001		

METHOD BLANK: 1389341 Matrix: Water
Associated Lab Samples: 60170357001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	06/06/14 12:16	

LABORATORY CONTROL SAMPLE: 1389342

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.8	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1389343 1389344

Parameter	Units	60170311001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Mercury, Dissolved	ug/L	ND	150	150	92.4	92.7	62	62	70-130	0	20	M1	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-317
Pace Project No.: 60170357

QC Batch: MPRP/27481 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60170357001

METHOD BLANK: 1387985 Matrix: Water
Associated Lab Samples: 60170357001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	06/04/14 14:06	
Antimony	ug/L	ND	10.0	06/04/14 14:06	
Arsenic	ug/L	ND	10.0	06/04/14 14:06	
Beryllium	ug/L	ND	1.0	06/04/14 14:06	
Cadmium	ug/L	ND	5.0	06/04/14 14:06	
Chromium	ug/L	ND	5.0	06/04/14 14:06	
Cobalt	ug/L	ND	5.0	06/04/14 14:06	
Copper	ug/L	ND	10.0	06/04/14 14:06	
Iron	ug/L	ND	50.0	06/05/14 12:52	
Lead	ug/L	ND	5.0	06/04/14 14:06	
Nickel	ug/L	ND	5.0	06/04/14 14:06	
Selenium	ug/L	ND	15.0	06/04/14 14:06	
Silver	ug/L	ND	7.0	06/04/14 14:06	
Thallium	ug/L	ND	20.0	06/04/14 14:06	
Zinc	ug/L	ND	50.0	06/04/14 14:06	

LABORATORY CONTROL SAMPLE: 1387986

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	8850	88	85-115	
Antimony	ug/L	1000	964	96	85-115	
Arsenic	ug/L	1000	971	97	85-115	
Beryllium	ug/L	1000	915	92	85-115	
Cadmium	ug/L	1000	943	94	85-115	
Chromium	ug/L	1000	948	95	85-115	
Cobalt	ug/L	1000	952	95	85-115	
Copper	ug/L	1000	901	90	85-115	
Iron	ug/L	10000	9510	95	85-115	
Lead	ug/L	1000	955	95	85-115	
Nickel	ug/L	1000	997	100	85-115	
Selenium	ug/L	1000	979	98	85-115	
Silver	ug/L	500	448	90	85-115	
Thallium	ug/L	1000	967	97	85-115	
Zinc	ug/L	1000	962	96	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-317

Pace Project No.: 60170357

Parameter	Units	60170311001		MS		MSD		MS		MSD		% Rec	% Rec	Limits	RPD	RPD	Max	Qual
		Result	Conc.	Spike	Conc.	Result	Conc.	Result	Conc.	Result	Conc.							
Aluminum	ug/L	4320	50000	50000	50000	50300	50200	92	92	70-130	0	8						
Antimony	ug/L	ND	5000	5000	5000	4810	4930	95	98	70-130	3	7						
Arsenic	ug/L	1210	5000	5000	5000	6360	6350	103	103	70-130	0	10						
Beryllium	ug/L	ND	5000	5000	5000	4500	4580	90	92	70-130	2	7						
Cadmium	ug/L	ND	5000	5000	5000	4910	4860	98	97	70-130	1	10						
Chromium	ug/L	216	5000	5000	5000	4930	4990	94	95	70-130	1	10						
Cobalt	ug/L	34.1	5000	5000	5000	4590	4550	91	90	70-130	1	6						
Copper	ug/L	ND	5000	5000	5000	4980	4980	100	100	70-130	0	11						
Iron	ug/L	471000	50000	50000	50000	472000	507000	1	72	70-130	7	10	M1					
Lead	ug/L	59.2	5000	5000	5000	4430	4390	87	87	70-130	1	10						
Nickel	ug/L	126	5000	5000	5000	4810	4770	94	93	70-130	1	10						
Selenium	ug/L	ND	5000	5000	5000	5560	5470	110	109	70-130	2	10						
Silver	ug/L	ND	2500	2500	2500	2550	2550	101	102	70-130	0	10						
Thallium	ug/L	ND	5000	5000	5000	4310	4290	86	86	70-130	1	6						
Zinc	ug/L	4970	5000	5000	5000	9090	9270	82	86	70-130	2	11						

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-317
Pace Project No.: 60170357

QC Batch: MPRP/27502 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60170357001

METHOD BLANK: 1388726 Matrix: Water
Associated Lab Samples: 60170357001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	06/10/14 11:08	
Antimony, Dissolved	ug/L	ND	10.0	06/10/14 11:08	
Arsenic, Dissolved	ug/L	ND	10.0	06/10/14 11:08	
Beryllium, Dissolved	ug/L	ND	1.0	06/10/14 11:08	
Cadmium, Dissolved	ug/L	ND	5.0	06/10/14 11:08	
Chromium, Dissolved	ug/L	ND	5.0	06/10/14 11:08	
Cobalt, Dissolved	ug/L	ND	5.0	06/10/14 11:08	
Copper, Dissolved	ug/L	ND	10.0	06/10/14 11:08	
Iron, Dissolved	ug/L	ND	50.0	06/10/14 11:08	
Lead, Dissolved	ug/L	ND	5.0	06/10/14 11:08	
Nickel, Dissolved	ug/L	ND	5.0	06/10/14 11:08	
Selenium, Dissolved	ug/L	ND	15.0	06/10/14 11:08	
Silver, Dissolved	ug/L	ND	7.0	06/10/14 11:08	
Thallium, Dissolved	ug/L	ND	20.0	06/10/14 11:08	
Zinc, Dissolved	ug/L	ND	50.0	06/10/14 11:08	

LABORATORY CONTROL SAMPLE: 1388727

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9980	100	85-115	
Antimony, Dissolved	ug/L	1000	1020	102	85-115	
Arsenic, Dissolved	ug/L	1000	988	99	85-115	
Beryllium, Dissolved	ug/L	1000	1020	102	85-115	
Cadmium, Dissolved	ug/L	1000	1010	101	85-115	
Chromium, Dissolved	ug/L	1000	1000	100	85-115	
Cobalt, Dissolved	ug/L	1000	1030	103	85-115	
Copper, Dissolved	ug/L	1000	1000	100	85-115	
Iron, Dissolved	ug/L	10000	10500	105	85-115	
Lead, Dissolved	ug/L	1000	1030	103	85-115	
Nickel, Dissolved	ug/L	1000	1040	104	85-115	
Selenium, Dissolved	ug/L	1000	1020	102	85-115	
Silver, Dissolved	ug/L	500	494	99	85-115	
Thallium, Dissolved	ug/L	1000	1040	104	85-115	
Zinc, Dissolved	ug/L	1000	1010	101	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-317

Pace Project No.: 60170357

Parameter	Units	60170311001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max	RPD	Qual
		Result	Conc.	Spike	Conc.	Result	Result	% Rec	% Rec								
MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1388728				1388729													
Aluminum, Dissolved	ug/L	1770	50000	50000	52200	52200	101	101	70-130	0	8						
Antimony, Dissolved	ug/L	81.2	5000	5000	5360	5330	106	105	70-130	1	7						
Arsenic, Dissolved	ug/L	1060	5000	5000	6700	6730	113	113	70-130	0	10						
Beryllium, Dissolved	ug/L	ND	5000	5000	4900	4860	98	97	70-130	1	7						
Cadmium, Dissolved	ug/L	ND	5000	5000	5320	5290	106	105	70-130	1	10						
Chromium, Dissolved	ug/L	192	5000	5000	5020	4980	97	96	70-130	1	10						
Cobalt, Dissolved	ug/L	28.8	5000	5000	4850	4800	96	95	70-130	1	6						
Copper, Dissolved	ug/L	ND	5000	5000	5320	5300	106	105	70-130	0	11						
Iron, Dissolved	ug/L	347000	50000	50000	416000	419000	137	144	70-130	1	10	M1					
Lead, Dissolved	ug/L	29.3	5000	5000	4590	4550	91	90	70-130	1	10						
Nickel, Dissolved	ug/L	94.0	5000	5000	4900	4850	96	95	70-130	1	10						
Selenium, Dissolved	ug/L	ND	5000	5000	6100	6090	121	121	70-130	0	10						
Silver, Dissolved	ug/L	ND	2500	2500	2650	2630	105	105	70-130	1	10						
Thallium, Dissolved	ug/L	ND	5000	5000	4230	4160	85	83	70-130	2	6						
Zinc, Dissolved	ug/L	4450	5000	5000	9320	9310	97	97	70-130	0	11						

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-317

Pace Project No.: 60170357

QC Batch: MSV/62014 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60170357001, 60170357002

METHOD BLANK: 1387834 Matrix: Water

Associated Lab Samples: 60170357001, 60170357002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/03/14 11:33	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/03/14 11:33	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	06/03/14 11:33	
1,2-Dichloroethane	ug/L	ND	1.0	06/03/14 11:33	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/03/14 11:33	
2-Butanone (MEK)	ug/L	ND	10.0	06/03/14 11:33	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/03/14 11:33	N2
Acetone	ug/L	ND	10.0	06/03/14 11:33	N2
Benzene	ug/L	ND	1.0	06/03/14 11:33	
Bromodichloromethane	ug/L	ND	1.0	06/03/14 11:33	
Bromoform	ug/L	ND	1.0	06/03/14 11:33	
Bromomethane	ug/L	ND	5.0	06/03/14 11:33	
Carbon tetrachloride	ug/L	ND	1.0	06/03/14 11:33	
Chloroethane	ug/L	ND	1.0	06/03/14 11:33	
Chloroform	ug/L	ND	1.0	06/03/14 11:33	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/03/14 11:33	N2
Ethylbenzene	ug/L	ND	1.0	06/03/14 11:33	
Methylene chloride	ug/L	ND	1.0	06/03/14 11:33	
Tetrachloroethene	ug/L	ND	1.0	06/03/14 11:33	
Toluene	ug/L	ND	1.0	06/03/14 11:33	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/03/14 11:33	
Trichloroethene	ug/L	ND	1.0	06/03/14 11:33	
Vinyl chloride	ug/L	ND	1.0	06/03/14 11:33	
Xylene (Total)	ug/L	ND	3.0	06/03/14 11:33	N2
1,2-Dichloroethane-d4 (S)	%	102	80-120	06/03/14 11:33	
4-Bromofluorobenzene (S)	%	100	80-120	06/03/14 11:33	
Toluene-d8 (S)	%	101	80-120	06/03/14 11:33	

LABORATORY CONTROL SAMPLE: 1387835

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.0	95	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	22.0	110	67-127	N2
1,1,2-Trichloroethane	ug/L	20	19.9	100	67-124	
1,2-Dichloroethane	ug/L	20	19.0	95	70-126	
1,4-Dichlorobenzene	ug/L	20	19.4	97	74-120	
2-Butanone (MEK)	ug/L	100	102	102	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	110	110	59-131	N2
Acetone	ug/L	100	98.8	99	38-134	N2
Benzene	ug/L	20	18.8	94	75-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-317

Pace Project No.: 60170357

LABORATORY CONTROL SAMPLE: 1387835

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	20	19.7	98	68-125	
Bromoform	ug/L	20	19.9	100	65-127	
Bromomethane	ug/L	20	13.4	67	13-157	
Carbon tetrachloride	ug/L	20	19.0	95	70-131	
Chloroethane	ug/L	20	19.0	95	47-133	
Chloroform	ug/L	20	18.9	94	65-127	
cis-1,2-Dichloroethene	ug/L	20	19.6	98	68-127	N2
Ethylbenzene	ug/L	20	19.1	96	74-122	
Methylene chloride	ug/L	20	18.4	92	64-129	
Tetrachloroethene	ug/L	20	18.8	94	73-125	
Toluene	ug/L	20	18.4	92	69-126	
trans-1,2-Dichloroethene	ug/L	20	18.3	92	66-129	
Trichloroethene	ug/L	20	18.1	91	71-123	
Vinyl chloride	ug/L	20	17.4	87	43-129	
Xylene (Total)	ug/L	60	57.4	96	75-121	N2
1,2-Dichloroethane-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			104	80-120	
Toluene-d8 (S)	%			98	80-120	

MATRIX SPIKE SAMPLE: 1387836

Parameter	Units	60170355001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	4560	91	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	5170	103	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	4580	92	52-143	
1,2-Dichloroethane	ug/L	ND	5000	4360	87	49-144	
1,4-Dichlorobenzene	ug/L	288	5000	4730	89	33-140	
2-Butanone (MEK)	ug/L	41200	25000	62600	85	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	24700	97	40-160	N2
Acetone	ug/L	102000	25000	118000	61	10-160	N2
Benzene	ug/L	ND	5000	4320	86	37-151	
Bromodichloromethane	ug/L	ND	5000	4530	91	35-142	
Bromoform	ug/L	ND	5000	4540	91	45-142	
Bromomethane	ug/L	ND	5000	3250	64	10-158	
Carbon tetrachloride	ug/L	ND	5000	4760	95	70-140	
Chloroethane	ug/L	ND	5000	4070	81	19-152	
Chloroform	ug/L	ND	5000	4400	88	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	4480	90	34-147	N2
Ethylbenzene	ug/L	ND	5000	4570	91	40-142	
Methylene chloride	ug/L	ND	5000	4040	78	31-144	
Tetrachloroethene	ug/L	ND	5000	4670	93	64-148	
Toluene	ug/L	ND	5000	4460	89	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	4260	85	54-151	
Trichloroethene	ug/L	ND	5000	4300	86	71-149	
Vinyl chloride	ug/L	ND	5000	3850	77	22-146	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-317

Pace Project No.: 60170357

MATRIX SPIKE SAMPLE:		1387836							
Parameter	Units	60170355001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers		
Xylene (Total)	ug/L	ND	15000	13700	91	37-144	N2		
1,2-Dichloroethane-d4 (S)	%				97	80-120			
4-Bromofluorobenzene (S)	%				106	80-120			
Toluene-d8 (S)	%				99	80-120			
Preservation pH		6.0		6.0					

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-317

Pace Project No.: 60170357

QC Batch: OEXT/44501 Analysis Method: EPA 625
 QC Batch Method: EPA 625 Analysis Description: 625 MSS
 Associated Lab Samples: 60170357001

METHOD BLANK: 1389069 Matrix: Water

Associated Lab Samples: 60170357001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/06/14 09:13	
2,4,6-Trichlorophenol	ug/L	ND	5.0	06/06/14 09:13	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	06/06/14 09:13	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	06/06/14 09:13	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	06/06/14 09:13	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/06/14 09:13	
Hexachlorocyclopentadiene	ug/L	ND	5.0	06/06/14 09:13	
Hexachloroethane	ug/L	ND	5.0	06/06/14 09:13	
Naphthalene	ug/L	ND	5.0	06/06/14 09:13	
Nitrobenzene	ug/L	ND	5.0	06/06/14 09:13	
Pentachlorophenol	ug/L	ND	5.0	06/06/14 09:13	
Phenol	ug/L	ND	5.0	06/06/14 09:13	
2,4,6-Tribromophenol (S)	%	78	39-120	06/06/14 09:13	
2-Fluorobiphenyl (S)	%	69	39-120	06/06/14 09:13	
2-Fluorophenol (S)	%	38	17-120	06/06/14 09:13	
Nitrobenzene-d5 (S)	%	72	33-120	06/06/14 09:13	
Phenol-d6 (S)	%	25	11-120	06/06/14 09:13	
Terphenyl-d14 (S)	%	66	45-120	06/06/14 09:13	

LABORATORY CONTROL SAMPLE: 1389070

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	38.2	76	46-120	
2,4,6-Trichlorophenol	ug/L	50	38.4	77	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	28.9	58	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	27.4	55	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	43.6	87	40-133	
Hexachloro-1,3-butadiene	ug/L	50	38.8	78	44-116	
Hexachlorocyclopentadiene	ug/L	100	62.3	62	24-120	
Hexachloroethane	ug/L	50	39.7	79	43-113	
Naphthalene	ug/L	50	40.2	80	48-120	
Nitrobenzene	ug/L	50	41.2	82	48-120	
Pentachlorophenol	ug/L	50	38.8	78	47-120	
Phenol	ug/L	50	12.2	24	16-112	
2,4,6-Tribromophenol (S)	%			89	39-120	
2-Fluorobiphenyl (S)	%			78	39-120	
2-Fluorophenol (S)	%			37	17-120	
Nitrobenzene-d5 (S)	%			82	33-120	
Phenol-d6 (S)	%			23	11-120	
Terphenyl-d14 (S)	%			78	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-317

Pace Project No.: 60170357

MATRIX SPIKE SAMPLE:	1389071						
Parameter	Units	60170477001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	36.2	72	44-120	
2,4,6-Trichlorophenol	ug/L	ND	50	36.6	73	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	50	22.5	45	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	50	24.6	49	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	50	39.5	79	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	50	38.1	76	39-116	
Hexachlorocyclopentadiene	ug/L	ND	100	60.5	60	11-120	
Hexachloroethane	ug/L	ND	50	36.2	72	40-113	
Naphthalene	ug/L	ND	50	36.5	73	45-120	
Nitrobenzene	ug/L	ND	50	46.7	93	38-120	
Pentachlorophenol	ug/L	ND	50	36.8	74	43-135	
Phenol	ug/L	ND	50	10.7	21	13-112	
2,4,6-Tribromophenol (S)	%				84	39-120	
2-Fluorobiphenyl (S)	%				73	39-120	
2-Fluorophenol (S)	%				33	17-120	
Nitrobenzene-d5 (S)	%				76	33-120	
Phenol-d6 (S)	%				23	11-120	
Terphenyl-d14 (S)	%				75	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-317

Pace Project No.: 60170357

QC Batch:	WET/48233	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60170357001		

METHOD BLANK: 1388900 Matrix: Water

Associated Lab Samples: 60170357001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	06/05/14 08:11	

LABORATORY CONTROL SAMPLE: 1388901

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	34.1	85	78-114	

MATRIX SPIKE SAMPLE: 1389107

Parameter	Units	60170357001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	758	167	991	140	78-114	M1

SAMPLE DUPLICATE: 1389108

Parameter	Units	60170509001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	890	932	5	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-317

Pace Project No.: 60170357

QC Batch:	WET/48238	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60170357001		

METHOD BLANK: 1389113 Matrix: Water
Associated Lab Samples: 60170357001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	06/05/14 08:37	

LABORATORY CONTROL SAMPLE: 1389114

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	24.0	120	64-132	

MATRIX SPIKE SAMPLE: 1389115

Parameter	Units	60170357001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	9.2	83.3	33.3	29	64-132	M1

SAMPLE DUPLICATE: 1389116

Parameter	Units	60170509001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	15.7	14.3	9	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-317

Pace Project No.: 60170357

QC Batch: WET/48239

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60170357001

METHOD BLANK: 1389165

Matrix: Water

Associated Lab Samples: 60170357001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	06/05/14 09:13	

SAMPLE DUPLICATE: 1389166

Parameter	Units	60170381001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	847	817	4	10	

SAMPLE DUPLICATE: 1389167

Parameter	Units	60170421004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	87.0	79.0	10	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-317

Pace Project No.: 60170357

QC Batch: WET/48195 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60170357001

SAMPLE DUPLICATE: 1387831

Parameter	Units	60170381001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.7	7.8	1	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-317

Pace Project No.: 60170357

QC Batch: WET/48181

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60170357001

METHOD BLANK: 1387259

Matrix: Water

Associated Lab Samples: 60170357001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	06/07/14 06:39	

LABORATORY CONTROL SAMPLE: 1387260

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	171	86	85-115	

SAMPLE DUPLICATE: 1387261

Parameter	Units	60170356001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	29200	29800	2	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-317

Pace Project No.: 60170357

QC Batch: WETA/29696

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 60170357001

METHOD BLANK: 1388432

Matrix: Water

Associated Lab Samples: 60170357001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	06/04/14 13:35	

LABORATORY CONTROL SAMPLE: 1388433

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	104	90-110	

MATRIX SPIKE SAMPLE: 1388434

Parameter	Units	60170128002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	14.6	10	22.7	81	90-110	M1

MATRIX SPIKE SAMPLE: 1388435

Parameter	Units	60170174002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.11	2	2.0	97	90-110	

SAMPLE DUPLICATE: 1388436

Parameter	Units	60170226004 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-317
Pace Project No.: 60170357

QC Batch: WETA/29666 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 60170357001

METHOD BLANK: 1387646 Matrix: Water
Associated Lab Samples: 60170357001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	06/04/14 07:18	

LABORATORY CONTROL SAMPLE: 1387647

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	51.2	102	90-110	

MATRIX SPIKE SAMPLE: 1387648

Parameter	Units	60170279001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	ND	50	60.6	115	90-110	M1

MATRIX SPIKE SAMPLE: 1387650

Parameter	Units	60170355001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	56100	25000	78800	91	90-110	

SAMPLE DUPLICATE: 1387649

Parameter	Units	60170073001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	65.7	64.8	1	25	

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QUALIFIERS

Project: BRIDGETON LF 316-317

Pace Project No.: 60170357

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.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

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.

N2 The lab does not hold TNI accreditation for this parameter.

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-317

Pace Project No.: 60170357

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60170357001	316-317	EPA 200.7	MPRP/27481	EPA 200.7	ICP/20801
60170357001	316-317	EPA 200.7	MPRP/27502	EPA 200.7	ICP/20811
60170357001	316-317	EPA 245.1	MERP/8463	EPA 245.1	MERC/8418
60170357001	316-317	EPA 245.1	MERP/8462	EPA 245.1	MERC/8417
60170357001	316-317	EPA 625	OEXT/44501	EPA 625	MSSV/14242
60170357001	316-317	EPA 624 Low	MSV/62014		
60170357002	TRIP BLANK	EPA 624 Low	MSV/62014		
60170357001	316-317	EPA 1664A	WET/48233		
60170357001	316-317	EPA 1664A	WET/48238		
60170357001	316-317	SM 2540D	WET/48239		
60170357001	316-317	SM 4500-H+B	WET/48195		
60170357001	316-317	SM 5210B	WET/48181	SM 5210B	WET/48316
60170357001	316-317	EPA 350.1	WETA/29696		
60170357001	316-317	EPA 410.4	WETA/29666		

REPORT OF LABORATORY ANALYSIS

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WO#: 60170357



Sample Condition Upon Receipt

Client Name: Bar

Courier: Fed Ex UPS USPS Client Commercial Pace Other Grades

Tracking #: _____ Pace Shipping Label Used? Yes No

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other

Thermometer Used: T-239 / T-194 Type of Ice: (Wet) Blue None Samples received on ice, cooling process has begun.

Cooler Temperature: 4.4
Temperature should be above freezing to 6°C

Optional
Proj Due Date:
Proj Name:

Date and initials of person examining contents: W 6/2/14

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>Bar pH</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix: <u>WT</u>		13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>HNO3 initial pH ~5.0; added 2.5 ml; final pH ~4.0</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<u>H2SO4 initial pH ~5.0; added 2 ml; final pH ~3.0</u>
Exceptions: VOA, coliform, TOC, <u>O&G</u> , WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>W</u> Lot # of added preservative <u>12513-23-2</u> <u>12522-2-7</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank lot # (if purchased): <u>May 08</u>		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <u>MO</u>

Client Notification/ Resolution: Copy COC to Client? Y N Field Data Required? Y N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 6/2/14



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A

Required Client Information:

Company:	BARR ENGINEERING
Address:	
Email To:	
Phone:	(816) 285-8410 Fax
Requested Due Date/TAT:	10 Day (Default)

Section B

Required Project Information:

Report To:	ED GALBRAITH/BARR
Copy To:	SCOTT FEDAK/FEEZOR DANA BAKER/MARGARET TREANOR -BARR
Purchase Order No.:	
Client Project ID:	BRIDGETON LF
Container Order Number:	

Section C

Invoice Information:

Attention:	AMY HARGROVE/BRIAN POWER
Company Name:	REPUBLIC SERVICES
Address:	BRIDGETON, MO 63044
Pace Quote Reference:	130426_7588
Pace Project Manager:	Brown, Angie
Pace Profile #:	7585 LINE 2

Page:	1	Of	1
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Regulatory Agency	
State / Location	Missouri

ITEM#	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analyses Test Y/N	Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)																								
				DATE	TIME	DATE	TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2SO3	Methanol	Other	COD EPA 410	pH SM 4500H+B		LF DIS. METALS 200.7/245	TOTAL METALS 200.7/245	AMMONIA EPA 350	O/G EPA 1664	625 SVOCs	VOCs EPA 624	TSS SM2540D	TPH/HEM-SGT 1664	BOD SM 5210B																												
1	316-317	OT	G	6/1/14	0830				10	4	1	0						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X																
2	TRIP BLANK							2	2																																																
3																																																									
4																																																									
5																																																									
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11																																																									
12																																																									

00170557
 2(NEW) 3(AES) 2(RDZ)
 BOW 0035²⁰ 003N⁴⁰
 5(NEW) 01
 2(NEW) 02
 METALS LIST total & LF Dis:
 Al, Sb, As, Be, Cd, Cr,
 Co, Cu, Fe, Pb, Ni, Se, Ag, Tl, Zn
 and Mercury

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SITE CONTACT: BILL ABERNATHY 314-502-1299		6-2-14	9:00am		6-2-14	9:00am				
SITE ADDRESS: BRIDGETON LF					6/2/14	1320	4.4	Y	Y	Y
13570 ST. CHARLES ROCK RD										
BRIDGETON MO 63044										

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:			TEMP in C
SIGNATURE of SAMPLER:			Received on Ice (Y/N)
DATE Signed: 6/1/14		WILLIAM ABERNATHY	Custody Sealed Cooler (Y/N)
			Samples Intact (Y/N)

June 11, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-319
Pace Project No.: 60170509

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 04, 2014. 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,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Bill Abernathy, Feezor Engineering
Kelly Caddy, Barr Engineering
DAN FEEZOR, FEEZOR ENGINEERING
Dana B. Pasi, Barr Engineering Co.
Brian Power, Republic Services
Brian Sehie, Republic Services
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-319

Pace Project No.: 60170509

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-13-4

Utah Certification #: KS000212013-3

Illinois Certification #: 003097

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-319

Pace Project No.: 60170509

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60170509001	316-319	Water	06/03/14 09:12	06/04/14 02:05
60170509002	TRIP BLANK	Water	06/03/14 00:00	06/04/14 02:05

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-319

Pace Project No.: 60170509

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60170509001	316-319	EPA 200.7	NDJ	15
		EPA 200.7	JGP	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	CRT	1
		EPA 1664A	CRT	1
		SM 2540D	ESM	1
		SM 4500-H+B	DJR	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC1	1
		60170509002	TRIP BLANK	EPA 624 Low

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-319

Pace Project No.: 60170509

Sample: 316-319		Lab ID: 60170509001	Collected: 06/03/14 09:12	Received: 06/04/14 02:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	6920 ug/L		750	2	06/05/14 10:55	06/10/14 17:20	7429-90-5	
Antimony	150 ug/L		50.0	1	06/05/14 10:55	06/10/14 17:34	7440-36-0	
Arsenic	1400 ug/L		50.0	1	06/05/14 10:55	06/10/14 17:34	7440-38-2	
Beryllium	ND ug/L		5.0	1	06/05/14 10:55	06/10/14 17:34	7440-41-7	
Cadmium	32.4 ug/L		25.0	1	06/05/14 10:55	06/10/14 17:34	7440-43-9	
Chromium	310 ug/L		25.0	1	06/05/14 10:55	06/10/14 17:34	7440-47-3	
Cobalt	39.0 ug/L		25.0	1	06/05/14 10:55	06/10/14 17:34	7440-48-4	
Copper	ND ug/L		50.0	1	06/05/14 10:55	06/10/14 17:34	7440-50-8	
Iron	742000 ug/L		250	1	06/05/14 10:55	06/11/14 10:47	7439-89-6	M1
Lead	77.0 ug/L		25.0	1	06/05/14 10:55	06/10/14 17:34	7439-92-1	
Nickel	150 ug/L		25.0	1	06/05/14 10:55	06/10/14 17:34	7440-02-0	
Selenium	78.0 ug/L		75.0	1	06/05/14 10:55	06/10/14 17:34	7782-49-2	M1
Silver	ND ug/L		35.0	1	06/05/14 10:55	06/10/14 17:34	7440-22-4	
Thallium	ND ug/L		200	2	06/05/14 10:55	06/10/14 17:20	7440-28-0	D3
Zinc	5430 ug/L		500	2	06/05/14 10:55	06/10/14 17:20	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	1740 ug/L		750	2	06/06/14 10:45	06/10/14 17:41	7429-90-5	
Antimony, Dissolved	ND ug/L		100	2	06/06/14 10:45	06/11/14 08:25	7440-36-0	D3
Arsenic, Dissolved	1020 ug/L		50.0	1	06/06/14 10:45	06/11/14 08:21	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	06/06/14 10:45	06/10/14 17:37	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	06/06/14 10:45	06/11/14 08:21	7440-43-9	
Chromium, Dissolved	191 ug/L		25.0	1	06/06/14 10:45	06/10/14 17:37	7440-47-3	
Cobalt, Dissolved	ND ug/L		25.0	1	06/06/14 10:45	06/11/14 08:21	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	06/06/14 10:45	06/10/14 17:37	7440-50-8	
Iron, Dissolved	370000 ug/L		250	1	06/06/14 10:45	06/10/14 17:37	7439-89-6	M1
Lead, Dissolved	44.0 ug/L		25.0	1	06/06/14 10:45	06/11/14 08:21	7439-92-1	
Nickel, Dissolved	104 ug/L		25.0	1	06/06/14 10:45	06/11/14 08:21	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	06/06/14 10:45	06/11/14 08:21	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	06/06/14 10:45	06/10/14 17:37	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	06/06/14 10:45	06/11/14 08:21	7440-28-0	
Zinc, Dissolved	4210 ug/L		500	2	06/06/14 10:45	06/11/14 08:25	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	10.5 ug/L		6.0	1	06/05/14 13:00	06/06/14 13:03	7439-97-6	
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND ug/L		6.0	1	06/05/14 13:00	06/06/14 12:34	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	06/05/14 00:00	06/06/14 13:05	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	06/05/14 00:00	06/06/14 13:05	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	06/05/14 00:00	06/06/14 13:05	77-47-4	
Hexachloroethane	ND ug/L		1000	2	06/05/14 00:00	06/06/14 13:05	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	2	06/05/14 00:00	06/06/14 13:05	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	6480 ug/L		4000	2	06/05/14 00:00	06/06/14 13:05		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-319

Pace Project No.: 60170509

Sample: 316-319		Lab ID: 60170509001	Collected: 06/03/14 09:12	Received: 06/04/14 02:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	ND ug/L		1000	2	06/05/14 00:00	06/06/14 13:05	91-20-3	
Nitrobenzene	ND ug/L		1000	2	06/05/14 00:00	06/06/14 13:05	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	06/05/14 00:00	06/06/14 13:05	87-86-5	
Phenol	8460 ug/L		1000	2	06/05/14 00:00	06/06/14 13:05	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	06/05/14 00:00	06/06/14 13:05	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	06/05/14 00:00	06/06/14 13:05	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	131 %		33-120	2	06/05/14 00:00	06/06/14 13:05	4165-60-0	S0
2-Fluorobiphenyl (S)	72 %		39-120	2	06/05/14 00:00	06/06/14 13:05	321-60-8	
Terphenyl-d14 (S)	71 %		45-120	2	06/05/14 00:00	06/06/14 13:05	1718-51-0	
Phenol-d6 (S)	29 %		11-120	2	06/05/14 00:00	06/06/14 13:05	13127-88-3	
2-Fluorophenol (S)	41 %		17-120	2	06/05/14 00:00	06/06/14 13:05	367-12-4	
2,4,6-Tribromophenol (S)	87 %		39-120	2	06/05/14 00:00	06/06/14 13:05	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	101000 ug/L		2500	250		06/06/14 20:10	67-64-1	M1,N2
Benzene	ND ug/L		250	250		06/06/14 20:10	71-43-2	
Bromodichloromethane	ND ug/L		250	250		06/06/14 20:10	75-27-4	
Bromoform	ND ug/L		250	250		06/06/14 20:10	75-25-2	
Bromomethane	ND ug/L		1250	250		06/06/14 20:10	74-83-9	
2-Butanone (MEK)	43000 ug/L		2500	250		06/06/14 20:10	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		06/06/14 20:10	56-23-5	
Chloroethane	ND ug/L		250	250		06/06/14 20:10	75-00-3	
Chloroform	ND ug/L		250	250		06/06/14 20:10	67-66-3	
1,4-Dichlorobenzene	ND ug/L		250	250		06/06/14 20:10	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		06/06/14 20:10	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		06/06/14 20:10	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		06/06/14 20:10	156-60-5	
Ethylbenzene	ND ug/L		250	250		06/06/14 20:10	100-41-4	
Methylene chloride	ND ug/L		250	250		06/06/14 20:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		06/06/14 20:10	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		06/06/14 20:10	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		06/06/14 20:10	127-18-4	
Toluene	ND ug/L		250	250		06/06/14 20:10	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		06/06/14 20:10	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		06/06/14 20:10	79-00-5	
Trichloroethene	ND ug/L		250	250		06/06/14 20:10	79-01-6	
Vinyl chloride	ND ug/L		250	250		06/06/14 20:10	75-01-4	
Xylene (Total)	ND ug/L		750	250		06/06/14 20:10	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	101 %		80-120	250		06/06/14 20:10	460-00-4	
Toluene-d8 (S)	98 %		80-120	250		06/06/14 20:10	2037-26-5	
1,2-Dichloroethane-d4 (S)	94 %		80-120	250		06/06/14 20:10	17060-07-0	
Preservation pH	6.0		1.0	250		06/06/14 20:10		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	890 mg/L		5.0	1		06/05/14 08:19		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-319

Pace Project No.: 60170509

Sample: 316-319		Lab ID: 60170509001	Collected: 06/03/14 09:12	Received: 06/04/14 02:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	15.7	mg/L	5.0	1		06/05/14 08:40		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	4800	mg/L	5.0	1		06/09/14 09:10		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.4	Std. Units		1		06/06/13 15:00		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	32300	mg/L	2.0	1	06/04/14 17:37	06/09/14 14:42		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	674	mg/L	20.0	200		06/06/14 13:54	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	55300	mg/L	5000	500		06/09/14 07:37		M1

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-319

Pace Project No.: 60170509

Sample: TRIP BLANK		Lab ID: 60170509002	Collected: 06/03/14 00:00	Received: 06/04/14 02:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		06/06/14 19:39	67-64-1	N2
Benzene	ND ug/L		1.0	1		06/06/14 19:39	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		06/06/14 19:39	75-27-4	
Bromoform	ND ug/L		1.0	1		06/06/14 19:39	75-25-2	
Bromomethane	ND ug/L		5.0	1		06/06/14 19:39	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/06/14 19:39	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		06/06/14 19:39	56-23-5	
Chloroethane	ND ug/L		1.0	1		06/06/14 19:39	75-00-3	
Chloroform	ND ug/L		1.0	1		06/06/14 19:39	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		06/06/14 19:39	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		06/06/14 19:39	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		06/06/14 19:39	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		06/06/14 19:39	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		06/06/14 19:39	100-41-4	
Methylene chloride	ND ug/L		1.0	1		06/06/14 19:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/06/14 19:39	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		06/06/14 19:39	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		06/06/14 19:39	127-18-4	
Toluene	ND ug/L		1.0	1		06/06/14 19:39	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		06/06/14 19:39	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		06/06/14 19:39	79-00-5	
Trichloroethene	ND ug/L		1.0	1		06/06/14 19:39	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		06/06/14 19:39	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		06/06/14 19:39	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	99 %		80-120	1		06/06/14 19:39	460-00-4	
Toluene-d8 (S)	98 %		80-120	1		06/06/14 19:39	2037-26-5	
1,2-Dichloroethane-d4 (S)	91 %		80-120	1		06/06/14 19:39	17060-07-0	
Preservation pH	6.0		1.0	1		06/06/14 19:39		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-319

Pace Project No.: 60170509

QC Batch:	MERP/8463	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
Associated Lab Samples:	60170509001		

METHOD BLANK: 1389350 Matrix: Water
Associated Lab Samples: 60170509001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	06/06/14 12:36	

LABORATORY CONTROL SAMPLE: 1389351

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.4	109	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1389352 1389353

Parameter	Units	60170139001		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	ND	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	% Rec	MSD % Rec						
Mercury	ug/L	ND	5	5	4.3	4.2	87	84	70-130	3	20				

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-319

Pace Project No.: 60170509

QC Batch: MERP/8462

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60170509001

METHOD BLANK: 1389341

Matrix: Water

Associated Lab Samples: 60170509001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	06/06/14 12:16	

LABORATORY CONTROL SAMPLE: 1389342

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.8	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1389343 1389344

Parameter	Units	60170311001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Mercury, Dissolved	ug/L	ND	150	150	92.4	92.7	62	62	70-130	0	20	M1	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-319

Pace Project No.: 60170509

QC Batch:	MPRP/27501	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
Associated Lab Samples:	60170509001		

METHOD BLANK: 1388722 Matrix: Water

Associated Lab Samples: 60170509001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	06/10/14 17:18	
Antimony	ug/L	ND	10.0	06/10/14 17:18	
Arsenic	ug/L	ND	10.0	06/10/14 17:18	
Beryllium	ug/L	ND	1.0	06/10/14 17:18	
Cadmium	ug/L	ND	5.0	06/10/14 17:18	
Chromium	ug/L	ND	5.0	06/10/14 17:18	
Cobalt	ug/L	ND	5.0	06/10/14 17:18	
Copper	ug/L	ND	10.0	06/10/14 17:18	
Iron	ug/L	ND	50.0	06/11/14 10:26	
Lead	ug/L	ND	5.0	06/10/14 17:18	
Nickel	ug/L	ND	5.0	06/10/14 17:18	
Selenium	ug/L	ND	15.0	06/10/14 17:18	
Silver	ug/L	ND	7.0	06/10/14 17:18	
Thallium	ug/L	ND	20.0	06/10/14 17:18	
Zinc	ug/L	ND	50.0	06/10/14 17:18	

LABORATORY CONTROL SAMPLE: 1388723

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10400	104	85-115	
Antimony	ug/L	1000	1060	106	85-115	
Arsenic	ug/L	1000	1010	101	85-115	
Beryllium	ug/L	1000	1070	107	85-115	
Cadmium	ug/L	1000	1040	104	85-115	
Chromium	ug/L	1000	1040	104	85-115	
Cobalt	ug/L	1000	1060	106	85-115	
Copper	ug/L	1000	1030	103	85-115	
Iron	ug/L	10000	9780	98	85-115	
Lead	ug/L	1000	1080	108	85-115	
Nickel	ug/L	1000	1090	109	85-115	
Selenium	ug/L	1000	1060	106	85-115	
Silver	ug/L	500	522	104	85-115	
Thallium	ug/L	1000	1070	107	85-115	
Zinc	ug/L	1000	1070	107	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-319

Pace Project No.: 60170509

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1388724		1388725									
Parameter	Units	60170509001	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	RPD	RPD	Qual
		Result	Spike	Spike	Result	Result	% Rec	% Rec	Limits				
Aluminum	ug/L	6920	50000	50000	64800	61900	116	110	70-130	5	8		
Antimony	ug/L	150	5000	5000	5780	5740	113	112	70-130	1	7		
Arsenic	ug/L	1400	5000	5000	7440	7200	121	116	70-130	3	10		
Beryllium	ug/L	ND	5000	5000	5160	5160	103	103	70-130	0	7		
Cadmium	ug/L	32.4	5000	5000	5650	5610	112	112	70-130	1	10		
Chromium	ug/L	310	5000	5000	5400	5360	102	101	70-130	1	10		
Cobalt	ug/L	39.0	5000	5000	5120	5120	102	102	70-130	0	6		
Copper	ug/L	ND	5000	5000	5720	5650	114	112	70-130	1	11		
Iron	ug/L	742000	50000	50000	818000	760000	154	37	70-130	7	10	M1	
Lead	ug/L	77.0	5000	5000	4910	4910	97	97	70-130	0	10		
Nickel	ug/L	150	5000	5000	5280	5280	103	102	70-130	0	10		
Selenium	ug/L	78.0	5000	5000	6720	6600	133	130	70-130	2	10	M1	
Silver	ug/L	ND	2500	2500	2900	2860	115	114	70-130	1	10		
Thallium	ug/L	ND	5000	5000	4350	4400	87	88	70-130	1	6		
Zinc	ug/L	5430	5000	5000	10500	9760	101	87	70-130	7	11		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-319

Pace Project No.: 60170509

QC Batch: MPRP/27537

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Dissolved

Associated Lab Samples: 60170509001

METHOD BLANK: 1390159

Matrix: Water

Associated Lab Samples: 60170509001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	06/10/14 17:34	
Antimony, Dissolved	ug/L	ND	10.0	06/11/14 08:14	
Arsenic, Dissolved	ug/L	ND	10.0	06/11/14 08:14	
Beryllium, Dissolved	ug/L	ND	1.0	06/10/14 17:34	
Cadmium, Dissolved	ug/L	ND	5.0	06/11/14 08:14	
Chromium, Dissolved	ug/L	ND	5.0	06/10/14 17:34	
Cobalt, Dissolved	ug/L	ND	5.0	06/11/14 08:14	
Copper, Dissolved	ug/L	ND	10.0	06/10/14 17:34	
Iron, Dissolved	ug/L	ND	50.0	06/10/14 17:34	
Lead, Dissolved	ug/L	ND	5.0	06/11/14 08:14	
Nickel, Dissolved	ug/L	ND	5.0	06/11/14 08:14	
Selenium, Dissolved	ug/L	ND	15.0	06/11/14 08:14	
Silver, Dissolved	ug/L	ND	7.0	06/10/14 17:34	
Thallium, Dissolved	ug/L	ND	20.0	06/11/14 08:14	
Zinc, Dissolved	ug/L	ND	50.0	06/11/14 08:14	

LABORATORY CONTROL SAMPLE: 1390160

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9210	92	85-115	
Antimony, Dissolved	ug/L	1000	986	99	85-115	
Arsenic, Dissolved	ug/L	1000	959	96	85-115	
Beryllium, Dissolved	ug/L	1000	950	95	85-115	
Cadmium, Dissolved	ug/L	1000	982	98	85-115	
Chromium, Dissolved	ug/L	1000	927	93	85-115	
Cobalt, Dissolved	ug/L	1000	983	98	85-115	
Copper, Dissolved	ug/L	1000	925	93	85-115	
Iron, Dissolved	ug/L	10000	9390	94	85-115	
Lead, Dissolved	ug/L	1000	989	99	85-115	
Nickel, Dissolved	ug/L	1000	1000	100	85-115	
Selenium, Dissolved	ug/L	1000	970	97	85-115	
Silver, Dissolved	ug/L	500	457	91	85-115	
Thallium, Dissolved	ug/L	1000	1010	101	85-115	
Zinc, Dissolved	ug/L	1000	972	97	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-319

Pace Project No.: 60170509

Parameter	Units	60170509001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec							
Aluminum, Dissolved	ug/L	1740	50000	50000	48400	47700	93	92	70-130	1	8					
Antimony, Dissolved	ug/L	ND	5000	5000	5310	5240	106	104	70-130	1	7					
Arsenic, Dissolved	ug/L	1020	5000	5000	6560	6440	111	108	70-130	2	10					
Beryllium, Dissolved	ug/L	ND	5000	5000	4770	4690	95	94	70-130	2	7					
Cadmium, Dissolved	ug/L	ND	5000	5000	5350	5290	107	106	70-130	1	10					
Chromium, Dissolved	ug/L	191	5000	5000	5020	4870	97	94	70-130	3	10					
Cobalt, Dissolved	ug/L	ND	5000	5000	4860	4820	97	96	70-130	1	6					
Copper, Dissolved	ug/L	ND	5000	5000	4830	4740	97	95	70-130	2	11					
Iron, Dissolved	ug/L	370000	50000	50000	420000	397000	99	54	70-130	5	10 M1					
Lead, Dissolved	ug/L	44.0	5000	5000	4670	4630	93	92	70-130	1	10					
Nickel, Dissolved	ug/L	104	5000	5000	5060	5000	99	98	70-130	1	10					
Selenium, Dissolved	ug/L	ND	5000	5000	5860	5780	116	114	70-130	2	10					
Silver, Dissolved	ug/L	ND	2500	2500	2520	2490	100	99	70-130	1	10					
Thallium, Dissolved	ug/L	ND	5000	5000	4470	4440	89	89	70-130	1	6					
Zinc, Dissolved	ug/L	4210	5000	5000	9140	8820	99	92	70-130	4	11					

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-319

Pace Project No.: 60170509

QC Batch: MSV/62126 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60170509001, 60170509002

METHOD BLANK: 1390435 Matrix: Water

Associated Lab Samples: 60170509001, 60170509002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/06/14 19:24	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/06/14 19:24	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	06/06/14 19:24	
1,2-Dichloroethane	ug/L	ND	1.0	06/06/14 19:24	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/06/14 19:24	
2-Butanone (MEK)	ug/L	ND	10.0	06/06/14 19:24	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/06/14 19:24	N2
Acetone	ug/L	ND	10.0	06/06/14 19:24	N2
Benzene	ug/L	ND	1.0	06/06/14 19:24	
Bromodichloromethane	ug/L	ND	1.0	06/06/14 19:24	
Bromoform	ug/L	ND	1.0	06/06/14 19:24	
Bromomethane	ug/L	ND	5.0	06/06/14 19:24	
Carbon tetrachloride	ug/L	ND	1.0	06/06/14 19:24	
Chloroethane	ug/L	ND	1.0	06/06/14 19:24	
Chloroform	ug/L	ND	1.0	06/06/14 19:24	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/06/14 19:24	N2
Ethylbenzene	ug/L	ND	1.0	06/06/14 19:24	
Methylene chloride	ug/L	ND	1.0	06/06/14 19:24	
Tetrachloroethene	ug/L	ND	1.0	06/06/14 19:24	
Toluene	ug/L	ND	1.0	06/06/14 19:24	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/06/14 19:24	
Trichloroethene	ug/L	ND	1.0	06/06/14 19:24	
Vinyl chloride	ug/L	ND	1.0	06/06/14 19:24	
Xylene (Total)	ug/L	ND	3.0	06/06/14 19:24	N2
1,2-Dichloroethane-d4 (S)	%	97	80-120	06/06/14 19:24	
4-Bromofluorobenzene (S)	%	99	80-120	06/06/14 19:24	
Toluene-d8 (S)	%	98	80-120	06/06/14 19:24	

LABORATORY CONTROL SAMPLE: 1390436

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	17.6	88	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	20.7	104	67-127	N2
1,1,2-Trichloroethane	ug/L	20	19.8	99	67-124	
1,2-Dichloroethane	ug/L	20	18.3	92	70-126	
1,4-Dichlorobenzene	ug/L	20	18.4	92	74-120	
2-Butanone (MEK)	ug/L	100	103	103	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	112	112	59-131	N2
Acetone	ug/L	100	94.7	95	38-134	N2
Benzene	ug/L	20	18.3	91	75-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-319

Pace Project No.: 60170509

LABORATORY CONTROL SAMPLE: 1390436

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	20	18.6	93	68-125	
Bromoform	ug/L	20	17.1	86	65-127	
Bromomethane	ug/L	20	4.3J	21	13-157	
Carbon tetrachloride	ug/L	20	16.7	84	70-131	
Chloroethane	ug/L	20	22.4	112	47-133	
Chloroform	ug/L	20	18.1	90	65-127	
cis-1,2-Dichloroethene	ug/L	20	18.5	93	68-127	N2
Ethylbenzene	ug/L	20	18.2	91	74-122	
Methylene chloride	ug/L	20	17.4	87	64-129	
Tetrachloroethene	ug/L	20	17.9	89	73-125	
Toluene	ug/L	20	17.5	88	69-126	
trans-1,2-Dichloroethene	ug/L	20	16.9	84	66-129	
Trichloroethene	ug/L	20	17.5	87	71-123	
Vinyl chloride	ug/L	20	12.9	65	43-129	
Xylene (Total)	ug/L	60	56.5	94	75-121	N2
1,2-Dichloroethane-d4 (S)	%			102	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			97	80-120	

MATRIX SPIKE SAMPLE: 1390437

Parameter	Units	60170509001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	4210	84	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	4550	91	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	4460	89	52-143	
1,2-Dichloroethane	ug/L	ND	5000	3970	79	49-144	
1,4-Dichlorobenzene	ug/L	ND	5000	4410	86	33-140	
2-Butanone (MEK)	ug/L	43000	25000	73600	122	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	23200	91	40-160	N2
Acetone	ug/L	101000	25000	144000	172	10-160	M1,N2
Benzene	ug/L	ND	5000	4140	83	37-151	
Bromodichloromethane	ug/L	ND	5000	4020	80	35-142	
Bromoform	ug/L	ND	5000	4130	83	45-142	
Bromomethane	ug/L	ND	5000	1450	29	10-158	
Carbon tetrachloride	ug/L	ND	5000	4160	83	70-140	
Chloroethane	ug/L	ND	5000	3740	75	19-152	
Chloroform	ug/L	ND	5000	4130	83	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	4340	87	34-147	N2
Ethylbenzene	ug/L	ND	5000	4330	87	40-142	
Methylene chloride	ug/L	ND	5000	3960	78	31-144	
Tetrachloroethene	ug/L	ND	5000	4530	91	64-148	
Toluene	ug/L	ND	5000	4140	83	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	3970	79	54-151	
Trichloroethene	ug/L	ND	5000	4010	80	71-149	
Vinyl chloride	ug/L	ND	5000	3150	63	22-146	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-319

Pace Project No.: 60170509

MATRIX SPIKE SAMPLE:		1390437					
Parameter	Units	60170509001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	ND	15000	13100	87	37-144	N2
1,2-Dichloroethane-d4 (S)	%				94	80-120	
4-Bromofluorobenzene (S)	%				100	80-120	
Toluene-d8 (S)	%				98	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-319

Pace Project No.: 60170509

QC Batch: OEXT/44501 Analysis Method: EPA 625
 QC Batch Method: EPA 625 Analysis Description: 625 MSS
 Associated Lab Samples: 60170509001

METHOD BLANK: 1389069 Matrix: Water

Associated Lab Samples: 60170509001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/06/14 09:13	
2,4,6-Trichlorophenol	ug/L	ND	5.0	06/06/14 09:13	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	06/06/14 09:13	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	06/06/14 09:13	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	06/06/14 09:13	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/06/14 09:13	
Hexachlorocyclopentadiene	ug/L	ND	5.0	06/06/14 09:13	
Hexachloroethane	ug/L	ND	5.0	06/06/14 09:13	
Naphthalene	ug/L	ND	5.0	06/06/14 09:13	
Nitrobenzene	ug/L	ND	5.0	06/06/14 09:13	
Pentachlorophenol	ug/L	ND	5.0	06/06/14 09:13	
Phenol	ug/L	ND	5.0	06/06/14 09:13	
2,4,6-Tribromophenol (S)	%	78	39-120	06/06/14 09:13	
2-Fluorobiphenyl (S)	%	69	39-120	06/06/14 09:13	
2-Fluorophenol (S)	%	38	17-120	06/06/14 09:13	
Nitrobenzene-d5 (S)	%	72	33-120	06/06/14 09:13	
Phenol-d6 (S)	%	25	11-120	06/06/14 09:13	
Terphenyl-d14 (S)	%	66	45-120	06/06/14 09:13	

LABORATORY CONTROL SAMPLE: 1389070

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	38.2	76	46-120	
2,4,6-Trichlorophenol	ug/L	50	38.4	77	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	28.9	58	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	27.4	55	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	43.6	87	40-133	
Hexachloro-1,3-butadiene	ug/L	50	38.8	78	44-116	
Hexachlorocyclopentadiene	ug/L	100	62.3	62	24-120	
Hexachloroethane	ug/L	50	39.7	79	43-113	
Naphthalene	ug/L	50	40.2	80	48-120	
Nitrobenzene	ug/L	50	41.2	82	48-120	
Pentachlorophenol	ug/L	50	38.8	78	47-120	
Phenol	ug/L	50	12.2	24	16-112	
2,4,6-Tribromophenol (S)	%			89	39-120	
2-Fluorobiphenyl (S)	%			78	39-120	
2-Fluorophenol (S)	%			37	17-120	
Nitrobenzene-d5 (S)	%			82	33-120	
Phenol-d6 (S)	%			23	11-120	
Terphenyl-d14 (S)	%			78	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-319

Pace Project No.: 60170509

MATRIX SPIKE SAMPLE:		1389071					
Parameter	Units	60170477001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	36.2	72	44-120	
2,4,6-Trichlorophenol	ug/L	ND	50	36.6	73	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	50	22.5	45	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	50	24.6	49	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	50	39.5	79	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	50	38.1	76	39-116	
Hexachlorocyclopentadiene	ug/L	ND	100	60.5	60	11-120	
Hexachloroethane	ug/L	ND	50	36.2	72	40-113	
Naphthalene	ug/L	ND	50	36.5	73	45-120	
Nitrobenzene	ug/L	ND	50	46.7	93	38-120	
Pentachlorophenol	ug/L	ND	50	36.8	74	43-135	
Phenol	ug/L	ND	50	10.7	21	13-112	
2,4,6-Tribromophenol (S)	%				84	39-120	
2-Fluorobiphenyl (S)	%				73	39-120	
2-Fluorophenol (S)	%				33	17-120	
Nitrobenzene-d5 (S)	%				76	33-120	
Phenol-d6 (S)	%				23	11-120	
Terphenyl-d14 (S)	%				75	45-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-319

Pace Project No.: 60170509

QC Batch:	WET/48233	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60170509001		

METHOD BLANK: 1388900 Matrix: Water
Associated Lab Samples: 60170509001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	06/05/14 08:11	

LABORATORY CONTROL SAMPLE: 1388901

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	34.1	85	78-114	

MATRIX SPIKE SAMPLE: 1389107

Parameter	Units	60170357001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	758	167	991	140	78-114	M1

SAMPLE DUPLICATE: 1389108

Parameter	Units	60170509001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	890	932	5	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-319

Pace Project No.: 60170509

QC Batch:	WET/48238	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60170509001		

METHOD BLANK: 1389113 Matrix: Water
Associated Lab Samples: 60170509001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	06/05/14 08:37	

LABORATORY CONTROL SAMPLE: 1389114

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	24.0	120	64-132	

MATRIX SPIKE SAMPLE: 1389115

Parameter	Units	60170357001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	9.2	83.3	33.3	29	64-132	M1

SAMPLE DUPLICATE: 1389116

Parameter	Units	60170509001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	15.7	14.3	9	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-319

Pace Project No.: 60170509

QC Batch:	WET/48296	Analysis Method:	SM 2540D
QC Batch Method:	SM 2540D	Analysis Description:	2540D Total Suspended Solids
Associated Lab Samples:	60170509001		

METHOD BLANK: 1390809 Matrix: Water

Associated Lab Samples: 60170509001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	06/09/14 09:09	

SAMPLE DUPLICATE: 1390810

Parameter	Units	60170509001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	4800	4420	8	10	

SAMPLE DUPLICATE: 1390811

Parameter	Units	60170447001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	178	214	19	10	D6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-319

Pace Project No.: 60170509

QC Batch: WET/48278 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60170509001

SAMPLE DUPLICATE: 1390360

Parameter	Units	60170617003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.8	7.8	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-319

Pace Project No.: 60170509

QC Batch: WET/48231

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60170509001

METHOD BLANK: 1388876

Matrix: Water

Associated Lab Samples: 60170509001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	06/09/14 14:06	

LABORATORY CONTROL SAMPLE: 1388877

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	177	89	85-115	

SAMPLE DUPLICATE: 1388878

Parameter	Units	60170514001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	7.8	15.0	63	17	D6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-319

Pace Project No.: 60170509

QC Batch: WETA/29740

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 60170509001

METHOD BLANK: 1390129

Matrix: Water

Associated Lab Samples: 60170509001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	06/06/14 13:34	

LABORATORY CONTROL SAMPLE: 1390130

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	106	90-110	

MATRIX SPIKE SAMPLE: 1390131

Parameter	Units	60170484001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1.2	2	3.1	96	90-110	

MATRIX SPIKE SAMPLE: 1390132

Parameter	Units	60170500003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.97	2	2.7	88	90-110	M1

SAMPLE DUPLICATE: 1390133

Parameter	Units	60170645001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	2.8	2.8	0	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-319

Pace Project No.: 60170509

QC Batch:	WETA/29734	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60170509001		

METHOD BLANK: 1389976 Matrix: Water
Associated Lab Samples: 60170509001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	06/09/14 07:36	

LABORATORY CONTROL SAMPLE: 1389977

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	48.5	97	90-110	

MATRIX SPIKE SAMPLE: 1389978

Parameter	Units	60170509001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	55300	25000	77600	89	90-110	M1

MATRIX SPIKE SAMPLE: 1389980

Parameter	Units	60170381002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	69.9	50	114	88	90-110	M1

SAMPLE DUPLICATE: 1389979

Parameter	Units	60170659001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	46.5	45.5	2	25	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 316-319

Pace Project No.: 60170509

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.

ANALYTE QUALIFIERS

- | | |
|----|-------------------------------------------------------------------------------------------------------------------|
| D3 | Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference. |
| D6 | The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits. |
| 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. |
| N2 | The lab does not hold TNI accreditation for this parameter. |
| S0 | Surrogate recovery outside laboratory control limits. |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-319

Pace Project No.: 60170509

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60170509001	316-319	EPA 200.7	MPRP/27501	EPA 200.7	ICP/20821
60170509001	316-319	EPA 200.7	MPRP/27537	EPA 200.7	ICP/20833
60170509001	316-319	EPA 245.1	MERP/8463	EPA 245.1	MERC/8418
60170509001	316-319	EPA 245.1	MERP/8462	EPA 245.1	MERC/8417
60170509001	316-319	EPA 625	OEXT/44501	EPA 625	MSSV/14242
60170509001	316-319	EPA 624 Low	MSV/62126		
60170509002	TRIP BLANK	EPA 624 Low	MSV/62126		
60170509001	316-319	EPA 1664A	WET/48233		
60170509001	316-319	EPA 1664A	WET/48238		
60170509001	316-319	SM 2540D	WET/48296		
60170509001	316-319	SM 4500-H+B	WET/48278		
60170509001	316-319	SM 5210B	WET/48231	SM 5210B	WET/48317
60170509001	316-319	EPA 350.1	WETA/29740		
60170509001	316-319	EPA 410.4	WETA/29734		

REPORT OF LABORATORY ANALYSIS

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WO#: 60170509



Sample Condition Upon Receipt

Client Name: Barr Engineering

Courier: Fed Ex UPS USPS Client Commercial Pace Other x-roads

Tracking #: _____ Pace Shipping Label Used? Yes No

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other zpc

Thermometer Used: T-239 / T-194 Type of Ice: Wet Blue None Samples received on ice, cooling process has begun.

Cooler Temperature: 12.0 (circle one) melted ice

Date and initials of person examining contents: 6/4/14

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>BOB, ph</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix: <u>WT</u>		13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Initial ph BPN 5-5, added 2.5ml HNO3 final 4.0
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Initial ph BPS 4-5, added 2.5ml H2SO4 final 3.0
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>Ⓟ</u> Lot # of added HNO3 - 12513-23-2 preservative 142304 - 12522-2-7
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank lot # (if purchased): <u>Covered</u>		15.
Headspace in VOA vials (>6mm):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16. <u>1 of 5 D69u</u>
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State <u>MO</u>

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 6/4



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A

Required Client Information:

Company: **BARR ENGINEERING**
 Address:
 Email To:
 Phone: **(816) 285-8410** | Fax
 Requested Due Date/TAT: **10 Day (Default)**

Section B

Required Project Information:

Report To: **ED GALBRAITH/BARR**
 Copy To: **SCOTT FEDAK/FEEZOR**
DANA BAKER/MARGARET TREADOR -BARR
 Purchase Order No.
 Client Project ID: **BRIDGETON LF**
 Container Order Number:

Section C

Invoice Information:

Attention: **AMY HARGROVE/BRIAN POWER**
 Company Name: **REPUBLIC SERVICES**
 Address: **BRIDGETON, MO 63044**
 Pace Quote Reference: **130426_7588**
 Pace Project Manager: **Brown, Angie**
 Pace Profile #: **7585 LINE 2**

Page : 1 Of 1

Regulatory Agency

State / Location

Missouri

ITEM#	SAMPLE ID One Character per box. (A-Z, 0-9, -, .) Sample ids must be unique	MATRIX Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Other OT Tissue TS	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Y/N	Requested Analysis Filtered (Y/N)													Residual Chlorine (Y/N)
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test	COD EPA 410		pH SM 4500H+B	LF DIS. METALS 200.7/245	TOTAL METALS 200.7/245	AMMONIA EPA 350	O/G EPA 1664	625 SVOCs	VOCs EPA 624	TSS SM2540D	TPH/HEM-SGT 1664	BOD SM 5210B				
						DATE	TIME	DATE	TIME																											
1	316-319 3 A633, 2 B24, B23			OT	G	6/3/14	0912			10	4	1	0	5	049u	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2464u, B23N ⁴⁰ , B23S ³ u			
2	TRIP BLANK									2	2				2	069u																				
3																																				
4																																				
5																																				
6																																				
7																																				
8																																				
9																																				
10																																				
11																																				
12																																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
SITE CONTACT: BILL ABERNATHY 314-502-1299	<i>[Signature]</i> FBI	6-3-14	2:45p	<i>[Signature]</i> James to Health	6-3-14	2:45p	
SITE ADDRESS: BRIDGETON LF 13570 ST. CHARLES ROCK RD BRIDGETON MO 63044				<i>[Signature]</i> Ed Brockett / Pace	6/4/14	0205	12.0 N Y Y

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:						
SIGNATURE of SAMPLER: <i>[Signature]</i>		DATE Signed: 6/3/14				

June 12, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-320
Pace Project No.: 60170631

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 05, 2014. 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,



Emily Webb for
Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Bill Abernathy, Feezor Engineering
Kelly Caddy, Barr Engineering
DAN FEEZOR, FEEZOR ENGINEERING
Dana B. Pasi, Barr Engineering Co.
Brian Power, Republic Services
Brian Sehie, Republic Services
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-320

Pace Project No.: 60170631

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-13-4

Utah Certification #: KS000212013-3

Illinois Certification #: 003097

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-320

Pace Project No.: 60170631

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60170631001	316-320	Water	06/04/14 09:09	06/05/14 01:50
60170631002	TRIP BLANK	Water	06/04/14 09:09	06/05/14 01:50

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-320

Pace Project No.: 60170631

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60170631001	316-320	EPA 200.7	NDJ	15
		EPA 200.7	JGP	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	CRT	1
		EPA 1664A	CRT	1
		SM 2540D	ESM	1
		SM 4500-H+B	DJR	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC1	1
		60170631002	TRIP BLANK	EPA 624 Low

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-320

Pace Project No.: 60170631

Sample: 316-320	Lab ID: 60170631001	Collected: 06/04/14 09:09	Received: 06/05/14 01:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	3120 ug/L		750	2	06/06/14 10:45	06/10/14 12:40	7429-90-5	
Antimony	98.8 ug/L		50.0	1	06/06/14 10:45	06/10/14 11:51	7440-36-0	
Arsenic	1130 ug/L		50.0	1	06/06/14 10:45	06/10/14 11:51	7440-38-2	
Beryllium	ND ug/L		5.0	1	06/06/14 10:45	06/10/14 11:51	7440-41-7	
Cadmium	ND ug/L		25.0	1	06/06/14 10:45	06/10/14 11:51	7440-43-9	
Chromium	210 ug/L		25.0	1	06/06/14 10:45	06/10/14 11:51	7440-47-3	
Cobalt	26.6 ug/L		25.0	1	06/06/14 10:45	06/10/14 11:51	7440-48-4	
Copper	ND ug/L		50.0	1	06/06/14 10:45	06/10/14 11:51	7440-50-8	
Iron	417000 ug/L		250	1	06/06/14 10:45	06/10/14 11:51	7439-89-6	M1
Lead	37.0 ug/L		25.0	1	06/06/14 10:45	06/10/14 11:51	7439-92-1	
Nickel	111 ug/L		25.0	1	06/06/14 10:45	06/10/14 11:51	7440-02-0	
Selenium	ND ug/L		75.0	1	06/06/14 10:45	06/10/14 11:51	7782-49-2	
Silver	ND ug/L		35.0	1	06/06/14 10:45	06/10/14 11:51	7440-22-4	
Thallium	ND ug/L		200	2	06/06/14 10:45	06/10/14 12:40	7440-28-0	
Zinc	4400 ug/L		500	2	06/06/14 10:45	06/10/14 12:40	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	1450 ug/L		750	2	06/06/14 10:45	06/10/14 18:09	7429-90-5	
Antimony, Dissolved	ND ug/L		100	2	06/06/14 10:45	06/11/14 08:46	7440-36-0	D3
Arsenic, Dissolved	874 ug/L		50.0	1	06/06/14 10:45	06/11/14 08:42	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	06/06/14 10:45	06/10/14 17:59	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	06/06/14 10:45	06/11/14 08:42	7440-43-9	
Chromium, Dissolved	155 ug/L		25.0	1	06/06/14 10:45	06/10/14 17:59	7440-47-3	
Cobalt, Dissolved	ND ug/L		25.0	1	06/06/14 10:45	06/11/14 08:42	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	06/06/14 10:45	06/10/14 17:59	7440-50-8	
Iron, Dissolved	292000 ug/L		250	1	06/06/14 10:45	06/10/14 17:59	7439-89-6	
Lead, Dissolved	41.6 ug/L		25.0	1	06/06/14 10:45	06/11/14 08:42	7439-92-1	D9
Nickel, Dissolved	92.8 ug/L		25.0	1	06/06/14 10:45	06/11/14 08:42	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	06/06/14 10:45	06/11/14 08:42	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	06/06/14 10:45	06/10/14 17:59	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	06/06/14 10:45	06/11/14 08:42	7440-28-0	
Zinc, Dissolved	3680 ug/L		500	2	06/06/14 10:45	06/11/14 08:46	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	16.8 ug/L		6.0	1	06/05/14 13:00	06/06/14 13:12	7439-97-6	
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND ug/L		6.0	1	06/10/14 14:00	06/11/14 10:44	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	06/05/14 00:00	06/06/14 13:26	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	06/05/14 00:00	06/06/14 13:26	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	06/05/14 00:00	06/06/14 13:26	77-47-4	
Hexachloroethane	ND ug/L		1000	2	06/05/14 00:00	06/06/14 13:26	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	2	06/05/14 00:00	06/06/14 13:26	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	8530 ug/L		4000	2	06/05/14 00:00	06/06/14 13:26		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-320

Pace Project No.: 60170631

Sample: 316-320		Lab ID: 60170631001	Collected: 06/04/14 09:09	Received: 06/05/14 01:50	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	1890 ug/L		1000	2	06/05/14 00:00	06/06/14 13:26	91-20-3	
Nitrobenzene	ND ug/L		1000	2	06/05/14 00:00	06/06/14 13:26	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	06/05/14 00:00	06/06/14 13:26	87-86-5	
Phenol	11100 ug/L		1000	2	06/05/14 00:00	06/06/14 13:26	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	06/05/14 00:00	06/06/14 13:26	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	06/05/14 00:00	06/06/14 13:26	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	156 %		33-120	2	06/05/14 00:00	06/06/14 13:26	4165-60-0	S0
2-Fluorobiphenyl (S)	71 %		39-120	2	06/05/14 00:00	06/06/14 13:26	321-60-8	
Terphenyl-d14 (S)	69 %		45-120	2	06/05/14 00:00	06/06/14 13:26	1718-51-0	
Phenol-d6 (S)	39 %		11-120	2	06/05/14 00:00	06/06/14 13:26	13127-88-3	
2-Fluorophenol (S)	40 %		17-120	2	06/05/14 00:00	06/06/14 13:26	367-12-4	
2,4,6-Tribromophenol (S)	80 %		39-120	2	06/05/14 00:00	06/06/14 13:26	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	88100 ug/L		2500	250		06/06/14 20:41	67-64-1	N2
Benzene	ND ug/L		250	250		06/06/14 20:41	71-43-2	
Bromodichloromethane	ND ug/L		250	250		06/06/14 20:41	75-27-4	
Bromoform	ND ug/L		250	250		06/06/14 20:41	75-25-2	
Bromomethane	ND ug/L		1250	250		06/06/14 20:41	74-83-9	
2-Butanone (MEK)	34500 ug/L		2500	250		06/06/14 20:41	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		06/06/14 20:41	56-23-5	
Chloroethane	ND ug/L		250	250		06/06/14 20:41	75-00-3	
Chloroform	ND ug/L		250	250		06/06/14 20:41	67-66-3	
1,4-Dichlorobenzene	335 ug/L		250	250		06/06/14 20:41	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		06/06/14 20:41	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		06/06/14 20:41	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		06/06/14 20:41	156-60-5	
Ethylbenzene	ND ug/L		250	250		06/06/14 20:41	100-41-4	
Methylene chloride	ND ug/L		250	250		06/06/14 20:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		06/06/14 20:41	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		06/06/14 20:41	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		06/06/14 20:41	127-18-4	
Toluene	ND ug/L		250	250		06/06/14 20:41	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		06/06/14 20:41	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		06/06/14 20:41	79-00-5	
Trichloroethene	ND ug/L		250	250		06/06/14 20:41	79-01-6	
Vinyl chloride	ND ug/L		250	250		06/06/14 20:41	75-01-4	
Xylene (Total)	ND ug/L		750	250		06/06/14 20:41	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	101 %		80-120	250		06/06/14 20:41	460-00-4	HS
Toluene-d8 (S)	98 %		80-120	250		06/06/14 20:41	2037-26-5	
1,2-Dichloroethane-d4 (S)	96 %		80-120	250		06/06/14 20:41	17060-07-0	
Preservation pH	6.0		1.0	250		06/06/14 20:41		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	1240 mg/L		5.0	1		06/06/14 12:50		M1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-320

Pace Project No.: 60170631

Sample: 316-320		Lab ID: 60170631001	Collected: 06/04/14 09:09	Received: 06/05/14 01:50	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	13.2	mg/L	5.0	1		06/06/14 16:06		M1
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	5120	mg/L	5.0	1		06/10/14 09:11		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.4	Std. Units		1		06/06/13 15:00		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	33200	mg/L	2.0	1	06/05/14 15:38	06/10/14 12:45		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	660	mg/L	20.0	200		06/06/14 14:03	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	55900	mg/L	5000	500		06/09/14 07:38		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-320

Pace Project No.: 60170631

Sample: TRIP BLANK		Lab ID: 60170631002	Collected: 06/04/14 09:09	Received: 06/05/14 01:50	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		06/12/14 13:03	67-64-1	H1,N2
Benzene	ND ug/L		1.0	1		06/12/14 13:03	71-43-2	H1
Bromodichloromethane	ND ug/L		1.0	1		06/12/14 13:03	75-27-4	H1
Bromoform	ND ug/L		1.0	1		06/12/14 13:03	75-25-2	H1
Bromomethane	ND ug/L		5.0	1		06/12/14 13:03	74-83-9	H1
2-Butanone (MEK)	ND ug/L		10.0	1		06/12/14 13:03	78-93-3	H1,N2
Carbon tetrachloride	ND ug/L		1.0	1		06/12/14 13:03	56-23-5	H1
Chloroethane	ND ug/L		1.0	1		06/12/14 13:03	75-00-3	H1
Chloroform	ND ug/L		1.0	1		06/12/14 13:03	67-66-3	H1
1,4-Dichlorobenzene	ND ug/L		1.0	1		06/12/14 13:03	106-46-7	H1
1,2-Dichloroethane	ND ug/L		1.0	1		06/12/14 13:03	107-06-2	H1
cis-1,2-Dichloroethene	ND ug/L		1.0	1		06/12/14 13:03	156-59-2	H1,N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		06/12/14 13:03	156-60-5	H1
Ethylbenzene	ND ug/L		1.0	1		06/12/14 13:03	100-41-4	H1
Methylene chloride	ND ug/L		1.0	1		06/12/14 13:03	75-09-2	H1
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/12/14 13:03	108-10-1	H1,N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		06/12/14 13:03	79-34-5	H1,N2
Tetrachloroethene	ND ug/L		1.0	1		06/12/14 13:03	127-18-4	H1
Toluene	ND ug/L		1.0	1		06/12/14 13:03	108-88-3	H1
1,1,1-Trichloroethane	ND ug/L		1.0	1		06/12/14 13:03	71-55-6	H1
1,1,2-Trichloroethane	ND ug/L		1.0	1		06/12/14 13:03	79-00-5	H1
Trichloroethene	ND ug/L		1.0	1		06/12/14 13:03	79-01-6	H1
Vinyl chloride	ND ug/L		1.0	1		06/12/14 13:03	75-01-4	H1
Xylene (Total)	ND ug/L		3.0	1		06/12/14 13:03	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	99 %		80-120	1		06/12/14 13:03	460-00-4	
Toluene-d8 (S)	99 %		80-120	1		06/12/14 13:03	2037-26-5	
1,2-Dichloroethane-d4 (S)	93 %		80-120	1		06/12/14 13:03	17060-07-0	
Preservation pH	6.0		1.0	1		06/12/14 13:03		H1

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-320

Pace Project No.: 60170631

QC Batch:	MERP/8463	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
Associated Lab Samples:	60170631001		

METHOD BLANK: 1389350 Matrix: Water

Associated Lab Samples: 60170631001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	06/06/14 12:36	

LABORATORY CONTROL SAMPLE: 1389351

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.4	109	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1389352 1389353

Parameter	Units	60170139001		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
Mercury	ug/L	ND	5	5	5	4.3	4.2	87	84	70-130	3	20			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-320

Pace Project No.: 60170631

QC Batch:	MERP/8474	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury - Dissolved
Associated Lab Samples:	60170631001		

METHOD BLANK: 1391846 Matrix: Water
Associated Lab Samples: 60170631001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	06/11/14 10:39	

LABORATORY CONTROL SAMPLE: 1391847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.8	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1391848 1391849

Parameter	Units	60170631001		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	ND	Spike Conc.	Conc.	Result	Result	% Rec	% Rec						
Mercury, Dissolved	ug/L	ND	150	150	142	141	95	94	70-130	0	20				

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-320

Pace Project No.: 60170631

QC Batch: MPRP/27534

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Total

Associated Lab Samples: 60170631001

METHOD BLANK: 1390151

Matrix: Water

Associated Lab Samples: 60170631001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	06/10/14 11:46	
Antimony	ug/L	ND	10.0	06/10/14 11:46	
Arsenic	ug/L	ND	10.0	06/10/14 11:46	
Beryllium	ug/L	ND	1.0	06/10/14 11:46	
Cadmium	ug/L	ND	5.0	06/10/14 11:46	
Chromium	ug/L	ND	5.0	06/10/14 11:46	
Cobalt	ug/L	ND	5.0	06/10/14 11:46	
Copper	ug/L	ND	10.0	06/10/14 11:46	
Iron	ug/L	ND	50.0	06/10/14 11:46	
Lead	ug/L	ND	5.0	06/10/14 11:46	
Nickel	ug/L	ND	5.0	06/10/14 11:46	
Selenium	ug/L	ND	15.0	06/10/14 11:46	
Silver	ug/L	ND	7.0	06/10/14 11:46	
Thallium	ug/L	ND	20.0	06/10/14 11:46	
Zinc	ug/L	ND	50.0	06/10/14 11:46	

LABORATORY CONTROL SAMPLE: 1390152

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9850	99	85-115	
Antimony	ug/L	1000	994	99	85-115	
Arsenic	ug/L	1000	978	98	85-115	
Beryllium	ug/L	1000	1010	101	85-115	
Cadmium	ug/L	1000	997	100	85-115	
Chromium	ug/L	1000	995	99	85-115	
Cobalt	ug/L	1000	1010	101	85-115	
Copper	ug/L	1000	986	99	85-115	
Iron	ug/L	10000	10300	103	85-115	
Lead	ug/L	1000	1010	101	85-115	
Nickel	ug/L	1000	1020	102	85-115	
Selenium	ug/L	1000	1000	100	85-115	
Silver	ug/L	500	487	97	85-115	
Thallium	ug/L	1000	1030	103	85-115	
Zinc	ug/L	1000	1000	100	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-320

Pace Project No.: 60170631

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1390153			1390154								
Parameter	Units	60170631001	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	RPD	RPD	Qual
		Result	Spike	Spike	Result	Result	% Rec	% Rec	Limits				
Aluminum	ug/L	3120	50000	50000	55400	56300	105	106	70-130	2	8		
Antimony	ug/L	98.8	5000	5000	5520	5470	108	107	70-130	1	7		
Arsenic	ug/L	1130	5000	5000	6940	7000	116	117	70-130	1	10		
Beryllium	ug/L	ND	5000	5000	4950	4900	99	98	70-130	1	7		
Cadmium	ug/L	ND	5000	5000	5440	5460	108	109	70-130	0	10		
Chromium	ug/L	210	5000	5000	5140	5100	99	98	70-130	1	10		
Cobalt	ug/L	26.6	5000	5000	4950	4880	98	97	70-130	1	6		
Copper	ug/L	ND	5000	5000	5450	5380	108	107	70-130	1	11		
Iron	ug/L	417000	50000	50000	493000	522000	153	211	70-130	6	10	M1	
Lead	ug/L	37.0	5000	5000	4690	4570	93	91	70-130	3	10		
Nickel	ug/L	111	5000	5000	5040	4920	99	96	70-130	2	10		
Selenium	ug/L	ND	5000	5000	6420	6380	127	126	70-130	1	10		
Silver	ug/L	ND	2500	2500	2730	2680	109	107	70-130	2	10		
Thallium	ug/L	ND	5000	5000	4230	4260	85	85	70-130	1	6		
Zinc	ug/L	4400	5000	5000	9290	9590	98	104	70-130	3	11		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-320

Pace Project No.: 60170631

QC Batch:	MPRP/27537	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
Associated Lab Samples:	60170631001		

METHOD BLANK: 1390159 Matrix: Water

Associated Lab Samples: 60170631001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	06/10/14 17:34	
Antimony, Dissolved	ug/L	ND	10.0	06/11/14 08:14	
Arsenic, Dissolved	ug/L	ND	10.0	06/11/14 08:14	
Beryllium, Dissolved	ug/L	ND	1.0	06/10/14 17:34	
Cadmium, Dissolved	ug/L	ND	5.0	06/11/14 08:14	
Chromium, Dissolved	ug/L	ND	5.0	06/10/14 17:34	
Cobalt, Dissolved	ug/L	ND	5.0	06/11/14 08:14	
Copper, Dissolved	ug/L	ND	10.0	06/10/14 17:34	
Iron, Dissolved	ug/L	ND	50.0	06/10/14 17:34	
Lead, Dissolved	ug/L	ND	5.0	06/11/14 08:14	
Nickel, Dissolved	ug/L	ND	5.0	06/11/14 08:14	
Selenium, Dissolved	ug/L	ND	15.0	06/11/14 08:14	
Silver, Dissolved	ug/L	ND	7.0	06/10/14 17:34	
Thallium, Dissolved	ug/L	ND	20.0	06/11/14 08:14	
Zinc, Dissolved	ug/L	ND	50.0	06/11/14 08:14	

LABORATORY CONTROL SAMPLE: 1390160

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9210	92	85-115	
Antimony, Dissolved	ug/L	1000	986	99	85-115	
Arsenic, Dissolved	ug/L	1000	959	96	85-115	
Beryllium, Dissolved	ug/L	1000	950	95	85-115	
Cadmium, Dissolved	ug/L	1000	982	98	85-115	
Chromium, Dissolved	ug/L	1000	927	93	85-115	
Cobalt, Dissolved	ug/L	1000	983	98	85-115	
Copper, Dissolved	ug/L	1000	925	93	85-115	
Iron, Dissolved	ug/L	10000	9390	94	85-115	
Lead, Dissolved	ug/L	1000	989	99	85-115	
Nickel, Dissolved	ug/L	1000	1000	100	85-115	
Selenium, Dissolved	ug/L	1000	970	97	85-115	
Silver, Dissolved	ug/L	500	457	91	85-115	
Thallium, Dissolved	ug/L	1000	1010	101	85-115	
Zinc, Dissolved	ug/L	1000	972	97	85-115	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-320

Pace Project No.: 60170631

Parameter	Units	60170509001		1390161		1390162		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Aluminum, Dissolved	ug/L	1740	50000	50000	48400	47700	93	92	70-130	1	8			
Antimony, Dissolved	ug/L	ND	5000	5000	5310	5240	106	104	70-130	1	7			
Arsenic, Dissolved	ug/L	1020	5000	5000	6560	6440	111	108	70-130	2	10			
Beryllium, Dissolved	ug/L	ND	5000	5000	4770	4690	95	94	70-130	2	7			
Cadmium, Dissolved	ug/L	ND	5000	5000	5350	5290	107	106	70-130	1	10			
Chromium, Dissolved	ug/L	191	5000	5000	5020	4870	97	94	70-130	3	10			
Cobalt, Dissolved	ug/L	ND	5000	5000	4860	4820	97	96	70-130	1	6			
Copper, Dissolved	ug/L	ND	5000	5000	4830	4740	97	95	70-130	2	11			
Iron, Dissolved	ug/L	370000	50000	50000	420000	397000	99	54	70-130	5	10	M1		
Lead, Dissolved	ug/L	44.0	5000	5000	4670	4630	93	92	70-130	1	10			
Nickel, Dissolved	ug/L	104	5000	5000	5060	5000	99	98	70-130	1	10			
Selenium, Dissolved	ug/L	ND	5000	5000	5860	5780	116	114	70-130	2	10			
Silver, Dissolved	ug/L	ND	2500	2500	2520	2490	100	99	70-130	1	10			
Thallium, Dissolved	ug/L	ND	5000	5000	4470	4440	89	89	70-130	1	6			
Zinc, Dissolved	ug/L	4210	5000	5000	9140	8820	99	92	70-130	4	11			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-320

Pace Project No.: 60170631

QC Batch:	MSV/62126	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples:	60170631001		

METHOD BLANK: 1390435 Matrix: Water

Associated Lab Samples: 60170631001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/06/14 19:24	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/06/14 19:24	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	06/06/14 19:24	
1,2-Dichloroethane	ug/L	ND	1.0	06/06/14 19:24	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/06/14 19:24	
2-Butanone (MEK)	ug/L	ND	10.0	06/06/14 19:24	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/06/14 19:24	N2
Acetone	ug/L	ND	10.0	06/06/14 19:24	N2
Benzene	ug/L	ND	1.0	06/06/14 19:24	
Bromodichloromethane	ug/L	ND	1.0	06/06/14 19:24	
Bromoform	ug/L	ND	1.0	06/06/14 19:24	
Bromomethane	ug/L	ND	5.0	06/06/14 19:24	
Carbon tetrachloride	ug/L	ND	1.0	06/06/14 19:24	
Chloroethane	ug/L	ND	1.0	06/06/14 19:24	
Chloroform	ug/L	ND	1.0	06/06/14 19:24	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/06/14 19:24	N2
Ethylbenzene	ug/L	ND	1.0	06/06/14 19:24	
Methylene chloride	ug/L	ND	1.0	06/06/14 19:24	
Tetrachloroethene	ug/L	ND	1.0	06/06/14 19:24	
Toluene	ug/L	ND	1.0	06/06/14 19:24	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/06/14 19:24	
Trichloroethene	ug/L	ND	1.0	06/06/14 19:24	
Vinyl chloride	ug/L	ND	1.0	06/06/14 19:24	
Xylene (Total)	ug/L	ND	3.0	06/06/14 19:24	N2
1,2-Dichloroethane-d4 (S)	%	97	80-120	06/06/14 19:24	
4-Bromofluorobenzene (S)	%	99	80-120	06/06/14 19:24	
Toluene-d8 (S)	%	98	80-120	06/06/14 19:24	

LABORATORY CONTROL SAMPLE: 1390436

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	17.6	88	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	20.7	104	67-127	N2
1,1,2-Trichloroethane	ug/L	20	19.8	99	67-124	
1,2-Dichloroethane	ug/L	20	18.3	92	70-126	
1,4-Dichlorobenzene	ug/L	20	18.4	92	74-120	
2-Butanone (MEK)	ug/L	100	103	103	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	112	112	59-131	N2
Acetone	ug/L	100	94.7	95	38-134	N2
Benzene	ug/L	20	18.3	91	75-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-320

Pace Project No.: 60170631

LABORATORY CONTROL SAMPLE: 1390436

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	20	18.6	93	68-125	
Bromoform	ug/L	20	17.1	86	65-127	
Bromomethane	ug/L	20	4.3J	21	13-157	
Carbon tetrachloride	ug/L	20	16.7	84	70-131	
Chloroethane	ug/L	20	22.4	112	47-133	
Chloroform	ug/L	20	18.1	90	65-127	
cis-1,2-Dichloroethene	ug/L	20	18.5	93	68-127	N2
Ethylbenzene	ug/L	20	18.2	91	74-122	
Methylene chloride	ug/L	20	17.4	87	64-129	
Tetrachloroethene	ug/L	20	17.9	89	73-125	
Toluene	ug/L	20	17.5	88	69-126	
trans-1,2-Dichloroethene	ug/L	20	16.9	84	66-129	
Trichloroethene	ug/L	20	17.5	87	71-123	
Vinyl chloride	ug/L	20	12.9	65	43-129	
Xylene (Total)	ug/L	60	56.5	94	75-121	N2
1,2-Dichloroethane-d4 (S)	%			102	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			97	80-120	

MATRIX SPIKE SAMPLE: 1390437

Parameter	Units	60170509001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	4210	84	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	4550	91	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	4460	89	52-143	
1,2-Dichloroethane	ug/L	ND	5000	3970	79	49-144	
1,4-Dichlorobenzene	ug/L	ND	5000	4410	86	33-140	
2-Butanone (MEK)	ug/L	43000	25000	73600	122	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	23200	91	40-160	N2
Acetone	ug/L	101000	25000	144000	172	10-160	M1,N2
Benzene	ug/L	ND	5000	4140	83	37-151	
Bromodichloromethane	ug/L	ND	5000	4020	80	35-142	
Bromoform	ug/L	ND	5000	4130	83	45-142	
Bromomethane	ug/L	ND	5000	1450	29	10-158	
Carbon tetrachloride	ug/L	ND	5000	4160	83	70-140	
Chloroethane	ug/L	ND	5000	3740	75	19-152	
Chloroform	ug/L	ND	5000	4130	83	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	4340	87	34-147	N2
Ethylbenzene	ug/L	ND	5000	4330	87	40-142	
Methylene chloride	ug/L	ND	5000	3960	78	31-144	
Tetrachloroethene	ug/L	ND	5000	4530	91	64-148	
Toluene	ug/L	ND	5000	4140	83	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	3970	79	54-151	
Trichloroethene	ug/L	ND	5000	4010	80	71-149	
Vinyl chloride	ug/L	ND	5000	3150	63	22-146	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-320

Pace Project No.: 60170631

MATRIX SPIKE SAMPLE:		1390437					
Parameter	Units	60170509001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	ND	15000	13100	87	37-144	N2
1,2-Dichloroethane-d4 (S)	%				94	80-120	
4-Bromofluorobenzene (S)	%				100	80-120	
Toluene-d8 (S)	%				98	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-320

Pace Project No.: 60170631

QC Batch: MSV/62245 Analysis Method: EPA 624 Low
QC Batch Method: EPA 624 Low Analysis Description: 624 MSV
Associated Lab Samples: 60170631002

METHOD BLANK: 1392971 Matrix: Water

Associated Lab Samples: 60170631002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/12/14 12:47	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/12/14 12:47	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	06/12/14 12:47	
1,2-Dichloroethane	ug/L	ND	1.0	06/12/14 12:47	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/12/14 12:47	
2-Butanone (MEK)	ug/L	ND	10.0	06/12/14 12:47	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/12/14 12:47	N2
Acetone	ug/L	ND	10.0	06/12/14 12:47	N2
Benzene	ug/L	ND	1.0	06/12/14 12:47	
Bromodichloromethane	ug/L	ND	1.0	06/12/14 12:47	
Bromoform	ug/L	ND	1.0	06/12/14 12:47	
Bromomethane	ug/L	ND	5.0	06/12/14 12:47	
Carbon tetrachloride	ug/L	ND	1.0	06/12/14 12:47	
Chloroethane	ug/L	ND	1.0	06/12/14 12:47	
Chloroform	ug/L	ND	1.0	06/12/14 12:47	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/12/14 12:47	N2
Ethylbenzene	ug/L	ND	1.0	06/12/14 12:47	
Methylene chloride	ug/L	ND	1.0	06/12/14 12:47	
Tetrachloroethene	ug/L	ND	1.0	06/12/14 12:47	
Toluene	ug/L	ND	1.0	06/12/14 12:47	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/12/14 12:47	
Trichloroethene	ug/L	ND	1.0	06/12/14 12:47	
Vinyl chloride	ug/L	ND	1.0	06/12/14 12:47	
Xylene (Total)	ug/L	ND	3.0	06/12/14 12:47	N2
1,2-Dichloroethane-d4 (S)	%	97	80-120	06/12/14 12:47	
4-Bromofluorobenzene (S)	%	101	80-120	06/12/14 12:47	
Toluene-d8 (S)	%	97	80-120	06/12/14 12:47	

LABORATORY CONTROL SAMPLE: 1392972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.3	96	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	21.7	109	67-127	N2
1,1,2-Trichloroethane	ug/L	20	21.4	107	67-124	
1,2-Dichloroethane	ug/L	20	19.1	95	70-126	
1,4-Dichlorobenzene	ug/L	20	19.3	97	74-120	
2-Butanone (MEK)	ug/L	100	107	107	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	114	114	59-131	N2
Acetone	ug/L	100	104	104	38-134	N2
Benzene	ug/L	20	19.8	99	75-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-320

Pace Project No.: 60170631

LABORATORY CONTROL SAMPLE: 1392972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	20	20.5	103	68-125	
Bromoform	ug/L	20	21.2	106	65-127	
Bromomethane	ug/L	20	13.3	66	13-157	
Carbon tetrachloride	ug/L	20	19.1	96	70-131	
Chloroethane	ug/L	20	18.9	94	47-133	
Chloroform	ug/L	20	19.2	96	65-127	
cis-1,2-Dichloroethene	ug/L	20	19.9	99	68-127	N2
Ethylbenzene	ug/L	20	20.0	100	74-122	
Methylene chloride	ug/L	20	18.9	94	64-129	
Tetrachloroethene	ug/L	20	19.9	99	73-125	
Toluene	ug/L	20	19.0	95	69-126	
trans-1,2-Dichloroethene	ug/L	20	18.7	93	66-129	
Trichloroethene	ug/L	20	19.7	99	71-123	
Vinyl chloride	ug/L	20	17.9	90	43-129	
Xylene (Total)	ug/L	60	58.1	97	75-121	N2
1,2-Dichloroethane-d4 (S)	%			98	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Toluene-d8 (S)	%			97	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-320
Pace Project No.: 60170631

QC Batch: OEXT/44501 Analysis Method: EPA 625
QC Batch Method: EPA 625 Analysis Description: 625 MSS
Associated Lab Samples: 60170631001

METHOD BLANK: 1389069 Matrix: Water
Associated Lab Samples: 60170631001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/06/14 09:13	
2,4,6-Trichlorophenol	ug/L	ND	5.0	06/06/14 09:13	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	06/06/14 09:13	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	06/06/14 09:13	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	06/06/14 09:13	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/06/14 09:13	
Hexachlorocyclopentadiene	ug/L	ND	5.0	06/06/14 09:13	
Hexachloroethane	ug/L	ND	5.0	06/06/14 09:13	
Naphthalene	ug/L	ND	5.0	06/06/14 09:13	
Nitrobenzene	ug/L	ND	5.0	06/06/14 09:13	
Pentachlorophenol	ug/L	ND	5.0	06/06/14 09:13	
Phenol	ug/L	ND	5.0	06/06/14 09:13	
2,4,6-Tribromophenol (S)	%	78	39-120	06/06/14 09:13	
2-Fluorobiphenyl (S)	%	69	39-120	06/06/14 09:13	
2-Fluorophenol (S)	%	38	17-120	06/06/14 09:13	
Nitrobenzene-d5 (S)	%	72	33-120	06/06/14 09:13	
Phenol-d6 (S)	%	25	11-120	06/06/14 09:13	
Terphenyl-d14 (S)	%	66	45-120	06/06/14 09:13	

LABORATORY CONTROL SAMPLE: 1389070

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	38.2	76	46-120	
2,4,6-Trichlorophenol	ug/L	50	38.4	77	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	28.9	58	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	27.4	55	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	43.6	87	40-133	
Hexachloro-1,3-butadiene	ug/L	50	38.8	78	44-116	
Hexachlorocyclopentadiene	ug/L	100	62.3	62	24-120	
Hexachloroethane	ug/L	50	39.7	79	43-113	
Naphthalene	ug/L	50	40.2	80	48-120	
Nitrobenzene	ug/L	50	41.2	82	48-120	
Pentachlorophenol	ug/L	50	38.8	78	47-120	
Phenol	ug/L	50	12.2	24	16-112	
2,4,6-Tribromophenol (S)	%			89	39-120	
2-Fluorobiphenyl (S)	%			78	39-120	
2-Fluorophenol (S)	%			37	17-120	
Nitrobenzene-d5 (S)	%			82	33-120	
Phenol-d6 (S)	%			23	11-120	
Terphenyl-d14 (S)	%			78	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-320

Pace Project No.: 60170631

MATRIX SPIKE SAMPLE:		1389071					
Parameter	Units	60170477001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	36.2	72	44-120	
2,4,6-Trichlorophenol	ug/L	ND	50	36.6	73	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	50	22.5	45	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	50	24.6	49	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	50	39.5	79	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	50	38.1	76	39-116	
Hexachlorocyclopentadiene	ug/L	ND	100	60.5	60	11-120	
Hexachloroethane	ug/L	ND	50	36.2	72	40-113	
Naphthalene	ug/L	ND	50	36.5	73	45-120	
Nitrobenzene	ug/L	ND	50	46.7	93	38-120	
Pentachlorophenol	ug/L	ND	50	36.8	74	43-135	
Phenol	ug/L	ND	50	10.7	21	13-112	
2,4,6-Tribromophenol (S)	%				84	39-120	
2-Fluorobiphenyl (S)	%				73	39-120	
2-Fluorophenol (S)	%				33	17-120	
Nitrobenzene-d5 (S)	%				76	33-120	
Phenol-d6 (S)	%				23	11-120	
Terphenyl-d14 (S)	%				75	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-320

Pace Project No.: 60170631

QC Batch:	WET/48275	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60170631001		

METHOD BLANK: 1390252 Matrix: Water

Associated Lab Samples: 60170631001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	06/06/14 12:47	

LABORATORY CONTROL SAMPLE: 1390253

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	36.8	92	78-114	

MATRIX SPIKE SAMPLE: 1390254

Parameter	Units	60170631001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	1240	160	1150	-59	78-114	M1

SAMPLE DUPLICATE: 1390255

Parameter	Units	60170714001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	2.6J		18	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-320

Pace Project No.: 60170631

QC Batch: WET/48284

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60170631001

METHOD BLANK: 1390602

Matrix: Water

Associated Lab Samples: 60170631001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	06/06/14 16:05	

LABORATORY CONTROL SAMPLE: 1390603

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	22.1	110	64-132	

MATRIX SPIKE SAMPLE: 1390604

Parameter	Units	60170631001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	13.2	80	46.4	42	64-132	M1

SAMPLE DUPLICATE: 1390605

Parameter	Units	60170714001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	2.7J		34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-320

Pace Project No.: 60170631

QC Batch: WET/48325

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60170631001

METHOD BLANK: 1391598

Matrix: Water

Associated Lab Samples: 60170631001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	06/10/14 09:05	

SAMPLE DUPLICATE: 1391599

Parameter	Units	60170729008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	12.0	11.0	9	10	

SAMPLE DUPLICATE: 1391600

Parameter	Units	60170729018 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	11.0	12.0	9	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-320

Pace Project No.: 60170631

QC Batch: WET/48278 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60170631001

SAMPLE DUPLICATE: 1390360

Parameter	Units	60170617003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.8	7.8	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-320

Pace Project No.: 60170631

QC Batch: WET/48250

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60170631001

METHOD BLANK: 1389443

Matrix: Water

Associated Lab Samples: 60170631001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	06/10/14 12:10	

LABORATORY CONTROL SAMPLE: 1389444

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	171	86	85-115	

SAMPLE DUPLICATE: 1389445

Parameter	Units	60170620002 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	770	954	21	17	D6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-320

Pace Project No.: 60170631

QC Batch: WETA/29740

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 60170631001

METHOD BLANK: 1390129

Matrix: Water

Associated Lab Samples: 60170631001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	06/06/14 13:34	

LABORATORY CONTROL SAMPLE: 1390130

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	106	90-110	

MATRIX SPIKE SAMPLE: 1390131

Parameter	Units	60170484001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1.2	2	3.1	96	90-110	

MATRIX SPIKE SAMPLE: 1390132

Parameter	Units	60170500003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.97	2	2.7	88	90-110	M1

SAMPLE DUPLICATE: 1390133

Parameter	Units	60170645001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	2.8	2.8	0	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-320

Pace Project No.: 60170631

QC Batch:	WETA/29734	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60170631001		

METHOD BLANK: 1389976 Matrix: Water
Associated Lab Samples: 60170631001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	06/09/14 07:36	

LABORATORY CONTROL SAMPLE: 1389977

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	48.5	97	90-110	

MATRIX SPIKE SAMPLE: 1389978

Parameter	Units	60170509001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	55300	25000	77600	89	90-110	M1

MATRIX SPIKE SAMPLE: 1389980

Parameter	Units	60170381002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	69.9	50	114	88	90-110	M1

SAMPLE DUPLICATE: 1389979

Parameter	Units	60170659001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	46.5	45.5	2	25	

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QUALIFIERS

Project: BRIDGETON LF 316-320

Pace Project No.: 60170631

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.

BATCH QUALIFIERS

Batch: MSV/62245

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

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

D6 The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

D9 Dissolved result is greater than the total. Data is within laboratory control limits.

H1 Analysis conducted outside the EPA method holding time.

H6 Analysis initiated outside of the 15 minute EPA recommended holding time.

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

N2 The lab does not hold TNI accreditation for this parameter.

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-320

Pace Project No.: 60170631

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60170631001	316-320	EPA 200.7	MPRP/27534	EPA 200.7	ICP/20834
60170631001	316-320	EPA 200.7	MPRP/27537	EPA 200.7	ICP/20833
60170631001	316-320	EPA 245.1	MERP/8463	EPA 245.1	MERC/8418
60170631001	316-320	EPA 245.1	MERP/8474	EPA 245.1	MERC/8429
60170631001	316-320	EPA 625	OEXT/44501	EPA 625	MSSV/14242
60170631001	316-320	EPA 624 Low	MSV/62126		
60170631002	TRIP BLANK	EPA 624 Low	MSV/62245		
60170631001	316-320	EPA 1664A	WET/48275		
60170631001	316-320	EPA 1664A	WET/48284		
60170631001	316-320	SM 2540D	WET/48325		
60170631001	316-320	SM 4500-H+B	WET/48278		
60170631001	316-320	SM 5210B	WET/48250	SM 5210B	WET/48345
60170631001	316-320	EPA 350.1	WETA/29740		
60170631001	316-320	EPA 410.4	WETA/29734		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60170631



Client Name: Barr Eng.

Courier: Fed Ex UPS USPS Client Commercial Pace Other Xroads

Tracking #: _____ Pace Shipping Label Used? Yes No

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other

Thermometer Used: T-239 / T-194 Type of Ice: water Blue None Samples received on ice, cooling process has begun.

Cooler Temperature: 2.0

Temperature should be above freezing to 6°C

Date and initials of person examining contents: MS 6/5/14 9:25

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>BOD, pH</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix: <u>water</u>		13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14. <u>EP&T EPS unable to be preserved.</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>MS</u> Lot # of added preservative
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank lot # (if purchased): <u>MS</u>		15.
Headspace in VOA vials (>6mm):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16. <u>headspace in all sample vials. no headspace in Trip blanks.</u>
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: MS for HKS

Date: 6/5/14

June 13, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON T4 TEST WATER
Pace Project No.: 60170799

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 06, 2014. 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,



Emily Webb for
Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Bill Abernathy, Feezor Engineering
Kelly Caddy, Barr Engineering
DAN FEEZOR, FEEZOR ENGINEERING
Dana B. Pasi, Barr Engineering Co.
Brian Power, Republic Services
Brian Sehie, Republic Services
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON T4 TEST WATER

Pace Project No.: 60170799

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-13-4

Utah Certification #: KS000212013-3

Illinois Certification #: 003097

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON T4 TEST WATER

Pace Project No.: 60170799

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60170799001	T4 TEST WATER	Water	06/05/14 12:38	06/06/14 02:30
60170799002	T4 TEST WATER BOD	Water	06/05/14 12:38	06/06/14 02:30

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SAMPLE ANALYTE COUNT

Project: BRIDGETON T4 TEST WATER

Pace Project No.: 60170799

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60170799001	T4 TEST WATER	EPA 200.7	JGP	1
		EPA 1664A	CRT	1
		SM 2540D	ESM	1
		SM 2540F	JML	1
		SM 4500-H+B	DJR	1
		EPA 300.0	OL	2
		EPA 350.1	AJM	1
		EPA 410.4	JMC1	1
60170799002	T4 TEST WATER BOD	SM 5210B	NDL	1

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ANALYTICAL RESULTS

Project: BRIDGETON T4 TEST WATER

Pace Project No.: 60170799

Sample: T4 TEST WATER		Lab ID: 60170799001	Collected: 06/05/14 12:38	Received: 06/06/14 02:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Iron	ND ug/L		50.0	1	06/09/14 17:45	06/10/14 13:09	7439-89-6	
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	ND mg/L		5.0	1		06/06/14 12:47		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND mg/L		5.0	1		06/09/14 09:03		
2540F Total Settleable Solids	Analytical Method: SM 2540F							
Total Settleable Solids	ND mL/L/hr		0.20	1		06/06/14 16:00		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	9.9 Std. Units		0.10	1		06/06/14 14:00		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	24.3 mg/L		2.0	2		06/06/14 13:47	16887-00-6	
Sulfate	170 mg/L		10.0	10		06/06/14 13:19	14808-79-8	
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	0.49 mg/L		0.10	1		06/06/14 14:26	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	ND mg/L		10.0	1		06/09/14 15:19		

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ANALYTICAL RESULTS

Project: BRIDGETON T4 TEST WATER

Pace Project No.: 60170799

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: T4 TEST WATER BOD Lab ID: 60170799002 Collected: 06/05/14 12:38 Received: 06/06/14 02:30 Matrix: Water								
5210B BOD, 5 day Analytical Method: SM 5210B Preparation Method: SM 5210B								
BOD, 5 day	ND	mg/L	2.0	1	06/06/14 16:28	06/11/14 15:04		

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QUALITY CONTROL DATA

Project: BRIDGETON T4 TEST WATER

Pace Project No.: 60170799

QC Batch: MPRP/27538

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Total

Associated Lab Samples: 60170799001

METHOD BLANK: 1390256

Matrix: Water

Associated Lab Samples: 60170799001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	ND	50.0	06/10/14 13:05	

LABORATORY CONTROL SAMPLE: 1390257

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	10500	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1390258 1390259

Parameter	Units	60170799001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits		
Iron	ug/L	ND	10000	10000	10200	10400	102	103	70-130	1	10

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QUALITY CONTROL DATA

Project: BRIDGETON T4 TEST WATER

Pace Project No.: 60170799

QC Batch:	WET/48275	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60170799001		

METHOD BLANK: 1390252 Matrix: Water

Associated Lab Samples: 60170799001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	06/06/14 12:47	

LABORATORY CONTROL SAMPLE: 1390253

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	36.8	92	78-114	

MATRIX SPIKE SAMPLE: 1390254

Parameter	Units	60170631001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	1240	160	1150	-59	78-114	M1

SAMPLE DUPLICATE: 1390255

Parameter	Units	60170714001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	2.6J		18	

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QUALITY CONTROL DATA

Project: BRIDGETON T4 TEST WATER

Pace Project No.: 60170799

QC Batch:	WET/48295	Analysis Method:	SM 2540D
QC Batch Method:	SM 2540D	Analysis Description:	2540D Total Suspended Solids
Associated Lab Samples:	60170799001		

METHOD BLANK: 1390806 Matrix: Water

Associated Lab Samples: 60170799001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	06/09/14 09:03	

SAMPLE DUPLICATE: 1390807

Parameter	Units	60170799001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 1390808

Parameter	Units	1234161002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	13.0	11.0	17	10	D6

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QUALITY CONTROL DATA

Project: BRIDGETON T4 TEST WATER

Pace Project No.: 60170799

QC Batch: WET/48281 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60170799001

SAMPLE DUPLICATE: 1390363

Parameter	Units	60170806003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	11.7	11.7	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON T4 TEST WATER

Pace Project No.: 60170799

QC Batch: WET/48287

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60170799002

METHOD BLANK: 1390633

Matrix: Water

Associated Lab Samples: 60170799002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	06/11/14 14:52	

LABORATORY CONTROL SAMPLE: 1390634

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	176	89	85-115	

SAMPLE DUPLICATE: 1390635

Parameter	Units	60170842001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	1330	1360	2	17	

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON T4 TEST WATER

Pace Project No.: 60170799

QC Batch: WETA/29736

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Analysis Description: 300.0 IC Anions

Associated Lab Samples: 60170799001

METHOD BLANK: 1389993

Matrix: Water

Associated Lab Samples: 60170799001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	06/06/14 09:13	
Sulfate	mg/L	ND	1.0	06/06/14 09:13	

LABORATORY CONTROL SAMPLE: 1389994

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	97	90-110	
Sulfate	mg/L	5	5.0	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1389995 1389996

Parameter	Units	60170667001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
Chloride	mg/L	21.4	100	100	105	106	84	84	80-120	1	15		
Sulfate	mg/L	201	100	100	300	306	99	105	80-120	2	15		

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QUALITY CONTROL DATA

Project: BRIDGETON T4 TEST WATER

Pace Project No.: 60170799

QC Batch:	WETA/29743	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60170799001		

METHOD BLANK: 1390320 Matrix: Water
Associated Lab Samples: 60170799001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	06/06/14 14:10	

LABORATORY CONTROL SAMPLE: 1390321

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	105	90-110	

MATRIX SPIKE SAMPLE: 1390323

Parameter	Units	60170557002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.8	92	90-110	

SAMPLE DUPLICATE: 1390322

Parameter	Units	60170557002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

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: BRIDGETON T4 TEST WATER

Pace Project No.: 60170799

QC Batch:	WETA/29757	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60170799001		

METHOD BLANK: 1390938 Matrix: Water
Associated Lab Samples: 60170799001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	06/09/14 15:19	

LABORATORY CONTROL SAMPLE: 1390939

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	54.2	108	90-110	

MATRIX SPIKE SAMPLE: 1390940

Parameter	Units	60170799001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	ND	50	56.0	98	90-110	

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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QUALIFIERS

Project: BRIDGETON T4 TEST WATER

Pace Project No.: 60170799

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.

ANALYTE QUALIFIERS

D6 The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON T4 TEST WATER

Pace Project No.: 60170799

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60170799001	T4 TEST WATER	EPA 200.7	MPRP/27538	EPA 200.7	ICP/20839
60170799001	T4 TEST WATER	EPA 1664A	WET/48275		
60170799001	T4 TEST WATER	SM 2540D	WET/48295		
60170799001	T4 TEST WATER	SM 2540F	WET/48290		
60170799001	T4 TEST WATER	SM 4500-H+B	WET/48281		
60170799002	T4 TEST WATER BOD	SM 5210B	WET/48287	SM 5210B	WET/48384
60170799001	T4 TEST WATER	EPA 300.0	WETA/29736		
60170799001	T4 TEST WATER	EPA 350.1	WETA/29743		
60170799001	T4 TEST WATER	EPA 410.4	WETA/29757		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60170799



Client Name: Barr Eng

Courier: Fed Ex UPS USPS Client Commercial Pace Other xroad

Tracking #: _____ Pace Shipping Label Used? Yes No

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other 2pic

Thermometer Used: T-239 / T-194 Type of Ice: Ice Blue None Samples received on ice, cooling process has begun.

Cooler Temperature: 4.0

Date and initials of person examining contents: 6/6/14

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>SS PH BOD</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix: <u>WT</u>		13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Exceptions: VOA, coliform, TOC, <u>O&G</u> WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Lot # of added preservative
Pace Trip Blank lot # (if purchased):		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State <u>MO</u>

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 6/6/14

CHAIN-OF-CUSTODY / Analytical Request Document

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

****RAPID RESPONSE SAMPLES****

6/17/14

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		REGULATORY AGENCY	
Company: <u>Barr Engineering</u>		Report To: <u>Ed Golbraith</u>		Attention:		<input checked="" type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER	
Address:		Copy To:		Company Name:		SITE LOCATION <input type="checkbox"/> GA <input type="checkbox"/> IL <input type="checkbox"/> IN <input type="checkbox"/> MI <input type="checkbox"/> JC <input type="checkbox"/> OH <input type="checkbox"/> SC <input type="checkbox"/> WI <input type="checkbox"/> OTHER <u>MO</u>	
Email To: <u>edgolbraith@barrengineering.com</u>		Purchase Order No.:		Pace Quote Reference:		Filtered (Y/N)	
Phone: Fax:		Project Name: <u>BRIDGETON LEACHATE</u>		Pace Project Manager:		Requested Analysis:	
Requested Due Date/TAT: <u>ASAP</u>		Project Number:		Pace Profile #: <u>1585-4</u>		COD + AMMONIA BDD 5/14 CUS 1/14 TSS + PH TOTAL FE 2007 CL + SO4 SET 2/14/13 Residual Chlorine (Y/N)	

ITEM #	Section D Required Client Information		MATRIX CODE	SAMPLE TYPE G-GRAB C-COMP	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Requested Analysis	Pace Project Number Lab I.D.	
	SAMPLE ID One Character per box. (A-Z, 0-9 / -)	Valid Matrix Codes MATRIX CODE			COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other			
					DATE	TIME	DATE	TIME													
1	<u>T-4 TEST WATER</u>	<u>DR</u>	<u>G</u>			<u>6/5/14</u>	<u>1238</u>		<u>9</u>	<u>4</u>	<u>4</u>	<u>1</u>								<u>31635 12P35 12P32</u>	
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Additional Comments:	REQUISITIONED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
	<u>[Signature]</u> <u>FBI</u>	<u>6-5-14</u>	<u>1:25pm</u>	<u>JS</u> <u>813</u>	<u>6-5-14</u>	<u>1:25pm</u>	Y/N	Y/N	Y/N
				<u>[Signature]</u> <u>PAISE</u>	<u>6/6/14</u>	<u>0230</u>	<u>4.0</u>	Y/N	Y/N
								Y/N	Y/N
								Y/N	Y/N

****RAPID RESPONSE SAMPLES****

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice	Custody Sealed Cooler	Samples intact
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER: <u>William Abernathy</u>	DATE Signed (MM/DD/YY): <u>6/5/14</u>				

June 13, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-321
Pace Project No.: 60170803

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 06, 2014. 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,



Mary Jane Walls for
Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Bill Abernathy, Feezor Engineering
Kelly Caddy, Barr Engineering
DAN FEEZOR, FEEZOR ENGINEERING
Dana B. Pasi, Barr Engineering Co.
Brian Power, Republic Services
Brian Sehie, Republic Services
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-321

Pace Project No.: 60170803

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-13-4

Utah Certification #: KS000212013-3

Illinois Certification #: 003097

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-321

Pace Project No.: 60170803

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60170803001	316-321	Water	06/05/14 09:30	06/06/14 02:30
60170803002	TRIP BLANK	Water	06/05/14 09:30	06/06/14 02:30

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-321

Pace Project No.: 60170803

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60170803001	316-321	EPA 200.7	NDJ	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	CRT	1
		EPA 1664A	CRT	1
		SM 2540D	ESM	1
		SM 4500-H+B	DJR	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC1	1
		60170803002	TRIP BLANK	EPA 624 Low

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-321

Pace Project No.: 60170803

Sample: 316-321		Lab ID: 60170803001	Collected: 06/05/14 09:30	Received: 06/06/14 02:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	7820 ug/L		750	2	06/10/14 11:25	06/12/14 12:44	7429-90-5	
Antimony	119 ug/L		50.0	1	06/10/14 11:25	06/12/14 12:42	7440-36-0	
Arsenic	1200 ug/L		50.0	1	06/10/14 11:25	06/12/14 12:42	7440-38-2	
Beryllium	ND ug/L		5.0	1	06/10/14 11:25	06/12/14 12:42	7440-41-7	
Cadmium	28.8 ug/L		25.0	1	06/10/14 11:25	06/12/14 12:42	7440-43-9	
Chromium	267 ug/L		25.0	1	06/10/14 11:25	06/12/14 12:42	7440-47-3	
Cobalt	41.3 ug/L		25.0	1	06/10/14 11:25	06/12/14 12:42	7440-48-4	
Copper	ND ug/L		50.0	1	06/10/14 11:25	06/12/14 12:42	7440-50-8	
Iron	747000 ug/L		250	1	06/10/14 11:25	06/12/14 12:42	7439-89-6	
Lead	94.9 ug/L		25.0	1	06/10/14 11:25	06/12/14 12:42	7439-92-1	
Nickel	135 ug/L		25.0	1	06/10/14 11:25	06/12/14 12:42	7440-02-0	
Selenium	ND ug/L		75.0	1	06/10/14 11:25	06/12/14 12:42	7782-49-2	
Silver	ND ug/L		35.0	1	06/10/14 11:25	06/12/14 12:42	7440-22-4	
Thallium	ND ug/L		100	1	06/10/14 11:25	06/12/14 12:42	7440-28-0	
Zinc	5290 ug/L		500	2	06/10/14 11:25	06/12/14 12:44	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	1810 ug/L		750	2	06/10/14 16:00	06/12/14 13:34	7429-90-5	
Antimony, Dissolved	70.4 ug/L		50.0	1	06/10/14 16:00	06/12/14 13:27	7440-36-0	
Arsenic, Dissolved	918 ug/L		50.0	1	06/10/14 16:00	06/12/14 13:27	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	06/10/14 16:00	06/12/14 13:27	7440-41-7	
Cadmium, Dissolved	25.4 ug/L		25.0	1	06/10/14 16:00	06/12/14 13:27	7440-43-9	
Chromium, Dissolved	176 ug/L		25.0	1	06/10/14 16:00	06/12/14 13:27	7440-47-3	
Cobalt, Dissolved	ND ug/L		25.0	1	06/10/14 16:00	06/12/14 13:27	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	06/10/14 16:00	06/12/14 13:27	7440-50-8	
Iron, Dissolved	322000 ug/L		250	1	06/10/14 16:00	06/12/14 13:27	7439-89-6	M1
Lead, Dissolved	ND ug/L		25.0	1	06/10/14 16:00	06/12/14 13:27	7439-92-1	
Nickel, Dissolved	94.2 ug/L		25.0	1	06/10/14 16:00	06/12/14 13:27	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	06/10/14 16:00	06/12/14 13:27	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	06/10/14 16:00	06/12/14 13:27	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	06/10/14 16:00	06/12/14 13:27	7440-28-0	
Zinc, Dissolved	4220 ug/L		500	2	06/10/14 16:00	06/12/14 13:34	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	ND ug/L		6.0	1	06/09/14 17:15	06/10/14 10:39	7439-97-6	
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND ug/L		6.0	1	06/10/14 14:00	06/11/14 10:50	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	06/10/14 00:00	06/11/14 11:22	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	06/10/14 00:00	06/11/14 11:22	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	06/10/14 00:00	06/11/14 11:22	77-47-4	
Hexachloroethane	ND ug/L		1000	2	06/10/14 00:00	06/11/14 11:22	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	2	06/10/14 00:00	06/11/14 11:22	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	7610 ug/L		4000	2	06/10/14 00:00	06/11/14 11:22		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-321

Pace Project No.: 60170803

Sample: 316-321		Lab ID: 60170803001	Collected: 06/05/14 09:30	Received: 06/06/14 02:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	ND ug/L		1000	2	06/10/14 00:00	06/11/14 11:22	91-20-3	
Nitrobenzene	ND ug/L		1000	2	06/10/14 00:00	06/11/14 11:22	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	06/10/14 00:00	06/11/14 11:22	87-86-5	
Phenol	10100 ug/L		1000	2	06/10/14 00:00	06/11/14 11:22	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	06/10/14 00:00	06/11/14 11:22	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	06/10/14 00:00	06/11/14 11:22	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	139 %		33-120	2	06/10/14 00:00	06/11/14 11:22	4165-60-0	S0
2-Fluorobiphenyl (S)	71 %		39-120	2	06/10/14 00:00	06/11/14 11:22	321-60-8	
Terphenyl-d14 (S)	67 %		45-120	2	06/10/14 00:00	06/11/14 11:22	1718-51-0	
Phenol-d6 (S)	28 %		11-120	2	06/10/14 00:00	06/11/14 11:22	13127-88-3	
2-Fluorophenol (S)	39 %		17-120	2	06/10/14 00:00	06/11/14 11:22	367-12-4	
2,4,6-Tribromophenol (S)	83 %		39-120	2	06/10/14 00:00	06/11/14 11:22	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	86300 ug/L		2500	250		06/09/14 15:54	67-64-1	N2
Benzene	ND ug/L		250	250		06/09/14 15:54	71-43-2	
Bromodichloromethane	ND ug/L		250	250		06/09/14 15:54	75-27-4	
Bromoform	ND ug/L		250	250		06/09/14 15:54	75-25-2	
Bromomethane	ND ug/L		1250	250		06/09/14 15:54	74-83-9	
2-Butanone (MEK)	33400 ug/L		2500	250		06/09/14 15:54	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		06/09/14 15:54	56-23-5	
Chloroethane	ND ug/L		250	250		06/09/14 15:54	75-00-3	
Chloroform	ND ug/L		250	250		06/09/14 15:54	67-66-3	
1,4-Dichlorobenzene	ND ug/L		250	250		06/09/14 15:54	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		06/09/14 15:54	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		06/09/14 15:54	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		06/09/14 15:54	156-60-5	
Ethylbenzene	ND ug/L		250	250		06/09/14 15:54	100-41-4	
Methylene chloride	ND ug/L		250	250		06/09/14 15:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		06/09/14 15:54	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		06/09/14 15:54	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		06/09/14 15:54	127-18-4	
Toluene	ND ug/L		250	250		06/09/14 15:54	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		06/09/14 15:54	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		06/09/14 15:54	79-00-5	
Trichloroethene	ND ug/L		250	250		06/09/14 15:54	79-01-6	
Vinyl chloride	ND ug/L		250	250		06/09/14 15:54	75-01-4	
Xylene (Total)	ND ug/L		750	250		06/09/14 15:54	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	106 %		80-120	250		06/09/14 15:54	460-00-4	
Toluene-d8 (S)	99 %		80-120	250		06/09/14 15:54	2037-26-5	
1,2-Dichloroethane-d4 (S)	93 %		80-120	250		06/09/14 15:54	17060-07-0	
Preservation pH	6.0		1.0	250		06/09/14 15:54		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	1230 mg/L		5.0	1		06/06/14 12:51		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-321

Pace Project No.: 60170803

Sample: 316-321		Lab ID: 60170803001	Collected: 06/05/14 09:30	Received: 06/06/14 02:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	11.2 mg/L		5.0	1		06/06/14 16:07		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	4720 mg/L		5.0	1		06/11/14 14:14		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.4 Std. Units		0.10	1		06/06/14 13:45		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	32000 mg/L		2.0	1	06/06/14 15:09	06/11/14 14:14		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	657 mg/L		20.0	200		06/06/14 14:13	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	57300 mg/L		5000	500		06/11/14 08:24		M1

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-321

Pace Project No.: 60170803

Sample: TRIP BLANK		Lab ID: 60170803002	Collected: 06/05/14 09:30	Received: 06/06/14 02:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		06/09/14 15:38	67-64-1	N2
Benzene	ND ug/L		1.0	1		06/09/14 15:38	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		06/09/14 15:38	75-27-4	
Bromoform	ND ug/L		1.0	1		06/09/14 15:38	75-25-2	
Bromomethane	ND ug/L		5.0	1		06/09/14 15:38	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/09/14 15:38	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		06/09/14 15:38	56-23-5	
Chloroethane	ND ug/L		1.0	1		06/09/14 15:38	75-00-3	
Chloroform	ND ug/L		1.0	1		06/09/14 15:38	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		06/09/14 15:38	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		06/09/14 15:38	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		06/09/14 15:38	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		06/09/14 15:38	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		06/09/14 15:38	100-41-4	
Methylene chloride	ND ug/L		1.0	1		06/09/14 15:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/09/14 15:38	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		06/09/14 15:38	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		06/09/14 15:38	127-18-4	
Toluene	ND ug/L		1.0	1		06/09/14 15:38	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		06/09/14 15:38	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		06/09/14 15:38	79-00-5	
Trichloroethene	ND ug/L		1.0	1		06/09/14 15:38	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		06/09/14 15:38	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		06/09/14 15:38	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	106 %		80-120	1		06/09/14 15:38	460-00-4	
Toluene-d8 (S)	97 %		80-120	1		06/09/14 15:38	2037-26-5	
1,2-Dichloroethane-d4 (S)	91 %		80-120	1		06/09/14 15:38	17060-07-0	
Preservation pH	6.0		1.0	1		06/09/14 15:38		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-321

Pace Project No.: 60170803

QC Batch: MERP/8470

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60170803001

METHOD BLANK: 1391435

Matrix: Water

Associated Lab Samples: 60170803001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	06/10/14 10:10	

LABORATORY CONTROL SAMPLE: 1391436

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.8	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1391437 1391438

Parameter	Units	60170884001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
Mercury	ug/L	ND	5	5	2.8	2.8	55	54	70-130	1	20	M1	

MATRIX SPIKE SAMPLE: 1391439

Parameter	Units	60170484001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	4.6	91	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-321

Pace Project No.: 60170803

QC Batch:	MERP/8474	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury - Dissolved
Associated Lab Samples:	60170803001		

METHOD BLANK: 1391846 Matrix: Water
Associated Lab Samples: 60170803001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	06/11/14 10:39	

LABORATORY CONTROL SAMPLE: 1391847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.8	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1391848 1391849

Parameter	Units	60170631001		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	ND	Spike Conc.	Conc.	Result	Result	% Rec	% Rec						
Mercury, Dissolved	ug/L	ND	150	150	142	141	95	94	70-130	0	20				

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-321

Pace Project No.: 60170803

QC Batch:	MPRP/27579	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
Associated Lab Samples:	60170803001		

METHOD BLANK: 1391731 Matrix: Water

Associated Lab Samples: 60170803001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	06/12/14 12:39	
Antimony	ug/L	ND	10.0	06/12/14 12:39	
Arsenic	ug/L	ND	10.0	06/12/14 12:39	
Beryllium	ug/L	ND	1.0	06/12/14 12:39	
Cadmium	ug/L	ND	5.0	06/12/14 12:39	
Chromium	ug/L	ND	5.0	06/12/14 12:39	
Cobalt	ug/L	ND	5.0	06/12/14 12:39	
Copper	ug/L	ND	10.0	06/12/14 12:39	
Iron	ug/L	ND	50.0	06/12/14 12:39	
Lead	ug/L	ND	5.0	06/12/14 12:39	
Nickel	ug/L	ND	5.0	06/12/14 12:39	
Selenium	ug/L	ND	15.0	06/12/14 12:39	
Silver	ug/L	ND	7.0	06/12/14 12:39	
Thallium	ug/L	ND	20.0	06/12/14 12:39	
Zinc	ug/L	ND	50.0	06/12/14 12:39	

LABORATORY CONTROL SAMPLE: 1391732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10100	101	85-115	
Antimony	ug/L	1000	985	99	85-115	
Arsenic	ug/L	1000	931	93	85-115	
Beryllium	ug/L	1000	1030	103	85-115	
Cadmium	ug/L	1000	954	95	85-115	
Chromium	ug/L	1000	1060	106	85-115	
Cobalt	ug/L	1000	987	99	85-115	
Copper	ug/L	1000	1000	100	85-115	
Iron	ug/L	10000	10100	101	85-115	
Lead	ug/L	1000	999	100	85-115	
Nickel	ug/L	1000	1020	102	85-115	
Selenium	ug/L	1000	970	97	85-115	
Silver	ug/L	500	504	101	85-115	
Thallium	ug/L	1000	966	97	85-115	
Zinc	ug/L	1000	980	98	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-321

Pace Project No.: 60170803

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1391733 1391734												
Parameter	Units	60170803001		MS	MSD	MS		MSD		% Rec Limits	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Aluminum	ug/L	7820	50000	50000	63000	63800	110	112	70-130	1	8	
Antimony	ug/L	119	5000	5000	5230	5200	102	102	70-130	0	7	
Arsenic	ug/L	1200	5000	5000	6520	6560	107	107	70-130	0	10	
Beryllium	ug/L	ND	5000	5000	5010	5000	100	100	70-130	0	7	
Cadmium	ug/L	28.8	5000	5000	5090	5100	101	101	70-130	0	10	
Chromium	ug/L	267	5000	5000	5400	5420	103	103	70-130	0	10	
Cobalt	ug/L	41.3	5000	5000	4690	4700	93	93	70-130	0	6	
Copper	ug/L	ND	5000	5000	5490	5420	109	107	70-130	1	11	
Iron	ug/L	747000	50000	50000	800000	805000	105	116	70-130	1	10	
Lead	ug/L	94.9	5000	5000	4530	4560	89	89	70-130	1	10	
Nickel	ug/L	135	5000	5000	4870	4880	95	95	70-130	0	10	
Selenium	ug/L	ND	5000	5000	6000	6020	119	119	70-130	0	10	
Silver	ug/L	ND	2500	2500	2750	2740	109	109	70-130	0	10	
Thallium	ug/L	ND	5000	5000	3910	3920	78	78	70-130	0	6	
Zinc	ug/L	5290	5000	5000	9880	9800	92	90	70-130	1	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-321

Pace Project No.: 60170803

QC Batch: MPRP/27584

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Dissolved

Associated Lab Samples: 60170803001

METHOD BLANK: 1391834

Matrix: Water

Associated Lab Samples: 60170803001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	06/12/14 13:25	
Antimony, Dissolved	ug/L	ND	10.0	06/12/14 13:25	
Arsenic, Dissolved	ug/L	ND	10.0	06/12/14 13:25	
Beryllium, Dissolved	ug/L	ND	1.0	06/12/14 13:25	
Cadmium, Dissolved	ug/L	ND	5.0	06/12/14 13:25	
Chromium, Dissolved	ug/L	ND	5.0	06/12/14 13:25	
Cobalt, Dissolved	ug/L	ND	5.0	06/12/14 13:25	
Copper, Dissolved	ug/L	ND	10.0	06/12/14 13:25	
Iron, Dissolved	ug/L	ND	50.0	06/12/14 13:25	
Lead, Dissolved	ug/L	ND	5.0	06/12/14 13:25	
Nickel, Dissolved	ug/L	ND	5.0	06/12/14 13:25	
Selenium, Dissolved	ug/L	ND	15.0	06/12/14 13:25	
Silver, Dissolved	ug/L	ND	7.0	06/12/14 13:25	
Thallium, Dissolved	ug/L	ND	20.0	06/12/14 13:25	
Zinc, Dissolved	ug/L	ND	50.0	06/12/14 13:25	

LABORATORY CONTROL SAMPLE: 1391835

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9860	99	85-115	
Antimony, Dissolved	ug/L	1000	957	96	85-115	
Arsenic, Dissolved	ug/L	1000	924	92	85-115	
Beryllium, Dissolved	ug/L	1000	1010	101	85-115	
Cadmium, Dissolved	ug/L	1000	942	94	85-115	
Chromium, Dissolved	ug/L	1000	1040	104	85-115	
Cobalt, Dissolved	ug/L	1000	971	97	85-115	
Copper, Dissolved	ug/L	1000	976	98	85-115	
Iron, Dissolved	ug/L	10000	9910	99	85-115	
Lead, Dissolved	ug/L	1000	987	99	85-115	
Nickel, Dissolved	ug/L	1000	1010	101	85-115	
Selenium, Dissolved	ug/L	1000	966	97	85-115	
Silver, Dissolved	ug/L	500	496	99	85-115	
Thallium, Dissolved	ug/L	1000	952	95	85-115	
Zinc, Dissolved	ug/L	1000	996	100	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-321

Pace Project No.: 60170803

Parameter	Units	60170803001		MS		MSD		MS		MSD		% Rec	% Rec	Limits	RPD	Max	RPD	Qual
		Result	Conc.	Spike	Conc.	Result	Conc.	Result	Conc.	Result	Conc.							
Aluminum, Dissolved	ug/L	1810	50000	50000	50000	52200	52300	101	101	70-130	0	8						
Antimony, Dissolved	ug/L	70.4	5000	5000	5000	5200	5180	102	102	70-130	0	7						
Arsenic, Dissolved	ug/L	918	5000	5000	5000	6380	6210	109	106	70-130	3	10						
Beryllium, Dissolved	ug/L	ND	5000	5000	5000	4900	4900	98	98	70-130	0	7						
Cadmium, Dissolved	ug/L	25.4	5000	5000	5000	5060	5040	101	100	70-130	0	10						
Chromium, Dissolved	ug/L	176	5000	5000	5000	5260	5220	102	101	70-130	1	10						
Cobalt, Dissolved	ug/L	ND	5000	5000	5000	4630	4640	92	92	70-130	0	6						
Copper, Dissolved	ug/L	ND	5000	5000	5000	5450	5400	108	107	70-130	1	11						
Iron, Dissolved	ug/L	322000	50000	50000	50000	404000	387000	163	129	70-130	4	10	M1					
Lead, Dissolved	ug/L	ND	5000	5000	5000	4500	4490	89	89	70-130	0	10						
Nickel, Dissolved	ug/L	94.2	5000	5000	5000	4820	4820	94	94	70-130	0	10						
Selenium, Dissolved	ug/L	ND	5000	5000	5000	5990	5920	119	118	70-130	1	10						
Silver, Dissolved	ug/L	ND	2500	2500	2500	2730	2710	108	107	70-130	1	10						
Thallium, Dissolved	ug/L	ND	5000	5000	5000	3960	3940	79	79	70-130	0	6						
Zinc, Dissolved	ug/L	4220	5000	5000	5000	9240	8970	100	95	70-130	3	11						

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-321

Pace Project No.: 60170803

QC Batch: MSV/62158 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60170803001, 60170803002

METHOD BLANK: 1391117 Matrix: Water

Associated Lab Samples: 60170803001, 60170803002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/09/14 12:47	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/09/14 12:47	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	06/09/14 12:47	
1,2-Dichloroethane	ug/L	ND	1.0	06/09/14 12:47	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/09/14 12:47	
2-Butanone (MEK)	ug/L	ND	10.0	06/09/14 12:47	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/09/14 12:47	N2
Acetone	ug/L	ND	10.0	06/09/14 12:47	N2
Benzene	ug/L	ND	1.0	06/09/14 12:47	
Bromodichloromethane	ug/L	ND	1.0	06/09/14 12:47	
Bromoform	ug/L	ND	1.0	06/09/14 12:47	
Bromomethane	ug/L	ND	5.0	06/09/14 12:47	
Carbon tetrachloride	ug/L	ND	1.0	06/09/14 12:47	
Chloroethane	ug/L	ND	1.0	06/09/14 12:47	
Chloroform	ug/L	ND	1.0	06/09/14 12:47	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/09/14 12:47	N2
Ethylbenzene	ug/L	ND	1.0	06/09/14 12:47	
Methylene chloride	ug/L	ND	1.0	06/09/14 12:47	
Tetrachloroethene	ug/L	ND	1.0	06/09/14 12:47	
Toluene	ug/L	ND	1.0	06/09/14 12:47	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/09/14 12:47	
Trichloroethene	ug/L	ND	1.0	06/09/14 12:47	
Vinyl chloride	ug/L	ND	1.0	06/09/14 12:47	
Xylene (Total)	ug/L	ND	3.0	06/09/14 12:47	N2
1,2-Dichloroethane-d4 (S)	%	96	80-120	06/09/14 12:47	
4-Bromofluorobenzene (S)	%	99	80-120	06/09/14 12:47	
Toluene-d8 (S)	%	97	80-120	06/09/14 12:47	

LABORATORY CONTROL SAMPLE: 1391118

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	17.9	90	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	20.4	102	67-127	N2
1,1,2-Trichloroethane	ug/L	20	19.5	98	67-124	
1,2-Dichloroethane	ug/L	20	18.1	90	70-126	
1,4-Dichlorobenzene	ug/L	20	18.0	90	74-120	
2-Butanone (MEK)	ug/L	100	104	104	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	110	110	59-131	N2
Acetone	ug/L	100	101	101	38-134	N2
Benzene	ug/L	20	18.1	90	75-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-321

Pace Project No.: 60170803

LABORATORY CONTROL SAMPLE: 1391118

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	20	19.2	96	68-125	
Bromoform	ug/L	20	19.8	99	65-127	
Bromomethane	ug/L	20	8.9	44	13-157	
Carbon tetrachloride	ug/L	20	17.6	88	70-131	
Chloroethane	ug/L	20	15.3	77	47-133	
Chloroform	ug/L	20	17.9	90	65-127	
cis-1,2-Dichloroethene	ug/L	20	18.8	94	68-127	N2
Ethylbenzene	ug/L	20	18.4	92	74-122	
Methylene chloride	ug/L	20	16.7	84	64-129	
Tetrachloroethene	ug/L	20	18.7	94	73-125	
Toluene	ug/L	20	17.8	89	69-126	
trans-1,2-Dichloroethene	ug/L	20	17.2	86	66-129	
Trichloroethene	ug/L	20	17.6	88	71-123	
Vinyl chloride	ug/L	20	12.4	62	43-129	
Xylene (Total)	ug/L	60	54.9	92	75-121	N2
1,2-Dichloroethane-d4 (S)	%			98	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			97	80-120	

MATRIX SPIKE SAMPLE: 1391119

Parameter	Units	60170883001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	20	17.6	88	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20.6	103	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	20	18.6	93	52-143	
1,2-Dichloroethane	ug/L	ND	20	15.7	78	49-144	
1,4-Dichlorobenzene	ug/L	ND	20	18.3	-737	33-140	M1
2-Butanone (MEK)	ug/L	39900	100	242	-39617	40-160	M1,N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	101	-437	40-160	M1,N2
Acetone	ug/L	95000	100	456	-94524	10-160	M1,N2
Benzene	ug/L	ND	20	16.7	83	37-151	
Bromodichloromethane	ug/L	ND	20	17.3	87	35-142	
Bromoform	ug/L	ND	20	17.8	89	45-142	
Bromomethane	ug/L	ND	20	9.3	47	10-158	
Carbon tetrachloride	ug/L	ND	20	18.3	91	70-140	
Chloroethane	ug/L	ND	20	15.7	79	19-152	
Chloroform	ug/L	ND	20	16.6	83	51-138	
cis-1,2-Dichloroethene	ug/L	ND	20	17.0	85	34-147	N2
Ethylbenzene	ug/L	ND	20	18.3	92	40-142	
Methylene chloride	ug/L	ND	20	15.1	75	31-144	
Tetrachloroethene	ug/L	ND	20	18.8	94	64-148	
Toluene	ug/L	ND	20	16.6	83	47-150	
trans-1,2-Dichloroethene	ug/L	ND	20	16.1	81	54-151	
Trichloroethene	ug/L	ND	20	16.8	84	71-149	
Vinyl chloride	ug/L	ND	20	14.4	72	22-146	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-321

Pace Project No.: 60170803

MATRIX SPIKE SAMPLE:		1391119		60170883001		Spike Conc.		MS Result		MS % Rec		% Rec Limits		Qualifiers	
Parameter	Units	Result	Conc.	Result	% Rec	Result	% Rec	Limits	Qualifiers						
Xylene (Total)	ug/L	ND	60	53.7	89	37-144	MS, N2								
1,2-Dichloroethane-d4 (S)	%				93	80-120									
4-Bromofluorobenzene (S)	%				104	80-120	HS								
Toluene-d8 (S)	%				96	80-120									
Preservation pH		6.0		6.0											

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-321

Pace Project No.: 60170803

QC Batch:	OEXT/44574	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60170803001		

METHOD BLANK: 1391527 Matrix: Water

Associated Lab Samples: 60170803001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/11/14 08:55	
2,4,6-Trichlorophenol	ug/L	ND	5.0	06/11/14 08:55	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	06/11/14 08:55	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	06/11/14 08:55	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	06/11/14 08:55	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/11/14 08:55	
Hexachlorocyclopentadiene	ug/L	ND	5.0	06/11/14 08:55	
Hexachloroethane	ug/L	ND	5.0	06/11/14 08:55	
Naphthalene	ug/L	ND	5.0	06/11/14 08:55	
Nitrobenzene	ug/L	ND	5.0	06/11/14 08:55	
Pentachlorophenol	ug/L	ND	5.0	06/11/14 08:55	
Phenol	ug/L	ND	5.0	06/11/14 08:55	
2,4,6-Tribromophenol (S)	%	84	39-120	06/11/14 08:55	
2-Fluorobiphenyl (S)	%	78	39-120	06/11/14 08:55	
2-Fluorophenol (S)	%	44	17-120	06/11/14 08:55	
Nitrobenzene-d5 (S)	%	77	33-120	06/11/14 08:55	
Phenol-d6 (S)	%	29	11-120	06/11/14 08:55	
Terphenyl-d14 (S)	%	80	45-120	06/11/14 08:55	

LABORATORY CONTROL SAMPLE: 1391528

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	37.0	74	46-120	
2,4,6-Trichlorophenol	ug/L	50	38.8	78	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	28.3	57	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	25.2	50	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	43.0	86	40-133	
Hexachloro-1,3-butadiene	ug/L	50	35.1	70	44-116	
Hexachlorocyclopentadiene	ug/L	100	60.1	60	24-120	
Hexachloroethane	ug/L	50	34.2	68	43-113	
Naphthalene	ug/L	50	38.4	77	48-120	
Nitrobenzene	ug/L	50	40.0	80	48-120	
Pentachlorophenol	ug/L	50	37.6	75	47-120	
Phenol	ug/L	50	11.6	23	16-112	
2,4,6-Tribromophenol (S)	%			88	39-120	
2-Fluorobiphenyl (S)	%			81	39-120	
2-Fluorophenol (S)	%			38	17-120	
Nitrobenzene-d5 (S)	%			82	33-120	
Phenol-d6 (S)	%			24	11-120	
Terphenyl-d14 (S)	%			83	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-321

Pace Project No.: 60170803

MATRIX SPIKE SAMPLE:		1391529					
Parameter	Units	60170805001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	34.6	69	44-120	
2,4,6-Trichlorophenol	ug/L	ND	50	40.5	81	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	50	28.1	56	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	50	26.0	52	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	50	44.1	88	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	50	33.7	67	39-116	
Hexachlorocyclopentadiene	ug/L	ND	100	64.3	64	11-120	
Hexachloroethane	ug/L	ND	50	30.7	61	40-113	
Naphthalene	ug/L	ND	50	35.9	72	45-120	
Nitrobenzene	ug/L	ND	50	37.3	75	38-120	
Pentachlorophenol	ug/L	ND	50	44.2	88	43-135	
Phenol	ug/L	ND	50	11.9	24	13-112	
2,4,6-Tribromophenol (S)	%				87	39-120	
2-Fluorobiphenyl (S)	%				80	39-120	
2-Fluorophenol (S)	%				35	17-120	
Nitrobenzene-d5 (S)	%				77	33-120	
Phenol-d6 (S)	%				23	11-120	
Terphenyl-d14 (S)	%				80	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-321

Pace Project No.: 60170803

QC Batch:	WET/48275	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60170803001		

METHOD BLANK: 1390252 Matrix: Water

Associated Lab Samples: 60170803001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	06/06/14 12:47	

LABORATORY CONTROL SAMPLE: 1390253

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	36.8	92	78-114	

MATRIX SPIKE SAMPLE: 1390254

Parameter	Units	60170631001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	1240	160	1150	-59	78-114	M1

SAMPLE DUPLICATE: 1390255

Parameter	Units	60170714001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	2.6J		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-321

Pace Project No.: 60170803

QC Batch: WET/48284

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60170803001

METHOD BLANK: 1390602

Matrix: Water

Associated Lab Samples: 60170803001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	06/06/14 16:05	

LABORATORY CONTROL SAMPLE: 1390603

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	22.1	110	64-132	

MATRIX SPIKE SAMPLE: 1390604

Parameter	Units	60170631001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	13.2	80	46.4	42	64-132	M1

SAMPLE DUPLICATE: 1390605

Parameter	Units	60170714001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	2.7J		34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-321

Pace Project No.: 60170803

QC Batch: WET/48375

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60170803001

METHOD BLANK: 1392513

Matrix: Water

Associated Lab Samples: 60170803001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	06/11/14 14:12	

SAMPLE DUPLICATE: 1392514

Parameter	Units	60170867001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	8.0	13.0	48	10	D6

SAMPLE DUPLICATE: 1392515

Parameter	Units	60170688001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	8.0	8.0	0	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-321

Pace Project No.: 60170803

QC Batch: WET/48280 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60170803001

SAMPLE DUPLICATE: 1390362

Parameter	Units	60170725001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.1	8.1	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-321

Pace Project No.: 60170803

QC Batch: WET/48283

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60170803001

METHOD BLANK: 1390388

Matrix: Water

Associated Lab Samples: 60170803001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	06/11/14 13:29	

LABORATORY CONTROL SAMPLE: 1390389

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	170	86	85-115	

SAMPLE DUPLICATE: 1390390

Parameter	Units	60170802001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	754	791	5	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-321

Pace Project No.: 60170803

QC Batch:	WETA/29743	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60170803001		

METHOD BLANK: 1390320 Matrix: Water
Associated Lab Samples: 60170803001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	06/06/14 14:10	

LABORATORY CONTROL SAMPLE: 1390321

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	105	90-110	

MATRIX SPIKE SAMPLE: 1390323

Parameter	Units	60170557002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.8	92	90-110	

SAMPLE DUPLICATE: 1390322

Parameter	Units	60170557002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-321

Pace Project No.: 60170803

QC Batch:	WETA/29766	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60170803001		

METHOD BLANK: 1391504 Matrix: Water

Associated Lab Samples: 60170803001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	06/11/14 08:22	

LABORATORY CONTROL SAMPLE: 1391505

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	54.3	109	90-110	

MATRIX SPIKE SAMPLE: 1391506

Parameter	Units	60170803001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	57300	25000	71800	58	90-110	M1

MATRIX SPIKE SAMPLE: 1391508

Parameter	Units	60170421003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	77.8	50	131	106	90-110	

SAMPLE DUPLICATE: 1391507

Parameter	Units	60170816002 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	ND	4J		25	

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QUALIFIERS

Project: BRIDGETON LF 316-321

Pace Project No.: 60170803

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.

ANALYTE QUALIFIERS

D6 The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

H6 Analysis initiated outside of the 15 minute EPA recommended holding time.

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

MS Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.

N2 The lab does not hold TNI accreditation for this parameter.

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-321

Pace Project No.: 60170803

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60170803001	316-321	EPA 200.7	MPRP/27579	EPA 200.7	ICP/20855
60170803001	316-321	EPA 200.7	MPRP/27584	EPA 200.7	ICP/20856
60170803001	316-321	EPA 245.1	MERP/8470	EPA 245.1	MERC/8425
60170803001	316-321	EPA 245.1	MERP/8474	EPA 245.1	MERC/8429
60170803001	316-321	EPA 625	OEXT/44574	EPA 625	MSSV/14271
60170803001	316-321	EPA 624 Low	MSV/62158		
60170803002	TRIP BLANK	EPA 624 Low	MSV/62158		
60170803001	316-321	EPA 1664A	WET/48275		
60170803001	316-321	EPA 1664A	WET/48284		
60170803001	316-321	SM 2540D	WET/48375		
60170803001	316-321	SM 4500-H+B	WET/48280		
60170803001	316-321	SM 5210B	WET/48283	SM 5210B	WET/48378
60170803001	316-321	EPA 350.1	WETA/29743		
60170803001	316-321	EPA 410.4	WETA/29766		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60170803



Client Name: Barr Engineering

Courier: Fed Ex UPS USPS Client Commercial Pace Other x-roads

Tracking #: _____ Pace Shipping Label Used? Yes No

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other

Thermometer Used: T-239 / T-194

Type of Ice: Wet Blue None Samples received on ice, cooling process has begun. (circle one)

Cooler Temperature: 5.2

Optional
Proj Due Date:
Proj Name:

Date and initials of person examining contents: 6/5/14 [initials]

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>Boo, pH</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <u>"316-321" 6/5/14 @ 930</u>
Includes date/time/ID/analyses Matrix: <u>WA</u>		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	initial pH BP3N 5.5, added 2.5ml HNO3 final 4.0
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	initial pH BP3S 4.0, added 2.5ml H2SO4 final 3.5
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>[initials]</u> Lot # of added preservative <u>12513-27-2 HNO3</u> <u>12520-2-7 H2SO4</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank lot # (if purchased): <u>040714-3052</u>		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <u>MD</u>

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 6/9/14

June 16, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-322
Pace Project No.: 60170883

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 07, 2014. 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,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Bill Abernathy, Feezor Engineering
Kelly Caddy, Barr Engineering
DAN FEEZOR, FEEZOR ENGINEERING
Dana B. Pasi, Barr Engineering Co.
Brian Power, Republic Services
Brian Sehie, Republic Services
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-322

Pace Project No.: 60170883

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-13-4

Utah Certification #: KS000212013-3

Illinois Certification #: 003097

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-322
Pace Project No.: 60170883

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60170883001	316-322	Water	06/06/14 08:50	06/07/14 00:30
60170883002	TRIP BLANK	Water	06/06/14 08:50	06/07/14 00:30

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-322

Pace Project No.: 60170883

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60170883001	316-322	EPA 200.7	NDJ	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	CRT	1
		EPA 1664A	CRT	1
		SM 2540D	ESM	1
		SM 4500-H+B	NDL	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC1	1
		60170883002	TRIP BLANK	EPA 624 Low

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-322

Pace Project No.: 60170883

Sample: 316-322		Lab ID: 60170883001	Collected: 06/06/14 08:50	Received: 06/07/14 00:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	6030	ug/L	750	2	06/10/14 11:25	06/12/14 12:59	7429-90-5	
Antimony	110	ug/L	50.0	1	06/10/14 11:25	06/12/14 12:56	7440-36-0	
Arsenic	1160	ug/L	50.0	1	06/10/14 11:25	06/12/14 12:56	7440-38-2	
Beryllium	ND	ug/L	5.0	1	06/10/14 11:25	06/12/14 12:56	7440-41-7	
Cadmium	30.5	ug/L	25.0	1	06/10/14 11:25	06/12/14 12:56	7440-43-9	
Chromium	259	ug/L	25.0	1	06/10/14 11:25	06/12/14 12:56	7440-47-3	
Cobalt	39.2	ug/L	25.0	1	06/10/14 11:25	06/12/14 12:56	7440-48-4	
Copper	ND	ug/L	50.0	1	06/10/14 11:25	06/12/14 12:56	7440-50-8	
Iron	688000	ug/L	250	1	06/10/14 11:25	06/12/14 12:56	7439-89-6	
Lead	85.8	ug/L	25.0	1	06/10/14 11:25	06/12/14 12:56	7439-92-1	
Nickel	131	ug/L	25.0	1	06/10/14 11:25	06/12/14 12:56	7440-02-0	
Selenium	ND	ug/L	75.0	1	06/10/14 11:25	06/12/14 12:56	7782-49-2	
Silver	ND	ug/L	35.0	1	06/10/14 11:25	06/12/14 12:56	7440-22-4	
Thallium	ND	ug/L	200	2	06/10/14 11:25	06/12/14 12:59	7440-28-0	D3
Zinc	5950	ug/L	500	2	06/10/14 11:25	06/12/14 12:59	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	2220	ug/L	750	2	06/10/14 16:00	06/12/14 13:49	7429-90-5	
Antimony, Dissolved	65.2	ug/L	50.0	1	06/10/14 16:00	06/12/14 13:46	7440-36-0	
Arsenic, Dissolved	1020	ug/L	50.0	1	06/10/14 16:00	06/12/14 13:46	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	06/10/14 16:00	06/12/14 13:46	7440-41-7	
Cadmium, Dissolved	25.0	ug/L	25.0	1	06/10/14 16:00	06/12/14 13:46	7440-43-9	
Chromium, Dissolved	203	ug/L	25.0	1	06/10/14 16:00	06/12/14 13:46	7440-47-3	
Cobalt, Dissolved	32.9	ug/L	25.0	1	06/10/14 16:00	06/12/14 13:46	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	06/10/14 16:00	06/12/14 13:46	7440-50-8	
Iron, Dissolved	386000	ug/L	250	1	06/10/14 16:00	06/12/14 13:46	7439-89-6	
Lead, Dissolved	36.8	ug/L	25.0	1	06/10/14 16:00	06/12/14 13:46	7439-92-1	
Nickel, Dissolved	104	ug/L	25.0	1	06/10/14 16:00	06/12/14 13:46	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	06/10/14 16:00	06/12/14 13:46	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	06/10/14 16:00	06/12/14 13:46	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	06/10/14 16:00	06/12/14 13:46	7440-28-0	
Zinc, Dissolved	5280	ug/L	500	2	06/10/14 16:00	06/12/14 13:49	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	21.5	ug/L	6.0	1	06/09/14 17:15	06/10/14 10:48	7439-97-6	
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND	ug/L	6.0	1	06/10/14 14:00	06/11/14 10:52	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	06/10/14 00:00	06/11/14 11:43	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	06/10/14 00:00	06/11/14 11:43	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	06/10/14 00:00	06/11/14 11:43	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	06/10/14 00:00	06/11/14 11:43	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	2000	2	06/10/14 00:00	06/11/14 11:43	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	8480	ug/L	4000	2	06/10/14 00:00	06/11/14 11:43		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-322

Pace Project No.: 60170883

Sample: 316-322		Lab ID: 60170883001	Collected: 06/06/14 08:50	Received: 06/07/14 00:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	1240 ug/L		1000	2	06/10/14 00:00	06/11/14 11:43	91-20-3	
Nitrobenzene	ND ug/L		1000	2	06/10/14 00:00	06/11/14 11:43	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	06/10/14 00:00	06/11/14 11:43	87-86-5	
Phenol	11200 ug/L		1000	2	06/10/14 00:00	06/11/14 11:43	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	06/10/14 00:00	06/11/14 11:43	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	06/10/14 00:00	06/11/14 11:43	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	156 %		33-120	2	06/10/14 00:00	06/11/14 11:43	4165-60-0	S0
2-Fluorobiphenyl (S)	81 %		39-120	2	06/10/14 00:00	06/11/14 11:43	321-60-8	
Terphenyl-d14 (S)	78 %		45-120	2	06/10/14 00:00	06/11/14 11:43	1718-51-0	
Phenol-d6 (S)	31 %		11-120	2	06/10/14 00:00	06/11/14 11:43	13127-88-3	
2-Fluorophenol (S)	45 %		17-120	2	06/10/14 00:00	06/11/14 11:43	367-12-4	
2,4,6-Tribromophenol (S)	94 %		39-120	2	06/10/14 00:00	06/11/14 11:43	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	95000 ug/L		2500	250		06/09/14 16:09	67-64-1	M1,N2
Benzene	ND ug/L		250	250		06/09/14 16:09	71-43-2	
Bromodichloromethane	ND ug/L		250	250		06/09/14 16:09	75-27-4	
Bromoform	ND ug/L		250	250		06/09/14 16:09	75-25-2	
Bromomethane	ND ug/L		1250	250		06/09/14 16:09	74-83-9	
2-Butanone (MEK)	39900 ug/L		2500	250		06/09/14 16:09	78-93-3	M1,N2
Carbon tetrachloride	ND ug/L		250	250		06/09/14 16:09	56-23-5	
Chloroethane	ND ug/L		250	250		06/09/14 16:09	75-00-3	
Chloroform	ND ug/L		250	250		06/09/14 16:09	67-66-3	
1,4-Dichlorobenzene	ND ug/L		250	250		06/09/14 16:09	106-46-7	M1
1,2-Dichloroethane	ND ug/L		250	250		06/09/14 16:09	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		06/09/14 16:09	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		06/09/14 16:09	156-60-5	
Ethylbenzene	ND ug/L		250	250		06/09/14 16:09	100-41-4	
Methylene chloride	ND ug/L		250	250		06/09/14 16:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		06/09/14 16:09	108-10-1	M1,N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		06/09/14 16:09	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		06/09/14 16:09	127-18-4	
Toluene	ND ug/L		250	250		06/09/14 16:09	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		06/09/14 16:09	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		06/09/14 16:09	79-00-5	
Trichloroethene	ND ug/L		250	250		06/09/14 16:09	79-01-6	
Vinyl chloride	ND ug/L		250	250		06/09/14 16:09	75-01-4	
Xylene (Total)	ND ug/L		750	250		06/09/14 16:09	1330-20-7	MS,N2
Surrogates								
4-Bromofluorobenzene (S)	104 %		80-120	250		06/09/14 16:09	460-00-4	HS
Toluene-d8 (S)	97 %		80-120	250		06/09/14 16:09	2037-26-5	
1,2-Dichloroethane-d4 (S)	95 %		80-120	250		06/09/14 16:09	17060-07-0	
Preservation pH	6.0		1.0	250		06/09/14 16:09		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	785 mg/L		5.0	1		06/11/14 10:05		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-322

Pace Project No.: 60170883

Sample: 316-322		Lab ID: 60170883001	Collected: 06/06/14 08:50	Received: 06/07/14 00:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	9.6	mg/L	5.0	1		06/11/14 12:25		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	5440	mg/L	5.0	1		06/12/14 14:16		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.3	Std. Units	0.10	1		06/10/14 16:15		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	31700	mg/L	2.0	1	06/07/14 08:58	06/12/14 15:33		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	632	mg/L	20.0	200		06/10/14 12:13	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	48500	mg/L	5000	500		06/11/14 08:27		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-322

Pace Project No.: 60170883

Sample: TRIP BLANK		Lab ID: 60170883002	Collected: 06/06/14 08:50	Received: 06/07/14 00:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		06/11/14 14:45	67-64-1	N2
Benzene	ND ug/L		1.0	1		06/11/14 14:45	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		06/11/14 14:45	75-27-4	
Bromoform	ND ug/L		1.0	1		06/11/14 14:45	75-25-2	
Bromomethane	ND ug/L		5.0	1		06/11/14 14:45	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/11/14 14:45	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		06/11/14 14:45	56-23-5	
Chloroethane	ND ug/L		1.0	1		06/11/14 14:45	75-00-3	
Chloroform	ND ug/L		1.0	1		06/11/14 14:45	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		06/11/14 14:45	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		06/11/14 14:45	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		06/11/14 14:45	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		06/11/14 14:45	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		06/11/14 14:45	100-41-4	
Methylene chloride	ND ug/L		1.0	1		06/11/14 14:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/11/14 14:45	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		06/11/14 14:45	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		06/11/14 14:45	127-18-4	
Toluene	ND ug/L		1.0	1		06/11/14 14:45	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		06/11/14 14:45	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		06/11/14 14:45	79-00-5	
Trichloroethene	ND ug/L		1.0	1		06/11/14 14:45	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		06/11/14 14:45	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		06/11/14 14:45	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	99 %		80-120	1		06/11/14 14:45	460-00-4	
Toluene-d8 (S)	99 %		80-120	1		06/11/14 14:45	2037-26-5	
1,2-Dichloroethane-d4 (S)	97 %		80-120	1		06/11/14 14:45	17060-07-0	
Preservation pH	6.0		1.0	1		06/11/14 14:45		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-322

Pace Project No.: 60170883

QC Batch:	MERP/8470	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
Associated Lab Samples:	60170883001		

METHOD BLANK: 1391435 Matrix: Water
Associated Lab Samples: 60170883001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	06/10/14 10:10	

LABORATORY CONTROL SAMPLE: 1391436

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.8	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1391437 1391438

Parameter	Units	60170884001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
Mercury	ug/L	ND	5	5	2.8	2.8	55	54	70-130	1	20	M1	

MATRIX SPIKE SAMPLE: 1391439

Parameter	Units	60170484001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	4.6	91	70-130	

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-322

Pace Project No.: 60170883

QC Batch: MERP/8474	Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1	Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60170883001	

METHOD BLANK: 1391846 Matrix: Water
Associated Lab Samples: 60170883001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	06/11/14 10:39	

LABORATORY CONTROL SAMPLE: 1391847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.8	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1391848 1391849

Parameter	Units	60170631001		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	ND	Spike Conc.	Conc.	Result	Result	% Rec	% Rec						
Mercury, Dissolved	ug/L	ND	150	150	142	141	95	94	70-130	0	20				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-322

Pace Project No.: 60170883

QC Batch: MPRP/27579

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Total

Associated Lab Samples: 60170883001

METHOD BLANK: 1391731

Matrix: Water

Associated Lab Samples: 60170883001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	06/12/14 12:39	
Antimony	ug/L	ND	10.0	06/12/14 12:39	
Arsenic	ug/L	ND	10.0	06/12/14 12:39	
Beryllium	ug/L	ND	1.0	06/12/14 12:39	
Cadmium	ug/L	ND	5.0	06/12/14 12:39	
Chromium	ug/L	ND	5.0	06/12/14 12:39	
Cobalt	ug/L	ND	5.0	06/12/14 12:39	
Copper	ug/L	ND	10.0	06/12/14 12:39	
Iron	ug/L	ND	50.0	06/12/14 12:39	
Lead	ug/L	ND	5.0	06/12/14 12:39	
Nickel	ug/L	ND	5.0	06/12/14 12:39	
Selenium	ug/L	ND	15.0	06/12/14 12:39	
Silver	ug/L	ND	7.0	06/12/14 12:39	
Thallium	ug/L	ND	20.0	06/12/14 12:39	
Zinc	ug/L	ND	50.0	06/12/14 12:39	

LABORATORY CONTROL SAMPLE: 1391732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10100	101	85-115	
Antimony	ug/L	1000	985	99	85-115	
Arsenic	ug/L	1000	931	93	85-115	
Beryllium	ug/L	1000	1030	103	85-115	
Cadmium	ug/L	1000	954	95	85-115	
Chromium	ug/L	1000	1060	106	85-115	
Cobalt	ug/L	1000	987	99	85-115	
Copper	ug/L	1000	1000	100	85-115	
Iron	ug/L	10000	10100	101	85-115	
Lead	ug/L	1000	999	100	85-115	
Nickel	ug/L	1000	1020	102	85-115	
Selenium	ug/L	1000	970	97	85-115	
Silver	ug/L	500	504	101	85-115	
Thallium	ug/L	1000	966	97	85-115	
Zinc	ug/L	1000	980	98	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-322

Pace Project No.: 60170883

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1391733 1391734												
Parameter	Units	60170803001		MS	MSD	MS		MSD		% Rec Limits	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Aluminum	ug/L	7820	50000	50000	63000	63800	110	112	70-130	1	8	
Antimony	ug/L	119	5000	5000	5230	5200	102	102	70-130	0	7	
Arsenic	ug/L	1200	5000	5000	6520	6560	107	107	70-130	0	10	
Beryllium	ug/L	ND	5000	5000	5010	5000	100	100	70-130	0	7	
Cadmium	ug/L	28.8	5000	5000	5090	5100	101	101	70-130	0	10	
Chromium	ug/L	267	5000	5000	5400	5420	103	103	70-130	0	10	
Cobalt	ug/L	41.3	5000	5000	4690	4700	93	93	70-130	0	6	
Copper	ug/L	ND	5000	5000	5490	5420	109	107	70-130	1	11	
Iron	ug/L	747000	50000	50000	800000	805000	105	116	70-130	1	10	
Lead	ug/L	94.9	5000	5000	4530	4560	89	89	70-130	1	10	
Nickel	ug/L	135	5000	5000	4870	4880	95	95	70-130	0	10	
Selenium	ug/L	ND	5000	5000	6000	6020	119	119	70-130	0	10	
Silver	ug/L	ND	2500	2500	2750	2740	109	109	70-130	0	10	
Thallium	ug/L	ND	5000	5000	3910	3920	78	78	70-130	0	6	
Zinc	ug/L	5290	5000	5000	9880	9800	92	90	70-130	1	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-322

Pace Project No.: 60170883

QC Batch: MPRP/27584

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Dissolved

Associated Lab Samples: 60170883001

METHOD BLANK: 1391834

Matrix: Water

Associated Lab Samples: 60170883001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	06/12/14 13:25	
Antimony, Dissolved	ug/L	ND	10.0	06/12/14 13:25	
Arsenic, Dissolved	ug/L	ND	10.0	06/12/14 13:25	
Beryllium, Dissolved	ug/L	ND	1.0	06/12/14 13:25	
Cadmium, Dissolved	ug/L	ND	5.0	06/12/14 13:25	
Chromium, Dissolved	ug/L	ND	5.0	06/12/14 13:25	
Cobalt, Dissolved	ug/L	ND	5.0	06/12/14 13:25	
Copper, Dissolved	ug/L	ND	10.0	06/12/14 13:25	
Iron, Dissolved	ug/L	ND	50.0	06/12/14 13:25	
Lead, Dissolved	ug/L	ND	5.0	06/12/14 13:25	
Nickel, Dissolved	ug/L	ND	5.0	06/12/14 13:25	
Selenium, Dissolved	ug/L	ND	15.0	06/12/14 13:25	
Silver, Dissolved	ug/L	ND	7.0	06/12/14 13:25	
Thallium, Dissolved	ug/L	ND	20.0	06/12/14 13:25	
Zinc, Dissolved	ug/L	ND	50.0	06/12/14 13:25	

LABORATORY CONTROL SAMPLE: 1391835

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9860	99	85-115	
Antimony, Dissolved	ug/L	1000	957	96	85-115	
Arsenic, Dissolved	ug/L	1000	924	92	85-115	
Beryllium, Dissolved	ug/L	1000	1010	101	85-115	
Cadmium, Dissolved	ug/L	1000	942	94	85-115	
Chromium, Dissolved	ug/L	1000	1040	104	85-115	
Cobalt, Dissolved	ug/L	1000	971	97	85-115	
Copper, Dissolved	ug/L	1000	976	98	85-115	
Iron, Dissolved	ug/L	10000	9910	99	85-115	
Lead, Dissolved	ug/L	1000	987	99	85-115	
Nickel, Dissolved	ug/L	1000	1010	101	85-115	
Selenium, Dissolved	ug/L	1000	966	97	85-115	
Silver, Dissolved	ug/L	500	496	99	85-115	
Thallium, Dissolved	ug/L	1000	952	95	85-115	
Zinc, Dissolved	ug/L	1000	996	100	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-322

Pace Project No.: 60170883

Parameter	Units	60170803001		1391836		1391837		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Aluminum, Dissolved	ug/L	1810	50000	50000	52200	52300	101	101	70-130	0	8		
Antimony, Dissolved	ug/L	70.4	5000	5000	5200	5180	102	102	70-130	0	7		
Arsenic, Dissolved	ug/L	918	5000	5000	6380	6210	109	106	70-130	3	10		
Beryllium, Dissolved	ug/L	ND	5000	5000	4900	4900	98	98	70-130	0	7		
Cadmium, Dissolved	ug/L	25.4	5000	5000	5060	5040	101	100	70-130	0	10		
Chromium, Dissolved	ug/L	176	5000	5000	5260	5220	102	101	70-130	1	10		
Cobalt, Dissolved	ug/L	ND	5000	5000	4630	4640	92	92	70-130	0	6		
Copper, Dissolved	ug/L	ND	5000	5000	5450	5400	108	107	70-130	1	11		
Iron, Dissolved	ug/L	322000	50000	50000	404000	387000	163	129	70-130	4	10	M1	
Lead, Dissolved	ug/L	ND	5000	5000	4500	4490	89	89	70-130	0	10		
Nickel, Dissolved	ug/L	94.2	5000	5000	4820	4820	94	94	70-130	0	10		
Selenium, Dissolved	ug/L	ND	5000	5000	5990	5920	119	118	70-130	1	10		
Silver, Dissolved	ug/L	ND	2500	2500	2730	2710	108	107	70-130	1	10		
Thallium, Dissolved	ug/L	ND	5000	5000	3960	3940	79	79	70-130	0	6		
Zinc, Dissolved	ug/L	4220	5000	5000	9240	8970	100	95	70-130	3	11		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-322
Pace Project No.: 60170883

QC Batch: MSV/62158 Analysis Method: EPA 624 Low
QC Batch Method: EPA 624 Low Analysis Description: 624 MSV
Associated Lab Samples: 60170883001

METHOD BLANK: 1391117 Matrix: Water
Associated Lab Samples: 60170883001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/09/14 12:47	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/09/14 12:47	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	06/09/14 12:47	
1,2-Dichloroethane	ug/L	ND	1.0	06/09/14 12:47	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/09/14 12:47	
2-Butanone (MEK)	ug/L	ND	10.0	06/09/14 12:47	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/09/14 12:47	N2
Acetone	ug/L	ND	10.0	06/09/14 12:47	N2
Benzene	ug/L	ND	1.0	06/09/14 12:47	
Bromodichloromethane	ug/L	ND	1.0	06/09/14 12:47	
Bromoform	ug/L	ND	1.0	06/09/14 12:47	
Bromomethane	ug/L	ND	5.0	06/09/14 12:47	
Carbon tetrachloride	ug/L	ND	1.0	06/09/14 12:47	
Chloroethane	ug/L	ND	1.0	06/09/14 12:47	
Chloroform	ug/L	ND	1.0	06/09/14 12:47	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/09/14 12:47	N2
Ethylbenzene	ug/L	ND	1.0	06/09/14 12:47	
Methylene chloride	ug/L	ND	1.0	06/09/14 12:47	
Tetrachloroethene	ug/L	ND	1.0	06/09/14 12:47	
Toluene	ug/L	ND	1.0	06/09/14 12:47	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/09/14 12:47	
Trichloroethene	ug/L	ND	1.0	06/09/14 12:47	
Vinyl chloride	ug/L	ND	1.0	06/09/14 12:47	
Xylene (Total)	ug/L	ND	3.0	06/09/14 12:47	N2
1,2-Dichloroethane-d4 (S)	%	96	80-120	06/09/14 12:47	
4-Bromofluorobenzene (S)	%	99	80-120	06/09/14 12:47	
Toluene-d8 (S)	%	97	80-120	06/09/14 12:47	

LABORATORY CONTROL SAMPLE: 1391118

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	17.9	90	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	20.4	102	67-127	N2
1,1,2-Trichloroethane	ug/L	20	19.5	98	67-124	
1,2-Dichloroethane	ug/L	20	18.1	90	70-126	
1,4-Dichlorobenzene	ug/L	20	18.0	90	74-120	
2-Butanone (MEK)	ug/L	100	104	104	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	110	110	59-131	N2
Acetone	ug/L	100	101	101	38-134	N2
Benzene	ug/L	20	18.1	90	75-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-322

Pace Project No.: 60170883

LABORATORY CONTROL SAMPLE: 1391118

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	20	19.2	96	68-125	
Bromoform	ug/L	20	19.8	99	65-127	
Bromomethane	ug/L	20	8.9	44	13-157	
Carbon tetrachloride	ug/L	20	17.6	88	70-131	
Chloroethane	ug/L	20	15.3	77	47-133	
Chloroform	ug/L	20	17.9	90	65-127	
cis-1,2-Dichloroethene	ug/L	20	18.8	94	68-127	N2
Ethylbenzene	ug/L	20	18.4	92	74-122	
Methylene chloride	ug/L	20	16.7	84	64-129	
Tetrachloroethene	ug/L	20	18.7	94	73-125	
Toluene	ug/L	20	17.8	89	69-126	
trans-1,2-Dichloroethene	ug/L	20	17.2	86	66-129	
Trichloroethene	ug/L	20	17.6	88	71-123	
Vinyl chloride	ug/L	20	12.4	62	43-129	
Xylene (Total)	ug/L	60	54.9	92	75-121	N2
1,2-Dichloroethane-d4 (S)	%			98	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			97	80-120	

MATRIX SPIKE SAMPLE: 1391119

Parameter	Units	60170883001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	20	17.6	88	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20.6	103	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	20	18.6	93	52-143	
1,2-Dichloroethane	ug/L	ND	20	15.7	78	49-144	
1,4-Dichlorobenzene	ug/L	ND	20	18.3	-737	33-140	M1
2-Butanone (MEK)	ug/L	39900	100	242	-39617	40-160	M1,N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	101	-437	40-160	M1,N2
Acetone	ug/L	95000	100	456	-94524	10-160	M1,N2
Benzene	ug/L	ND	20	16.7	83	37-151	
Bromodichloromethane	ug/L	ND	20	17.3	87	35-142	
Bromoform	ug/L	ND	20	17.8	89	45-142	
Bromomethane	ug/L	ND	20	9.3	47	10-158	
Carbon tetrachloride	ug/L	ND	20	18.3	91	70-140	
Chloroethane	ug/L	ND	20	15.7	79	19-152	
Chloroform	ug/L	ND	20	16.6	83	51-138	
cis-1,2-Dichloroethene	ug/L	ND	20	17.0	85	34-147	N2
Ethylbenzene	ug/L	ND	20	18.3	92	40-142	
Methylene chloride	ug/L	ND	20	15.1	75	31-144	
Tetrachloroethene	ug/L	ND	20	18.8	94	64-148	
Toluene	ug/L	ND	20	16.6	83	47-150	
trans-1,2-Dichloroethene	ug/L	ND	20	16.1	81	54-151	
Trichloroethene	ug/L	ND	20	16.8	84	71-149	
Vinyl chloride	ug/L	ND	20	14.4	72	22-146	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-322

Pace Project No.: 60170883

MATRIX SPIKE SAMPLE:		1391119					
Parameter	Units	60170883001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	ND	60	53.7	89	37-144	MS,N2
1,2-Dichloroethane-d4 (S)	%				93	80-120	
4-Bromofluorobenzene (S)	%				104	80-120	HS
Toluene-d8 (S)	%				96	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-322
Pace Project No.: 60170883

QC Batch: MSV/62196 Analysis Method: EPA 624 Low
QC Batch Method: EPA 624 Low Analysis Description: 624 MSV
Associated Lab Samples: 60170883002

METHOD BLANK: 1391793 Matrix: Water
Associated Lab Samples: 60170883002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/11/14 12:26	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/11/14 12:26	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	06/11/14 12:26	
1,2-Dichloroethane	ug/L	ND	1.0	06/11/14 12:26	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/11/14 12:26	
2-Butanone (MEK)	ug/L	ND	10.0	06/11/14 12:26	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/11/14 12:26	N2
Acetone	ug/L	ND	10.0	06/11/14 12:26	N2
Benzene	ug/L	ND	1.0	06/11/14 12:26	
Bromodichloromethane	ug/L	ND	1.0	06/11/14 12:26	
Bromoform	ug/L	ND	1.0	06/11/14 12:26	
Bromomethane	ug/L	ND	5.0	06/11/14 12:26	
Carbon tetrachloride	ug/L	ND	1.0	06/11/14 12:26	
Chloroethane	ug/L	ND	1.0	06/11/14 12:26	
Chloroform	ug/L	ND	1.0	06/11/14 12:26	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/11/14 12:26	N2
Ethylbenzene	ug/L	ND	1.0	06/11/14 12:26	
Methylene chloride	ug/L	ND	1.0	06/11/14 12:26	
Tetrachloroethene	ug/L	ND	1.0	06/11/14 12:26	
Toluene	ug/L	ND	1.0	06/11/14 12:26	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/11/14 12:26	
Trichloroethene	ug/L	ND	1.0	06/11/14 12:26	
Vinyl chloride	ug/L	ND	1.0	06/11/14 12:26	
Xylene (Total)	ug/L	ND	3.0	06/11/14 12:26	N2
1,2-Dichloroethane-d4 (S)	%	94	80-120	06/11/14 12:26	
4-Bromofluorobenzene (S)	%	99	80-120	06/11/14 12:26	
Toluene-d8 (S)	%	95	80-120	06/11/14 12:26	

LABORATORY CONTROL SAMPLE: 1391794

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.6	93	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	21.2	106	67-127	N2
1,1,2-Trichloroethane	ug/L	20	20.0	100	67-124	
1,2-Dichloroethane	ug/L	20	18.8	94	70-126	
1,4-Dichlorobenzene	ug/L	20	18.9	94	74-120	
2-Butanone (MEK)	ug/L	100	105	105	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	113	113	59-131	N2
Acetone	ug/L	100	103	103	38-134	N2
Benzene	ug/L	20	19.3	96	75-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-322

Pace Project No.: 60170883

LABORATORY CONTROL SAMPLE: 1391794

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	20	19.6	98	68-125	
Bromoform	ug/L	20	20.1	100	65-127	
Bromomethane	ug/L	20	14.6	73	13-157	
Carbon tetrachloride	ug/L	20	18.1	91	70-131	
Chloroethane	ug/L	20	19.7	99	47-133	
Chloroform	ug/L	20	18.7	93	65-127	
cis-1,2-Dichloroethene	ug/L	20	19.8	99	68-127	N2
Ethylbenzene	ug/L	20	18.3	92	74-122	
Methylene chloride	ug/L	20	18.8	94	64-129	
Tetrachloroethene	ug/L	20	19.4	97	73-125	
Toluene	ug/L	20	18.2	91	69-126	
trans-1,2-Dichloroethene	ug/L	20	18.0	90	66-129	
Trichloroethene	ug/L	20	18.1	91	71-123	
Vinyl chloride	ug/L	20	19.5	97	43-129	
Xylene (Total)	ug/L	60	57.0	95	75-121	N2
1,2-Dichloroethane-d4 (S)	%			99	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			98	80-120	

MATRIX SPIKE SAMPLE: 1391795

Parameter	Units	60170941001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L		ND	5000	4540	91	52-155
1,1,2,2-Tetrachloroethane	ug/L		ND	5000	4990	98	46-146 N2
1,1,2-Trichloroethane	ug/L		ND	5000	4750	95	52-143
1,2-Dichloroethane	ug/L		ND	5000	4220	84	49-144
1,4-Dichlorobenzene	ug/L		ND	5000	4750	93	33-140
2-Butanone (MEK)	ug/L	43000	25000	64500		86	40-160 N2
4-Methyl-2-pentanone (MIBK)	ug/L		ND	25000	25000	98	40-160 N2
Acetone	ug/L	102000	25000	119000		68	10-160 N2
Benzene	ug/L		ND	5000	4490	90	37-151
Bromodichloromethane	ug/L		ND	5000	4490	90	35-142
Bromoform	ug/L		ND	5000	4600	92	45-142
Bromomethane	ug/L		ND	5000	2820	56	10-158
Carbon tetrachloride	ug/L		ND	5000	4650	93	70-140
Chloroethane	ug/L		ND	5000	3690	74	19-152
Chloroform	ug/L		ND	5000	4400	88	51-138
cis-1,2-Dichloroethene	ug/L		ND	5000	4600	92	34-147 N2
Ethylbenzene	ug/L		ND	5000	4800	96	40-142
Methylene chloride	ug/L		ND	5000	4310	82	31-144
Tetrachloroethene	ug/L		ND	5000	5060	101	64-148
Toluene	ug/L		ND	5000	4360	87	47-150
trans-1,2-Dichloroethene	ug/L		ND	5000	4350	87	54-151
Trichloroethene	ug/L		ND	5000	4430	89	71-149
Vinyl chloride	ug/L		ND	5000	3180	64	22-146

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-322

Pace Project No.: 60170883

MATRIX SPIKE SAMPLE:		1391795					
Parameter	Units	60170941001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	ND	15000	14200	94	37-144	N2
1,2-Dichloroethane-d4 (S)	%				93	80-120	
4-Bromofluorobenzene (S)	%				103	80-120	HS
Toluene-d8 (S)	%				94	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-322

Pace Project No.: 60170883

QC Batch:	OEXT/44574	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60170883001		

METHOD BLANK: 1391527 Matrix: Water

Associated Lab Samples: 60170883001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/11/14 08:55	
2,4,6-Trichlorophenol	ug/L	ND	5.0	06/11/14 08:55	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	06/11/14 08:55	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	06/11/14 08:55	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	06/11/14 08:55	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/11/14 08:55	
Hexachlorocyclopentadiene	ug/L	ND	5.0	06/11/14 08:55	
Hexachloroethane	ug/L	ND	5.0	06/11/14 08:55	
Naphthalene	ug/L	ND	5.0	06/11/14 08:55	
Nitrobenzene	ug/L	ND	5.0	06/11/14 08:55	
Pentachlorophenol	ug/L	ND	5.0	06/11/14 08:55	
Phenol	ug/L	ND	5.0	06/11/14 08:55	
2,4,6-Tribromophenol (S)	%	84	39-120	06/11/14 08:55	
2-Fluorobiphenyl (S)	%	78	39-120	06/11/14 08:55	
2-Fluorophenol (S)	%	44	17-120	06/11/14 08:55	
Nitrobenzene-d5 (S)	%	77	33-120	06/11/14 08:55	
Phenol-d6 (S)	%	29	11-120	06/11/14 08:55	
Terphenyl-d14 (S)	%	80	45-120	06/11/14 08:55	

LABORATORY CONTROL SAMPLE: 1391528

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	37.0	74	46-120	
2,4,6-Trichlorophenol	ug/L	50	38.8	78	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	28.3	57	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	25.2	50	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	43.0	86	40-133	
Hexachloro-1,3-butadiene	ug/L	50	35.1	70	44-116	
Hexachlorocyclopentadiene	ug/L	100	60.1	60	24-120	
Hexachloroethane	ug/L	50	34.2	68	43-113	
Naphthalene	ug/L	50	38.4	77	48-120	
Nitrobenzene	ug/L	50	40.0	80	48-120	
Pentachlorophenol	ug/L	50	37.6	75	47-120	
Phenol	ug/L	50	11.6	23	16-112	
2,4,6-Tribromophenol (S)	%			88	39-120	
2-Fluorobiphenyl (S)	%			81	39-120	
2-Fluorophenol (S)	%			38	17-120	
Nitrobenzene-d5 (S)	%			82	33-120	
Phenol-d6 (S)	%			24	11-120	
Terphenyl-d14 (S)	%			83	45-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-322

Pace Project No.: 60170883

MATRIX SPIKE SAMPLE:		1391529		60170805001		Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Result	% Rec	Limits	Qualifiers	
1,2,4-Trichlorobenzene	ug/L	ND	50	34.6	69			44-120		
2,4,6-Trichlorophenol	ug/L	ND	50	40.5	81			50-120		
2-Methylphenol(o-Cresol)	ug/L	ND	50	28.1	56			30-120	N2	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	50	26.0	52			27-120	N2	
4,6-Dinitro-2-methylphenol	ug/L	ND	50	44.1	88			10-160		
Hexachloro-1,3-butadiene	ug/L	ND	50	33.7	67			39-116		
Hexachlorocyclopentadiene	ug/L	ND	100	64.3	64			11-120		
Hexachloroethane	ug/L	ND	50	30.7	61			40-113		
Naphthalene	ug/L	ND	50	35.9	72			45-120		
Nitrobenzene	ug/L	ND	50	37.3	75			38-120		
Pentachlorophenol	ug/L	ND	50	44.2	88			43-135		
Phenol	ug/L	ND	50	11.9	24			13-112		
2,4,6-Tribromophenol (S)	%				87			39-120		
2-Fluorobiphenyl (S)	%				80			39-120		
2-Fluorophenol (S)	%				35			17-120		
Nitrobenzene-d5 (S)	%				77			33-120		
Phenol-d6 (S)	%				23			11-120		
Terphenyl-d14 (S)	%				80			45-120		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-322

Pace Project No.: 60170883

QC Batch:	WET/48359	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60170883001		

METHOD BLANK: 1392165 Matrix: Water
Associated Lab Samples: 60170883001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	06/11/14 09:59	

LABORATORY CONTROL SAMPLE: 1392166

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	35.5	89	78-114	

MATRIX SPIKE SAMPLE: 1392167

Parameter	Units	601708834001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	1.6J	44	41.5	91	78-114	

SAMPLE DUPLICATE: 1392168

Parameter	Units	60170883001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	785	691	13	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-322

Pace Project No.: 60170883

QC Batch:	WET/48360	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60170883001		

METHOD BLANK: 1392177 Matrix: Water
Associated Lab Samples: 60170883001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	06/11/14 12:23	

LABORATORY CONTROL SAMPLE: 1392178

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	24.9	124	64-132	

MATRIX SPIKE SAMPLE: 1392179

Parameter	Units	60170834001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	22	15.8	68	64-132	

SAMPLE DUPLICATE: 1392180

Parameter	Units	60170883001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	9.6	8.3	14	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-322

Pace Project No.: 60170883

QC Batch: WET/48403

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60170883001

METHOD BLANK: 1393090

Matrix: Water

Associated Lab Samples: 60170883001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	06/12/14 14:15	

SAMPLE DUPLICATE: 1393091

Parameter	Units	60170917001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	46.0	45.0	2	10	

SAMPLE DUPLICATE: 1393092

Parameter	Units	60170826001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	77.0	80.0	4	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-322

Pace Project No.: 60170883

QC Batch: WET/48332 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60170883001

SAMPLE DUPLICATE: 1391630

Parameter	Units	60170969001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.6	8.6	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-322

Pace Project No.: 60170883

QC Batch: WET/48297

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60170883001

METHOD BLANK: 1390828

Matrix: Water

Associated Lab Samples: 60170883001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	06/12/14 14:43	

LABORATORY CONTROL SAMPLE: 1390829

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	169	85	85-115	

SAMPLE DUPLICATE: 1390830

Parameter	Units	60170857001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	2640	2580	2	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-322

Pace Project No.: 60170883

QC Batch:	WETA/29765	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60170883001		

METHOD BLANK: 1391447 Matrix: Water
Associated Lab Samples: 60170883001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	06/10/14 11:44	

LABORATORY CONTROL SAMPLE: 1391448

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	106	90-110	

MATRIX SPIKE SAMPLE: 1391449

Parameter	Units	60170771002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.0	101	90-110	

MATRIX SPIKE SAMPLE: 1391450

Parameter	Units	60170772001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	10	19.1	92	90-110	

SAMPLE DUPLICATE: 1391451

Parameter	Units	60170823001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-322

Pace Project No.: 60170883

QC Batch:	WETA/29766	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60170883001		

METHOD BLANK: 1391504 Matrix: Water
Associated Lab Samples: 60170883001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	06/11/14 08:22	

LABORATORY CONTROL SAMPLE: 1391505

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	54.3	109	90-110	

MATRIX SPIKE SAMPLE: 1391506

Parameter	Units	60170803001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	57300	25000	71800	58	90-110	M1

MATRIX SPIKE SAMPLE: 1391508

Parameter	Units	60170421003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	77.8	50	131	106	90-110	

SAMPLE DUPLICATE: 1391507

Parameter	Units	60170816002 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	ND	4J		25	

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QUALIFIERS

Project: BRIDGETON LF 316-322

Pace Project No.: 60170883

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.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

H6 Analysis initiated outside of the 15 minute EPA recommended holding time.

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

MS Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.

N2 The lab does not hold TNI accreditation for this parameter.

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-322

Pace Project No.: 60170883

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60170883001	316-322	EPA 200.7	MPRP/27579	EPA 200.7	ICP/20855
60170883001	316-322	EPA 200.7	MPRP/27584	EPA 200.7	ICP/20856
60170883001	316-322	EPA 245.1	MERP/8470	EPA 245.1	MERC/8425
60170883001	316-322	EPA 245.1	MERP/8474	EPA 245.1	MERC/8429
60170883001	316-322	EPA 625	OEXT/44574	EPA 625	MSSV/14271
60170883001	316-322	EPA 624 Low	MSV/62158		
60170883002	TRIP BLANK	EPA 624 Low	MSV/62196		
60170883001	316-322	EPA 1664A	WET/48359		
60170883001	316-322	EPA 1664A	WET/48360		
60170883001	316-322	SM 2540D	WET/48403		
60170883001	316-322	SM 4500-H+B	WET/48332		
60170883001	316-322	SM 5210B	WET/48297	SM 5210B	WET/48416
60170883001	316-322	EPA 350.1	WETA/29765		
60170883001	316-322	EPA 410.4	WETA/29766		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60170883



Client Name: Barr Eng.

Courier: Fed Ex UPS USPS Client Commercial Pace Other X Roads

Tracking #: _____ Pace Shipping Label Used? Yes No

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other

Thermometer Used: T-230 / T-194

Type of Ice: Wet Blue None Samples received on ice, cooling process has begun. (circle one)

Cooler Temperature: 2.6

Date and initials of person examining contents: MS 6/9/14 MS

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>BOD, pH</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix: <u>water</u>		13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. <u>BOD + BPS unable to be preserved.</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>MS</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Lot # of added preservative
Pace Trip Blank lot # (if purchased): <u>0907143</u>		15.
Headspace in VOA vials (>6mm):	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16. <u>5 of 5 sample vials have headspace - Apply P.N. PER HISTORICAL INSTRUCTIONS</u>
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <u>MD</u>

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? X / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 6/9/14

June 16, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-323
Pace Project No.: 60170941

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 09, 2014. 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,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Bill Abernathy, Feezor Engineering
Kelly Caddy, Barr Engineering
DAN FEEZOR, FEEZOR ENGINEERING
Dana B. Pasi, Barr Engineering Co.
Brian Power, Republic Services
Brian Sehie, Republic Services
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-323

Pace Project No.: 60170941

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-13-4

Utah Certification #: KS000212013-3

Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-323

Pace Project No.: 60170941

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60170941001	316-323	Water	06/07/14 11:30	06/09/14 13:15
60170941002	TRIP BLANK	Water	06/08/14 11:30	06/09/14 13:15

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-323

Pace Project No.: 60170941

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60170941001	316-323	EPA 200.7	NDJ	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	CRT	1
		EPA 1664A	CRT	1
		SM 2540D	ESM	1
		SM 4500-H+B	NDL	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC1	1
60170941002	TRIP BLANK	EPA 624 Low	EAK	28

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: BRIDGETON LF 316-323

Pace Project No.: 60170941

Date: June 16, 2014

The samples were received outside of required temperature range. Analysis was completed upon client approval.

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-323

Pace Project No.: 60170941

Sample: 316-323		Lab ID: 60170941001	Collected: 06/07/14 11:30	Received: 06/09/14 13:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	6120 ug/L		750	2	06/10/14 11:25	06/12/14 13:08	7429-90-5	
Antimony	120 ug/L		50.0	1	06/10/14 11:25	06/12/14 13:06	7440-36-0	
Arsenic	1110 ug/L		50.0	1	06/10/14 11:25	06/12/14 13:06	7440-38-2	
Beryllium	ND ug/L		5.0	1	06/10/14 11:25	06/12/14 13:06	7440-41-7	
Cadmium	29.5 ug/L		25.0	1	06/10/14 11:25	06/12/14 13:06	7440-43-9	
Chromium	250 ug/L		25.0	1	06/10/14 11:25	06/12/14 13:06	7440-47-3	
Cobalt	36.0 ug/L		25.0	1	06/10/14 11:25	06/12/14 13:06	7440-48-4	
Copper	ND ug/L		50.0	1	06/10/14 11:25	06/12/14 13:06	7440-50-8	
Iron	709000 ug/L		250	1	06/10/14 11:25	06/12/14 13:06	7439-89-6	
Lead	88.2 ug/L		25.0	1	06/10/14 11:25	06/12/14 13:06	7439-92-1	
Nickel	117 ug/L		25.0	1	06/10/14 11:25	06/12/14 13:06	7440-02-0	
Selenium	ND ug/L		75.0	1	06/10/14 11:25	06/12/14 13:06	7782-49-2	
Silver	ND ug/L		35.0	1	06/10/14 11:25	06/12/14 13:06	7440-22-4	
Thallium	ND ug/L		100	1	06/10/14 11:25	06/12/14 13:06	7440-28-0	
Zinc	5870 ug/L		500	2	06/10/14 11:25	06/12/14 13:08	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	2090 ug/L		750	2	06/10/14 16:00	06/12/14 13:54	7429-90-5	
Antimony, Dissolved	78.0 ug/L		50.0	1	06/10/14 16:00	06/12/14 13:51	7440-36-0	
Arsenic, Dissolved	1000 ug/L		50.0	1	06/10/14 16:00	06/12/14 13:51	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	06/10/14 16:00	06/12/14 13:51	7440-41-7	
Cadmium, Dissolved	28.1 ug/L		25.0	1	06/10/14 16:00	06/12/14 13:51	7440-43-9	
Chromium, Dissolved	204 ug/L		25.0	1	06/10/14 16:00	06/12/14 13:51	7440-47-3	
Cobalt, Dissolved	25.9 ug/L		25.0	1	06/10/14 16:00	06/12/14 13:51	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	06/10/14 16:00	06/12/14 13:51	7440-50-8	
Iron, Dissolved	387000 ug/L		250	1	06/10/14 16:00	06/12/14 13:51	7439-89-6	
Lead, Dissolved	27.5 ug/L		25.0	1	06/10/14 16:00	06/12/14 13:51	7439-92-1	
Nickel, Dissolved	105 ug/L		25.0	1	06/10/14 16:00	06/12/14 13:51	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	06/10/14 16:00	06/12/14 13:51	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	06/10/14 16:00	06/12/14 13:51	7440-22-4	
Thallium, Dissolved	ND ug/L		200	2	06/10/14 16:00	06/12/14 13:54	7440-28-0	D3
Zinc, Dissolved	5430 ug/L		500	2	06/10/14 16:00	06/12/14 13:54	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	36.0 ug/L		6.0	1	06/09/14 17:15	06/10/14 10:50	7439-97-6	
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND ug/L		6.0	1	06/10/14 14:00	06/11/14 10:55	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	06/12/14 00:00	06/13/14 09:18	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	06/12/14 00:00	06/13/14 09:18	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	06/12/14 00:00	06/13/14 09:18	77-47-4	
Hexachloroethane	ND ug/L		1000	2	06/12/14 00:00	06/13/14 09:18	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	2	06/12/14 00:00	06/13/14 09:18	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	7790 ug/L		4000	2	06/12/14 00:00	06/13/14 09:18		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-323

Pace Project No.: 60170941

Sample: 316-323		Lab ID: 60170941001	Collected: 06/07/14 11:30	Received: 06/09/14 13:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	ND ug/L		1000	2	06/12/14 00:00	06/13/14 09:18	91-20-3	
Nitrobenzene	ND ug/L		1000	2	06/12/14 00:00	06/13/14 09:18	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	06/12/14 00:00	06/13/14 09:18	87-86-5	
Phenol	10600 ug/L		1000	2	06/12/14 00:00	06/13/14 09:18	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	06/12/14 00:00	06/13/14 09:18	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	06/12/14 00:00	06/13/14 09:18	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	151 %		33-120	2	06/12/14 00:00	06/13/14 09:18	4165-60-0	S0
2-Fluorobiphenyl (S)	79 %		39-120	2	06/12/14 00:00	06/13/14 09:18	321-60-8	
Terphenyl-d14 (S)	80 %		45-120	2	06/12/14 00:00	06/13/14 09:18	1718-51-0	
Phenol-d6 (S)	33 %		11-120	2	06/12/14 00:00	06/13/14 09:18	13127-88-3	
2-Fluorophenol (S)	43 %		17-120	2	06/12/14 00:00	06/13/14 09:18	367-12-4	
2,4,6-Tribromophenol (S)	94 %		39-120	2	06/12/14 00:00	06/13/14 09:18	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	102000 ug/L		2500	250		06/11/14 16:03	67-64-1	N2
Benzene	ND ug/L		250	250		06/11/14 16:03	71-43-2	
Bromodichloromethane	ND ug/L		250	250		06/11/14 16:03	75-27-4	
Bromoform	ND ug/L		250	250		06/11/14 16:03	75-25-2	
Bromomethane	ND ug/L		1250	250		06/11/14 16:03	74-83-9	
2-Butanone (MEK)	43000 ug/L		2500	250		06/11/14 16:03	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		06/11/14 16:03	56-23-5	
Chloroethane	ND ug/L		250	250		06/11/14 16:03	75-00-3	
Chloroform	ND ug/L		250	250		06/11/14 16:03	67-66-3	
1,4-Dichlorobenzene	ND ug/L		250	250		06/11/14 16:03	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		06/11/14 16:03	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		06/11/14 16:03	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		06/11/14 16:03	156-60-5	
Ethylbenzene	ND ug/L		250	250		06/11/14 16:03	100-41-4	
Methylene chloride	ND ug/L		250	250		06/11/14 16:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		06/11/14 16:03	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		06/11/14 16:03	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		06/11/14 16:03	127-18-4	
Toluene	ND ug/L		250	250		06/11/14 16:03	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		06/11/14 16:03	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		06/11/14 16:03	79-00-5	
Trichloroethene	ND ug/L		250	250		06/11/14 16:03	79-01-6	
Vinyl chloride	ND ug/L		250	250		06/11/14 16:03	75-01-4	
Xylene (Total)	ND ug/L		750	250		06/11/14 16:03	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	101 %		80-120	250		06/11/14 16:03	460-00-4	HS
Toluene-d8 (S)	96 %		80-120	250		06/11/14 16:03	2037-26-5	
1,2-Dichloroethane-d4 (S)	93 %		80-120	250		06/11/14 16:03	17060-07-0	
Preservation pH	6.0		1.0	250		06/11/14 16:03		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	939 mg/L		5.0	1		06/11/14 16:09		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-323

Pace Project No.: 60170941

Sample: 316-323		Lab ID: 60170941001	Collected: 06/07/14 11:30	Received: 06/09/14 13:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	9.6	mg/L	5.0	1		06/11/14 16:22		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	5460	mg/L	5.0	1		06/13/14 10:22		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.4	Std. Units	0.10	1		06/10/14 16:15		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	36300	mg/L	2.0	1	06/09/14 16:42	06/14/14 08:50		H3
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	627	mg/L	20.0	200		06/10/14 12:14	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	59700	mg/L	5000	500		06/13/14 08:25		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-323

Pace Project No.: 60170941

Sample: TRIP BLANK		Lab ID: 60170941002	Collected: 06/08/14 11:30	Received: 06/09/14 13:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		06/11/14 15:01	67-64-1	N2
Benzene	ND ug/L		1.0	1		06/11/14 15:01	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		06/11/14 15:01	75-27-4	
Bromoform	ND ug/L		1.0	1		06/11/14 15:01	75-25-2	
Bromomethane	ND ug/L		5.0	1		06/11/14 15:01	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/11/14 15:01	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		06/11/14 15:01	56-23-5	
Chloroethane	ND ug/L		1.0	1		06/11/14 15:01	75-00-3	
Chloroform	ND ug/L		1.0	1		06/11/14 15:01	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		06/11/14 15:01	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		06/11/14 15:01	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		06/11/14 15:01	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		06/11/14 15:01	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		06/11/14 15:01	100-41-4	
Methylene chloride	ND ug/L		1.0	1		06/11/14 15:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/11/14 15:01	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		06/11/14 15:01	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		06/11/14 15:01	127-18-4	
Toluene	ND ug/L		1.0	1		06/11/14 15:01	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		06/11/14 15:01	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		06/11/14 15:01	79-00-5	
Trichloroethene	ND ug/L		1.0	1		06/11/14 15:01	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		06/11/14 15:01	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		06/11/14 15:01	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	101 %		80-120	1		06/11/14 15:01	460-00-4	
Toluene-d8 (S)	97 %		80-120	1		06/11/14 15:01	2037-26-5	
1,2-Dichloroethane-d4 (S)	92 %		80-120	1		06/11/14 15:01	17060-07-0	
Preservation pH	6.0		1.0	1		06/11/14 15:01		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-323

Pace Project No.: 60170941

QC Batch:	MERP/8470	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
Associated Lab Samples:	60170941001		

METHOD BLANK: 1391435 Matrix: Water
Associated Lab Samples: 60170941001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	06/10/14 10:10	

LABORATORY CONTROL SAMPLE: 1391436

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.8	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1391437 1391438

Parameter	Units	60170884001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max		
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Mercury	ug/L	ND	5	5	2.8	2.8	55	54	70-130	1	20	M1

MATRIX SPIKE SAMPLE: 1391439

Parameter	Units	60170484001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	4.6	91	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-323

Pace Project No.: 60170941

QC Batch:	MERP/8474	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury - Dissolved
Associated Lab Samples:	60170941001		

METHOD BLANK: 1391846 Matrix: Water
Associated Lab Samples: 60170941001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	06/11/14 10:39	

LABORATORY CONTROL SAMPLE: 1391847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.8	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1391848 1391849

Parameter	Units	60170631001		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
Mercury, Dissolved	ug/L	ND	ND	150	150	142	141	95	94	70-130	0	20			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-323

Pace Project No.: 60170941

QC Batch:	MPRP/27579	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
Associated Lab Samples:	60170941001		

METHOD BLANK: 1391731 Matrix: Water

Associated Lab Samples: 60170941001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	06/12/14 12:39	
Antimony	ug/L	ND	10.0	06/12/14 12:39	
Arsenic	ug/L	ND	10.0	06/12/14 12:39	
Beryllium	ug/L	ND	1.0	06/12/14 12:39	
Cadmium	ug/L	ND	5.0	06/12/14 12:39	
Chromium	ug/L	ND	5.0	06/12/14 12:39	
Cobalt	ug/L	ND	5.0	06/12/14 12:39	
Copper	ug/L	ND	10.0	06/12/14 12:39	
Iron	ug/L	ND	50.0	06/12/14 12:39	
Lead	ug/L	ND	5.0	06/12/14 12:39	
Nickel	ug/L	ND	5.0	06/12/14 12:39	
Selenium	ug/L	ND	15.0	06/12/14 12:39	
Silver	ug/L	ND	7.0	06/12/14 12:39	
Thallium	ug/L	ND	20.0	06/12/14 12:39	
Zinc	ug/L	ND	50.0	06/12/14 12:39	

LABORATORY CONTROL SAMPLE: 1391732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10100	101	85-115	
Antimony	ug/L	1000	985	99	85-115	
Arsenic	ug/L	1000	931	93	85-115	
Beryllium	ug/L	1000	1030	103	85-115	
Cadmium	ug/L	1000	954	95	85-115	
Chromium	ug/L	1000	1060	106	85-115	
Cobalt	ug/L	1000	987	99	85-115	
Copper	ug/L	1000	1000	100	85-115	
Iron	ug/L	10000	10100	101	85-115	
Lead	ug/L	1000	999	100	85-115	
Nickel	ug/L	1000	1020	102	85-115	
Selenium	ug/L	1000	970	97	85-115	
Silver	ug/L	500	504	101	85-115	
Thallium	ug/L	1000	966	97	85-115	
Zinc	ug/L	1000	980	98	85-115	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-323

Pace Project No.: 60170941

Parameter	Units	60170803001		MS		MSD		1391733		1391734		Qual
		Result	Conc.	Spike	Conc.	MS	MSD	MS	MSD	% Rec	Max	
						Result	Result	% Rec	% Rec	Limits	RPD	RPD
Aluminum	ug/L	7820	50000	50000	50000	63000	63800	110	112	70-130	1	8
Antimony	ug/L	119	5000	5000	5000	5230	5200	102	102	70-130	0	7
Arsenic	ug/L	1200	5000	5000	5000	6520	6560	107	107	70-130	0	10
Beryllium	ug/L	ND	5000	5000	5000	5010	5000	100	100	70-130	0	7
Cadmium	ug/L	28.8	5000	5000	5000	5090	5100	101	101	70-130	0	10
Chromium	ug/L	267	5000	5000	5000	5400	5420	103	103	70-130	0	10
Cobalt	ug/L	41.3	5000	5000	5000	4690	4700	93	93	70-130	0	6
Copper	ug/L	ND	5000	5000	5000	5490	5420	109	107	70-130	1	11
Iron	ug/L	747000	50000	50000	50000	800000	805000	105	116	70-130	1	10
Lead	ug/L	94.9	5000	5000	5000	4530	4560	89	89	70-130	1	10
Nickel	ug/L	135	5000	5000	5000	4870	4880	95	95	70-130	0	10
Selenium	ug/L	ND	5000	5000	5000	6000	6020	119	119	70-130	0	10
Silver	ug/L	ND	2500	2500	2500	2750	2740	109	109	70-130	0	10
Thallium	ug/L	ND	5000	5000	5000	3910	3920	78	78	70-130	0	6
Zinc	ug/L	5290	5000	5000	5000	9880	9800	92	90	70-130	1	11

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-323

Pace Project No.: 60170941

QC Batch: MPRP/27584

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Dissolved

Associated Lab Samples: 60170941001

METHOD BLANK: 1391834

Matrix: Water

Associated Lab Samples: 60170941001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	06/12/14 13:25	
Antimony, Dissolved	ug/L	ND	10.0	06/12/14 13:25	
Arsenic, Dissolved	ug/L	ND	10.0	06/12/14 13:25	
Beryllium, Dissolved	ug/L	ND	1.0	06/12/14 13:25	
Cadmium, Dissolved	ug/L	ND	5.0	06/12/14 13:25	
Chromium, Dissolved	ug/L	ND	5.0	06/12/14 13:25	
Cobalt, Dissolved	ug/L	ND	5.0	06/12/14 13:25	
Copper, Dissolved	ug/L	ND	10.0	06/12/14 13:25	
Iron, Dissolved	ug/L	ND	50.0	06/12/14 13:25	
Lead, Dissolved	ug/L	ND	5.0	06/12/14 13:25	
Nickel, Dissolved	ug/L	ND	5.0	06/12/14 13:25	
Selenium, Dissolved	ug/L	ND	15.0	06/12/14 13:25	
Silver, Dissolved	ug/L	ND	7.0	06/12/14 13:25	
Thallium, Dissolved	ug/L	ND	20.0	06/12/14 13:25	
Zinc, Dissolved	ug/L	ND	50.0	06/12/14 13:25	

LABORATORY CONTROL SAMPLE: 1391835

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9860	99	85-115	
Antimony, Dissolved	ug/L	1000	957	96	85-115	
Arsenic, Dissolved	ug/L	1000	924	92	85-115	
Beryllium, Dissolved	ug/L	1000	1010	101	85-115	
Cadmium, Dissolved	ug/L	1000	942	94	85-115	
Chromium, Dissolved	ug/L	1000	1040	104	85-115	
Cobalt, Dissolved	ug/L	1000	971	97	85-115	
Copper, Dissolved	ug/L	1000	976	98	85-115	
Iron, Dissolved	ug/L	10000	9910	99	85-115	
Lead, Dissolved	ug/L	1000	987	99	85-115	
Nickel, Dissolved	ug/L	1000	1010	101	85-115	
Selenium, Dissolved	ug/L	1000	966	97	85-115	
Silver, Dissolved	ug/L	500	496	99	85-115	
Thallium, Dissolved	ug/L	1000	952	95	85-115	
Zinc, Dissolved	ug/L	1000	996	100	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-323

Pace Project No.: 60170941

Parameter	Units	60170803001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max	RPD	Qual
		Result	Conc.	Spike	Conc.	Result	Conc.	Result	Conc.	% Rec	% Rec						
Aluminum, Dissolved	ug/L	1810	50000	50000	50000	52200	52300	101	101	70-130	0	8					
Antimony, Dissolved	ug/L	70.4	5000	5000	5000	5200	5180	102	102	70-130	0	7					
Arsenic, Dissolved	ug/L	918	5000	5000	5000	6380	6210	109	106	70-130	3	10					
Beryllium, Dissolved	ug/L	ND	5000	5000	5000	4900	4900	98	98	70-130	0	7					
Cadmium, Dissolved	ug/L	25.4	5000	5000	5000	5060	5040	101	100	70-130	0	10					
Chromium, Dissolved	ug/L	176	5000	5000	5000	5260	5220	102	101	70-130	1	10					
Cobalt, Dissolved	ug/L	ND	5000	5000	5000	4630	4640	92	92	70-130	0	6					
Copper, Dissolved	ug/L	ND	5000	5000	5000	5450	5400	108	107	70-130	1	11					
Iron, Dissolved	ug/L	322000	50000	50000	50000	404000	387000	163	129	70-130	4	10	M1				
Lead, Dissolved	ug/L	ND	5000	5000	5000	4500	4490	89	89	70-130	0	10					
Nickel, Dissolved	ug/L	94.2	5000	5000	5000	4820	4820	94	94	70-130	0	10					
Selenium, Dissolved	ug/L	ND	5000	5000	5000	5990	5920	119	118	70-130	1	10					
Silver, Dissolved	ug/L	ND	2500	2500	2500	2730	2710	108	107	70-130	1	10					
Thallium, Dissolved	ug/L	ND	5000	5000	5000	3960	3940	79	79	70-130	0	6					
Zinc, Dissolved	ug/L	4220	5000	5000	5000	9240	8970	100	95	70-130	3	11					

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-323

Pace Project No.: 60170941

QC Batch: MSV/62196 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60170941001, 60170941002

METHOD BLANK: 1391793 Matrix: Water

Associated Lab Samples: 60170941001, 60170941002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/11/14 12:26	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/11/14 12:26	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	06/11/14 12:26	
1,2-Dichloroethane	ug/L	ND	1.0	06/11/14 12:26	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/11/14 12:26	
2-Butanone (MEK)	ug/L	ND	10.0	06/11/14 12:26	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/11/14 12:26	N2
Acetone	ug/L	ND	10.0	06/11/14 12:26	N2
Benzene	ug/L	ND	1.0	06/11/14 12:26	
Bromodichloromethane	ug/L	ND	1.0	06/11/14 12:26	
Bromoform	ug/L	ND	1.0	06/11/14 12:26	
Bromomethane	ug/L	ND	5.0	06/11/14 12:26	
Carbon tetrachloride	ug/L	ND	1.0	06/11/14 12:26	
Chloroethane	ug/L	ND	1.0	06/11/14 12:26	
Chloroform	ug/L	ND	1.0	06/11/14 12:26	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/11/14 12:26	N2
Ethylbenzene	ug/L	ND	1.0	06/11/14 12:26	
Methylene chloride	ug/L	ND	1.0	06/11/14 12:26	
Tetrachloroethene	ug/L	ND	1.0	06/11/14 12:26	
Toluene	ug/L	ND	1.0	06/11/14 12:26	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/11/14 12:26	
Trichloroethene	ug/L	ND	1.0	06/11/14 12:26	
Vinyl chloride	ug/L	ND	1.0	06/11/14 12:26	
Xylene (Total)	ug/L	ND	3.0	06/11/14 12:26	N2
1,2-Dichloroethane-d4 (S)	%	94	80-120	06/11/14 12:26	
4-Bromofluorobenzene (S)	%	99	80-120	06/11/14 12:26	
Toluene-d8 (S)	%	95	80-120	06/11/14 12:26	

LABORATORY CONTROL SAMPLE: 1391794

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.6	93	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	21.2	106	67-127	N2
1,1,2-Trichloroethane	ug/L	20	20.0	100	67-124	
1,2-Dichloroethane	ug/L	20	18.8	94	70-126	
1,4-Dichlorobenzene	ug/L	20	18.9	94	74-120	
2-Butanone (MEK)	ug/L	100	105	105	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	113	113	59-131	N2
Acetone	ug/L	100	103	103	38-134	N2
Benzene	ug/L	20	19.3	96	75-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-323

Pace Project No.: 60170941

LABORATORY CONTROL SAMPLE: 1391794

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	20	19.6	98	68-125	
Bromoform	ug/L	20	20.1	100	65-127	
Bromomethane	ug/L	20	14.6	73	13-157	
Carbon tetrachloride	ug/L	20	18.1	91	70-131	
Chloroethane	ug/L	20	19.7	99	47-133	
Chloroform	ug/L	20	18.7	93	65-127	
cis-1,2-Dichloroethene	ug/L	20	19.8	99	68-127	N2
Ethylbenzene	ug/L	20	18.3	92	74-122	
Methylene chloride	ug/L	20	18.8	94	64-129	
Tetrachloroethene	ug/L	20	19.4	97	73-125	
Toluene	ug/L	20	18.2	91	69-126	
trans-1,2-Dichloroethene	ug/L	20	18.0	90	66-129	
Trichloroethene	ug/L	20	18.1	91	71-123	
Vinyl chloride	ug/L	20	19.5	97	43-129	
Xylene (Total)	ug/L	60	57.0	95	75-121	N2
1,2-Dichloroethane-d4 (S)	%			99	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			98	80-120	

MATRIX SPIKE SAMPLE: 1391795

Parameter	Units	60170941001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L		ND	5000	4540	91	52-155
1,1,2,2-Tetrachloroethane	ug/L		ND	5000	4990	98	46-146 N2
1,1,2-Trichloroethane	ug/L		ND	5000	4750	95	52-143
1,2-Dichloroethane	ug/L		ND	5000	4220	84	49-144
1,4-Dichlorobenzene	ug/L		ND	5000	4750	93	33-140
2-Butanone (MEK)	ug/L	43000	25000	64500		86	40-160 N2
4-Methyl-2-pentanone (MIBK)	ug/L		ND	25000	25000	98	40-160 N2
Acetone	ug/L	102000	25000	119000		68	10-160 N2
Benzene	ug/L		ND	5000	4490	90	37-151
Bromodichloromethane	ug/L		ND	5000	4490	90	35-142
Bromoform	ug/L		ND	5000	4600	92	45-142
Bromomethane	ug/L		ND	5000	2820	56	10-158
Carbon tetrachloride	ug/L		ND	5000	4650	93	70-140
Chloroethane	ug/L		ND	5000	3690	74	19-152
Chloroform	ug/L		ND	5000	4400	88	51-138
cis-1,2-Dichloroethene	ug/L		ND	5000	4600	92	34-147 N2
Ethylbenzene	ug/L		ND	5000	4800	96	40-142
Methylene chloride	ug/L		ND	5000	4310	82	31-144
Tetrachloroethene	ug/L		ND	5000	5060	101	64-148
Toluene	ug/L		ND	5000	4360	87	47-150
trans-1,2-Dichloroethene	ug/L		ND	5000	4350	87	54-151
Trichloroethene	ug/L		ND	5000	4430	89	71-149
Vinyl chloride	ug/L		ND	5000	3180	64	22-146

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-323

Pace Project No.: 60170941

MATRIX SPIKE SAMPLE:		1391795					
Parameter	Units	60170941001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	ND	15000	14200	94	37-144	N2
1,2-Dichloroethane-d4 (S)	%				93	80-120	
4-Bromofluorobenzene (S)	%				103	80-120	HS
Toluene-d8 (S)	%				94	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-323
Pace Project No.: 60170941

QC Batch: OEXT/44615 Analysis Method: EPA 625
QC Batch Method: EPA 625 Analysis Description: 625 MSS
Associated Lab Samples: 60170941001

METHOD BLANK: 1392788 Matrix: Water
Associated Lab Samples: 60170941001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/13/14 08:15	
2,4,6-Trichlorophenol	ug/L	ND	5.0	06/13/14 08:15	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	06/13/14 08:15	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	06/13/14 08:15	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	06/13/14 08:15	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/13/14 08:15	
Hexachlorocyclopentadiene	ug/L	ND	5.0	06/13/14 08:15	
Hexachloroethane	ug/L	ND	5.0	06/13/14 08:15	
Naphthalene	ug/L	ND	5.0	06/13/14 08:15	
Nitrobenzene	ug/L	ND	5.0	06/13/14 08:15	
Pentachlorophenol	ug/L	ND	5.0	06/13/14 08:15	
Phenol	ug/L	ND	5.0	06/13/14 08:15	
2,4,6-Tribromophenol (S)	%	98	39-120	06/13/14 08:15	
2-Fluorobiphenyl (S)	%	89	39-120	06/13/14 08:15	
2-Fluorophenol (S)	%	47	17-120	06/13/14 08:15	
Nitrobenzene-d5 (S)	%	90	33-120	06/13/14 08:15	
Phenol-d6 (S)	%	29	11-120	06/13/14 08:15	
Terphenyl-d14 (S)	%	92	45-120	06/13/14 08:15	

LABORATORY CONTROL SAMPLE: 1392789

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	43.0	86	46-120	
2,4,6-Trichlorophenol	ug/L	50	48.2	96	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	36.1	72	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	34.1	68	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	53.1	106	40-133	
Hexachloro-1,3-butadiene	ug/L	50	42.7	85	44-116	
Hexachlorocyclopentadiene	ug/L	100	80.3	80	24-120	
Hexachloroethane	ug/L	50	43.1	86	43-113	
Naphthalene	ug/L	50	45.2	90	48-120	
Nitrobenzene	ug/L	50	47.0	94	48-120	
Pentachlorophenol	ug/L	50	50.5	101	47-120	
Phenol	ug/L	50	16.3	33	16-112	
2,4,6-Tribromophenol (S)	%			107	39-120	
2-Fluorobiphenyl (S)	%			95	39-120	
2-Fluorophenol (S)	%			50	17-120	
Nitrobenzene-d5 (S)	%			95	33-120	
Phenol-d6 (S)	%			33	11-120	
Terphenyl-d14 (S)	%			98	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-323

Pace Project No.: 60170941

MATRIX SPIKE SAMPLE:		1392790					
Parameter	Units	60170941001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3420	68	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4070	81	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	5000	3910	78	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	7790	5000	13000	104	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	4180J	84	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3430	69	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	6560	66	11-120	
Hexachloroethane	ug/L	ND	5000	3620	72	40-113	
Naphthalene	ug/L	ND	5000	4540	74	45-120	
Nitrobenzene	ug/L	ND	5000	4060	81	38-120	
Pentachlorophenol	ug/L	ND	5000	4520	90	43-135	
Phenol	ug/L	10600	5000	15800	105	13-112	
2,4,6-Tribromophenol (S)	%				90	39-120	
2-Fluorobiphenyl (S)	%				77	39-120	
2-Fluorophenol (S)	%				54	17-120	
Nitrobenzene-d5 (S)	%				157	33-120	SO
Phenol-d6 (S)	%				38	11-120	
Terphenyl-d14 (S)	%				76	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-323

Pace Project No.: 60170941

QC Batch:	WET/48381	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60170941001		

METHOD BLANK: 1392599 Matrix: Water
Associated Lab Samples: 60170941001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	06/11/14 16:05	

LABORATORY CONTROL SAMPLE: 1392600

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	34.7	87	78-114	

MATRIX SPIKE SAMPLE: 1392601

Parameter	Units	60170811001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	46.5	41.4	86	78-114	

SAMPLE DUPLICATE: 1392602

Parameter	Units	60170812001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	1.8J		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-323

Pace Project No.: 60170941

QC Batch:	WET/48382	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60170941001		

METHOD BLANK: 1392604 Matrix: Water
Associated Lab Samples: 60170941001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	06/11/14 16:21	

LABORATORY CONTROL SAMPLE: 1392605

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	22.8	114	64-132	

MATRIX SPIKE SAMPLE: 1392606

Parameter	Units	60170811001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	23.3	14.8	58	64-132	M1

SAMPLE DUPLICATE: 1392607

Parameter	Units	60170812001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	ND		34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-323

Pace Project No.: 60170941

QC Batch:	WET/48426	Analysis Method:	SM 2540D
QC Batch Method:	SM 2540D	Analysis Description:	2540D Total Suspended Solids
Associated Lab Samples:	60170941001		

METHOD BLANK: 1393610 Matrix: Water

Associated Lab Samples: 60170941001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	06/13/14 10:22	

SAMPLE DUPLICATE: 1393611

Parameter	Units	60170919001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	14.0	14.0	0	10	

SAMPLE DUPLICATE: 1393612

Parameter	Units	60170944001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	4760	4560	4	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-323

Pace Project No.: 60170941

QC Batch: WET/48332 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60170941001

SAMPLE DUPLICATE: 1391630

Parameter	Units	60170969001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.6	8.6	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-323

Pace Project No.: 60170941

QC Batch:	WET/48318	Analysis Method:	SM 5210B
QC Batch Method:	SM 5210B	Analysis Description:	5210B BOD, 5 day
Associated Lab Samples:	60170941001		

METHOD BLANK: 1391401 Matrix: Water

Associated Lab Samples: 60170941001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	06/14/14 08:43	

LABORATORY CONTROL SAMPLE: 1391402

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	177	90	85-115	

SAMPLE DUPLICATE: 1391403

Parameter	Units	60170944001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	33600	30300	10	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-323

Pace Project No.: 60170941

QC Batch:	WETA/29765	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60170941001		

METHOD BLANK: 1391447 Matrix: Water
Associated Lab Samples: 60170941001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	06/10/14 11:44	

LABORATORY CONTROL SAMPLE: 1391448

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	106	90-110	

MATRIX SPIKE SAMPLE: 1391449

Parameter	Units	60170771002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.0	101	90-110	

MATRIX SPIKE SAMPLE: 1391450

Parameter	Units	60170772001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	10	19.1	92	90-110	

SAMPLE DUPLICATE: 1391451

Parameter	Units	60170823001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-323
Pace Project No.: 60170941

QC Batch: WETA/29817 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 60170941001

METHOD BLANK: 1392765 Matrix: Water
Associated Lab Samples: 60170941001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	06/13/14 08:07	

LABORATORY CONTROL SAMPLE: 1392766

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	53.1	106	90-110	

MATRIX SPIKE SAMPLE: 1392767

Parameter	Units	60170800001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	150	100	265	116	90-110	M1

MATRIX SPIKE SAMPLE: 1392769

Parameter	Units	60170943001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	58800	25000	83400	98	90-110	

SAMPLE DUPLICATE: 1392768

Parameter	Units	60170800003 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	90.3	89.7	1	25	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 316-323

Pace Project No.: 60170941

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.

SAMPLE QUALIFIERS

Sample: 60170941002

[1] The samples were received outside of required temperature range. Analysis was completed upon client approval.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

H3 Sample was received or analysis requested beyond the recognized method holding time.

H6 Analysis initiated outside of the 15 minute EPA recommended holding time.

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

N2 The lab does not hold TNI accreditation for this parameter.

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-323

Pace Project No.: 60170941

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60170941001	316-323	EPA 200.7	MPRP/27579	EPA 200.7	ICP/20855
60170941001	316-323	EPA 200.7	MPRP/27584	EPA 200.7	ICP/20856
60170941001	316-323	EPA 245.1	MERP/8470	EPA 245.1	MERC/8425
60170941001	316-323	EPA 245.1	MERP/8474	EPA 245.1	MERC/8429
60170941001	316-323	EPA 625	OEXT/44615	EPA 625	MSSV/14284
60170941001	316-323	EPA 624 Low	MSV/62196		
60170941002	TRIP BLANK	EPA 624 Low	MSV/62196		
60170941001	316-323	EPA 1664A	WET/48381		
60170941001	316-323	EPA 1664A	WET/48382		
60170941001	316-323	SM 2540D	WET/48426		
60170941001	316-323	SM 4500-H+B	WET/48332		
60170941001	316-323	SM 5210B	WET/48318	SM 5210B	WET/48454
60170941001	316-323	EPA 350.1	WETA/29765		
60170941001	316-323	EPA 410.4	WETA/29817		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60170941



Client Name: Republic - Barr Eng.

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: _____ Pace Shipping Label Used? Yes No

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other

Thermometer Used: T-239 / T-194 Type of Ice: Wet Blue None Samples received on ice, cooling process has begun.

Cooler Temperature: 6.4

Optional
Proj Due Date:
Proj Name:

Date and initials of person examining contents: [Signature] 6/9/14 [Signature]

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2. Temp 70°C
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3. ice melted
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6. BOD
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Includes date/time/ID/analyses Matrix: water		15.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16. BENT (BSS) unable to be preserved.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed [Signature]
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Lot # of added preservative
Pace Trip Blank lot # (if purchased): 040714-3		17.
Headspace in VOA vials (>6mm):	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	18. 5 of 5 sample vials have headspace. -Apply the footnote BASED ON HISTORICAL INSTRUCTIONS
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	19. List State: MO

Client Notification/ Resolution: Copy COC to Client? Y N Field Data Required? Y N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 6/11/14

June 16, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-324
Pace Project No.: 60170943

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 09, 2014. 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,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Bill Abernathy, Feezor Engineering
Kelly Caddy, Barr Engineering
DAN FEEZOR, FEEZOR ENGINEERING
Dana B. Pasi, Barr Engineering Co.
Brian Power, Republic Services
Brian Sehie, Republic Services
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-324

Pace Project No.: 60170943

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-13-4

Utah Certification #: KS000212013-3

Illinois Certification #: 003097

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-324

Pace Project No.: 60170943

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60170943001	316-324	Water	06/08/14 15:00	06/09/14 13:15
60170943002	TRIP BLANK	Water	06/08/14 15:00	06/09/14 13:15

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-324

Pace Project No.: 60170943

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60170943001	316-324	EPA 200.7	NDJ	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	CRT	1
		EPA 1664A	CRT	1
		SM 2540D	ESM	1
		SM 4500-H+B	NDL	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC1	1
		60170943002	TRIP BLANK	EPA 624 Low

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-324

Pace Project No.: 60170943

Sample: 316-324		Lab ID: 60170943001	Collected: 06/08/14 15:00	Received: 06/09/14 13:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	8900	ug/L	1120	3	06/10/14 11:25	06/12/14 13:21	7429-90-5	
Antimony	125	ug/L	50.0	1	06/10/14 11:25	06/12/14 13:11	7440-36-0	
Arsenic	1160	ug/L	50.0	1	06/10/14 11:25	06/12/14 13:11	7440-38-2	
Beryllium	ND	ug/L	5.0	1	06/10/14 11:25	06/12/14 13:11	7440-41-7	
Cadmium	31.7	ug/L	25.0	1	06/10/14 11:25	06/12/14 13:11	7440-43-9	
Chromium	277	ug/L	25.0	1	06/10/14 11:25	06/12/14 13:11	7440-47-3	
Cobalt	41.3	ug/L	25.0	1	06/10/14 11:25	06/12/14 13:11	7440-48-4	
Copper	ND	ug/L	50.0	1	06/10/14 11:25	06/12/14 13:11	7440-50-8	
Iron	803000	ug/L	250	1	06/10/14 11:25	06/12/14 13:11	7439-89-6	
Lead	115	ug/L	25.0	1	06/10/14 11:25	06/12/14 13:11	7439-92-1	
Nickel	132	ug/L	25.0	1	06/10/14 11:25	06/12/14 13:11	7440-02-0	
Selenium	ND	ug/L	75.0	1	06/10/14 11:25	06/12/14 13:11	7782-49-2	
Silver	ND	ug/L	35.0	1	06/10/14 11:25	06/12/14 13:11	7440-22-4	
Thallium	ND	ug/L	300	3	06/10/14 11:25	06/12/14 13:21	7440-28-0	D3
Zinc	5900	ug/L	750	3	06/10/14 11:25	06/12/14 13:21	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	1980	ug/L	750	2	06/10/14 16:00	06/12/14 14:03	7429-90-5	
Antimony, Dissolved	68.2	ug/L	50.0	1	06/10/14 16:00	06/12/14 13:56	7440-36-0	
Arsenic, Dissolved	866	ug/L	50.0	1	06/10/14 16:00	06/12/14 13:56	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	06/10/14 16:00	06/12/14 13:56	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	06/10/14 16:00	06/12/14 13:56	7440-43-9	
Chromium, Dissolved	183	ug/L	25.0	1	06/10/14 16:00	06/12/14 13:56	7440-47-3	
Cobalt, Dissolved	ND	ug/L	25.0	1	06/10/14 16:00	06/12/14 13:56	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	06/10/14 16:00	06/12/14 13:56	7440-50-8	
Iron, Dissolved	335000	ug/L	250	1	06/10/14 16:00	06/12/14 13:56	7439-89-6	
Lead, Dissolved	ND	ug/L	25.0	1	06/10/14 16:00	06/12/14 13:56	7439-92-1	
Nickel, Dissolved	88.6	ug/L	25.0	1	06/10/14 16:00	06/12/14 13:56	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	06/10/14 16:00	06/12/14 13:56	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	06/10/14 16:00	06/12/14 13:56	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	06/10/14 16:00	06/12/14 13:56	7440-28-0	
Zinc, Dissolved	4710	ug/L	500	2	06/10/14 16:00	06/12/14 14:03	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	58.8	ug/L	6.0	1	06/09/14 17:15	06/10/14 10:52	7439-97-6	
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND	ug/L	6.0	1	06/10/14 14:00	06/11/14 11:01	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	06/12/14 00:00	06/13/14 09:39	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	06/12/14 00:00	06/13/14 09:39	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	06/12/14 00:00	06/13/14 09:39	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	06/12/14 00:00	06/13/14 09:39	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	2000	2	06/12/14 00:00	06/13/14 09:39	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	7180	ug/L	4000	2	06/12/14 00:00	06/13/14 09:39		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-324

Pace Project No.: 60170943

Sample: 316-324		Lab ID: 60170943001	Collected: 06/08/14 15:00	Received: 06/09/14 13:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	2160 ug/L		1000	2	06/12/14 00:00	06/13/14 09:39	91-20-3	
Nitrobenzene	ND ug/L		1000	2	06/12/14 00:00	06/13/14 09:39	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	06/12/14 00:00	06/13/14 09:39	87-86-5	
Phenol	9100 ug/L		1000	2	06/12/14 00:00	06/13/14 09:39	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	06/12/14 00:00	06/13/14 09:39	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	06/12/14 00:00	06/13/14 09:39	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	153 %		33-120	2	06/12/14 00:00	06/13/14 09:39	4165-60-0	S0
2-Fluorobiphenyl (S)	84 %		39-120	2	06/12/14 00:00	06/13/14 09:39	321-60-8	
Terphenyl-d14 (S)	87 %		45-120	2	06/12/14 00:00	06/13/14 09:39	1718-51-0	
Phenol-d6 (S)	33 %		11-120	2	06/12/14 00:00	06/13/14 09:39	13127-88-3	
2-Fluorophenol (S)	34 %		17-120	2	06/12/14 00:00	06/13/14 09:39	367-12-4	
2,4,6-Tribromophenol (S)	93 %		39-120	2	06/12/14 00:00	06/13/14 09:39	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	99700 ug/L		2500	250		06/11/14 16:34	67-64-1	N2
Benzene	ND ug/L		250	250		06/11/14 16:34	71-43-2	
Bromodichloromethane	ND ug/L		250	250		06/11/14 16:34	75-27-4	
Bromoform	ND ug/L		250	250		06/11/14 16:34	75-25-2	
Bromomethane	ND ug/L		1250	250		06/11/14 16:34	74-83-9	
2-Butanone (MEK)	41900 ug/L		2500	250		06/11/14 16:34	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		06/11/14 16:34	56-23-5	
Chloroethane	ND ug/L		250	250		06/11/14 16:34	75-00-3	
Chloroform	ND ug/L		250	250		06/11/14 16:34	67-66-3	
1,4-Dichlorobenzene	603 ug/L		250	250		06/11/14 16:34	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		06/11/14 16:34	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		06/11/14 16:34	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		06/11/14 16:34	156-60-5	
Ethylbenzene	ND ug/L		250	250		06/11/14 16:34	100-41-4	
Methylene chloride	ND ug/L		250	250		06/11/14 16:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		06/11/14 16:34	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		06/11/14 16:34	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		06/11/14 16:34	127-18-4	
Toluene	ND ug/L		250	250		06/11/14 16:34	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		06/11/14 16:34	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		06/11/14 16:34	79-00-5	
Trichloroethene	ND ug/L		250	250		06/11/14 16:34	79-01-6	
Vinyl chloride	ND ug/L		250	250		06/11/14 16:34	75-01-4	
Xylene (Total)	ND ug/L		750	250		06/11/14 16:34	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	103 %		80-120	250		06/11/14 16:34	460-00-4	HS
Toluene-d8 (S)	96 %		80-120	250		06/11/14 16:34	2037-26-5	
1,2-Dichloroethane-d4 (S)	94 %		80-120	250		06/11/14 16:34	17060-07-0	
Preservation pH	6.0		1.0	250		06/11/14 16:34		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	673 mg/L		5.0	1		06/11/14 16:09		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-324

Pace Project No.: 60170943

Sample: 316-324		Lab ID: 60170943001	Collected: 06/08/14 15:00	Received: 06/09/14 13:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	10.4	mg/L	5.0	1		06/11/14 16:22		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	4600	mg/L	5.0	1		06/13/14 10:24		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.3	Std. Units	0.10	1		06/10/14 16:15		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	33500	mg/L	2.0	1	06/09/14 16:48	06/14/14 08:53		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	602	mg/L	20.0	200		06/10/14 12:17	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	58800	mg/L	5000	500		06/13/14 08:25		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-324

Pace Project No.: 60170943

Sample: TRIP BLANK		Lab ID: 60170943002	Collected: 06/08/14 15:00	Received: 06/09/14 13:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		06/11/14 15:16	67-64-1	N2
Benzene	ND ug/L		1.0	1		06/11/14 15:16	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		06/11/14 15:16	75-27-4	
Bromoform	ND ug/L		1.0	1		06/11/14 15:16	75-25-2	
Bromomethane	ND ug/L		5.0	1		06/11/14 15:16	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/11/14 15:16	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		06/11/14 15:16	56-23-5	
Chloroethane	ND ug/L		1.0	1		06/11/14 15:16	75-00-3	
Chloroform	ND ug/L		1.0	1		06/11/14 15:16	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		06/11/14 15:16	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		06/11/14 15:16	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		06/11/14 15:16	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		06/11/14 15:16	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		06/11/14 15:16	100-41-4	
Methylene chloride	ND ug/L		1.0	1		06/11/14 15:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/11/14 15:16	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		06/11/14 15:16	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		06/11/14 15:16	127-18-4	
Toluene	ND ug/L		1.0	1		06/11/14 15:16	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		06/11/14 15:16	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		06/11/14 15:16	79-00-5	
Trichloroethene	ND ug/L		1.0	1		06/11/14 15:16	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		06/11/14 15:16	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		06/11/14 15:16	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	102 %		80-120	1		06/11/14 15:16	460-00-4	
Toluene-d8 (S)	96 %		80-120	1		06/11/14 15:16	2037-26-5	
1,2-Dichloroethane-d4 (S)	92 %		80-120	1		06/11/14 15:16	17060-07-0	
Preservation pH	6.0		1.0	1		06/11/14 15:16		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-324

Pace Project No.: 60170943

QC Batch:	MERP/8470	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
Associated Lab Samples:	60170943001		

METHOD BLANK: 1391435 Matrix: Water
Associated Lab Samples: 60170943001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	06/10/14 10:10	

LABORATORY CONTROL SAMPLE: 1391436

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.8	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1391437 1391438

Parameter	Units	60170884001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
Mercury	ug/L	ND	5	5	2.8	2.8	55	54	70-130	1	20	M1	

MATRIX SPIKE SAMPLE: 1391439

Parameter	Units	60170484001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	4.6	91	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-324

Pace Project No.: 60170943

QC Batch:	MERP/8474	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury - Dissolved
Associated Lab Samples:	60170943001		

METHOD BLANK: 1391846 Matrix: Water
Associated Lab Samples: 60170943001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	06/11/14 10:39	

LABORATORY CONTROL SAMPLE: 1391847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.8	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1391848 1391849

Parameter	Units	60170631001		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
Mercury, Dissolved	ug/L	ND	150	150	142	141	95	94	70-130	0	20				

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-324

Pace Project No.: 60170943

QC Batch:	MPRP/27579	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
Associated Lab Samples:	60170943001		

METHOD BLANK: 1391731 Matrix: Water

Associated Lab Samples: 60170943001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	06/12/14 12:39	
Antimony	ug/L	ND	10.0	06/12/14 12:39	
Arsenic	ug/L	ND	10.0	06/12/14 12:39	
Beryllium	ug/L	ND	1.0	06/12/14 12:39	
Cadmium	ug/L	ND	5.0	06/12/14 12:39	
Chromium	ug/L	ND	5.0	06/12/14 12:39	
Cobalt	ug/L	ND	5.0	06/12/14 12:39	
Copper	ug/L	ND	10.0	06/12/14 12:39	
Iron	ug/L	ND	50.0	06/12/14 12:39	
Lead	ug/L	ND	5.0	06/12/14 12:39	
Nickel	ug/L	ND	5.0	06/12/14 12:39	
Selenium	ug/L	ND	15.0	06/12/14 12:39	
Silver	ug/L	ND	7.0	06/12/14 12:39	
Thallium	ug/L	ND	20.0	06/12/14 12:39	
Zinc	ug/L	ND	50.0	06/12/14 12:39	

LABORATORY CONTROL SAMPLE: 1391732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10100	101	85-115	
Antimony	ug/L	1000	985	99	85-115	
Arsenic	ug/L	1000	931	93	85-115	
Beryllium	ug/L	1000	1030	103	85-115	
Cadmium	ug/L	1000	954	95	85-115	
Chromium	ug/L	1000	1060	106	85-115	
Cobalt	ug/L	1000	987	99	85-115	
Copper	ug/L	1000	1000	100	85-115	
Iron	ug/L	10000	10100	101	85-115	
Lead	ug/L	1000	999	100	85-115	
Nickel	ug/L	1000	1020	102	85-115	
Selenium	ug/L	1000	970	97	85-115	
Silver	ug/L	500	504	101	85-115	
Thallium	ug/L	1000	966	97	85-115	
Zinc	ug/L	1000	980	98	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-324

Pace Project No.: 60170943

Parameter	Units	60170803001		MS		MSD		1391733		1391734		% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec								
Aluminum	ug/L	7820	50000	50000	63000	63800	110	112	70-130	1	8					
Antimony	ug/L	119	5000	5000	5230	5200	102	102	70-130	0	7					
Arsenic	ug/L	1200	5000	5000	6520	6560	107	107	70-130	0	10					
Beryllium	ug/L	ND	5000	5000	5010	5000	100	100	70-130	0	7					
Cadmium	ug/L	28.8	5000	5000	5090	5100	101	101	70-130	0	10					
Chromium	ug/L	267	5000	5000	5400	5420	103	103	70-130	0	10					
Cobalt	ug/L	41.3	5000	5000	4690	4700	93	93	70-130	0	6					
Copper	ug/L	ND	5000	5000	5490	5420	109	107	70-130	1	11					
Iron	ug/L	747000	50000	50000	800000	805000	105	116	70-130	1	10					
Lead	ug/L	94.9	5000	5000	4530	4560	89	89	70-130	1	10					
Nickel	ug/L	135	5000	5000	4870	4880	95	95	70-130	0	10					
Selenium	ug/L	ND	5000	5000	6000	6020	119	119	70-130	0	10					
Silver	ug/L	ND	2500	2500	2750	2740	109	109	70-130	0	10					
Thallium	ug/L	ND	5000	5000	3910	3920	78	78	70-130	0	6					
Zinc	ug/L	5290	5000	5000	9880	9800	92	90	70-130	1	11					

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-324

Pace Project No.: 60170943

QC Batch: MPRP/27584

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Dissolved

Associated Lab Samples: 60170943001

METHOD BLANK: 1391834

Matrix: Water

Associated Lab Samples: 60170943001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	06/12/14 13:25	
Antimony, Dissolved	ug/L	ND	10.0	06/12/14 13:25	
Arsenic, Dissolved	ug/L	ND	10.0	06/12/14 13:25	
Beryllium, Dissolved	ug/L	ND	1.0	06/12/14 13:25	
Cadmium, Dissolved	ug/L	ND	5.0	06/12/14 13:25	
Chromium, Dissolved	ug/L	ND	5.0	06/12/14 13:25	
Cobalt, Dissolved	ug/L	ND	5.0	06/12/14 13:25	
Copper, Dissolved	ug/L	ND	10.0	06/12/14 13:25	
Iron, Dissolved	ug/L	ND	50.0	06/12/14 13:25	
Lead, Dissolved	ug/L	ND	5.0	06/12/14 13:25	
Nickel, Dissolved	ug/L	ND	5.0	06/12/14 13:25	
Selenium, Dissolved	ug/L	ND	15.0	06/12/14 13:25	
Silver, Dissolved	ug/L	ND	7.0	06/12/14 13:25	
Thallium, Dissolved	ug/L	ND	20.0	06/12/14 13:25	
Zinc, Dissolved	ug/L	ND	50.0	06/12/14 13:25	

LABORATORY CONTROL SAMPLE: 1391835

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9860	99	85-115	
Antimony, Dissolved	ug/L	1000	957	96	85-115	
Arsenic, Dissolved	ug/L	1000	924	92	85-115	
Beryllium, Dissolved	ug/L	1000	1010	101	85-115	
Cadmium, Dissolved	ug/L	1000	942	94	85-115	
Chromium, Dissolved	ug/L	1000	1040	104	85-115	
Cobalt, Dissolved	ug/L	1000	971	97	85-115	
Copper, Dissolved	ug/L	1000	976	98	85-115	
Iron, Dissolved	ug/L	10000	9910	99	85-115	
Lead, Dissolved	ug/L	1000	987	99	85-115	
Nickel, Dissolved	ug/L	1000	1010	101	85-115	
Selenium, Dissolved	ug/L	1000	966	97	85-115	
Silver, Dissolved	ug/L	500	496	99	85-115	
Thallium, Dissolved	ug/L	1000	952	95	85-115	
Zinc, Dissolved	ug/L	1000	996	100	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-324

Pace Project No.: 60170943

Parameter	Units	60170803001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec							
Aluminum, Dissolved	ug/L	1810	50000	50000	52200	52300	101	101	70-130	0	8					
Antimony, Dissolved	ug/L	70.4	5000	5000	5200	5180	102	102	70-130	0	7					
Arsenic, Dissolved	ug/L	918	5000	5000	6380	6210	109	106	70-130	3	10					
Beryllium, Dissolved	ug/L	ND	5000	5000	4900	4900	98	98	70-130	0	7					
Cadmium, Dissolved	ug/L	25.4	5000	5000	5060	5040	101	100	70-130	0	10					
Chromium, Dissolved	ug/L	176	5000	5000	5260	5220	102	101	70-130	1	10					
Cobalt, Dissolved	ug/L	ND	5000	5000	4630	4640	92	92	70-130	0	6					
Copper, Dissolved	ug/L	ND	5000	5000	5450	5400	108	107	70-130	1	11					
Iron, Dissolved	ug/L	322000	50000	50000	404000	387000	163	129	70-130	4	10 M1					
Lead, Dissolved	ug/L	ND	5000	5000	4500	4490	89	89	70-130	0	10					
Nickel, Dissolved	ug/L	94.2	5000	5000	4820	4820	94	94	70-130	0	10					
Selenium, Dissolved	ug/L	ND	5000	5000	5990	5920	119	118	70-130	1	10					
Silver, Dissolved	ug/L	ND	2500	2500	2730	2710	108	107	70-130	1	10					
Thallium, Dissolved	ug/L	ND	5000	5000	3960	3940	79	79	70-130	0	6					
Zinc, Dissolved	ug/L	4220	5000	5000	9240	8970	100	95	70-130	3	11					

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-324

Pace Project No.: 60170943

QC Batch: MSV/62196 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60170943001, 60170943002

METHOD BLANK: 1391793 Matrix: Water

Associated Lab Samples: 60170943001, 60170943002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/11/14 12:26	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/11/14 12:26	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	06/11/14 12:26	
1,2-Dichloroethane	ug/L	ND	1.0	06/11/14 12:26	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/11/14 12:26	
2-Butanone (MEK)	ug/L	ND	10.0	06/11/14 12:26	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/11/14 12:26	N2
Acetone	ug/L	ND	10.0	06/11/14 12:26	N2
Benzene	ug/L	ND	1.0	06/11/14 12:26	
Bromodichloromethane	ug/L	ND	1.0	06/11/14 12:26	
Bromoform	ug/L	ND	1.0	06/11/14 12:26	
Bromomethane	ug/L	ND	5.0	06/11/14 12:26	
Carbon tetrachloride	ug/L	ND	1.0	06/11/14 12:26	
Chloroethane	ug/L	ND	1.0	06/11/14 12:26	
Chloroform	ug/L	ND	1.0	06/11/14 12:26	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/11/14 12:26	N2
Ethylbenzene	ug/L	ND	1.0	06/11/14 12:26	
Methylene chloride	ug/L	ND	1.0	06/11/14 12:26	
Tetrachloroethene	ug/L	ND	1.0	06/11/14 12:26	
Toluene	ug/L	ND	1.0	06/11/14 12:26	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/11/14 12:26	
Trichloroethene	ug/L	ND	1.0	06/11/14 12:26	
Vinyl chloride	ug/L	ND	1.0	06/11/14 12:26	
Xylene (Total)	ug/L	ND	3.0	06/11/14 12:26	N2
1,2-Dichloroethane-d4 (S)	%	94	80-120	06/11/14 12:26	
4-Bromofluorobenzene (S)	%	99	80-120	06/11/14 12:26	
Toluene-d8 (S)	%	95	80-120	06/11/14 12:26	

LABORATORY CONTROL SAMPLE: 1391794

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.6	93	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	21.2	106	67-127	N2
1,1,2-Trichloroethane	ug/L	20	20.0	100	67-124	
1,2-Dichloroethane	ug/L	20	18.8	94	70-126	
1,4-Dichlorobenzene	ug/L	20	18.9	94	74-120	
2-Butanone (MEK)	ug/L	100	105	105	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	113	113	59-131	N2
Acetone	ug/L	100	103	103	38-134	N2
Benzene	ug/L	20	19.3	96	75-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-324

Pace Project No.: 60170943

LABORATORY CONTROL SAMPLE: 1391794

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	20	19.6	98	68-125	
Bromoform	ug/L	20	20.1	100	65-127	
Bromomethane	ug/L	20	14.6	73	13-157	
Carbon tetrachloride	ug/L	20	18.1	91	70-131	
Chloroethane	ug/L	20	19.7	99	47-133	
Chloroform	ug/L	20	18.7	93	65-127	
cis-1,2-Dichloroethene	ug/L	20	19.8	99	68-127	N2
Ethylbenzene	ug/L	20	18.3	92	74-122	
Methylene chloride	ug/L	20	18.8	94	64-129	
Tetrachloroethene	ug/L	20	19.4	97	73-125	
Toluene	ug/L	20	18.2	91	69-126	
trans-1,2-Dichloroethene	ug/L	20	18.0	90	66-129	
Trichloroethene	ug/L	20	18.1	91	71-123	
Vinyl chloride	ug/L	20	19.5	97	43-129	
Xylene (Total)	ug/L	60	57.0	95	75-121	N2
1,2-Dichloroethane-d4 (S)	%			99	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			98	80-120	

MATRIX SPIKE SAMPLE: 1391795

Parameter	Units	60170941001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	4540	91	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	4990	98	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	4750	95	52-143	
1,2-Dichloroethane	ug/L	ND	5000	4220	84	49-144	
1,4-Dichlorobenzene	ug/L	ND	5000	4750	93	33-140	
2-Butanone (MEK)	ug/L	43000	25000	64500	86	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	25000	98	40-160	N2
Acetone	ug/L	102000	25000	119000	68	10-160	N2
Benzene	ug/L	ND	5000	4490	90	37-151	
Bromodichloromethane	ug/L	ND	5000	4490	90	35-142	
Bromoform	ug/L	ND	5000	4600	92	45-142	
Bromomethane	ug/L	ND	5000	2820	56	10-158	
Carbon tetrachloride	ug/L	ND	5000	4650	93	70-140	
Chloroethane	ug/L	ND	5000	3690	74	19-152	
Chloroform	ug/L	ND	5000	4400	88	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	4600	92	34-147	N2
Ethylbenzene	ug/L	ND	5000	4800	96	40-142	
Methylene chloride	ug/L	ND	5000	4310	82	31-144	
Tetrachloroethene	ug/L	ND	5000	5060	101	64-148	
Toluene	ug/L	ND	5000	4360	87	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	4350	87	54-151	
Trichloroethene	ug/L	ND	5000	4430	89	71-149	
Vinyl chloride	ug/L	ND	5000	3180	64	22-146	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-324

Pace Project No.: 60170943

MATRIX SPIKE SAMPLE:		1391795					
Parameter	Units	60170941001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	ND	15000	14200	94	37-144	N2
1,2-Dichloroethane-d4 (S)	%				93	80-120	
4-Bromofluorobenzene (S)	%				103	80-120	HS
Toluene-d8 (S)	%				94	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-324

Pace Project No.: 60170943

QC Batch:	OEXT/44615	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60170943001		

METHOD BLANK: 1392788 Matrix: Water

Associated Lab Samples: 60170943001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/13/14 08:15	
2,4,6-Trichlorophenol	ug/L	ND	5.0	06/13/14 08:15	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	06/13/14 08:15	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	06/13/14 08:15	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	06/13/14 08:15	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/13/14 08:15	
Hexachlorocyclopentadiene	ug/L	ND	5.0	06/13/14 08:15	
Hexachloroethane	ug/L	ND	5.0	06/13/14 08:15	
Naphthalene	ug/L	ND	5.0	06/13/14 08:15	
Nitrobenzene	ug/L	ND	5.0	06/13/14 08:15	
Pentachlorophenol	ug/L	ND	5.0	06/13/14 08:15	
Phenol	ug/L	ND	5.0	06/13/14 08:15	
2,4,6-Tribromophenol (S)	%	98	39-120	06/13/14 08:15	
2-Fluorobiphenyl (S)	%	89	39-120	06/13/14 08:15	
2-Fluorophenol (S)	%	47	17-120	06/13/14 08:15	
Nitrobenzene-d5 (S)	%	90	33-120	06/13/14 08:15	
Phenol-d6 (S)	%	29	11-120	06/13/14 08:15	
Terphenyl-d14 (S)	%	92	45-120	06/13/14 08:15	

LABORATORY CONTROL SAMPLE: 1392789

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	43.0	86	46-120	
2,4,6-Trichlorophenol	ug/L	50	48.2	96	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	36.1	72	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	34.1	68	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	53.1	106	40-133	
Hexachloro-1,3-butadiene	ug/L	50	42.7	85	44-116	
Hexachlorocyclopentadiene	ug/L	100	80.3	80	24-120	
Hexachloroethane	ug/L	50	43.1	86	43-113	
Naphthalene	ug/L	50	45.2	90	48-120	
Nitrobenzene	ug/L	50	47.0	94	48-120	
Pentachlorophenol	ug/L	50	50.5	101	47-120	
Phenol	ug/L	50	16.3	33	16-112	
2,4,6-Tribromophenol (S)	%			107	39-120	
2-Fluorobiphenyl (S)	%			95	39-120	
2-Fluorophenol (S)	%			50	17-120	
Nitrobenzene-d5 (S)	%			95	33-120	
Phenol-d6 (S)	%			33	11-120	
Terphenyl-d14 (S)	%			98	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-324

Pace Project No.: 60170943

MATRIX SPIKE SAMPLE:		1392790					
Parameter	Units	60170941001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3420	68	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4070	81	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	5000	3910	78	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	7790	5000	13000	104	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	4180J	84	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3430	69	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	6560	66	11-120	
Hexachloroethane	ug/L	ND	5000	3620	72	40-113	
Naphthalene	ug/L	ND	5000	4540	74	45-120	
Nitrobenzene	ug/L	ND	5000	4060	81	38-120	
Pentachlorophenol	ug/L	ND	5000	4520	90	43-135	
Phenol	ug/L	10600	5000	15800	105	13-112	
2,4,6-Tribromophenol (S)	%				90	39-120	
2-Fluorobiphenyl (S)	%				77	39-120	
2-Fluorophenol (S)	%				54	17-120	
Nitrobenzene-d5 (S)	%				157	33-120	SO
Phenol-d6 (S)	%				38	11-120	
Terphenyl-d14 (S)	%				76	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-324

Pace Project No.: 60170943

QC Batch:	WET/48381	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60170943001		

METHOD BLANK: 1392599 Matrix: Water

Associated Lab Samples: 60170943001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	06/11/14 16:05	

LABORATORY CONTROL SAMPLE: 1392600

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	34.7	87	78-114	

MATRIX SPIKE SAMPLE: 1392601

Parameter	Units	60170811001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	46.5	41.4	86	78-114	

SAMPLE DUPLICATE: 1392602

Parameter	Units	60170812001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	1.8J		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-324

Pace Project No.: 60170943

QC Batch:	WET/48382	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60170943001		

METHOD BLANK: 1392604 Matrix: Water

Associated Lab Samples: 60170943001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	06/11/14 16:21	

LABORATORY CONTROL SAMPLE: 1392605

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	22.8	114	64-132	

MATRIX SPIKE SAMPLE: 1392606

Parameter	Units	60170811001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	23.3	14.8	58	64-132	M1

SAMPLE DUPLICATE: 1392607

Parameter	Units	60170812001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	ND		34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-324

Pace Project No.: 60170943

QC Batch:	WET/48426	Analysis Method:	SM 2540D
QC Batch Method:	SM 2540D	Analysis Description:	2540D Total Suspended Solids
Associated Lab Samples:	60170943001		

METHOD BLANK: 1393610 Matrix: Water

Associated Lab Samples: 60170943001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	06/13/14 10:22	

SAMPLE DUPLICATE: 1393611

Parameter	Units	60170919001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	14.0	14.0	0	10	

SAMPLE DUPLICATE: 1393612

Parameter	Units	60170944001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	4760	4560	4	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-324

Pace Project No.: 60170943

QC Batch: WET/48332 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60170943001

SAMPLE DUPLICATE: 1391630

Parameter	Units	60170969001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.6	8.6	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-324

Pace Project No.: 60170943

QC Batch:	WET/48318	Analysis Method:	SM 5210B
QC Batch Method:	SM 5210B	Analysis Description:	5210B BOD, 5 day
Associated Lab Samples:	60170943001		

METHOD BLANK: 1391401 Matrix: Water

Associated Lab Samples: 60170943001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	06/14/14 08:43	

LABORATORY CONTROL SAMPLE: 1391402

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	177	90	85-115	

SAMPLE DUPLICATE: 1391403

Parameter	Units	60170944001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	33600	30300	10	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-324

Pace Project No.: 60170943

QC Batch:	WETA/29765	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60170943001		

METHOD BLANK: 1391447 Matrix: Water
Associated Lab Samples: 60170943001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	06/10/14 11:44	

LABORATORY CONTROL SAMPLE: 1391448

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	106	90-110	

MATRIX SPIKE SAMPLE: 1391449

Parameter	Units	60170771002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.0	101	90-110	

MATRIX SPIKE SAMPLE: 1391450

Parameter	Units	60170772001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	10	19.1	92	90-110	

SAMPLE DUPLICATE: 1391451

Parameter	Units	60170823001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-324

Pace Project No.: 60170943

QC Batch:	WETA/29817	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60170943001		

METHOD BLANK: 1392765 Matrix: Water
Associated Lab Samples: 60170943001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	06/13/14 08:07	

LABORATORY CONTROL SAMPLE: 1392766

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	53.1	106	90-110	

MATRIX SPIKE SAMPLE: 1392767

Parameter	Units	60170800001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	150	100	265	116	90-110	M1

MATRIX SPIKE SAMPLE: 1392769

Parameter	Units	60170943001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	58800	25000	83400	98	90-110	

SAMPLE DUPLICATE: 1392768

Parameter	Units	60170800003 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	90.3	89.7	1	25	

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QUALIFIERS

Project: BRIDGETON LF 316-324

Pace Project No.: 60170943

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.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

H6 Analysis initiated outside of the 15 minute EPA recommended holding time.

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

N2 The lab does not hold TNI accreditation for this parameter.

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-324

Pace Project No.: 60170943

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60170943001	316-324	EPA 200.7	MPRP/27579	EPA 200.7	ICP/20855
60170943001	316-324	EPA 200.7	MPRP/27584	EPA 200.7	ICP/20856
60170943001	316-324	EPA 245.1	MERP/8470	EPA 245.1	MERC/8425
60170943001	316-324	EPA 245.1	MERP/8474	EPA 245.1	MERC/8429
60170943001	316-324	EPA 625	OEXT/44615	EPA 625	MSSV/14284
60170943001	316-324	EPA 624 Low	MSV/62196		
60170943002	TRIP BLANK	EPA 624 Low	MSV/62196		
60170943001	316-324	EPA 1664A	WET/48381		
60170943001	316-324	EPA 1664A	WET/48382		
60170943001	316-324	SM 2540D	WET/48426		
60170943001	316-324	SM 4500-H+B	WET/48332		
60170943001	316-324	SM 5210B	WET/48318	SM 5210B	WET/48454
60170943001	316-324	EPA 350.1	WETA/29765		
60170943001	316-324	EPA 410.4	WETA/29817		

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Sample Condition Upon Receipt

WO#: 60170943



Client Name: Republic - Barr Eng.

Courier: Fed Ex UPS USPS Client Commercial Pace Other *X Road*

Tracking #: _____ Pace Shipping Label Used? Yes No

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other

Thermometer Used: T-239 / T-194

Type of Ice: Wet Blue None Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 3.6

Date and initials of person examining contents: Jan 6/9/19 1725

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <i>BOD</i>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Includes date/time/ID/analyses Matrix: <i>matrix</i>		13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14. <i>BPN TBSS unable to be preserved.</i>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <i>mf</i>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Lot # of added preservative
Pace Trip Blank lot # (if purchased): <u>040714-3</u>		15.
Headspace in VOA vials (>6mm):	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16. <i>headspace in all sample vials sets - APPLY THE QUALIFIER PER HISTORICAL</i>
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <i>WASHINGTONS.</i>

Client Notification/ Resolution: Copy COC to Client? Y N Field Data Required? Y N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: *[Signature]* Date: 6/10/19

June 16, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-325
Pace Project No.: 60170944

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 09, 2014. 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,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Bill Abernathy, Feezor Engineering
Kelly Caddy, Barr Engineering
DAN FEEZOR, FEEZOR ENGINEERING
Dana B. Pasi, Barr Engineering Co.
Brian Power, Republic Services
Brian Sehie, Republic Services
Margaret Treanor, Barr Engineering Company



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CERTIFICATIONS

Project: BRIDGETON LF 316-325

Pace Project No.: 60170944

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-13-4

Utah Certification #: KS000212013-3

Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-325

Pace Project No.: 60170944

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60170944001	316-325	Water	06/09/14 08:30	06/09/14 13:15
60170944002	TRIP BLANK	Water	06/09/14 08:30	06/09/14 13:15

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-325

Pace Project No.: 60170944

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60170944001	316-325	EPA 200.7	NDJ	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	CRT	1
		EPA 1664A	CRT	1
		SM 2540D	ESM	1
		SM 4500-H+B	NDL	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC1	1
		60170944002	TRIP BLANK	EPA 624 Low

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PROJECT NARRATIVE

Project: BRIDGETON LF 316-325

Pace Project No.: 60170944

Date: June 16, 2014

The samples were received outside of required temperature range.

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-325

Pace Project No.: 60170944

Sample: 316-325		Lab ID: 60170944001	Collected: 06/09/14 08:30	Received: 06/09/14 13:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	8380 ug/L		750	2	06/10/14 11:25	06/12/14 13:18	7429-90-5	
Antimony	128 ug/L		50.0	1	06/10/14 11:25	06/12/14 13:16	7440-36-0	
Arsenic	1120 ug/L		50.0	1	06/10/14 11:25	06/12/14 13:16	7440-38-2	
Beryllium	ND ug/L		5.0	1	06/10/14 11:25	06/12/14 13:16	7440-41-7	
Cadmium	27.3 ug/L		25.0	1	06/10/14 11:25	06/12/14 13:16	7440-43-9	
Chromium	260 ug/L		25.0	1	06/10/14 11:25	06/12/14 13:16	7440-47-3	
Cobalt	40.3 ug/L		25.0	1	06/10/14 11:25	06/12/14 13:16	7440-48-4	
Copper	ND ug/L		50.0	1	06/10/14 11:25	06/12/14 13:16	7440-50-8	
Iron	795000 ug/L		250	1	06/10/14 11:25	06/12/14 13:16	7439-89-6	
Lead	106 ug/L		25.0	1	06/10/14 11:25	06/12/14 13:16	7439-92-1	
Nickel	126 ug/L		25.0	1	06/10/14 11:25	06/12/14 13:16	7440-02-0	
Selenium	ND ug/L		75.0	1	06/10/14 11:25	06/12/14 13:16	7782-49-2	
Silver	ND ug/L		35.0	1	06/10/14 11:25	06/12/14 13:16	7440-22-4	
Thallium	ND ug/L		200	2	06/10/14 11:25	06/12/14 13:18	7440-28-0	D3
Zinc	5420 ug/L		500	2	06/10/14 11:25	06/12/14 13:18	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	2020 ug/L		750	2	06/10/14 16:00	06/12/14 14:08	7429-90-5	
Antimony, Dissolved	60.8 ug/L		50.0	1	06/10/14 16:00	06/12/14 14:05	7440-36-0	
Arsenic, Dissolved	882 ug/L		50.0	1	06/10/14 16:00	06/12/14 14:05	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	06/10/14 16:00	06/12/14 14:05	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	06/10/14 16:00	06/12/14 14:05	7440-43-9	
Chromium, Dissolved	197 ug/L		25.0	1	06/10/14 16:00	06/12/14 14:05	7440-47-3	
Cobalt, Dissolved	ND ug/L		25.0	1	06/10/14 16:00	06/12/14 14:05	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	06/10/14 16:00	06/12/14 14:05	7440-50-8	
Iron, Dissolved	357000 ug/L		250	1	06/10/14 16:00	06/12/14 14:05	7439-89-6	
Lead, Dissolved	28.8 ug/L		25.0	1	06/10/14 16:00	06/12/14 14:05	7439-92-1	
Nickel, Dissolved	93.2 ug/L		25.0	1	06/10/14 16:00	06/12/14 14:05	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	06/10/14 16:00	06/12/14 14:05	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	06/10/14 16:00	06/12/14 14:05	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	06/10/14 16:00	06/12/14 14:05	7440-28-0	
Zinc, Dissolved	4730 ug/L		500	2	06/10/14 16:00	06/12/14 14:08	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	96.0 ug/L		6.0	1	06/09/14 17:15	06/10/14 10:54	7439-97-6	
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND ug/L		6.0	1	06/10/14 14:00	06/11/14 11:04	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	06/12/14 00:00	06/13/14 10:01	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	06/12/14 00:00	06/13/14 10:01	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	06/12/14 00:00	06/13/14 10:01	77-47-4	
Hexachloroethane	ND ug/L		1000	2	06/12/14 00:00	06/13/14 10:01	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	2	06/12/14 00:00	06/13/14 10:01	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	8710 ug/L		4000	2	06/12/14 00:00	06/13/14 10:01		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-325

Pace Project No.: 60170944

Sample: 316-325		Lab ID: 60170944001	Collected: 06/09/14 08:30	Received: 06/09/14 13:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	2250 ug/L		1000	2	06/12/14 00:00	06/13/14 10:01	91-20-3	
Nitrobenzene	ND ug/L		1000	2	06/12/14 00:00	06/13/14 10:01	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	06/12/14 00:00	06/13/14 10:01	87-86-5	
Phenol	10600 ug/L		1000	2	06/12/14 00:00	06/13/14 10:01	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	06/12/14 00:00	06/13/14 10:01	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	06/12/14 00:00	06/13/14 10:01	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	160 %		33-120	2	06/12/14 00:00	06/13/14 10:01	4165-60-0	S0
2-Fluorobiphenyl (S)	83 %		39-120	2	06/12/14 00:00	06/13/14 10:01	321-60-8	
Terphenyl-d14 (S)	84 %		45-120	2	06/12/14 00:00	06/13/14 10:01	1718-51-0	
Phenol-d6 (S)	34 %		11-120	2	06/12/14 00:00	06/13/14 10:01	13127-88-3	
2-Fluorophenol (S)	49 %		17-120	2	06/12/14 00:00	06/13/14 10:01	367-12-4	
2,4,6-Tribromophenol (S)	99 %		39-120	2	06/12/14 00:00	06/13/14 10:01	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	105000 ug/L		2500	250		06/11/14 16:50	67-64-1	N2
Benzene	ND ug/L		250	250		06/11/14 16:50	71-43-2	
Bromodichloromethane	ND ug/L		250	250		06/11/14 16:50	75-27-4	
Bromoform	ND ug/L		250	250		06/11/14 16:50	75-25-2	
Bromomethane	ND ug/L		1250	250		06/11/14 16:50	74-83-9	
2-Butanone (MEK)	43200 ug/L		2500	250		06/11/14 16:50	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		06/11/14 16:50	56-23-5	
Chloroethane	ND ug/L		250	250		06/11/14 16:50	75-00-3	
Chloroform	ND ug/L		250	250		06/11/14 16:50	67-66-3	
1,4-Dichlorobenzene	536 ug/L		250	250		06/11/14 16:50	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		06/11/14 16:50	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		06/11/14 16:50	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		06/11/14 16:50	156-60-5	
Ethylbenzene	ND ug/L		250	250		06/11/14 16:50	100-41-4	
Methylene chloride	ND ug/L		250	250		06/11/14 16:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		06/11/14 16:50	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		06/11/14 16:50	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		06/11/14 16:50	127-18-4	
Toluene	ND ug/L		250	250		06/11/14 16:50	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		06/11/14 16:50	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		06/11/14 16:50	79-00-5	
Trichloroethene	ND ug/L		250	250		06/11/14 16:50	79-01-6	
Vinyl chloride	ND ug/L		250	250		06/11/14 16:50	75-01-4	
Xylene (Total)	ND ug/L		750	250		06/11/14 16:50	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	102 %		80-120	250		06/11/14 16:50	460-00-4	HS
Toluene-d8 (S)	97 %		80-120	250		06/11/14 16:50	2037-26-5	
1,2-Dichloroethane-d4 (S)	95 %		80-120	250		06/11/14 16:50	17060-07-0	
Preservation pH	6.0		1.0	250		06/11/14 16:50		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	969 mg/L		5.0	1		06/11/14 16:09		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-325

Pace Project No.: 60170944

Sample: 316-325		Lab ID: 60170944001	Collected: 06/09/14 08:30	Received: 06/09/14 13:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	9.1	mg/L	5.0	1		06/11/14 16:22		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	4760	mg/L	5.0	1		06/13/14 10:25		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.4	Std. Units	0.10	1		06/10/14 16:15		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	33600	mg/L	2.0	1	06/09/14 16:48	06/14/14 08:55		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	615	mg/L	20.0	200		06/10/14 12:18	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	57600	mg/L	5000	500		06/13/14 08:26		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-325

Pace Project No.: 60170944

Sample: TRIP BLANK		Lab ID: 60170944002	Collected: 06/09/14 08:30	Received: 06/09/14 13:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		06/11/14 15:32	67-64-1	N2
Benzene	ND ug/L		1.0	1		06/11/14 15:32	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		06/11/14 15:32	75-27-4	
Bromoform	ND ug/L		1.0	1		06/11/14 15:32	75-25-2	
Bromomethane	ND ug/L		5.0	1		06/11/14 15:32	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/11/14 15:32	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		06/11/14 15:32	56-23-5	
Chloroethane	ND ug/L		1.0	1		06/11/14 15:32	75-00-3	
Chloroform	ND ug/L		1.0	1		06/11/14 15:32	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		06/11/14 15:32	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		06/11/14 15:32	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		06/11/14 15:32	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		06/11/14 15:32	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		06/11/14 15:32	100-41-4	
Methylene chloride	ND ug/L		1.0	1		06/11/14 15:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/11/14 15:32	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		06/11/14 15:32	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		06/11/14 15:32	127-18-4	
Toluene	ND ug/L		1.0	1		06/11/14 15:32	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		06/11/14 15:32	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		06/11/14 15:32	79-00-5	
Trichloroethene	ND ug/L		1.0	1		06/11/14 15:32	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		06/11/14 15:32	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		06/11/14 15:32	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	102 %		80-120	1		06/11/14 15:32	460-00-4	
Toluene-d8 (S)	97 %		80-120	1		06/11/14 15:32	2037-26-5	
1,2-Dichloroethane-d4 (S)	94 %		80-120	1		06/11/14 15:32	17060-07-0	
Preservation pH	6.0		1.0	1		06/11/14 15:32		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-325
Pace Project No.: 60170944

QC Batch: MERP/8470 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
Associated Lab Samples: 60170944001

METHOD BLANK: 1391435 Matrix: Water
Associated Lab Samples: 60170944001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	06/10/14 10:10	

LABORATORY CONTROL SAMPLE: 1391436

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.8	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1391437 1391438

Parameter	60170884001		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Mercury	ug/L	ND	5	5	2.8	2.8	55	54	70-130	1	20	M1

MATRIX SPIKE SAMPLE: 1391439

Parameter	Units	60170484001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	4.6	91	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-325

Pace Project No.: 60170944

QC Batch:	MERP/8474	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury - Dissolved
Associated Lab Samples:	60170944001		

METHOD BLANK: 1391846 Matrix: Water
Associated Lab Samples: 60170944001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	06/11/14 10:39	

LABORATORY CONTROL SAMPLE: 1391847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.8	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1391848 1391849

Parameter	Units	60170631001		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
Mercury, Dissolved	ug/L	ND	150	150	142	141	95	94	70-130	0	20				

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-325

Pace Project No.: 60170944

QC Batch: MPRP/27579

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Total

Associated Lab Samples: 60170944001

METHOD BLANK: 1391731

Matrix: Water

Associated Lab Samples: 60170944001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	06/12/14 12:39	
Antimony	ug/L	ND	10.0	06/12/14 12:39	
Arsenic	ug/L	ND	10.0	06/12/14 12:39	
Beryllium	ug/L	ND	1.0	06/12/14 12:39	
Cadmium	ug/L	ND	5.0	06/12/14 12:39	
Chromium	ug/L	ND	5.0	06/12/14 12:39	
Cobalt	ug/L	ND	5.0	06/12/14 12:39	
Copper	ug/L	ND	10.0	06/12/14 12:39	
Iron	ug/L	ND	50.0	06/12/14 12:39	
Lead	ug/L	ND	5.0	06/12/14 12:39	
Nickel	ug/L	ND	5.0	06/12/14 12:39	
Selenium	ug/L	ND	15.0	06/12/14 12:39	
Silver	ug/L	ND	7.0	06/12/14 12:39	
Thallium	ug/L	ND	20.0	06/12/14 12:39	
Zinc	ug/L	ND	50.0	06/12/14 12:39	

LABORATORY CONTROL SAMPLE: 1391732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10100	101	85-115	
Antimony	ug/L	1000	985	99	85-115	
Arsenic	ug/L	1000	931	93	85-115	
Beryllium	ug/L	1000	1030	103	85-115	
Cadmium	ug/L	1000	954	95	85-115	
Chromium	ug/L	1000	1060	106	85-115	
Cobalt	ug/L	1000	987	99	85-115	
Copper	ug/L	1000	1000	100	85-115	
Iron	ug/L	10000	10100	101	85-115	
Lead	ug/L	1000	999	100	85-115	
Nickel	ug/L	1000	1020	102	85-115	
Selenium	ug/L	1000	970	97	85-115	
Silver	ug/L	500	504	101	85-115	
Thallium	ug/L	1000	966	97	85-115	
Zinc	ug/L	1000	980	98	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-325

Pace Project No.: 60170944

Parameter	Units	60170803001		1391733		1391734		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Aluminum	ug/L	7820	50000	50000	63000	63800	110	112	70-130	1	8		
Antimony	ug/L	119	5000	5000	5230	5200	102	102	70-130	0	7		
Arsenic	ug/L	1200	5000	5000	6520	6560	107	107	70-130	0	10		
Beryllium	ug/L	ND	5000	5000	5010	5000	100	100	70-130	0	7		
Cadmium	ug/L	28.8	5000	5000	5090	5100	101	101	70-130	0	10		
Chromium	ug/L	267	5000	5000	5400	5420	103	103	70-130	0	10		
Cobalt	ug/L	41.3	5000	5000	4690	4700	93	93	70-130	0	6		
Copper	ug/L	ND	5000	5000	5490	5420	109	107	70-130	1	11		
Iron	ug/L	747000	50000	50000	800000	805000	105	116	70-130	1	10		
Lead	ug/L	94.9	5000	5000	4530	4560	89	89	70-130	1	10		
Nickel	ug/L	135	5000	5000	4870	4880	95	95	70-130	0	10		
Selenium	ug/L	ND	5000	5000	6000	6020	119	119	70-130	0	10		
Silver	ug/L	ND	2500	2500	2750	2740	109	109	70-130	0	10		
Thallium	ug/L	ND	5000	5000	3910	3920	78	78	70-130	0	6		
Zinc	ug/L	5290	5000	5000	9880	9800	92	90	70-130	1	11		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-325
Pace Project No.: 60170944

QC Batch: MPRP/27584 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60170944001

METHOD BLANK: 1391834 Matrix: Water
Associated Lab Samples: 60170944001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	06/12/14 13:25	
Antimony, Dissolved	ug/L	ND	10.0	06/12/14 13:25	
Arsenic, Dissolved	ug/L	ND	10.0	06/12/14 13:25	
Beryllium, Dissolved	ug/L	ND	1.0	06/12/14 13:25	
Cadmium, Dissolved	ug/L	ND	5.0	06/12/14 13:25	
Chromium, Dissolved	ug/L	ND	5.0	06/12/14 13:25	
Cobalt, Dissolved	ug/L	ND	5.0	06/12/14 13:25	
Copper, Dissolved	ug/L	ND	10.0	06/12/14 13:25	
Iron, Dissolved	ug/L	ND	50.0	06/12/14 13:25	
Lead, Dissolved	ug/L	ND	5.0	06/12/14 13:25	
Nickel, Dissolved	ug/L	ND	5.0	06/12/14 13:25	
Selenium, Dissolved	ug/L	ND	15.0	06/12/14 13:25	
Silver, Dissolved	ug/L	ND	7.0	06/12/14 13:25	
Thallium, Dissolved	ug/L	ND	20.0	06/12/14 13:25	
Zinc, Dissolved	ug/L	ND	50.0	06/12/14 13:25	

LABORATORY CONTROL SAMPLE: 1391835

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9860	99	85-115	
Antimony, Dissolved	ug/L	1000	957	96	85-115	
Arsenic, Dissolved	ug/L	1000	924	92	85-115	
Beryllium, Dissolved	ug/L	1000	1010	101	85-115	
Cadmium, Dissolved	ug/L	1000	942	94	85-115	
Chromium, Dissolved	ug/L	1000	1040	104	85-115	
Cobalt, Dissolved	ug/L	1000	971	97	85-115	
Copper, Dissolved	ug/L	1000	976	98	85-115	
Iron, Dissolved	ug/L	10000	9910	99	85-115	
Lead, Dissolved	ug/L	1000	987	99	85-115	
Nickel, Dissolved	ug/L	1000	1010	101	85-115	
Selenium, Dissolved	ug/L	1000	966	97	85-115	
Silver, Dissolved	ug/L	500	496	99	85-115	
Thallium, Dissolved	ug/L	1000	952	95	85-115	
Zinc, Dissolved	ug/L	1000	996	100	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-325

Pace Project No.: 60170944

Parameter	Units	60170803001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max	RPD	Qual
		Result	Conc.	Spike	Conc.	Result	Conc.	Result	Conc.	% Rec	% Rec						
Aluminum, Dissolved	ug/L	1810	50000	50000	50000	52200	52300	101	101	70-130	0	8					
Antimony, Dissolved	ug/L	70.4	5000	5000	5000	5200	5180	102	102	70-130	0	7					
Arsenic, Dissolved	ug/L	918	5000	5000	5000	6380	6210	109	106	70-130	3	10					
Beryllium, Dissolved	ug/L	ND	5000	5000	5000	4900	4900	98	98	70-130	0	7					
Cadmium, Dissolved	ug/L	25.4	5000	5000	5000	5060	5040	101	100	70-130	0	10					
Chromium, Dissolved	ug/L	176	5000	5000	5000	5260	5220	102	101	70-130	1	10					
Cobalt, Dissolved	ug/L	ND	5000	5000	5000	4630	4640	92	92	70-130	0	6					
Copper, Dissolved	ug/L	ND	5000	5000	5000	5450	5400	108	107	70-130	1	11					
Iron, Dissolved	ug/L	322000	50000	50000	50000	404000	387000	163	129	70-130	4	10	M1				
Lead, Dissolved	ug/L	ND	5000	5000	5000	4500	4490	89	89	70-130	0	10					
Nickel, Dissolved	ug/L	94.2	5000	5000	5000	4820	4820	94	94	70-130	0	10					
Selenium, Dissolved	ug/L	ND	5000	5000	5000	5990	5920	119	118	70-130	1	10					
Silver, Dissolved	ug/L	ND	2500	2500	2500	2730	2710	108	107	70-130	1	10					
Thallium, Dissolved	ug/L	ND	5000	5000	5000	3960	3940	79	79	70-130	0	6					
Zinc, Dissolved	ug/L	4220	5000	5000	5000	9240	8970	100	95	70-130	3	11					

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-325

Pace Project No.: 60170944

QC Batch: MSV/62196 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60170944001, 60170944002

METHOD BLANK: 1391793 Matrix: Water

Associated Lab Samples: 60170944001, 60170944002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/11/14 12:26	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/11/14 12:26	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	06/11/14 12:26	
1,2-Dichloroethane	ug/L	ND	1.0	06/11/14 12:26	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/11/14 12:26	
2-Butanone (MEK)	ug/L	ND	10.0	06/11/14 12:26	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/11/14 12:26	N2
Acetone	ug/L	ND	10.0	06/11/14 12:26	N2
Benzene	ug/L	ND	1.0	06/11/14 12:26	
Bromodichloromethane	ug/L	ND	1.0	06/11/14 12:26	
Bromoform	ug/L	ND	1.0	06/11/14 12:26	
Bromomethane	ug/L	ND	5.0	06/11/14 12:26	
Carbon tetrachloride	ug/L	ND	1.0	06/11/14 12:26	
Chloroethane	ug/L	ND	1.0	06/11/14 12:26	
Chloroform	ug/L	ND	1.0	06/11/14 12:26	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/11/14 12:26	N2
Ethylbenzene	ug/L	ND	1.0	06/11/14 12:26	
Methylene chloride	ug/L	ND	1.0	06/11/14 12:26	
Tetrachloroethene	ug/L	ND	1.0	06/11/14 12:26	
Toluene	ug/L	ND	1.0	06/11/14 12:26	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/11/14 12:26	
Trichloroethene	ug/L	ND	1.0	06/11/14 12:26	
Vinyl chloride	ug/L	ND	1.0	06/11/14 12:26	
Xylene (Total)	ug/L	ND	3.0	06/11/14 12:26	N2
1,2-Dichloroethane-d4 (S)	%	94	80-120	06/11/14 12:26	
4-Bromofluorobenzene (S)	%	99	80-120	06/11/14 12:26	
Toluene-d8 (S)	%	95	80-120	06/11/14 12:26	

LABORATORY CONTROL SAMPLE: 1391794

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.6	93	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	21.2	106	67-127	N2
1,1,2-Trichloroethane	ug/L	20	20.0	100	67-124	
1,2-Dichloroethane	ug/L	20	18.8	94	70-126	
1,4-Dichlorobenzene	ug/L	20	18.9	94	74-120	
2-Butanone (MEK)	ug/L	100	105	105	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	113	113	59-131	N2
Acetone	ug/L	100	103	103	38-134	N2
Benzene	ug/L	20	19.3	96	75-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-325

Pace Project No.: 60170944

LABORATORY CONTROL SAMPLE: 1391794

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	20	19.6	98	68-125	
Bromoform	ug/L	20	20.1	100	65-127	
Bromomethane	ug/L	20	14.6	73	13-157	
Carbon tetrachloride	ug/L	20	18.1	91	70-131	
Chloroethane	ug/L	20	19.7	99	47-133	
Chloroform	ug/L	20	18.7	93	65-127	
cis-1,2-Dichloroethene	ug/L	20	19.8	99	68-127	N2
Ethylbenzene	ug/L	20	18.3	92	74-122	
Methylene chloride	ug/L	20	18.8	94	64-129	
Tetrachloroethene	ug/L	20	19.4	97	73-125	
Toluene	ug/L	20	18.2	91	69-126	
trans-1,2-Dichloroethene	ug/L	20	18.0	90	66-129	
Trichloroethene	ug/L	20	18.1	91	71-123	
Vinyl chloride	ug/L	20	19.5	97	43-129	
Xylene (Total)	ug/L	60	57.0	95	75-121	N2
1,2-Dichloroethane-d4 (S)	%			99	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			98	80-120	

MATRIX SPIKE SAMPLE: 1391795

Parameter	Units	60170941001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L		ND	5000	4540	91	52-155
1,1,2,2-Tetrachloroethane	ug/L		ND	5000	4990	98	46-146 N2
1,1,2-Trichloroethane	ug/L		ND	5000	4750	95	52-143
1,2-Dichloroethane	ug/L		ND	5000	4220	84	49-144
1,4-Dichlorobenzene	ug/L		ND	5000	4750	93	33-140
2-Butanone (MEK)	ug/L	43000	25000	64500	86	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L		ND	25000	25000	98	40-160 N2
Acetone	ug/L	102000	25000	119000	68	10-160	N2
Benzene	ug/L		ND	5000	4490	90	37-151
Bromodichloromethane	ug/L		ND	5000	4490	90	35-142
Bromoform	ug/L		ND	5000	4600	92	45-142
Bromomethane	ug/L		ND	5000	2820	56	10-158
Carbon tetrachloride	ug/L		ND	5000	4650	93	70-140
Chloroethane	ug/L		ND	5000	3690	74	19-152
Chloroform	ug/L		ND	5000	4400	88	51-138
cis-1,2-Dichloroethene	ug/L		ND	5000	4600	92	34-147 N2
Ethylbenzene	ug/L		ND	5000	4800	96	40-142
Methylene chloride	ug/L		ND	5000	4310	82	31-144
Tetrachloroethene	ug/L		ND	5000	5060	101	64-148
Toluene	ug/L		ND	5000	4360	87	47-150
trans-1,2-Dichloroethene	ug/L		ND	5000	4350	87	54-151
Trichloroethene	ug/L		ND	5000	4430	89	71-149
Vinyl chloride	ug/L		ND	5000	3180	64	22-146

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-325

Pace Project No.: 60170944

MATRIX SPIKE SAMPLE:		1391795					
Parameter	Units	60170941001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	ND	15000	14200	94	37-144	N2
1,2-Dichloroethane-d4 (S)	%				93	80-120	
4-Bromofluorobenzene (S)	%				103	80-120	HS
Toluene-d8 (S)	%				94	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-325

Pace Project No.: 60170944

QC Batch:	OEXT/44615	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60170944001		

METHOD BLANK: 1392788 Matrix: Water

Associated Lab Samples: 60170944001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/13/14 08:15	
2,4,6-Trichlorophenol	ug/L	ND	5.0	06/13/14 08:15	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	06/13/14 08:15	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	06/13/14 08:15	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	06/13/14 08:15	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/13/14 08:15	
Hexachlorocyclopentadiene	ug/L	ND	5.0	06/13/14 08:15	
Hexachloroethane	ug/L	ND	5.0	06/13/14 08:15	
Naphthalene	ug/L	ND	5.0	06/13/14 08:15	
Nitrobenzene	ug/L	ND	5.0	06/13/14 08:15	
Pentachlorophenol	ug/L	ND	5.0	06/13/14 08:15	
Phenol	ug/L	ND	5.0	06/13/14 08:15	
2,4,6-Tribromophenol (S)	%	98	39-120	06/13/14 08:15	
2-Fluorobiphenyl (S)	%	89	39-120	06/13/14 08:15	
2-Fluorophenol (S)	%	47	17-120	06/13/14 08:15	
Nitrobenzene-d5 (S)	%	90	33-120	06/13/14 08:15	
Phenol-d6 (S)	%	29	11-120	06/13/14 08:15	
Terphenyl-d14 (S)	%	92	45-120	06/13/14 08:15	

LABORATORY CONTROL SAMPLE: 1392789

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	43.0	86	46-120	
2,4,6-Trichlorophenol	ug/L	50	48.2	96	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	36.1	72	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	34.1	68	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	53.1	106	40-133	
Hexachloro-1,3-butadiene	ug/L	50	42.7	85	44-116	
Hexachlorocyclopentadiene	ug/L	100	80.3	80	24-120	
Hexachloroethane	ug/L	50	43.1	86	43-113	
Naphthalene	ug/L	50	45.2	90	48-120	
Nitrobenzene	ug/L	50	47.0	94	48-120	
Pentachlorophenol	ug/L	50	50.5	101	47-120	
Phenol	ug/L	50	16.3	33	16-112	
2,4,6-Tribromophenol (S)	%			107	39-120	
2-Fluorobiphenyl (S)	%			95	39-120	
2-Fluorophenol (S)	%			50	17-120	
Nitrobenzene-d5 (S)	%			95	33-120	
Phenol-d6 (S)	%			33	11-120	
Terphenyl-d14 (S)	%			98	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-325

Pace Project No.: 60170944

MATRIX SPIKE SAMPLE:		1392790					
Parameter	Units	60170941001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3420	68	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4070	81	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	5000	3910	78	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	7790	5000	13000	104	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	4180J	84	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3430	69	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	6560	66	11-120	
Hexachloroethane	ug/L	ND	5000	3620	72	40-113	
Naphthalene	ug/L	ND	5000	4540	74	45-120	
Nitrobenzene	ug/L	ND	5000	4060	81	38-120	
Pentachlorophenol	ug/L	ND	5000	4520	90	43-135	
Phenol	ug/L	10600	5000	15800	105	13-112	
2,4,6-Tribromophenol (S)	%				90	39-120	
2-Fluorobiphenyl (S)	%				77	39-120	
2-Fluorophenol (S)	%				54	17-120	
Nitrobenzene-d5 (S)	%				157	33-120	SO
Phenol-d6 (S)	%				38	11-120	
Terphenyl-d14 (S)	%				76	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-325

Pace Project No.: 60170944

QC Batch:	WET/48381	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60170944001		

METHOD BLANK: 1392599 Matrix: Water
Associated Lab Samples: 60170944001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	06/11/14 16:05	

LABORATORY CONTROL SAMPLE: 1392600

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	34.7	87	78-114	

MATRIX SPIKE SAMPLE: 1392601

Parameter	Units	60170811001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	46.5	41.4	86	78-114	

SAMPLE DUPLICATE: 1392602

Parameter	Units	60170812001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	1.8J		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-325

Pace Project No.: 60170944

QC Batch:	WET/48382	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60170944001		

METHOD BLANK: 1392604 Matrix: Water
Associated Lab Samples: 60170944001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	06/11/14 16:21	

LABORATORY CONTROL SAMPLE: 1392605

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	22.8	114	64-132	

MATRIX SPIKE SAMPLE: 1392606

Parameter	Units	60170811001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	23.3	14.8	58	64-132	M1

SAMPLE DUPLICATE: 1392607

Parameter	Units	60170812001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	ND		34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-325

Pace Project No.: 60170944

QC Batch: WET/48426

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60170944001

METHOD BLANK: 1393610

Matrix: Water

Associated Lab Samples: 60170944001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	06/13/14 10:22	

SAMPLE DUPLICATE: 1393611

Parameter	Units	60170919001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	14.0	14.0	0	10	

SAMPLE DUPLICATE: 1393612

Parameter	Units	60170944001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	4760	4560	4	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-325

Pace Project No.: 60170944

QC Batch: WET/48332 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60170944001

SAMPLE DUPLICATE: 1391630

Parameter	Units	60170969001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.6	8.6	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-325

Pace Project No.: 60170944

QC Batch: WET/48318

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60170944001

METHOD BLANK: 1391401

Matrix: Water

Associated Lab Samples: 60170944001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	06/14/14 08:43	

LABORATORY CONTROL SAMPLE: 1391402

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	177	90	85-115	

SAMPLE DUPLICATE: 1391403

Parameter	Units	60170944001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	33600	30300	10	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-325

Pace Project No.: 60170944

QC Batch:	WETA/29765	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60170944001		

METHOD BLANK: 1391447 Matrix: Water
Associated Lab Samples: 60170944001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	06/10/14 11:44	

LABORATORY CONTROL SAMPLE: 1391448

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	106	90-110	

MATRIX SPIKE SAMPLE: 1391449

Parameter	Units	60170771002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.0	101	90-110	

MATRIX SPIKE SAMPLE: 1391450

Parameter	Units	60170772001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	10	19.1	92	90-110	

SAMPLE DUPLICATE: 1391451

Parameter	Units	60170823001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-325

Pace Project No.: 60170944

QC Batch:	WETA/29817	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60170944001		

METHOD BLANK: 1392765 Matrix: Water
Associated Lab Samples: 60170944001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	06/13/14 08:07	

LABORATORY CONTROL SAMPLE: 1392766

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	53.1	106	90-110	

MATRIX SPIKE SAMPLE: 1392767

Parameter	Units	60170800001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	150	100	265	116	90-110	M1

MATRIX SPIKE SAMPLE: 1392769

Parameter	Units	60170943001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	58800	25000	83400	98	90-110	

SAMPLE DUPLICATE: 1392768

Parameter	Units	60170800003 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	90.3	89.7	1	25	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 316-325

Pace Project No.: 60170944

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.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

H6 Analysis initiated outside of the 15 minute EPA recommended holding time.

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

N2 The lab does not hold TNI accreditation for this parameter.

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-325

Pace Project No.: 60170944

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60170944001	316-325	EPA 200.7	MPRP/27579	EPA 200.7	ICP/20855
60170944001	316-325	EPA 200.7	MPRP/27584	EPA 200.7	ICP/20856
60170944001	316-325	EPA 245.1	MERP/8470	EPA 245.1	MERC/8425
60170944001	316-325	EPA 245.1	MERP/8474	EPA 245.1	MERC/8429
60170944001	316-325	EPA 625	OEXT/44615	EPA 625	MSSV/14284
60170944001	316-325	EPA 624 Low	MSV/62196		
60170944002	TRIP BLANK	EPA 624 Low	MSV/62196		
60170944001	316-325	EPA 1664A	WET/48381		
60170944001	316-325	EPA 1664A	WET/48382		
60170944001	316-325	SM 2540D	WET/48426		
60170944001	316-325	SM 4500-H+B	WET/48332		
60170944001	316-325	SM 5210B	WET/48318	SM 5210B	WET/48454
60170944001	316-325	EPA 350.1	WETA/29765		
60170944001	316-325	EPA 410.4	WETA/29817		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60170944



Client Name: Republic - Barr Eng.

Courier: Fed Ex [] UPS [] USPS [] Client [] Commercial [x] Pace [] Other [x] FedEx

Tracking #: Pace Shipping Label Used? Yes [] No [x]

Custody Seal on Cooler/Box Present: Yes [x] No [] Seals intact: Yes [x] No []

Packing Material: Bubble Wrap [x] Bubble Bags [] Foam [] None [] Other []

Thermometer Used: T-239 / T-194 Type of Ice: Wet [x] Blue [] None [x] Samples received on ice, cooling process has begun.

Cooler Temperature: 15.2

Temperature should be above freezing to 6°C

Date and initials of person examining contents: [] [] 1390

Table with 17 rows and 2 columns. Row 1: Chain of Custody present: [x] Yes [] No [] N/A. Row 2: Chain of Custody filled out: [x] Yes [] No [] N/A. Row 3: Chain of Custody relinquished: [x] Yes [] No [] N/A. Row 4: Sampler name & signature on COC: [x] Yes [] No [] N/A. Row 5: Samples arrived within holding time: [x] Yes [] No [] N/A. Row 6: Short Hold Time analyses (<72hr): [x] Yes [] No [] N/A. Row 7: Rush Turn Around Time requested: [] Yes [x] No [] N/A. Row 8: Sufficient volume: [x] Yes [] No [] N/A. Row 9: Correct containers used: [x] Yes [] No [] N/A. Row 10: Pace containers used: [x] Yes [] No [] N/A. Row 11: Containers intact: [x] Yes [] No [] N/A. Row 12: Unpreserved 5035A soils frozen w/in 48hrs? [] Yes [] No [x] N/A. Row 13: Filtered volume received for dissolved tests? [] Yes [] No [x] N/A. Row 14: Sample labels match COC: [x] Yes [] No [] N/A. Row 15: Includes date/time/ID/analyses Matrix: water. Row 16: All containers needing preservation have been checked. [x] Yes [] No [x] N/A. Row 17: All containers needing preservation are found to be in compliance with EPA recommendation. [] Yes [x] No [] N/A. Row 18: Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics. [x] Yes [] No. Row 19: Trip Blank present: [x] Yes [] No [] N/A. Row 20: Pace Trip Blank lot # (if purchased): 00244-3. Row 21: Headspace in VOA vials (>6mm): [x] Yes [] No [] N/A. Row 22: Project sampled in USDA Regulated Area: [] Yes [] No [x] N/A. Row 23: Client Notification/ Resolution: Copy COC to Client? Y [] N [x]. Field Data Required? Y [] N [x].

Person Contacted: Date/Time: Comments/ Resolution:

Project Manager Review: Date: 6/1

June 18, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-326
Pace Project No.: 60171084

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 11, 2014. 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,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Bill Abernathy, Feezor Engineering
Kelly Caddy, Barr Engineering
DAN FEEZOR, FEEZOR ENGINEERING
Dana B. Pasi, Barr Engineering Co.
Brian Power, Republic Services
Brian Sehie, Republic Services
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-326

Pace Project No.: 60171084

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-13-4

Utah Certification #: KS000212013-3

Illinois Certification #: 003097

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-326

Pace Project No.: 60171084

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60171084001	316-326	Water	06/10/14 06:55	06/11/14 02:10
60171084002	TRIP BLANK	Water	06/10/14 06:55	06/11/14 02:10

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-326

Pace Project No.: 60171084

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60171084001	316-326	EPA 200.7	JGP	15
		EPA 200.7	JGP	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	CRT	1
		EPA 1664A	CRT	1
		SM 2540D	ESM	1
		SM 4500-H+B	NDL	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC1	1
		60171084002	TRIP BLANK	EPA 624 Low

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-326

Pace Project No.: 60171084

Sample: 316-326		Lab ID: 60171084001	Collected: 06/10/14 06:55	Received: 06/11/14 02:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	7950 ug/L		750	2	06/12/14 17:30	06/13/14 10:41	7429-90-5	
Antimony	ND ug/L		100	2	06/12/14 17:30	06/13/14 10:41	7440-36-0	D3
Arsenic	1020 ug/L		50.0	1	06/12/14 17:30	06/13/14 10:37	7440-38-2	
Beryllium	ND ug/L		5.0	1	06/12/14 17:30	06/13/14 10:37	7440-41-7	
Cadmium	ND ug/L		25.0	1	06/12/14 17:30	06/13/14 10:37	7440-43-9	
Chromium	244 ug/L		25.0	1	06/12/14 17:30	06/13/14 10:37	7440-47-3	
Cobalt	33.3 ug/L		25.0	1	06/12/14 17:30	06/13/14 10:37	7440-48-4	
Copper	ND ug/L		50.0	1	06/12/14 17:30	06/13/14 10:37	7440-50-8	
Iron	719000 ug/L		250	1	06/12/14 17:30	06/13/14 10:37	7439-89-6	
Lead	110 ug/L		25.0	1	06/12/14 17:30	06/13/14 10:37	7439-92-1	
Nickel	115 ug/L		25.0	1	06/12/14 17:30	06/13/14 10:37	7440-02-0	
Selenium	ND ug/L		75.0	1	06/12/14 17:30	06/13/14 10:37	7782-49-2	
Silver	ND ug/L		35.0	1	06/12/14 17:30	06/13/14 10:37	7440-22-4	
Thallium	ND ug/L		100	1	06/12/14 17:30	06/13/14 10:37	7440-28-0	
Zinc	4840 ug/L		500	2	06/12/14 17:30	06/13/14 10:41	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	1280 ug/L		750	2	06/12/14 17:30	06/13/14 11:30	7429-90-5	
Antimony, Dissolved	ND ug/L		100	2	06/12/14 17:30	06/13/14 11:30	7440-36-0	D3
Arsenic, Dissolved	848 ug/L		50.0	1	06/12/14 17:30	06/13/14 11:27	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	06/12/14 17:30	06/13/14 11:27	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	06/12/14 17:30	06/13/14 11:27	7440-43-9	
Chromium, Dissolved	176 ug/L		25.0	1	06/12/14 17:30	06/13/14 11:27	7440-47-3	
Cobalt, Dissolved	ND ug/L		25.0	1	06/12/14 17:30	06/13/14 11:27	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	06/12/14 17:30	06/13/14 11:27	7440-50-8	
Iron, Dissolved	346000 ug/L		250	1	06/12/14 17:30	06/13/14 11:27	7439-89-6	
Lead, Dissolved	37.5 ug/L		25.0	1	06/12/14 17:30	06/13/14 11:27	7439-92-1	
Nickel, Dissolved	88.1 ug/L		25.0	1	06/12/14 17:30	06/13/14 11:27	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	06/12/14 17:30	06/13/14 11:27	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	06/12/14 17:30	06/13/14 11:27	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	06/12/14 17:30	06/13/14 11:27	7440-28-0	
Zinc, Dissolved	4010 ug/L		500	2	06/12/14 17:30	06/13/14 11:30	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	27.6 ug/L		6.0	1	06/16/14 17:00	06/17/14 14:01	7439-97-6	
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND ug/L		6.0	1	06/17/14 14:30	06/18/14 14:11	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	06/12/14 00:00	06/13/14 10:22	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	06/12/14 00:00	06/13/14 10:22	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	06/12/14 00:00	06/13/14 10:22	77-47-4	
Hexachloroethane	ND ug/L		1000	2	06/12/14 00:00	06/13/14 10:22	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	2	06/12/14 00:00	06/13/14 10:22	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	8490 ug/L		4000	2	06/12/14 00:00	06/13/14 10:22		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-326

Pace Project No.: 60171084

Sample: 316-326	Lab ID: 60171084001	Collected: 06/10/14 06:55	Received: 06/11/14 02:10	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	2250 ug/L		1000	2	06/12/14 00:00	06/13/14 10:22	91-20-3	
Nitrobenzene	ND ug/L		1000	2	06/12/14 00:00	06/13/14 10:22	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	06/12/14 00:00	06/13/14 10:22	87-86-5	
Phenol	10600 ug/L		1000	2	06/12/14 00:00	06/13/14 10:22	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	06/12/14 00:00	06/13/14 10:22	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	06/12/14 00:00	06/13/14 10:22	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	145 %		33-120	2	06/12/14 00:00	06/13/14 10:22	4165-60-0	S0
2-Fluorobiphenyl (S)	76 %		39-120	2	06/12/14 00:00	06/13/14 10:22	321-60-8	
Terphenyl-d14 (S)	76 %		45-120	2	06/12/14 00:00	06/13/14 10:22	1718-51-0	
Phenol-d6 (S)	31 %		11-120	2	06/12/14 00:00	06/13/14 10:22	13127-88-3	
2-Fluorophenol (S)	41 %		17-120	2	06/12/14 00:00	06/13/14 10:22	367-12-4	
2,4,6-Tribromophenol (S)	83 %		39-120	2	06/12/14 00:00	06/13/14 10:22	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	99500 ug/L		2500	250		06/11/14 17:05	67-64-1	N2
Benzene	ND ug/L		250	250		06/11/14 17:05	71-43-2	
Bromodichloromethane	ND ug/L		250	250		06/11/14 17:05	75-27-4	
Bromoform	ND ug/L		250	250		06/11/14 17:05	75-25-2	
Bromomethane	ND ug/L		1250	250		06/11/14 17:05	74-83-9	
2-Butanone (MEK)	43100 ug/L		2500	250		06/11/14 17:05	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		06/11/14 17:05	56-23-5	
Chloroethane	ND ug/L		250	250		06/11/14 17:05	75-00-3	
Chloroform	ND ug/L		250	250		06/11/14 17:05	67-66-3	
1,4-Dichlorobenzene	475 ug/L		250	250		06/11/14 17:05	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		06/11/14 17:05	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		06/11/14 17:05	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		06/11/14 17:05	156-60-5	
Ethylbenzene	ND ug/L		250	250		06/11/14 17:05	100-41-4	
Methylene chloride	ND ug/L		250	250		06/11/14 17:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		06/11/14 17:05	108-10-1	N2
1,1,2-Tetrachloroethane	ND ug/L		250	250		06/11/14 17:05	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		06/11/14 17:05	127-18-4	
Toluene	ND ug/L		250	250		06/11/14 17:05	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		06/11/14 17:05	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		06/11/14 17:05	79-00-5	
Trichloroethene	ND ug/L		250	250		06/11/14 17:05	79-01-6	
Vinyl chloride	ND ug/L		250	250		06/11/14 17:05	75-01-4	
Xylene (Total)	ND ug/L		750	250		06/11/14 17:05	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100 %		80-120	250		06/11/14 17:05	460-00-4	
Toluene-d8 (S)	97 %		80-120	250		06/11/14 17:05	2037-26-5	
1,2-Dichloroethane-d4 (S)	92 %		80-120	250		06/11/14 17:05	17060-07-0	
Preservation pH	6.0		1.0	250		06/11/14 17:05		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	672 mg/L		5.0	1		06/11/14 16:11		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-326

Pace Project No.: 60171084

Sample: 316-326		Lab ID: 60171084001	Collected: 06/10/14 06:55	Received: 06/11/14 02:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	5.4 mg/L		5.0	1		06/11/14 16:23		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	3820 mg/L		5.0	1		06/13/14 14:43		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.4 Std. Units		0.10	1		06/14/14 13:20		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	32800 mg/L		2.0	1	06/11/14 16:27	06/16/14 11:38		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	572 mg/L		20.0	200		06/11/14 12:28	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	41200 mg/L		5000	500		06/18/14 10:26		M1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-326

Pace Project No.: 60171084

Sample: TRIP BLANK		Lab ID: 60171084002	Collected: 06/10/14 06:55	Received: 06/11/14 02:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		06/11/14 15:48	67-64-1	N2
Benzene	ND ug/L		1.0	1		06/11/14 15:48	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		06/11/14 15:48	75-27-4	
Bromoform	ND ug/L		1.0	1		06/11/14 15:48	75-25-2	
Bromomethane	ND ug/L		5.0	1		06/11/14 15:48	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/11/14 15:48	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		06/11/14 15:48	56-23-5	
Chloroethane	ND ug/L		1.0	1		06/11/14 15:48	75-00-3	
Chloroform	ND ug/L		1.0	1		06/11/14 15:48	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		06/11/14 15:48	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		06/11/14 15:48	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		06/11/14 15:48	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		06/11/14 15:48	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		06/11/14 15:48	100-41-4	
Methylene chloride	ND ug/L		1.0	1		06/11/14 15:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/11/14 15:48	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		06/11/14 15:48	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		06/11/14 15:48	127-18-4	
Toluene	ND ug/L		1.0	1		06/11/14 15:48	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		06/11/14 15:48	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		06/11/14 15:48	79-00-5	
Trichloroethene	ND ug/L		1.0	1		06/11/14 15:48	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		06/11/14 15:48	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		06/11/14 15:48	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	99 %		80-120	1		06/11/14 15:48	460-00-4	
Toluene-d8 (S)	97 %		80-120	1		06/11/14 15:48	2037-26-5	
1,2-Dichloroethane-d4 (S)	92 %		80-120	1		06/11/14 15:48	17060-07-0	
Preservation pH	6.0		1.0	1		06/11/14 15:48		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-326

Pace Project No.: 60171084

QC Batch:	MERP/8489	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
Associated Lab Samples:	60171084001		

METHOD BLANK: 1395325 Matrix: Water
Associated Lab Samples: 60171084001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	06/17/14 13:03	

LABORATORY CONTROL SAMPLE: 1395326

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.8	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1395327 1395328

Parameter	Units	60170532001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD
Mercury	ug/L	ND	5	5	4.6	4.8	93	97	70-130	4	20

MATRIX SPIKE SAMPLE: 1395329

Parameter	Units	60170532002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	4.8	95	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-326

Pace Project No.: 60171084

QC Batch:	MERP/8492	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury - Dissolved
Associated Lab Samples:	60171084001		

METHOD BLANK: 1395637 Matrix: Water
Associated Lab Samples: 60171084001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	06/18/14 14:07	

LABORATORY CONTROL SAMPLE: 1395638

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.3	86	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1395639 1395640

Parameter	Units	60171084001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits		
Mercury, Dissolved	ug/L	ND	150	150	124	129	83	86	70-130	4	20

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-326

Pace Project No.: 60171084

QC Batch:	MPRP/27615	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
Associated Lab Samples:	60171084001		

METHOD BLANK: 1393239 Matrix: Water

Associated Lab Samples: 60171084001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	06/13/14 10:20	
Antimony	ug/L	ND	10.0	06/13/14 10:20	
Arsenic	ug/L	ND	10.0	06/13/14 10:20	
Beryllium	ug/L	ND	1.0	06/13/14 10:20	
Cadmium	ug/L	ND	5.0	06/13/14 10:20	
Chromium	ug/L	ND	5.0	06/13/14 10:20	
Cobalt	ug/L	ND	5.0	06/13/14 10:20	
Copper	ug/L	ND	10.0	06/13/14 10:20	
Iron	ug/L	ND	50.0	06/13/14 10:20	
Lead	ug/L	ND	5.0	06/13/14 10:20	
Nickel	ug/L	ND	5.0	06/13/14 10:20	
Selenium	ug/L	ND	15.0	06/13/14 10:20	
Silver	ug/L	ND	7.0	06/13/14 10:20	
Thallium	ug/L	ND	20.0	06/13/14 10:20	
Zinc	ug/L	ND	50.0	06/13/14 10:20	

LABORATORY CONTROL SAMPLE: 1393240

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10100	101	85-115	
Antimony	ug/L	1000	1010	101	85-115	
Arsenic	ug/L	1000	973	97	85-115	
Beryllium	ug/L	1000	1010	101	85-115	
Cadmium	ug/L	1000	1000	100	85-115	
Chromium	ug/L	1000	989	99	85-115	
Cobalt	ug/L	1000	1020	102	85-115	
Copper	ug/L	1000	1020	102	85-115	
Iron	ug/L	10000	10100	101	85-115	
Lead	ug/L	1000	997	100	85-115	
Nickel	ug/L	1000	1020	102	85-115	
Selenium	ug/L	1000	992	99	85-115	
Silver	ug/L	500	482	96	85-115	
Thallium	ug/L	1000	1020	102	85-115	
Zinc	ug/L	1000	985	98	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-326

Pace Project No.: 60171084

Parameter	Units	60171084001		1393241		1393242		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Aluminum	ug/L	7950	50000	50000	63000	64000	110	112	70-130	2	8		
Antimony	ug/L	ND	5000	5000	5230	5340	103	105	70-130	2	7		
Arsenic	ug/L	1020	5000	5000	6420	6560	108	111	70-130	2	10		
Beryllium	ug/L	ND	5000	5000	4810	4880	96	98	70-130	1	7		
Cadmium	ug/L	ND	5000	5000	5230	5300	105	106	70-130	1	10		
Chromium	ug/L	244	5000	5000	5000	5040	95	96	70-130	1	10		
Cobalt	ug/L	33.3	5000	5000	4880	4930	97	98	70-130	1	6		
Copper	ug/L	ND	5000	5000	5200	5240	103	104	70-130	1	11		
Iron	ug/L	719000	50000	50000	766000	780000	95	122	70-130	2	10		
Lead	ug/L	110	5000	5000	4470	4540	87	89	70-130	1	10		
Nickel	ug/L	115	5000	5000	4870	4940	95	97	70-130	1	10		
Selenium	ug/L	ND	5000	5000	5740	5860	114	117	70-130	2	10		
Silver	ug/L	ND	2500	2500	2540	2570	101	102	70-130	1	10		
Thallium	ug/L	ND	5000	5000	4260	4310	85	86	70-130	1	6		
Zinc	ug/L	4840	5000	5000	9390	9470	91	93	70-130	1	11		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-326

Pace Project No.: 60171084

QC Batch: MPRP/27616

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Dissolved

Associated Lab Samples: 60171084001

METHOD BLANK: 1393249

Matrix: Water

Associated Lab Samples: 60171084001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	06/13/14 11:23	
Antimony, Dissolved	ug/L	ND	10.0	06/13/14 11:23	
Arsenic, Dissolved	ug/L	ND	10.0	06/13/14 11:23	
Beryllium, Dissolved	ug/L	ND	1.0	06/13/14 11:23	
Cadmium, Dissolved	ug/L	ND	5.0	06/13/14 11:23	
Chromium, Dissolved	ug/L	ND	5.0	06/13/14 11:23	
Cobalt, Dissolved	ug/L	ND	5.0	06/13/14 11:23	
Copper, Dissolved	ug/L	ND	10.0	06/13/14 11:23	
Iron, Dissolved	ug/L	ND	50.0	06/13/14 11:23	
Lead, Dissolved	ug/L	ND	5.0	06/13/14 11:23	
Nickel, Dissolved	ug/L	ND	5.0	06/13/14 11:23	
Selenium, Dissolved	ug/L	ND	15.0	06/13/14 11:23	
Silver, Dissolved	ug/L	ND	7.0	06/13/14 11:23	
Thallium, Dissolved	ug/L	ND	20.0	06/13/14 11:23	
Zinc, Dissolved	ug/L	ND	50.0	06/13/14 11:23	

LABORATORY CONTROL SAMPLE: 1393250

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10200	102	85-115	
Antimony, Dissolved	ug/L	1000	1050	105	85-115	
Arsenic, Dissolved	ug/L	1000	1000	100	85-115	
Beryllium, Dissolved	ug/L	1000	1010	101	85-115	
Cadmium, Dissolved	ug/L	1000	1020	102	85-115	
Chromium, Dissolved	ug/L	1000	984	98	85-115	
Cobalt, Dissolved	ug/L	1000	1040	104	85-115	
Copper, Dissolved	ug/L	1000	1050	105	85-115	
Iron, Dissolved	ug/L	10000	10200	102	85-115	
Lead, Dissolved	ug/L	1000	975	97	85-115	
Nickel, Dissolved	ug/L	1000	1020	102	85-115	
Selenium, Dissolved	ug/L	1000	1000	100	85-115	
Silver, Dissolved	ug/L	500	469	94	85-115	
Thallium, Dissolved	ug/L	1000	1040	104	85-115	
Zinc, Dissolved	ug/L	1000	960	96	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-326

Pace Project No.: 60171084

Parameter	Units	60171084001		1393251		1393252		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Aluminum, Dissolved	ug/L	1280	50000	50000	52200	52500	102	102	70-130	1	8		
Antimony, Dissolved	ug/L	ND	5000	5000	5440	5500	108	109	70-130	1	7		
Arsenic, Dissolved	ug/L	848	5000	5000	6380	6390	111	111	70-130	0	10		
Beryllium, Dissolved	ug/L	ND	5000	5000	4840	4880	97	98	70-130	1	7		
Cadmium, Dissolved	ug/L	ND	5000	5000	5320	5350	106	107	70-130	0	10		
Chromium, Dissolved	ug/L	176	5000	5000	5080	5070	98	98	70-130	0	10		
Cobalt, Dissolved	ug/L	ND	5000	5000	5020	5060	100	101	70-130	1	6		
Copper, Dissolved	ug/L	ND	5000	5000	5340	5400	106	108	70-130	1	11		
Iron, Dissolved	ug/L	346000	50000	50000	399000	386000	106	81	70-130	3	10		
Lead, Dissolved	ug/L	37.5	5000	5000	4380	4370	87	87	70-130	0	10		
Nickel, Dissolved	ug/L	88.1	5000	5000	4900	4920	96	97	70-130	0	10		
Selenium, Dissolved	ug/L	ND	5000	5000	5740	5740	114	114	70-130	0	10		
Silver, Dissolved	ug/L	ND	2500	2500	2490	2480	99	99	70-130	1	10		
Thallium, Dissolved	ug/L	ND	5000	5000	4430	4470	89	89	70-130	1	6		
Zinc, Dissolved	ug/L	4010	5000	5000	8610	8420	92	88	70-130	2	11		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-326

Pace Project No.: 60171084

QC Batch: MSV/62196 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60171084001, 60171084002

METHOD BLANK: 1391793 Matrix: Water

Associated Lab Samples: 60171084001, 60171084002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/11/14 12:26	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/11/14 12:26	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	06/11/14 12:26	
1,2-Dichloroethane	ug/L	ND	1.0	06/11/14 12:26	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/11/14 12:26	
2-Butanone (MEK)	ug/L	ND	10.0	06/11/14 12:26	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/11/14 12:26	N2
Acetone	ug/L	ND	10.0	06/11/14 12:26	N2
Benzene	ug/L	ND	1.0	06/11/14 12:26	
Bromodichloromethane	ug/L	ND	1.0	06/11/14 12:26	
Bromoform	ug/L	ND	1.0	06/11/14 12:26	
Bromomethane	ug/L	ND	5.0	06/11/14 12:26	
Carbon tetrachloride	ug/L	ND	1.0	06/11/14 12:26	
Chloroethane	ug/L	ND	1.0	06/11/14 12:26	
Chloroform	ug/L	ND	1.0	06/11/14 12:26	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/11/14 12:26	N2
Ethylbenzene	ug/L	ND	1.0	06/11/14 12:26	
Methylene chloride	ug/L	ND	1.0	06/11/14 12:26	
Tetrachloroethene	ug/L	ND	1.0	06/11/14 12:26	
Toluene	ug/L	ND	1.0	06/11/14 12:26	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/11/14 12:26	
Trichloroethene	ug/L	ND	1.0	06/11/14 12:26	
Vinyl chloride	ug/L	ND	1.0	06/11/14 12:26	
Xylene (Total)	ug/L	ND	3.0	06/11/14 12:26	N2
1,2-Dichloroethane-d4 (S)	%	94	80-120	06/11/14 12:26	
4-Bromofluorobenzene (S)	%	99	80-120	06/11/14 12:26	
Toluene-d8 (S)	%	95	80-120	06/11/14 12:26	

LABORATORY CONTROL SAMPLE: 1391794

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.6	93	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	21.2	106	67-127	N2
1,1,2-Trichloroethane	ug/L	20	20.0	100	67-124	
1,2-Dichloroethane	ug/L	20	18.8	94	70-126	
1,4-Dichlorobenzene	ug/L	20	18.9	94	74-120	
2-Butanone (MEK)	ug/L	100	105	105	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	113	113	59-131	N2
Acetone	ug/L	100	103	103	38-134	N2
Benzene	ug/L	20	19.3	96	75-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-326

Pace Project No.: 60171084

LABORATORY CONTROL SAMPLE: 1391794

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	20	19.6	98	68-125	
Bromoform	ug/L	20	20.1	100	65-127	
Bromomethane	ug/L	20	14.6	73	13-157	
Carbon tetrachloride	ug/L	20	18.1	91	70-131	
Chloroethane	ug/L	20	19.7	99	47-133	
Chloroform	ug/L	20	18.7	93	65-127	
cis-1,2-Dichloroethene	ug/L	20	19.8	99	68-127	N2
Ethylbenzene	ug/L	20	18.3	92	74-122	
Methylene chloride	ug/L	20	18.8	94	64-129	
Tetrachloroethene	ug/L	20	19.4	97	73-125	
Toluene	ug/L	20	18.2	91	69-126	
trans-1,2-Dichloroethene	ug/L	20	18.0	90	66-129	
Trichloroethene	ug/L	20	18.1	91	71-123	
Vinyl chloride	ug/L	20	19.5	97	43-129	
Xylene (Total)	ug/L	60	57.0	95	75-121	N2
1,2-Dichloroethane-d4 (S)	%			99	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			98	80-120	

MATRIX SPIKE SAMPLE: 1391795

Parameter	Units	60170941001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L		ND	5000	4540	91	52-155
1,1,2,2-Tetrachloroethane	ug/L		ND	5000	4990	98	46-146 N2
1,1,2-Trichloroethane	ug/L		ND	5000	4750	95	52-143
1,2-Dichloroethane	ug/L		ND	5000	4220	84	49-144
1,4-Dichlorobenzene	ug/L		ND	5000	4750	93	33-140
2-Butanone (MEK)	ug/L	43000	25000	64500	86	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L		ND	25000	25000	98	40-160 N2
Acetone	ug/L	102000	25000	119000	68	10-160	N2
Benzene	ug/L		ND	5000	4490	90	37-151
Bromodichloromethane	ug/L		ND	5000	4490	90	35-142
Bromoform	ug/L		ND	5000	4600	92	45-142
Bromomethane	ug/L		ND	5000	2820	56	10-158
Carbon tetrachloride	ug/L		ND	5000	4650	93	70-140
Chloroethane	ug/L		ND	5000	3690	74	19-152
Chloroform	ug/L		ND	5000	4400	88	51-138
cis-1,2-Dichloroethene	ug/L		ND	5000	4600	92	34-147 N2
Ethylbenzene	ug/L		ND	5000	4800	96	40-142
Methylene chloride	ug/L		ND	5000	4310	82	31-144
Tetrachloroethene	ug/L		ND	5000	5060	101	64-148
Toluene	ug/L		ND	5000	4360	87	47-150
trans-1,2-Dichloroethene	ug/L		ND	5000	4350	87	54-151
Trichloroethene	ug/L		ND	5000	4430	89	71-149
Vinyl chloride	ug/L		ND	5000	3180	64	22-146

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-326

Pace Project No.: 60171084

MATRIX SPIKE SAMPLE:		1391795		60170941001		Spike		MS		MS		% Rec			
Parameter	Units	Result	Conc.	Result	% Rec	Result	% Rec	Limits	Qualifiers						
Xylene (Total)	ug/L	ND	15000	14200	94	37-144	N2								
1,2-Dichloroethane-d4 (S)	%				93	80-120									
4-Bromofluorobenzene (S)	%				103	80-120	HS								
Toluene-d8 (S)	%				94	80-120									
Preservation pH		6.0		6.0											

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-326

Pace Project No.: 60171084

QC Batch:	OEXT/44615	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60171084001		

METHOD BLANK: 1392788 Matrix: Water

Associated Lab Samples: 60171084001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/13/14 08:15	
2,4,6-Trichlorophenol	ug/L	ND	5.0	06/13/14 08:15	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	06/13/14 08:15	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	06/13/14 08:15	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	06/13/14 08:15	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/13/14 08:15	
Hexachlorocyclopentadiene	ug/L	ND	5.0	06/13/14 08:15	
Hexachloroethane	ug/L	ND	5.0	06/13/14 08:15	
Naphthalene	ug/L	ND	5.0	06/13/14 08:15	
Nitrobenzene	ug/L	ND	5.0	06/13/14 08:15	
Pentachlorophenol	ug/L	ND	5.0	06/13/14 08:15	
Phenol	ug/L	ND	5.0	06/13/14 08:15	
2,4,6-Tribromophenol (S)	%	98	39-120	06/13/14 08:15	
2-Fluorobiphenyl (S)	%	89	39-120	06/13/14 08:15	
2-Fluorophenol (S)	%	47	17-120	06/13/14 08:15	
Nitrobenzene-d5 (S)	%	90	33-120	06/13/14 08:15	
Phenol-d6 (S)	%	29	11-120	06/13/14 08:15	
Terphenyl-d14 (S)	%	92	45-120	06/13/14 08:15	

LABORATORY CONTROL SAMPLE: 1392789

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	43.0	86	46-120	
2,4,6-Trichlorophenol	ug/L	50	48.2	96	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	36.1	72	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	34.1	68	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	53.1	106	40-133	
Hexachloro-1,3-butadiene	ug/L	50	42.7	85	44-116	
Hexachlorocyclopentadiene	ug/L	100	80.3	80	24-120	
Hexachloroethane	ug/L	50	43.1	86	43-113	
Naphthalene	ug/L	50	45.2	90	48-120	
Nitrobenzene	ug/L	50	47.0	94	48-120	
Pentachlorophenol	ug/L	50	50.5	101	47-120	
Phenol	ug/L	50	16.3	33	16-112	
2,4,6-Tribromophenol (S)	%			107	39-120	
2-Fluorobiphenyl (S)	%			95	39-120	
2-Fluorophenol (S)	%			50	17-120	
Nitrobenzene-d5 (S)	%			95	33-120	
Phenol-d6 (S)	%			33	11-120	
Terphenyl-d14 (S)	%			98	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-326

Pace Project No.: 60171084

MATRIX SPIKE SAMPLE:	1392790	60170941001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3420	68	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4070	81	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	5000	3910	78	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	7790	5000	13000	104	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	4180J	84	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3430	69	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	6560	66	11-120	
Hexachloroethane	ug/L	ND	5000	3620	72	40-113	
Naphthalene	ug/L	ND	5000	4540	74	45-120	
Nitrobenzene	ug/L	ND	5000	4060	81	38-120	
Pentachlorophenol	ug/L	ND	5000	4520	90	43-135	
Phenol	ug/L	10600	5000	15800	105	13-112	
2,4,6-Tribromophenol (S)	%				90	39-120	
2-Fluorobiphenyl (S)	%				77	39-120	
2-Fluorophenol (S)	%				54	17-120	
Nitrobenzene-d5 (S)	%				157	33-120	SO
Phenol-d6 (S)	%				38	11-120	
Terphenyl-d14 (S)	%				76	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-326

Pace Project No.: 60171084

QC Batch:	WET/48381	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60171084001		

METHOD BLANK: 1392599 Matrix: Water
Associated Lab Samples: 60171084001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	06/11/14 16:05	

LABORATORY CONTROL SAMPLE: 1392600

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	34.7	87	78-114	

MATRIX SPIKE SAMPLE: 1392601

Parameter	Units	60170811001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	46.5	41.4	86	78-114	

SAMPLE DUPLICATE: 1392602

Parameter	Units	60170812001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	1.8J		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-326

Pace Project No.: 60171084

QC Batch:	WET/48382	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60171084001		

METHOD BLANK: 1392604 Matrix: Water
Associated Lab Samples: 60171084001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	06/11/14 16:21	

LABORATORY CONTROL SAMPLE: 1392605

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	22.8	114	64-132	

MATRIX SPIKE SAMPLE: 1392606

Parameter	Units	60170811001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	23.3	14.8	58	64-132	M1

SAMPLE DUPLICATE: 1392607

Parameter	Units	60170812001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	ND		34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-326

Pace Project No.: 60171084

QC Batch: WET/48435

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60171084001

METHOD BLANK: 1393845

Matrix: Water

Associated Lab Samples: 60171084001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	06/13/14 14:38	

SAMPLE DUPLICATE: 1393846

Parameter	Units	60171014001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	13.0		10	

SAMPLE DUPLICATE: 1393847

Parameter	Units	60171009003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	108	111	3	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-326

Pace Project No.: 60171084

QC Batch: WET/48446 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60171084001

SAMPLE DUPLICATE: 1394341

Parameter	Units	60171072002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	9.0	9.0	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-326

Pace Project No.: 60171084

QC Batch: WET/48380

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60171084001

METHOD BLANK: 1392572

Matrix: Water

Associated Lab Samples: 60171084001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	06/16/14 11:26	

LABORATORY CONTROL SAMPLE: 1392573

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	185	93	85-115	

SAMPLE DUPLICATE: 1392574

Parameter	Units	60171087001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	13.9	13.2	5	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-326

Pace Project No.: 60171084

QC Batch:	WETA/29788	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60171084001		

METHOD BLANK: 1392071 Matrix: Water
Associated Lab Samples: 60171084001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	06/11/14 11:37	

LABORATORY CONTROL SAMPLE: 1392072

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	105	90-110	

MATRIX SPIKE SAMPLE: 1392073

Parameter	Units	60170948002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.9	95	90-110	

MATRIX SPIKE SAMPLE: 1392074

Parameter	Units	60170957002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	6.0	10	15.5	95	90-110	

SAMPLE DUPLICATE: 1392075

Parameter	Units	60170988001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-326

Pace Project No.: 60171084

QC Batch:	WETA/29865	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60171084001		

METHOD BLANK: 1395936 Matrix: Water
Associated Lab Samples: 60171084001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	06/18/14 10:23	

LABORATORY CONTROL SAMPLE: 1395937

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	45.5	91	90-110	

MATRIX SPIKE SAMPLE: 1395938

Parameter	Units	60171084001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	41200	25000	69100	112	90-110	M1

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QUALIFIERS

Project: BRIDGETON LF 316-326

Pace Project No.: 60171084

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.

PQL - Practical Quantitation 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.

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

- | | |
|----|-------------------------------------------------------------------------------------------------------------|
| D3 | Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference. |
| H6 | Analysis initiated outside of the 15 minute EPA recommended holding time. |
| HS | Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter). |
| M1 | Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery. |
| N2 | The lab does not hold TNI accreditation for this parameter. |
| S0 | Surrogate recovery outside laboratory control limits. |

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-326

Pace Project No.: 60171084

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60171084001	316-326	EPA 200.7	MPRP/27615	EPA 200.7	ICP/20878
60171084001	316-326	EPA 200.7	MPRP/27616	EPA 200.7	ICP/20877
60171084001	316-326	EPA 245.1	MERP/8489	EPA 245.1	MERC/8442
60171084001	316-326	EPA 245.1	MERP/8492	EPA 245.1	MERC/8446
60171084001	316-326	EPA 625	OEXT/44615	EPA 625	MSSV/14284
60171084001	316-326	EPA 624 Low	MSV/62196		
60171084002	TRIP BLANK	EPA 624 Low	MSV/62196		
60171084001	316-326	EPA 1664A	WET/48381		
60171084001	316-326	EPA 1664A	WET/48382		
60171084001	316-326	SM 2540D	WET/48435		
60171084001	316-326	SM 4500-H+B	WET/48446		
60171084001	316-326	SM 5210B	WET/48380	SM 5210B	WET/48480
60171084001	316-326	EPA 350.1	WETA/29788		
60171084001	316-326	EPA 410.4	WETA/29865		

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Sample Condition Upon Receipt

WO#: 60171084



Client Name: Barr Engineering

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: _____ Pace Shipping Label Used? Yes No

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other ZPLC

Thermometer Used: T-239 T-194

Type of Ice: Wet Blue None Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 3.0

Date and initials of person examining contents: Att 6/11

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>att 6/11</u> <u>CO2, pH, BOD</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<u>COC does not match labels on samples</u>
Includes date/time/ID/analyses Matrix: <u>WT</u>		13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>Added 2mL H₂SO₄ to BP3S, initial pH 4.5 final 3.5</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<u>Sample BP3N initial pH 5.5, added 2.5mL HNO₃ for a final pH 4.5</u>
Exceptions: <u>VOA</u> , coliform, TOC <u>O&G</u> , VI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed <u>Att</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Lot # of added preservative <u>12502-2-7</u> <u>12513-23-2</u>
Pace Trip Blank lot # (if purchased): <u>040714-3BF2</u>		15.
Headspace in VOA vials (>6mm):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>1 vial VOA has headspace</u> <u>none</u>
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <u>MO</u>

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: Att

June 19, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-327
Pace Project No.: 60171209

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 12, 2014. 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,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Bill Abernathy, Feezor Engineering
Kelly Caddy, Barr Engineering
DAN FEEZOR, FEEZOR ENGINEERING
Dana B. Pasi, Barr Engineering Co.
Brian Power, Republic Services
Brian Sehie, Republic Services
Margaret Treanor, Barr Engineering Company



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CERTIFICATIONS

Project: BRIDGETON LF 316-327

Pace Project No.: 60171209

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-13-4

Utah Certification #: KS000212013-3

Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-327

Pace Project No.: 60171209

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60171209001	316-327	Water	06/11/14 11:47	06/12/14 01:50
60171209002	TRIP BLANK	Water	06/11/14 11:47	06/12/14 01:50

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-327

Pace Project No.: 60171209

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60171209001	316-327	EPA 200.7	JGP	15
		EPA 200.7	JGP	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	CRT	1
		EPA 1664A	CRT	1
		SM 2540D	ESM	1
		SM 4500-H+B	NDL	1
		SM 5210B	NDL	1
		EPA 350.1	JML	1
		EPA 410.4	JMC1	1
		60171209002	TRIP BLANK	EPA 624 Low

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-327

Pace Project No.: 60171209

Sample: 316-327		Lab ID: 60171209001	Collected: 06/11/14 11:47	Received: 06/12/14 01:50	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	6090 ug/L		750	2	06/12/14 17:30	06/13/14 11:09	7429-90-5	
Antimony	ND ug/L		100	2	06/12/14 17:30	06/13/14 11:09	7440-36-0	D3
Arsenic	1060 ug/L		50.0	1	06/12/14 17:30	06/13/14 11:06	7440-38-2	
Beryllium	ND ug/L		5.0	1	06/12/14 17:30	06/13/14 11:06	7440-41-7	
Cadmium	ND ug/L		25.0	1	06/12/14 17:30	06/13/14 11:06	7440-43-9	
Chromium	236 ug/L		25.0	1	06/12/14 17:30	06/13/14 11:06	7440-47-3	
Cobalt	32.6 ug/L		25.0	1	06/12/14 17:30	06/13/14 11:06	7440-48-4	
Copper	ND ug/L		50.0	1	06/12/14 17:30	06/13/14 11:06	7440-50-8	
Iron	672000 ug/L		250	1	06/12/14 17:30	06/13/14 11:06	7439-89-6	
Lead	98.9 ug/L		25.0	1	06/12/14 17:30	06/13/14 11:06	7439-92-1	
Nickel	112 ug/L		25.0	1	06/12/14 17:30	06/13/14 11:06	7440-02-0	
Selenium	ND ug/L		75.0	1	06/12/14 17:30	06/13/14 11:06	7782-49-2	
Silver	ND ug/L		35.0	1	06/12/14 17:30	06/13/14 11:06	7440-22-4	
Thallium	ND ug/L		100	1	06/12/14 17:30	06/13/14 11:06	7440-28-0	
Zinc	4410 ug/L		500	2	06/12/14 17:30	06/13/14 11:09	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	1100 ug/L		750	2	06/18/14 09:30	06/18/14 14:48	7429-90-5	
Antimony, Dissolved	ND ug/L		100	2	06/18/14 09:30	06/18/14 14:48	7440-36-0	D3
Arsenic, Dissolved	708 ug/L		50.0	1	06/18/14 09:30	06/18/14 14:44	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	06/18/14 09:30	06/18/14 14:44	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	06/18/14 09:30	06/18/14 14:44	7440-43-9	
Chromium, Dissolved	144 ug/L		25.0	1	06/18/14 09:30	06/18/14 14:44	7440-47-3	
Cobalt, Dissolved	ND ug/L		25.0	1	06/18/14 09:30	06/18/14 14:44	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	06/18/14 09:30	06/18/14 14:44	7440-50-8	
Iron, Dissolved	270000 ug/L		250	1	06/18/14 09:30	06/18/14 14:44	7439-89-6	M1, R1
Lead, Dissolved	30.9 ug/L		25.0	1	06/18/14 09:30	06/18/14 14:44	7439-92-1	
Nickel, Dissolved	71.0 ug/L		25.0	1	06/18/14 09:30	06/18/14 14:44	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	06/18/14 09:30	06/18/14 14:44	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	06/18/14 09:30	06/18/14 14:44	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	06/18/14 09:30	06/18/14 14:44	7440-28-0	
Zinc, Dissolved	3220 ug/L		500	2	06/18/14 09:30	06/18/14 14:48	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	19.2 ug/L		6.0	1	06/18/14 17:00	06/19/14 13:45	7439-97-6	
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND ug/L		6.0	1	06/17/14 14:30	06/18/14 14:18	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	06/13/14 00:00	06/17/14 21:06	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	06/13/14 00:00	06/17/14 21:06	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	06/13/14 00:00	06/17/14 21:06	77-47-4	
Hexachloroethane	ND ug/L		1000	2	06/13/14 00:00	06/17/14 21:06	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	2	06/13/14 00:00	06/17/14 21:06	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	7010 ug/L		4000	2	06/13/14 00:00	06/17/14 21:06		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-327

Pace Project No.: 60171209

Sample: 316-327		Lab ID: 60171209001	Collected: 06/11/14 11:47	Received: 06/12/14 01:50	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	1510 ug/L		1000	2	06/13/14 00:00	06/17/14 21:06	91-20-3	
Nitrobenzene	ND ug/L		1000	2	06/13/14 00:00	06/17/14 21:06	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	06/13/14 00:00	06/17/14 21:06	87-86-5	
Phenol	9800 ug/L		1000	2	06/13/14 00:00	06/17/14 21:06	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	06/13/14 00:00	06/17/14 21:06	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	06/13/14 00:00	06/17/14 21:06	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	147 %		33-120	2	06/13/14 00:00	06/17/14 21:06	4165-60-0	S0
2-Fluorobiphenyl (S)	80 %		39-120	2	06/13/14 00:00	06/17/14 21:06	321-60-8	
Terphenyl-d14 (S)	73 %		45-120	2	06/13/14 00:00	06/17/14 21:06	1718-51-0	
Phenol-d6 (S)	33 %		11-120	2	06/13/14 00:00	06/17/14 21:06	13127-88-3	
2-Fluorophenol (S)	51 %		17-120	2	06/13/14 00:00	06/17/14 21:06	367-12-4	
2,4,6-Tribromophenol (S)	87 %		39-120	2	06/13/14 00:00	06/17/14 21:06	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	106000 ug/L		2500	250		06/17/14 16:32	67-64-1	N2
Benzene	ND ug/L		250	250		06/17/14 16:32	71-43-2	
Bromodichloromethane	ND ug/L		250	250		06/17/14 16:32	75-27-4	
Bromoform	ND ug/L		250	250		06/17/14 16:32	75-25-2	
Bromomethane	ND ug/L		1250	250		06/17/14 16:32	74-83-9	
2-Butanone (MEK)	45700 ug/L		2500	250		06/17/14 16:32	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		06/17/14 16:32	56-23-5	
Chloroethane	ND ug/L		250	250		06/17/14 16:32	75-00-3	
Chloroform	ND ug/L		250	250		06/17/14 16:32	67-66-3	
1,4-Dichlorobenzene	283 ug/L		250	250		06/17/14 16:32	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		06/17/14 16:32	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		06/17/14 16:32	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		06/17/14 16:32	156-60-5	
Ethylbenzene	ND ug/L		250	250		06/17/14 16:32	100-41-4	
Methylene chloride	ND ug/L		250	250		06/17/14 16:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		06/17/14 16:32	108-10-1	N2
1,1,2-Tetrachloroethane	ND ug/L		250	250		06/17/14 16:32	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		06/17/14 16:32	127-18-4	
Toluene	ND ug/L		250	250		06/17/14 16:32	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		06/17/14 16:32	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		06/17/14 16:32	79-00-5	
Trichloroethene	ND ug/L		250	250		06/17/14 16:32	79-01-6	
Vinyl chloride	ND ug/L		250	250		06/17/14 16:32	75-01-4	
Xylene (Total)	ND ug/L		750	250		06/17/14 16:32	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	103 %		80-120	250		06/17/14 16:32	460-00-4	
Toluene-d8 (S)	97 %		80-120	250		06/17/14 16:32	2037-26-5	
1,2-Dichloroethane-d4 (S)	97 %		80-120	250		06/17/14 16:32	17060-07-0	
Preservation pH	6.0		1.0	250		06/17/14 16:32		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	606 mg/L		5.0	1		06/17/14 14:50		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-327

Pace Project No.: 60171209

Sample: 316-327		Lab ID: 60171209001	Collected: 06/11/14 11:47	Received: 06/12/14 01:50	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	10	mg/L	5.0	1		06/17/14 16:03		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	4040	mg/L	5.0	1		06/16/14 13:41		D6
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.4	Std. Units	0.10	1		06/16/14 13:10		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	29000	mg/L	2.0	1	06/13/14 09:51	06/18/14 15:14		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	627	mg/L	20.0	200		06/18/14 12:13	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	40700	mg/L	5000	500		06/19/14 09:52		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-327

Pace Project No.: 60171209

Sample: TRIP BLANK		Lab ID: 60171209002	Collected: 06/11/14 11:47	Received: 06/12/14 01:50	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		06/17/14 15:58	67-64-1	N2
Benzene	ND ug/L		1.0	1		06/17/14 15:58	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		06/17/14 15:58	75-27-4	
Bromoform	ND ug/L		1.0	1		06/17/14 15:58	75-25-2	
Bromomethane	ND ug/L		5.0	1		06/17/14 15:58	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/17/14 15:58	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		06/17/14 15:58	56-23-5	
Chloroethane	ND ug/L		1.0	1		06/17/14 15:58	75-00-3	
Chloroform	ND ug/L		1.0	1		06/17/14 15:58	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		06/17/14 15:58	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		06/17/14 15:58	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		06/17/14 15:58	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		06/17/14 15:58	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		06/17/14 15:58	100-41-4	
Methylene chloride	ND ug/L		1.0	1		06/17/14 15:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/17/14 15:58	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		06/17/14 15:58	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		06/17/14 15:58	127-18-4	
Toluene	ND ug/L		1.0	1		06/17/14 15:58	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		06/17/14 15:58	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		06/17/14 15:58	79-00-5	
Trichloroethene	ND ug/L		1.0	1		06/17/14 15:58	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		06/17/14 15:58	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		06/17/14 15:58	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100 %		80-120	1		06/17/14 15:58	460-00-4	
Toluene-d8 (S)	95 %		80-120	1		06/17/14 15:58	2037-26-5	
1,2-Dichloroethane-d4 (S)	96 %		80-120	1		06/17/14 15:58	17060-07-0	
Preservation pH	6.0		1.0	1		06/17/14 15:58		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-327

Pace Project No.: 60171209

QC Batch: MERP/8499

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60171209001

METHOD BLANK: 1396856

Matrix: Water

Associated Lab Samples: 60171209001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	06/19/14 13:41	

LABORATORY CONTROL SAMPLE: 1396857

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1396858 1396859

Parameter	Units	60171209001		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
Mercury	ug/L	19.2	150	150	150	158	149	93	86	70-130	6	20			

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-327

Pace Project No.: 60171209

QC Batch:	MERP/8492	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury - Dissolved
Associated Lab Samples:	60171209001		

METHOD BLANK: 1395637 Matrix: Water
Associated Lab Samples: 60171209001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	06/18/14 14:07	

LABORATORY CONTROL SAMPLE: 1395638

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.3	86	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1395639 1395640

Parameter	Units	60171084001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits		
Mercury, Dissolved	ug/L	ND	150	150	124	129	83	86	70-130	4	20

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-327

Pace Project No.: 60171209

QC Batch:	MPRP/27615	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
Associated Lab Samples:	60171209001		

METHOD BLANK: 1393239 Matrix: Water

Associated Lab Samples: 60171209001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	06/13/14 10:20	
Antimony	ug/L	ND	10.0	06/13/14 10:20	
Arsenic	ug/L	ND	10.0	06/13/14 10:20	
Beryllium	ug/L	ND	1.0	06/13/14 10:20	
Cadmium	ug/L	ND	5.0	06/13/14 10:20	
Chromium	ug/L	ND	5.0	06/13/14 10:20	
Cobalt	ug/L	ND	5.0	06/13/14 10:20	
Copper	ug/L	ND	10.0	06/13/14 10:20	
Iron	ug/L	ND	50.0	06/13/14 10:20	
Lead	ug/L	ND	5.0	06/13/14 10:20	
Nickel	ug/L	ND	5.0	06/13/14 10:20	
Selenium	ug/L	ND	15.0	06/13/14 10:20	
Silver	ug/L	ND	7.0	06/13/14 10:20	
Thallium	ug/L	ND	20.0	06/13/14 10:20	
Zinc	ug/L	ND	50.0	06/13/14 10:20	

LABORATORY CONTROL SAMPLE: 1393240

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10100	101	85-115	
Antimony	ug/L	1000	1010	101	85-115	
Arsenic	ug/L	1000	973	97	85-115	
Beryllium	ug/L	1000	1010	101	85-115	
Cadmium	ug/L	1000	1000	100	85-115	
Chromium	ug/L	1000	989	99	85-115	
Cobalt	ug/L	1000	1020	102	85-115	
Copper	ug/L	1000	1020	102	85-115	
Iron	ug/L	10000	10100	101	85-115	
Lead	ug/L	1000	997	100	85-115	
Nickel	ug/L	1000	1020	102	85-115	
Selenium	ug/L	1000	992	99	85-115	
Silver	ug/L	500	482	96	85-115	
Thallium	ug/L	1000	1020	102	85-115	
Zinc	ug/L	1000	985	98	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-327

Pace Project No.: 60171209

Parameter	Units	60171084001		MS		MSD		MS		MSD		% Rec	% Rec	Limits	RPD	RPD	Max	Qual
		Result	Conc.	Spike	Conc.	Result	Conc.	Result	Conc.									
Aluminum	ug/L	7950	50000	50000	50000	63000	64000	110	112	70-130	2	8						
Antimony	ug/L	ND	5000	5000	5000	5230	5340	103	105	70-130	2	7						
Arsenic	ug/L	1020	5000	5000	5000	6420	6560	108	111	70-130	2	10						
Beryllium	ug/L	ND	5000	5000	5000	4810	4880	96	98	70-130	1	7						
Cadmium	ug/L	ND	5000	5000	5000	5230	5300	105	106	70-130	1	10						
Chromium	ug/L	244	5000	5000	5000	5000	5040	95	96	70-130	1	10						
Cobalt	ug/L	33.3	5000	5000	5000	4880	4930	97	98	70-130	1	6						
Copper	ug/L	ND	5000	5000	5000	5200	5240	103	104	70-130	1	11						
Iron	ug/L	719000	50000	50000	50000	766000	780000	95	122	70-130	2	10						
Lead	ug/L	110	5000	5000	5000	4470	4540	87	89	70-130	1	10						
Nickel	ug/L	115	5000	5000	5000	4870	4940	95	97	70-130	1	10						
Selenium	ug/L	ND	5000	5000	5000	5740	5860	114	117	70-130	2	10						
Silver	ug/L	ND	2500	2500	2500	2540	2570	101	102	70-130	1	10						
Thallium	ug/L	ND	5000	5000	5000	4260	4310	85	86	70-130	1	6						
Zinc	ug/L	4840	5000	5000	5000	9390	9470	91	93	70-130	1	11						

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-327
Pace Project No.: 60171209

QC Batch: MPRP/27675 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60171209001

METHOD BLANK: 1395787 Matrix: Water
Associated Lab Samples: 60171209001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	06/18/14 14:18	
Antimony, Dissolved	ug/L	ND	10.0	06/18/14 14:18	
Arsenic, Dissolved	ug/L	ND	10.0	06/18/14 14:18	
Beryllium, Dissolved	ug/L	ND	1.0	06/18/14 14:18	
Cadmium, Dissolved	ug/L	ND	5.0	06/18/14 14:18	
Chromium, Dissolved	ug/L	ND	5.0	06/18/14 14:18	
Cobalt, Dissolved	ug/L	ND	5.0	06/18/14 14:18	
Copper, Dissolved	ug/L	ND	10.0	06/18/14 14:18	
Iron, Dissolved	ug/L	ND	50.0	06/18/14 14:18	
Lead, Dissolved	ug/L	ND	5.0	06/18/14 14:18	
Nickel, Dissolved	ug/L	ND	5.0	06/18/14 14:18	
Selenium, Dissolved	ug/L	ND	15.0	06/18/14 14:18	
Silver, Dissolved	ug/L	ND	7.0	06/18/14 14:18	
Thallium, Dissolved	ug/L	ND	20.0	06/18/14 14:18	
Zinc, Dissolved	ug/L	ND	50.0	06/18/14 14:18	

LABORATORY CONTROL SAMPLE: 1395788

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9860	99	85-115	
Antimony, Dissolved	ug/L	1000	1030	103	85-115	
Arsenic, Dissolved	ug/L	1000	993	99	85-115	
Beryllium, Dissolved	ug/L	1000	992	99	85-115	
Cadmium, Dissolved	ug/L	1000	1020	102	85-115	
Chromium, Dissolved	ug/L	1000	997	100	85-115	
Cobalt, Dissolved	ug/L	1000	1040	104	85-115	
Copper, Dissolved	ug/L	1000	1000	100	85-115	
Iron, Dissolved	ug/L	10000	9590	96	85-115	
Lead, Dissolved	ug/L	1000	1030	103	85-115	
Nickel, Dissolved	ug/L	1000	1040	104	85-115	
Selenium, Dissolved	ug/L	1000	1010	101	85-115	
Silver, Dissolved	ug/L	500	503	101	85-115	
Thallium, Dissolved	ug/L	1000	1050	105	85-115	
Zinc, Dissolved	ug/L	1000	1010	101	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-327

Pace Project No.: 60171209

Parameter	Units	60171209001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec							
Aluminum, Dissolved	ug/L	1100	50000	50000	49400	49700	97	97	70-130	1	8					
Antimony, Dissolved	ug/L	ND	5000	5000	5290	5300	105	105	70-130	0	7					
Arsenic, Dissolved	ug/L	708	5000	5000	6100	6280	108	112	70-130	3	10					
Beryllium, Dissolved	ug/L	ND	5000	5000	4790	4750	96	95	70-130	1	7					
Cadmium, Dissolved	ug/L	ND	5000	5000	5330	5340	107	107	70-130	0	10					
Chromium, Dissolved	ug/L	144	5000	5000	5090	5120	99	100	70-130	1	10					
Cobalt, Dissolved	ug/L	ND	5000	5000	5040	5040	101	100	70-130	0	6					
Copper, Dissolved	ug/L	ND	5000	5000	5080	5090	101	101	70-130	0	11					
Iron, Dissolved	ug/L	270000	50000	50000	305000	344000	71	147	70-130	12	10	M1, R1				
Lead, Dissolved	ug/L	30.9	5000	5000	4790	4760	95	95	70-130	1	10					
Nickel, Dissolved	ug/L	71.0	5000	5000	5060	5060	100	100	70-130	0	10					
Selenium, Dissolved	ug/L	ND	5000	5000	5740	5860	115	117	70-130	2	10					
Silver, Dissolved	ug/L	ND	2500	2500	2670	2680	107	107	70-130	0	10					
Thallium, Dissolved	ug/L	ND	5000	5000	4570	4540	91	91	70-130	1	6					
Zinc, Dissolved	ug/L	3220	5000	5000	8050	8540	97	106	70-130	6	11					

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-327

Pace Project No.: 60171209

QC Batch: MSV/62292 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60171209001, 60171209002

METHOD BLANK: 1393820 Matrix: Water

Associated Lab Samples: 60171209001, 60171209002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/17/14 11:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/17/14 11:11	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	06/17/14 11:11	
1,2-Dichloroethane	ug/L	ND	1.0	06/17/14 11:11	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/17/14 11:11	
2-Butanone (MEK)	ug/L	ND	10.0	06/17/14 11:11	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/17/14 11:11	N2
Acetone	ug/L	ND	10.0	06/17/14 11:11	N2
Benzene	ug/L	ND	1.0	06/17/14 11:11	
Bromodichloromethane	ug/L	ND	1.0	06/17/14 11:11	
Bromoform	ug/L	ND	1.0	06/17/14 11:11	
Bromomethane	ug/L	ND	5.0	06/17/14 11:11	
Carbon tetrachloride	ug/L	ND	1.0	06/17/14 11:11	
Chloroethane	ug/L	ND	1.0	06/17/14 11:11	
Chloroform	ug/L	ND	1.0	06/17/14 11:11	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/17/14 11:11	N2
Ethylbenzene	ug/L	ND	1.0	06/17/14 11:11	
Methylene chloride	ug/L	ND	1.0	06/17/14 11:11	
Tetrachloroethene	ug/L	ND	1.0	06/17/14 11:11	
Toluene	ug/L	ND	1.0	06/17/14 11:11	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/17/14 11:11	
Trichloroethene	ug/L	ND	1.0	06/17/14 11:11	
Vinyl chloride	ug/L	ND	1.0	06/17/14 11:11	
Xylene (Total)	ug/L	ND	3.0	06/17/14 11:11	N2
1,2-Dichloroethane-d4 (S)	%	98	80-120	06/17/14 11:11	
4-Bromofluorobenzene (S)	%	100	80-120	06/17/14 11:11	
Toluene-d8 (S)	%	98	80-120	06/17/14 11:11	

LABORATORY CONTROL SAMPLE: 1393821

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.5	93	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	21.2	106	67-127	N2
1,1,2-Trichloroethane	ug/L	20	21.1	105	67-124	
1,2-Dichloroethane	ug/L	20	19.3	97	70-126	
1,4-Dichlorobenzene	ug/L	20	19.6	98	74-120	
2-Butanone (MEK)	ug/L	100	114	114	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	121	121	59-131	N2
Acetone	ug/L	100	111	111	38-134	N2
Benzene	ug/L	20	19.1	95	75-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-327

Pace Project No.: 60171209

LABORATORY CONTROL SAMPLE: 1393821

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	20	20.9	105	68-125	
Bromoform	ug/L	20	21.7	109	65-127	
Bromomethane	ug/L	20	9.6	48	13-157	
Carbon tetrachloride	ug/L	20	18.5	92	70-131	
Chloroethane	ug/L	20	17.4	87	47-133	
Chloroform	ug/L	20	18.8	94	65-127	
cis-1,2-Dichloroethene	ug/L	20	20.0	100	68-127	N2
Ethylbenzene	ug/L	20	19.8	99	74-122	
Methylene chloride	ug/L	20	18.6	93	64-129	
Tetrachloroethene	ug/L	20	19.3	96	73-125	
Toluene	ug/L	20	18.4	92	69-126	
trans-1,2-Dichloroethene	ug/L	20	18.0	90	66-129	
Trichloroethene	ug/L	20	19.8	99	71-123	
Vinyl chloride	ug/L	20	15.3	76	43-129	
Xylene (Total)	ug/L	60	58.8	98	75-121	N2
1,2-Dichloroethane-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			103	80-120	
Toluene-d8 (S)	%			97	80-120	

MATRIX SPIKE SAMPLE: 1393822

Parameter	Units	60171209001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	4580	92	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	5620	112	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	5160	103	52-143	
1,2-Dichloroethane	ug/L	ND	5000	4360	87	49-144	
1,4-Dichlorobenzene	ug/L	283	5000	4860	92	33-140	
2-Butanone (MEK)	ug/L	45700	25000	67400	87	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	27000	106	40-160	N2
Acetone	ug/L	106000	25000	121000	59	10-160	N2
Benzene	ug/L	ND	5000	4490	90	37-151	
Bromodichloromethane	ug/L	ND	5000	4750	95	35-142	
Bromoform	ug/L	ND	5000	4590	92	45-142	
Bromomethane	ug/L	ND	5000	1110J	22	10-158	
Carbon tetrachloride	ug/L	ND	5000	4380	88	70-140	
Chloroethane	ug/L	ND	5000	5210	104	19-152	
Chloroform	ug/L	ND	5000	4450	89	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	4520	90	34-147	N2
Ethylbenzene	ug/L	ND	5000	4800	96	40-142	
Methylene chloride	ug/L	ND	5000	4360	85	31-144	
Tetrachloroethene	ug/L	ND	5000	4540	91	64-148	
Toluene	ug/L	ND	5000	4400	88	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	4130	83	54-151	
Trichloroethene	ug/L	ND	5000	4270	85	71-149	
Vinyl chloride	ug/L	ND	5000	4180	84	22-146	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-327

Pace Project No.: 60171209

MATRIX SPIKE SAMPLE: 1393822		60171209001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Xylene (Total)	ug/L	ND	15000	14200	95	37-144	N2
1,2-Dichloroethane-d4 (S)	%				93	80-120	
4-Bromofluorobenzene (S)	%				105	80-120	
Toluene-d8 (S)	%				96	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-327
Pace Project No.: 60171209

QC Batch: OEXT/44649 Analysis Method: EPA 625
QC Batch Method: EPA 625 Analysis Description: 625 MSS
Associated Lab Samples: 60171209001

METHOD BLANK: 1393508 Matrix: Water
Associated Lab Samples: 60171209001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/17/14 20:02	
2,4,6-Trichlorophenol	ug/L	ND	5.0	06/17/14 20:02	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	06/17/14 20:02	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	06/17/14 20:02	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	06/17/14 20:02	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/17/14 20:02	
Hexachlorocyclopentadiene	ug/L	ND	5.0	06/17/14 20:02	
Hexachloroethane	ug/L	ND	5.0	06/17/14 20:02	
Naphthalene	ug/L	ND	5.0	06/17/14 20:02	
Nitrobenzene	ug/L	ND	5.0	06/17/14 20:02	
Pentachlorophenol	ug/L	ND	5.0	06/17/14 20:02	
Phenol	ug/L	ND	5.0	06/17/14 20:02	
2,4,6-Tribromophenol (S)	%	93	39-120	06/17/14 20:02	
2-Fluorobiphenyl (S)	%	91	39-120	06/17/14 20:02	
2-Fluorophenol (S)	%	48	17-120	06/17/14 20:02	
Nitrobenzene-d5 (S)	%	87	33-120	06/17/14 20:02	
Phenol-d6 (S)	%	30	11-120	06/17/14 20:02	
Terphenyl-d14 (S)	%	84	45-120	06/17/14 20:02	

LABORATORY CONTROL SAMPLE: 1393509

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	39.3	79	46-120	
2,4,6-Trichlorophenol	ug/L	50	42.0	84	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	33.2	66	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	29.9	60	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	46.1	92	40-133	
Hexachloro-1,3-butadiene	ug/L	50	37.8	76	44-116	
Hexachlorocyclopentadiene	ug/L	100	64.8	65	24-120	
Hexachloroethane	ug/L	50	36.2	72	43-113	
Naphthalene	ug/L	50	39.2	78	48-120	
Nitrobenzene	ug/L	50	40.4	81	48-120	
Pentachlorophenol	ug/L	50	39.5	79	47-120	
Phenol	ug/L	50	16.5	33	16-112	
2,4,6-Tribromophenol (S)	%			89	39-120	
2-Fluorobiphenyl (S)	%			84	39-120	
2-Fluorophenol (S)	%			47	17-120	
Nitrobenzene-d5 (S)	%			81	33-120	
Phenol-d6 (S)	%			30	11-120	
Terphenyl-d14 (S)	%			81	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-327

Pace Project No.: 60171209

MATRIX SPIKE SAMPLE:		1393510					
Parameter	Units	60171114001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	31.1	62	44-120	
2,4,6-Trichlorophenol	ug/L	ND	50	37.5	75	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	50	25.4	51	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	50	21.7	43	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	50	39.2	78	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	50	31.3	63	39-116	
Hexachlorocyclopentadiene	ug/L	ND	100	69.1	69	11-120	
Hexachloroethane	ug/L	ND	50	30.6	61	40-113	
Naphthalene	ug/L	ND	50	32.4	65	45-120	
Nitrobenzene	ug/L	ND	50	34.1	68	38-120	
Pentachlorophenol	ug/L	ND	50	38.2	76	43-135	
Phenol	ug/L	ND	50	12.3	25	13-112	
2,4,6-Tribromophenol (S)	%				77	39-120	
2-Fluorobiphenyl (S)	%				72	39-120	
2-Fluorophenol (S)	%				32	17-120	
Nitrobenzene-d5 (S)	%				68	33-120	
Phenol-d6 (S)	%				22	11-120	
Terphenyl-d14 (S)	%				72	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-327

Pace Project No.: 60171209

QC Batch:	WET/48501	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60171209001		

METHOD BLANK: 1395661 Matrix: Water
Associated Lab Samples: 60171209001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	06/17/14 14:47	

LABORATORY CONTROL SAMPLE: 1395662

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	35.3	88	78-114	

MATRIX SPIKE SAMPLE: 1395663

Parameter	Units	60171156001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	40.4	33.1	77	78-114	M1

SAMPLE DUPLICATE: 1395664

Parameter	Units	60171154001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	47.0	42.9	9	18	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-327

Pace Project No.: 60171209

QC Batch:	WET/48508	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60171209001		

METHOD BLANK: 1395697 Matrix: Water
Associated Lab Samples: 60171209001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	06/17/14 16:02	

LABORATORY CONTROL SAMPLE: 1395698

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	22.4	112	64-132	

MATRIX SPIKE SAMPLE: 1395699

Parameter	Units	60171156001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	20.2	9.5	43	64-132	M1

SAMPLE DUPLICATE: 1395700

Parameter	Units	60171154001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	3.8J		34	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-327

Pace Project No.: 60171209

QC Batch:	WET/48474	Analysis Method:	SM 2540D
QC Batch Method:	SM 2540D	Analysis Description:	2540D Total Suspended Solids
Associated Lab Samples:	60171209001		

METHOD BLANK: 1395074 Matrix: Water

Associated Lab Samples: 60171209001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	06/16/14 13:41	

SAMPLE DUPLICATE: 1395075

Parameter	Units	60171209001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	4040	3620	11	10	D6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-327

Pace Project No.: 60171209

QC Batch: WET/48447 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60171209001

SAMPLE DUPLICATE: 1394342

Parameter	Units	60171184002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.4	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-327

Pace Project No.: 60171209

QC Batch: WET/48422

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60171209001

METHOD BLANK: 1393568

Matrix: Water

Associated Lab Samples: 60171209001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	06/18/14 14:51	

LABORATORY CONTROL SAMPLE: 1393569

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	187	95	85-115	

SAMPLE DUPLICATE: 1393570

Parameter	Units	60171172003 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	301	334	10	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-327

Pace Project No.: 60171209

QC Batch:	WETA/29867	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60171209001		

METHOD BLANK: 1396069 Matrix: Water
Associated Lab Samples: 60171209001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	06/18/14 11:59	

LABORATORY CONTROL SAMPLE: 1396070

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	106	90-110	

MATRIX SPIKE SAMPLE: 1396071

Parameter	Units	60171166001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.9	93	90-110	

MATRIX SPIKE SAMPLE: 1396073

Parameter	Units	60171443001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	528	400	883	89	90-110	M1

SAMPLE DUPLICATE: 1396072

Parameter	Units	60171166003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-327

Pace Project No.: 60171209

QC Batch:	WETA/29869	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60171209001		

METHOD BLANK: 1396155 Matrix: Water
Associated Lab Samples: 60171209001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	06/19/14 09:49	

LABORATORY CONTROL SAMPLE: 1396156

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	46.2	92	90-110	

MATRIX SPIKE SAMPLE: 1396157

Parameter	Units	60171556001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	48200	25000	69200	84	90-110	M1

SAMPLE DUPLICATE: 1396158

Parameter	Units	60171209001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	40700	49100	19	25	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 316-327

Pace Project No.: 60171209

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.

PQL - Practical Quantitation 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.

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

- D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
- D6 The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
- 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.
- N2 The lab does not hold TNI accreditation for this parameter.
- R1 RPD value was outside control limits.
- S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-327

Pace Project No.: 60171209

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60171209001	316-327	EPA 200.7	MPRP/27615	EPA 200.7	ICP/20878
60171209001	316-327	EPA 200.7	MPRP/27675	EPA 200.7	ICP/20921
60171209001	316-327	EPA 245.1	MERP/8499	EPA 245.1	MERC/8451
60171209001	316-327	EPA 245.1	MERP/8492	EPA 245.1	MERC/8446
60171209001	316-327	EPA 625	OEXT/44649	EPA 625	MSSV/14299
60171209001	316-327	EPA 624 Low	MSV/62292		
60171209002	TRIP BLANK	EPA 624 Low	MSV/62292		
60171209001	316-327	EPA 1664A	WET/48501		
60171209001	316-327	EPA 1664A	WET/48508		
60171209001	316-327	SM 2540D	WET/48474		
60171209001	316-327	SM 4500-H+B	WET/48447		
60171209001	316-327	SM 5210B	WET/48422	SM 5210B	WET/48541
60171209001	316-327	EPA 350.1	WETA/29867		
60171209001	316-327	EPA 410.4	WETA/29869		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60171209



Optional
Proj Due Date:
Proj Name:

Client Name: Barr Engineering
 Courier: Fed Ex UPS USPS Client Commercial Pace Other Crossroads

Tracking #: _____ Pace Shipping Label Used? Yes No

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other Ziploc

Thermometer Used: (T-239) / T-194 Type of Ice: (Wet) Blue None Samples received on ice, cooling process has begun.

Cooler Temperature: 4.2
 Temperature should be above freezing to 6°C

Date and initials of person examining contents: Att 6/12

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>BOD, pH</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Includes date/time/ID/analyses Matrix: <u>WT</u>		13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>BP3S + DP3N pH 4.5</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Exceptions <u>(VOA)</u> coliform <u>(TOC)</u> O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Lot # of added preservative
Pace Trip Blank lot # (if purchased): <u>covered</u>		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / (N) Field Data Required? Y / (N)

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: (a j. AKO) Date: 6/12

June 20, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-328
Pace Project No.: 60171310

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 13, 2014. 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,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Bill Abernathy, Feezor Engineering
Kelly Caddy, Barr Engineering
DAN FEEZOR, FEEZOR ENGINEERING
Dana B. Pasi, Barr Engineering Co.
Brian Power, Republic Services
Brian Sehie, Republic Services
Margaret Treanor, Barr Engineering Company



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CERTIFICATIONS

Project: BRIDGETON LF 316-328

Pace Project No.: 60171310

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-13-4

Utah Certification #: KS000212013-3

Illinois Certification #: 003097

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-328

Pace Project No.: 60171310

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60171310001	316-328	Water	06/12/14 09:11	06/13/14 01:00
60171310002	TRIP BLANK	Water	06/12/14 09:11	06/13/14 01:00

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-328

Pace Project No.: 60171310

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60171310001	316-328	EPA 200.7	JGP, NDJ	15
		EPA 200.7	JGP	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	CRT	1
		EPA 1664A	CRT	1
		SM 2540D	ESM	1
		SM 4500-H+B	NDL	1
		SM 5210B	NDL	1
		EPA 350.1	JML	1
		EPA 410.4	JMC1	1
		60171310002	TRIP BLANK	EPA 624 Low

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-328

Pace Project No.: 60171310

Sample: 316-328		Lab ID: 60171310001	Collected: 06/12/14 09:11	Received: 06/13/14 01:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	2500	ug/L	750	2	06/18/14 10:15	06/18/14 16:13	7429-90-5	
Antimony	ND	ug/L	50.0	1	06/18/14 10:15	06/19/14 15:09	7440-36-0	
Arsenic	1040	ug/L	100	2	06/18/14 10:15	06/18/14 16:13	7440-38-2	
Beryllium	ND	ug/L	5.0	1	06/18/14 10:15	06/18/14 16:11	7440-41-7	
Cadmium	ND	ug/L	25.0	1	06/18/14 10:15	06/19/14 15:09	7440-43-9	
Chromium	166	ug/L	25.0	1	06/18/14 10:15	06/18/14 16:11	7440-47-3	
Cobalt	ND	ug/L	25.0	1	06/18/14 10:15	06/19/14 15:09	7440-48-4	
Copper	ND	ug/L	50.0	1	06/18/14 10:15	06/18/14 16:11	7440-50-8	
Iron	328000	ug/L	250	1	06/18/14 10:15	06/18/14 16:11	7439-89-6	
Lead	40.3	ug/L	25.0	1	06/18/14 10:15	06/19/14 15:09	7439-92-1	
Nickel	107	ug/L	50.0	2	06/18/14 10:15	06/18/14 16:13	7440-02-0	
Selenium	ND	ug/L	75.0	1	06/18/14 10:15	06/19/14 15:09	7782-49-2	
Silver	ND	ug/L	35.0	1	06/18/14 10:15	06/18/14 16:11	7440-22-4	
Thallium	ND	ug/L	100	1	06/18/14 10:15	06/19/14 15:09	7440-28-0	
Zinc	3510	ug/L	500	2	06/18/14 10:15	06/18/14 16:13	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	1160	ug/L	750	2	06/18/14 09:30	06/18/14 15:09	7429-90-5	
Antimony, Dissolved	ND	ug/L	100	2	06/18/14 09:30	06/18/14 15:09	7440-36-0	D3
Arsenic, Dissolved	876	ug/L	50.0	1	06/18/14 09:30	06/18/14 15:06	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	06/18/14 09:30	06/18/14 15:06	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	06/18/14 09:30	06/18/14 15:06	7440-43-9	
Chromium, Dissolved	157	ug/L	25.0	1	06/18/14 09:30	06/18/14 15:06	7440-47-3	
Cobalt, Dissolved	ND	ug/L	25.0	1	06/18/14 09:30	06/18/14 15:06	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	06/18/14 09:30	06/18/14 15:06	7440-50-8	
Iron, Dissolved	287000	ug/L	250	1	06/18/14 09:30	06/18/14 15:06	7439-89-6	
Lead, Dissolved	44.5	ug/L	25.0	1	06/18/14 09:30	06/18/14 15:06	7439-92-1	
Nickel, Dissolved	84.8	ug/L	25.0	1	06/18/14 09:30	06/18/14 15:06	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	06/18/14 09:30	06/18/14 15:06	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	06/18/14 09:30	06/18/14 15:06	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	06/18/14 09:30	06/18/14 15:06	7440-28-0	
Zinc, Dissolved	3270	ug/L	500	2	06/18/14 09:30	06/18/14 15:09	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	40.2	ug/L	6.0	1	06/19/14 20:00	06/20/14 09:14	7439-97-6	
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND	ug/L	6.0	1	06/17/14 14:30	06/18/14 14:20	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	06/18/14 00:00	06/19/14 09:40	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	06/18/14 00:00	06/19/14 09:40	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	06/18/14 00:00	06/19/14 09:40	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	06/18/14 00:00	06/19/14 09:40	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	2000	2	06/18/14 00:00	06/19/14 09:40	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	10300	ug/L	4000	2	06/18/14 00:00	06/19/14 09:40		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-328

Pace Project No.: 60171310

Sample: 316-328		Lab ID: 60171310001	Collected: 06/12/14 09:11	Received: 06/13/14 01:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	1690 ug/L		1000	2	06/18/14 00:00	06/19/14 09:40	91-20-3	
Nitrobenzene	ND ug/L		1000	2	06/18/14 00:00	06/19/14 09:40	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	06/18/14 00:00	06/19/14 09:40	87-86-5	
Phenol	18500 ug/L		1000	2	06/18/14 00:00	06/19/14 09:40	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	06/18/14 00:00	06/19/14 09:40	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	06/18/14 00:00	06/19/14 09:40	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	200 %		33-120	2	06/18/14 00:00	06/19/14 09:40	4165-60-0	S0
2-Fluorobiphenyl (S)	79 %		39-120	2	06/18/14 00:00	06/19/14 09:40	321-60-8	
Terphenyl-d14 (S)	69 %		45-120	2	06/18/14 00:00	06/19/14 09:40	1718-51-0	
Phenol-d6 (S)	39 %		11-120	2	06/18/14 00:00	06/19/14 09:40	13127-88-3	
2-Fluorophenol (S)	34 %		17-120	2	06/18/14 00:00	06/19/14 09:40	367-12-4	
2,4,6-Tribromophenol (S)	82 %		39-120	2	06/18/14 00:00	06/19/14 09:40	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	101000 ug/L		2500	250		06/17/14 17:08	67-64-1	N2
Benzene	ND ug/L		250	250		06/17/14 17:08	71-43-2	
Bromodichloromethane	ND ug/L		250	250		06/17/14 17:08	75-27-4	
Bromoform	ND ug/L		250	250		06/17/14 17:08	75-25-2	
Bromomethane	ND ug/L		1250	250		06/17/14 17:08	74-83-9	
2-Butanone (MEK)	41200 ug/L		2500	250		06/17/14 17:08	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		06/17/14 17:08	56-23-5	
Chloroethane	ND ug/L		250	250		06/17/14 17:08	75-00-3	
Chloroform	ND ug/L		250	250		06/17/14 17:08	67-66-3	
1,4-Dichlorobenzene	400 ug/L		250	250		06/17/14 17:08	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		06/17/14 17:08	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		06/17/14 17:08	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		06/17/14 17:08	156-60-5	
Ethylbenzene	ND ug/L		250	250		06/17/14 17:08	100-41-4	
Methylene chloride	ND ug/L		250	250		06/17/14 17:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		06/17/14 17:08	108-10-1	N2
1,1,2-Tetrachloroethane	ND ug/L		250	250		06/17/14 17:08	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		06/17/14 17:08	127-18-4	
Toluene	ND ug/L		250	250		06/17/14 17:08	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		06/17/14 17:08	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		06/17/14 17:08	79-00-5	
Trichloroethene	ND ug/L		250	250		06/17/14 17:08	79-01-6	
Vinyl chloride	ND ug/L		250	250		06/17/14 17:08	75-01-4	
Xylene (Total)	ND ug/L		750	250		06/17/14 17:08	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	104 %		80-120	250		06/17/14 17:08	460-00-4	
Toluene-d8 (S)	96 %		80-120	250		06/17/14 17:08	2037-26-5	
1,2-Dichloroethane-d4 (S)	95 %		80-120	250		06/17/14 17:08	17060-07-0	
Preservation pH	6.0		1.0	250		06/17/14 17:08		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	752 mg/L		5.0	1		06/17/14 14:52		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-328

Pace Project No.: 60171310

Sample: 316-328		Lab ID: 60171310001	Collected: 06/12/14 09:11	Received: 06/13/14 01:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	9.6	mg/L	5.0	1		06/17/14 16:04		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	4340	mg/L	5.0	1		06/17/14 15:13		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.5	Std. Units	0.10	1		06/16/14 13:40		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	32000	mg/L	2.0	1	06/13/14 15:04	06/18/14 17:29		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	558	mg/L	20.0	200		06/18/14 12:16	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	47600	mg/L	5000	500		06/19/14 09:53		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-328

Pace Project No.: 60171310

Sample: TRIP BLANK		Lab ID: 60171310002	Collected: 06/12/14 09:11	Received: 06/13/14 01:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		06/17/14 16:17	67-64-1	N2
Benzene	ND ug/L		1.0	1		06/17/14 16:17	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		06/17/14 16:17	75-27-4	
Bromoform	ND ug/L		1.0	1		06/17/14 16:17	75-25-2	
Bromomethane	ND ug/L		5.0	1		06/17/14 16:17	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/17/14 16:17	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		06/17/14 16:17	56-23-5	
Chloroethane	ND ug/L		1.0	1		06/17/14 16:17	75-00-3	
Chloroform	ND ug/L		1.0	1		06/17/14 16:17	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		06/17/14 16:17	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		06/17/14 16:17	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		06/17/14 16:17	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		06/17/14 16:17	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		06/17/14 16:17	100-41-4	
Methylene chloride	ND ug/L		1.0	1		06/17/14 16:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/17/14 16:17	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		06/17/14 16:17	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		06/17/14 16:17	127-18-4	
Toluene	ND ug/L		1.0	1		06/17/14 16:17	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		06/17/14 16:17	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		06/17/14 16:17	79-00-5	
Trichloroethene	ND ug/L		1.0	1		06/17/14 16:17	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		06/17/14 16:17	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		06/17/14 16:17	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	102 %		80-120	1		06/17/14 16:17	460-00-4	
Toluene-d8 (S)	95 %		80-120	1		06/17/14 16:17	2037-26-5	
1,2-Dichloroethane-d4 (S)	92 %		80-120	1		06/17/14 16:17	17060-07-0	
Preservation pH	6.0		1.0	1		06/17/14 16:17		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-328

Pace Project No.: 60171310

QC Batch: MERP/8505

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60171310001

METHOD BLANK: 1397344

Matrix: Water

Associated Lab Samples: 60171310001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	06/20/14 09:09	

LABORATORY CONTROL SAMPLE: 1397345

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.8	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1397346 1397347

Parameter	Units	60171310001		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
Mercury	ug/L	40.2	150	150	150	145	159	70	79	70-130	9	20			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-328

Pace Project No.: 60171310

QC Batch: MERP/8492

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60171310001

METHOD BLANK: 1395637

Matrix: Water

Associated Lab Samples: 60171310001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	06/18/14 14:07	

LABORATORY CONTROL SAMPLE: 1395638

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.3	86	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1395639 1395640

Parameter	Units	60171084001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits		
Mercury, Dissolved	ug/L	ND	150	150	124	129	83	86	70-130	4	20

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-328

Pace Project No.: 60171310

QC Batch:	MPRP/27685	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
Associated Lab Samples:	60171310001		

METHOD BLANK: 1396074 Matrix: Water

Associated Lab Samples: 60171310001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	06/18/14 16:06	
Antimony	ug/L	ND	10.0	06/18/14 16:06	
Arsenic	ug/L	ND	10.0	06/18/14 16:06	
Beryllium	ug/L	ND	1.0	06/18/14 16:06	
Cadmium	ug/L	ND	5.0	06/18/14 16:06	
Chromium	ug/L	ND	5.0	06/18/14 16:06	
Cobalt	ug/L	ND	5.0	06/18/14 16:06	
Copper	ug/L	ND	10.0	06/18/14 16:06	
Iron	ug/L	ND	50.0	06/18/14 16:06	
Lead	ug/L	ND	5.0	06/18/14 16:06	
Nickel	ug/L	ND	5.0	06/18/14 16:06	
Selenium	ug/L	ND	15.0	06/18/14 16:06	
Silver	ug/L	ND	7.0	06/18/14 16:06	
Thallium	ug/L	ND	20.0	06/18/14 16:06	
Zinc	ug/L	ND	50.0	06/18/14 16:06	

LABORATORY CONTROL SAMPLE: 1396075

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10400	104	85-115	
Antimony	ug/L	1000	1070	107	85-115	
Arsenic	ug/L	1000	967	97	85-115	
Beryllium	ug/L	1000	1020	102	85-115	
Cadmium	ug/L	1000	1040	104	85-115	
Chromium	ug/L	1000	989	99	85-115	
Cobalt	ug/L	1000	1020	102	85-115	
Copper	ug/L	1000	1100	110	85-115	
Iron	ug/L	10000	9760	98	85-115	
Lead	ug/L	1000	1040	104	85-115	
Nickel	ug/L	1000	1060	106	85-115	
Selenium	ug/L	1000	1040	104	85-115	
Silver	ug/L	500	509	102	85-115	
Thallium	ug/L	1000	1020	102	85-115	
Zinc	ug/L	1000	930	93	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-328

Pace Project No.: 60171310

Parameter	Units	60171556001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max	RPD	Qual
		Result	Conc.	Spike	Conc.	Result	Conc.	Result	Conc.	% Rec	% Rec						
Aluminum	ug/L	2410	50000	50000	55400	55800	106	107	70-130	1	8						
Antimony	ug/L	51.2	5000	5000	5380	5440	107	108	70-130	1	7						
Arsenic	ug/L	1100	5000	5000	6540	6620	109	110	70-130	1	10						
Beryllium	ug/L	ND	5000	5000	5000	5000	100	100	70-130	0	7						
Cadmium	ug/L	ND	5000	5000	5320	5360	106	107	70-130	1	10						
Chromium	ug/L	154	5000	5000	4940	4980	96	97	70-130	1	10						
Cobalt	ug/L	ND	5000	5000	4970	5010	99	100	70-130	1	6						
Copper	ug/L	ND	5000	5000	5840	5860	116	117	70-130	0	11						
Iron	ug/L	311000	50000	50000	363000	359000	104	96	70-130	1	10						
Lead	ug/L	32.2	5000	5000	4720	4770	94	95	70-130	1	10						
Nickel	ug/L	93.3	5000	5000	5220	5230	102	103	70-130	0	10						
Selenium	ug/L	ND	5000	5000	6070	6090	121	122	70-130	0	10						
Silver	ug/L	ND	2500	2500	2720	2720	108	108	70-130	0	10						
Thallium	ug/L	ND	5000	5000	4380	4420	88	88	70-130	1	6						
Zinc	ug/L	3130	5000	5000	7770	7800	93	93	70-130	0	11						

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-328
Pace Project No.: 60171310

QC Batch: MPRP/27675 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60171310001

METHOD BLANK: 1395787 Matrix: Water
Associated Lab Samples: 60171310001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	06/18/14 14:18	
Antimony, Dissolved	ug/L	ND	10.0	06/18/14 14:18	
Arsenic, Dissolved	ug/L	ND	10.0	06/18/14 14:18	
Beryllium, Dissolved	ug/L	ND	1.0	06/18/14 14:18	
Cadmium, Dissolved	ug/L	ND	5.0	06/18/14 14:18	
Chromium, Dissolved	ug/L	ND	5.0	06/18/14 14:18	
Cobalt, Dissolved	ug/L	ND	5.0	06/18/14 14:18	
Copper, Dissolved	ug/L	ND	10.0	06/18/14 14:18	
Iron, Dissolved	ug/L	ND	50.0	06/18/14 14:18	
Lead, Dissolved	ug/L	ND	5.0	06/18/14 14:18	
Nickel, Dissolved	ug/L	ND	5.0	06/18/14 14:18	
Selenium, Dissolved	ug/L	ND	15.0	06/18/14 14:18	
Silver, Dissolved	ug/L	ND	7.0	06/18/14 14:18	
Thallium, Dissolved	ug/L	ND	20.0	06/18/14 14:18	
Zinc, Dissolved	ug/L	ND	50.0	06/18/14 14:18	

LABORATORY CONTROL SAMPLE: 1395788

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9860	99	85-115	
Antimony, Dissolved	ug/L	1000	1030	103	85-115	
Arsenic, Dissolved	ug/L	1000	993	99	85-115	
Beryllium, Dissolved	ug/L	1000	992	99	85-115	
Cadmium, Dissolved	ug/L	1000	1020	102	85-115	
Chromium, Dissolved	ug/L	1000	997	100	85-115	
Cobalt, Dissolved	ug/L	1000	1040	104	85-115	
Copper, Dissolved	ug/L	1000	1000	100	85-115	
Iron, Dissolved	ug/L	10000	9590	96	85-115	
Lead, Dissolved	ug/L	1000	1030	103	85-115	
Nickel, Dissolved	ug/L	1000	1040	104	85-115	
Selenium, Dissolved	ug/L	1000	1010	101	85-115	
Silver, Dissolved	ug/L	500	503	101	85-115	
Thallium, Dissolved	ug/L	1000	1050	105	85-115	
Zinc, Dissolved	ug/L	1000	1010	101	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-328

Pace Project No.: 60171310

Parameter	Units	60171209001		MS		MSD		1395789		1395790		% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec								
Aluminum, Dissolved	ug/L	1100	50000	50000	49400	49700	97	97	70-130	1	8					
Antimony, Dissolved	ug/L	ND	5000	5000	5290	5300	105	105	70-130	0	7					
Arsenic, Dissolved	ug/L	708	5000	5000	6100	6280	108	112	70-130	3	10					
Beryllium, Dissolved	ug/L	ND	5000	5000	4790	4750	96	95	70-130	1	7					
Cadmium, Dissolved	ug/L	ND	5000	5000	5330	5340	107	107	70-130	0	10					
Chromium, Dissolved	ug/L	144	5000	5000	5090	5120	99	100	70-130	1	10					
Cobalt, Dissolved	ug/L	ND	5000	5000	5040	5040	101	100	70-130	0	6					
Copper, Dissolved	ug/L	ND	5000	5000	5080	5090	101	101	70-130	0	11					
Iron, Dissolved	ug/L	270000	50000	50000	305000	344000	71	147	70-130	12	10	M1, R1				
Lead, Dissolved	ug/L	30.9	5000	5000	4790	4760	95	95	70-130	1	10					
Nickel, Dissolved	ug/L	71.0	5000	5000	5060	5060	100	100	70-130	0	10					
Selenium, Dissolved	ug/L	ND	5000	5000	5740	5860	115	117	70-130	2	10					
Silver, Dissolved	ug/L	ND	2500	2500	2670	2680	107	107	70-130	0	10					
Thallium, Dissolved	ug/L	ND	5000	5000	4570	4540	91	91	70-130	1	6					
Zinc, Dissolved	ug/L	3220	5000	5000	8050	8540	97	106	70-130	6	11					

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-328

Pace Project No.: 60171310

QC Batch: MSV/62292 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60171310001, 60171310002

METHOD BLANK: 1393820 Matrix: Water

Associated Lab Samples: 60171310001, 60171310002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/17/14 11:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/17/14 11:11	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	06/17/14 11:11	
1,2-Dichloroethane	ug/L	ND	1.0	06/17/14 11:11	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/17/14 11:11	
2-Butanone (MEK)	ug/L	ND	10.0	06/17/14 11:11	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/17/14 11:11	N2
Acetone	ug/L	ND	10.0	06/17/14 11:11	N2
Benzene	ug/L	ND	1.0	06/17/14 11:11	
Bromodichloromethane	ug/L	ND	1.0	06/17/14 11:11	
Bromoform	ug/L	ND	1.0	06/17/14 11:11	
Bromomethane	ug/L	ND	5.0	06/17/14 11:11	
Carbon tetrachloride	ug/L	ND	1.0	06/17/14 11:11	
Chloroethane	ug/L	ND	1.0	06/17/14 11:11	
Chloroform	ug/L	ND	1.0	06/17/14 11:11	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/17/14 11:11	N2
Ethylbenzene	ug/L	ND	1.0	06/17/14 11:11	
Methylene chloride	ug/L	ND	1.0	06/17/14 11:11	
Tetrachloroethene	ug/L	ND	1.0	06/17/14 11:11	
Toluene	ug/L	ND	1.0	06/17/14 11:11	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/17/14 11:11	
Trichloroethene	ug/L	ND	1.0	06/17/14 11:11	
Vinyl chloride	ug/L	ND	1.0	06/17/14 11:11	
Xylene (Total)	ug/L	ND	3.0	06/17/14 11:11	N2
1,2-Dichloroethane-d4 (S)	%	98	80-120	06/17/14 11:11	
4-Bromofluorobenzene (S)	%	100	80-120	06/17/14 11:11	
Toluene-d8 (S)	%	98	80-120	06/17/14 11:11	

LABORATORY CONTROL SAMPLE: 1393821

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.5	93	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	21.2	106	67-127	N2
1,1,2-Trichloroethane	ug/L	20	21.1	105	67-124	
1,2-Dichloroethane	ug/L	20	19.3	97	70-126	
1,4-Dichlorobenzene	ug/L	20	19.6	98	74-120	
2-Butanone (MEK)	ug/L	100	114	114	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	121	121	59-131	N2
Acetone	ug/L	100	111	111	38-134	N2
Benzene	ug/L	20	19.1	95	75-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-328

Pace Project No.: 60171310

LABORATORY CONTROL SAMPLE: 1393821

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	20	20.9	105	68-125	
Bromoform	ug/L	20	21.7	109	65-127	
Bromomethane	ug/L	20	9.6	48	13-157	
Carbon tetrachloride	ug/L	20	18.5	92	70-131	
Chloroethane	ug/L	20	17.4	87	47-133	
Chloroform	ug/L	20	18.8	94	65-127	
cis-1,2-Dichloroethene	ug/L	20	20.0	100	68-127	N2
Ethylbenzene	ug/L	20	19.8	99	74-122	
Methylene chloride	ug/L	20	18.6	93	64-129	
Tetrachloroethene	ug/L	20	19.3	96	73-125	
Toluene	ug/L	20	18.4	92	69-126	
trans-1,2-Dichloroethene	ug/L	20	18.0	90	66-129	
Trichloroethene	ug/L	20	19.8	99	71-123	
Vinyl chloride	ug/L	20	15.3	76	43-129	
Xylene (Total)	ug/L	60	58.8	98	75-121	N2
1,2-Dichloroethane-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			103	80-120	
Toluene-d8 (S)	%			97	80-120	

MATRIX SPIKE SAMPLE: 1393822

Parameter	Units	60171209001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	4580	92	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	5620	112	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	5160	103	52-143	
1,2-Dichloroethane	ug/L	ND	5000	4360	87	49-144	
1,4-Dichlorobenzene	ug/L	283	5000	4860	92	33-140	
2-Butanone (MEK)	ug/L	45700	25000	67400	87	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	27000	106	40-160	N2
Acetone	ug/L	106000	25000	121000	59	10-160	N2
Benzene	ug/L	ND	5000	4490	90	37-151	
Bromodichloromethane	ug/L	ND	5000	4750	95	35-142	
Bromoform	ug/L	ND	5000	4590	92	45-142	
Bromomethane	ug/L	ND	5000	1110J	22	10-158	
Carbon tetrachloride	ug/L	ND	5000	4380	88	70-140	
Chloroethane	ug/L	ND	5000	5210	104	19-152	
Chloroform	ug/L	ND	5000	4450	89	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	4520	90	34-147	N2
Ethylbenzene	ug/L	ND	5000	4800	96	40-142	
Methylene chloride	ug/L	ND	5000	4360	85	31-144	
Tetrachloroethene	ug/L	ND	5000	4540	91	64-148	
Toluene	ug/L	ND	5000	4400	88	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	4130	83	54-151	
Trichloroethene	ug/L	ND	5000	4270	85	71-149	
Vinyl chloride	ug/L	ND	5000	4180	84	22-146	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-328

Pace Project No.: 60171310

MATRIX SPIKE SAMPLE:		1393822					
Parameter	Units	60171209001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	ND	15000	14200	95	37-144	N2
1,2-Dichloroethane-d4 (S)	%				93	80-120	
4-Bromofluorobenzene (S)	%				105	80-120	
Toluene-d8 (S)	%				96	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-328
Pace Project No.: 60171310

QC Batch: OEXT/44708 Analysis Method: EPA 625
QC Batch Method: EPA 625 Analysis Description: 625 MSS
Associated Lab Samples: 60171310001

METHOD BLANK: 1395915 Matrix: Water
Associated Lab Samples: 60171310001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/19/14 08:57	
2,4,6-Trichlorophenol	ug/L	ND	5.0	06/19/14 08:57	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	06/19/14 08:57	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	06/19/14 08:57	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	06/19/14 08:57	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/19/14 08:57	
Hexachlorocyclopentadiene	ug/L	ND	5.0	06/19/14 08:57	
Hexachloroethane	ug/L	ND	5.0	06/19/14 08:57	
Naphthalene	ug/L	ND	5.0	06/19/14 08:57	
Nitrobenzene	ug/L	ND	5.0	06/19/14 08:57	
Pentachlorophenol	ug/L	ND	5.0	06/19/14 08:57	
Phenol	ug/L	ND	5.0	06/19/14 08:57	
2,4,6-Tribromophenol (S)	%	75	39-120	06/19/14 08:57	
2-Fluorobiphenyl (S)	%	73	39-120	06/19/14 08:57	
2-Fluorophenol (S)	%	45	17-120	06/19/14 08:57	
Nitrobenzene-d5 (S)	%	73	33-120	06/19/14 08:57	
Phenol-d6 (S)	%	29	11-120	06/19/14 08:57	
Terphenyl-d14 (S)	%	66	45-120	06/19/14 08:57	

LABORATORY CONTROL SAMPLE: 1395916

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	32.7	65	46-120	
2,4,6-Trichlorophenol	ug/L	50	36.4	73	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	31.6	63	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	27.3	55	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	37.8	76	40-133	
Hexachloro-1,3-butadiene	ug/L	50	31.5	63	44-116	
Hexachlorocyclopentadiene	ug/L	100	30.1	30	24-120	
Hexachloroethane	ug/L	50	30.7	61	43-113	
Naphthalene	ug/L	50	34.0	68	48-120	
Nitrobenzene	ug/L	50	34.5	69	48-120	
Pentachlorophenol	ug/L	50	32.5	65	47-120	
Phenol	ug/L	50	17.7	35	16-112	
2,4,6-Tribromophenol (S)	%			74	39-120	
2-Fluorobiphenyl (S)	%			74	39-120	
2-Fluorophenol (S)	%			44	17-120	
Nitrobenzene-d5 (S)	%			72	33-120	
Phenol-d6 (S)	%			32	11-120	
Terphenyl-d14 (S)	%			75	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-328

Pace Project No.: 60171310

QC Batch:	WET/48501	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60171310001		

METHOD BLANK: 1395661 Matrix: Water

Associated Lab Samples: 60171310001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	06/17/14 14:47	

LABORATORY CONTROL SAMPLE: 1395662

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	35.3	88	78-114	

MATRIX SPIKE SAMPLE: 1395663

Parameter	Units	60171156001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	40.4	33.1	77	78-114	M1

SAMPLE DUPLICATE: 1395664

Parameter	Units	60171154001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	47.0	42.9	9	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-328

Pace Project No.: 60171310

QC Batch:	WET/48508	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60171310001		

METHOD BLANK: 1395697 Matrix: Water
Associated Lab Samples: 60171310001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	06/17/14 16:02	

LABORATORY CONTROL SAMPLE: 1395698

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	22.4	112	64-132	

MATRIX SPIKE SAMPLE: 1395699

Parameter	Units	60171156001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	20.2	9.5	43	64-132	M1

SAMPLE DUPLICATE: 1395700

Parameter	Units	60171154001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	3.8J		34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-328

Pace Project No.: 60171310

QC Batch: WET/48507

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60171310001

METHOD BLANK: 1395694

Matrix: Water

Associated Lab Samples: 60171310001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	06/17/14 15:12	

SAMPLE DUPLICATE: 1395695

Parameter	Units	60171305001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	110	22.0	133	10	D6

SAMPLE DUPLICATE: 1395696

Parameter	Units	60171312005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	166	161	3	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-328

Pace Project No.: 60171310

QC Batch: WET/48448 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60171310001

SAMPLE DUPLICATE: 1394343

Parameter	Units	60171173002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.9	8.0	1	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-328

Pace Project No.: 60171310

QC Batch: WET/48432

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60171310001

METHOD BLANK: 1393815

Matrix: Water

Associated Lab Samples: 60171310001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	06/18/14 16:50	

LABORATORY CONTROL SAMPLE: 1393816

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	215	108	85-115	

SAMPLE DUPLICATE: 1393817

Parameter	Units	60171316001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	2020	1960	3	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-328
Pace Project No.: 60171310

QC Batch: WETA/29867 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60171310001

METHOD BLANK: 1396069 Matrix: Water
Associated Lab Samples: 60171310001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	06/18/14 11:59	

LABORATORY CONTROL SAMPLE: 1396070

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	106	90-110	

MATRIX SPIKE SAMPLE: 1396071

Parameter	Units	60171166001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.9	93	90-110	

MATRIX SPIKE SAMPLE: 1396073

Parameter	Units	60171443001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	528	400	883	89	90-110	M1

SAMPLE DUPLICATE: 1396072

Parameter	Units	60171166003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-328

Pace Project No.: 60171310

QC Batch:	WETA/29869	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60171310001		

METHOD BLANK: 1396155 Matrix: Water
Associated Lab Samples: 60171310001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	06/19/14 09:49	

LABORATORY CONTROL SAMPLE: 1396156

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	46.2	92	90-110	

MATRIX SPIKE SAMPLE: 1396157

Parameter	Units	60171556001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	48200	25000	69200	84	90-110	M1

SAMPLE DUPLICATE: 1396158

Parameter	Units	60171209001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	40700	49100	19	25	

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QUALIFIERS

Project: BRIDGETON LF 316-328

Pace Project No.: 60171310

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.

PQL - Practical Quantitation 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.

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

- D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
- D6 The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
- 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.
- N2 The lab does not hold TNI accreditation for this parameter.
- R1 RPD value was outside control limits.
- S0 Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-328

Pace Project No.: 60171310

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60171310001	316-328	EPA 200.7	MPRP/27685	EPA 200.7	ICP/20922
60171310001	316-328	EPA 200.7	MPRP/27675	EPA 200.7	ICP/20921
60171310001	316-328	EPA 245.1	MERP/8505	EPA 245.1	MERC/8457
60171310001	316-328	EPA 245.1	MERP/8492	EPA 245.1	MERC/8446
60171310001	316-328	EPA 625	OEXT/44708	EPA 625	MSSV/14317
60171310001	316-328	EPA 624 Low	MSV/62292		
60171310002	TRIP BLANK	EPA 624 Low	MSV/62292		
60171310001	316-328	EPA 1664A	WET/48501		
60171310001	316-328	EPA 1664A	WET/48508		
60171310001	316-328	SM 2540D	WET/48507		
60171310001	316-328	SM 4500-H+B	WET/48448		
60171310001	316-328	SM 5210B	WET/48432	SM 5210B	WET/48547
60171310001	316-328	EPA 350.1	WETA/29867		
60171310001	316-328	EPA 410.4	WETA/29869		

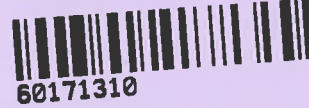
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Sample Condition Upon Receipt

WO#: 60171310



Client Name: Barr Engineering

Courier: Fed Ex UPS USPS Client Commercial Pace Other crossroads

Tracking #: _____ Pace Shipping Label Used? Yes No

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other CRC

Thermometer Used: T-239 T-194 Type of Ice: Wet Blue None Samples received on ice, cooling process has begun.

Cooler Temperature: 3.8

Date and initials of person-examining contents: Att 6/13

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>BOD/pH</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses	Matrix: <u>WT</u>	13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Sample B33N w/ initial pH 5.0, added 0.5mL HNO ₃ w/ final pH of 4.0 Sample B33S w/ initial pH 4.5 added 2mL HNO ₃ w/ final pH of 2.5
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: VOA, coliform, TOC <u>O&G</u> , WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>Att</u> Lot # of added preservative <u>12513-2-3-2</u> <u>12522-2-7</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank lot # (if purchased): <u>covered</u>		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> N/A <u>Att 6/13</u>	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: mewbr ALB

Date: 6/13/14

June 23, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-329
Pace Project No.: 60171443

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 14, 2014. 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,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Bill Abernathy, Feezor Engineering
Kelly Caddy, Barr Engineering
DAN FEEZOR, FEEZOR ENGINEERING
Dana B. Pasi, Barr Engineering Co.
Brian Power, Republic Services
Brian Sehie, Republic Services
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-329

Pace Project No.: 60171443

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-13-4

Utah Certification #: KS000212013-3

Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-329

Pace Project No.: 60171443

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60171443001	316-329	Water	06/13/14 09:30	06/14/14 00:30
60171443002	TRIP BLANK	Water	06/13/14 09:30	06/14/14 00:30

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-329

Pace Project No.: 60171443

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60171443001	316-329	EPA 200.7	JGP, NDJ	15
		EPA 200.7	JGP	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	CRT	1
		EPA 1664A	CRT	1
		SM 2540D	ESM	1
		SM 4500-H+B	NDL	1
		SM 5210B	NDL	1
		EPA 350.1	JML	1
		EPA 410.4	JMC1	1
		60171443002	TRIP BLANK	EPA 624 Low

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-329

Pace Project No.: 60171443

Sample: 316-329		Lab ID: 60171443001	Collected: 06/13/14 09:30	Received: 06/14/14 00:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	9020 ug/L		750	2	06/18/14 10:15	06/18/14 16:18	7429-90-5	
Antimony	53.2 ug/L		50.0	1	06/18/14 10:15	06/19/14 15:12	7440-36-0	
Arsenic	889 ug/L		100	2	06/18/14 10:15	06/18/14 16:18	7440-38-2	
Beryllium	ND ug/L		5.0	1	06/18/14 10:15	06/18/14 16:15	7440-41-7	
Cadmium	ND ug/L		25.0	1	06/18/14 10:15	06/19/14 15:12	7440-43-9	
Chromium	178 ug/L		25.0	1	06/18/14 10:15	06/18/14 16:15	7440-47-3	
Cobalt	27.2 ug/L		25.0	1	06/18/14 10:15	06/19/14 15:12	7440-48-4	
Copper	ND ug/L		50.0	1	06/18/14 10:15	06/18/14 16:15	7440-50-8	
Iron	520000 ug/L		250	1	06/18/14 10:15	06/18/14 16:15	7439-89-6	
Lead	76.0 ug/L		25.0	1	06/18/14 10:15	06/19/14 15:12	7439-92-1	
Nickel	116 ug/L		50.0	2	06/18/14 10:15	06/18/14 16:18	7440-02-0	
Selenium	ND ug/L		75.0	1	06/18/14 10:15	06/19/14 15:12	7782-49-2	
Silver	ND ug/L		35.0	1	06/18/14 10:15	06/18/14 16:15	7440-22-4	
Thallium	ND ug/L		100	1	06/18/14 10:15	06/19/14 15:12	7440-28-0	
Zinc	2830 ug/L		500	2	06/18/14 10:15	06/18/14 16:18	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	1010 ug/L		750	2	06/18/14 09:30	06/18/14 15:17	7429-90-5	
Antimony, Dissolved	ND ug/L		100	2	06/18/14 09:30	06/18/14 15:17	7440-36-0	D3
Arsenic, Dissolved	794 ug/L		50.0	1	06/18/14 09:30	06/18/14 15:13	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	06/18/14 09:30	06/18/14 15:13	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	06/18/14 09:30	06/18/14 15:13	7440-43-9	
Chromium, Dissolved	141 ug/L		25.0	1	06/18/14 09:30	06/18/14 15:13	7440-47-3	
Cobalt, Dissolved	ND ug/L		25.0	1	06/18/14 09:30	06/18/14 15:13	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	06/18/14 09:30	06/18/14 15:13	7440-50-8	
Iron, Dissolved	251000 ug/L		250	1	06/18/14 09:30	06/18/14 15:13	7439-89-6	
Lead, Dissolved	44.5 ug/L		25.0	1	06/18/14 09:30	06/18/14 15:13	7439-92-1	
Nickel, Dissolved	78.0 ug/L		25.0	1	06/18/14 09:30	06/18/14 15:13	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	06/18/14 09:30	06/18/14 15:13	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	06/18/14 09:30	06/18/14 15:13	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	06/18/14 09:30	06/18/14 15:13	7440-28-0	
Zinc, Dissolved	2800 ug/L		500	2	06/18/14 09:30	06/18/14 15:17	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	ND ug/L		6.0	1	06/22/14 12:00	06/22/14 19:01	7439-97-6	
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND ug/L		6.0	1	06/17/14 14:30	06/18/14 14:23	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	06/19/14 00:00	06/20/14 14:26	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	06/19/14 00:00	06/20/14 14:26	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	06/19/14 00:00	06/20/14 14:26	77-47-4	
Hexachloroethane	ND ug/L		1000	2	06/19/14 00:00	06/20/14 14:26	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	2	06/19/14 00:00	06/20/14 14:26	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	9100 ug/L		4000	2	06/19/14 00:00	06/20/14 14:26		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-329

Pace Project No.: 60171443

Sample: 316-329 **Lab ID: 60171443001** Collected: 06/13/14 09:30 Received: 06/14/14 00:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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625 MSSV

Analytical Method: EPA 625 Preparation Method: EPA 625

Naphthalene	3870 ug/L		1000	2	06/19/14 00:00	06/20/14 14:26	91-20-3	
Nitrobenzene	ND	ug/L	1000	2	06/19/14 00:00	06/20/14 14:26	98-95-3	
Pentachlorophenol	ND	ug/L	1000	2	06/19/14 00:00	06/20/14 14:26	87-86-5	
Phenol	9970 ug/L		1000	2	06/19/14 00:00	06/20/14 14:26	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	1000	2	06/19/14 00:00	06/20/14 14:26	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	1000	2	06/19/14 00:00	06/20/14 14:26	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	172 %		33-120	2	06/19/14 00:00	06/20/14 14:26	4165-60-0	S0
2-Fluorobiphenyl (S)	87 %		39-120	2	06/19/14 00:00	06/20/14 14:26	321-60-8	
Terphenyl-d14 (S)	88 %		45-120	2	06/19/14 00:00	06/20/14 14:26	1718-51-0	
Phenol-d6 (S)	30 %		11-120	2	06/19/14 00:00	06/20/14 14:26	13127-88-3	
2-Fluorophenol (S)	54 %		17-120	2	06/19/14 00:00	06/20/14 14:26	367-12-4	
2,4,6-Tribromophenol (S)	92 %		39-120	2	06/19/14 00:00	06/20/14 14:26	118-79-6	

624 Volatile Organics

Analytical Method: EPA 624 Low

Acetone	93100 ug/L		2500	250		06/18/14 21:27	67-64-1	N2
Benzene	ND	ug/L	250	250		06/18/14 21:27	71-43-2	
Bromodichloromethane	ND	ug/L	250	250		06/18/14 21:27	75-27-4	
Bromoform	ND	ug/L	250	250		06/18/14 21:27	75-25-2	
Bromomethane	ND	ug/L	1250	250		06/18/14 21:27	74-83-9	
2-Butanone (MEK)	41600 ug/L		2500	250		06/18/14 21:27	78-93-3	N2
Carbon tetrachloride	ND	ug/L	250	250		06/18/14 21:27	56-23-5	
Chloroethane	ND	ug/L	250	250		06/18/14 21:27	75-00-3	
Chloroform	ND	ug/L	250	250		06/18/14 21:27	67-66-3	
1,4-Dichlorobenzene	785 ug/L		250	250		06/18/14 21:27	106-46-7	
1,2-Dichloroethane	ND	ug/L	250	250		06/18/14 21:27	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	250	250		06/18/14 21:27	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	250	250		06/18/14 21:27	156-60-5	
Ethylbenzene	ND	ug/L	250	250		06/18/14 21:27	100-41-4	
Methylene chloride	ND	ug/L	250	250		06/18/14 21:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2500	250		06/18/14 21:27	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	250	250		06/18/14 21:27	79-34-5	N2
Tetrachloroethene	ND	ug/L	250	250		06/18/14 21:27	127-18-4	
Toluene	ND	ug/L	250	250		06/18/14 21:27	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	250	250		06/18/14 21:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	250	250		06/18/14 21:27	79-00-5	
Trichloroethene	ND	ug/L	250	250		06/18/14 21:27	79-01-6	
Vinyl chloride	ND	ug/L	250	250		06/18/14 21:27	75-01-4	
Xylene (Total)	ND	ug/L	750	250		06/18/14 21:27	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100 %		80-120	250		06/18/14 21:27	460-00-4	
Toluene-d8 (S)	97 %		80-120	250		06/18/14 21:27	2037-26-5	
1,2-Dichloroethane-d4 (S)	92 %		80-120	250		06/18/14 21:27	17060-07-0	
Preservation pH	6.0		1.0	250		06/18/14 21:27		

HEM, Oil and Grease

Analytical Method: EPA 1664A

Oil and Grease	1070 mg/L		5.0	1		06/17/14 14:52		
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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-329

Pace Project No.: 60171443

Sample: 316-329		Lab ID: 60171443001	Collected: 06/13/14 09:30	Received: 06/14/14 00:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	15.6	mg/L	5.0	1		06/17/14 16:04		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	4380	mg/L	5.0	1		06/18/14 13:41		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.5	Std. Units	0.10	1		06/18/14 09:15		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	34100	mg/L	2.0	1	06/14/14 12:08	06/19/14 14:27		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	528	mg/L	20.0	200		06/18/14 12:17	7664-41-7	M1
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	54900	mg/L	5000	500		06/23/14 11:03		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-329

Pace Project No.: 60171443

Sample: TRIP BLANK		Lab ID: 60171443002	Collected: 06/13/14 09:30	Received: 06/14/14 00:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		06/18/14 20:24	67-64-1	N2
Benzene	ND ug/L		1.0	1		06/18/14 20:24	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		06/18/14 20:24	75-27-4	
Bromoform	ND ug/L		1.0	1		06/18/14 20:24	75-25-2	
Bromomethane	ND ug/L		5.0	1		06/18/14 20:24	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/18/14 20:24	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		06/18/14 20:24	56-23-5	
Chloroethane	ND ug/L		1.0	1		06/18/14 20:24	75-00-3	
Chloroform	ND ug/L		1.0	1		06/18/14 20:24	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		06/18/14 20:24	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		06/18/14 20:24	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		06/18/14 20:24	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		06/18/14 20:24	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		06/18/14 20:24	100-41-4	
Methylene chloride	ND ug/L		1.0	1		06/18/14 20:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/18/14 20:24	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		06/18/14 20:24	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		06/18/14 20:24	127-18-4	
Toluene	ND ug/L		1.0	1		06/18/14 20:24	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		06/18/14 20:24	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		06/18/14 20:24	79-00-5	
Trichloroethene	ND ug/L		1.0	1		06/18/14 20:24	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		06/18/14 20:24	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		06/18/14 20:24	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	98 %		80-120	1		06/18/14 20:24	460-00-4	
Toluene-d8 (S)	97 %		80-120	1		06/18/14 20:24	2037-26-5	
1,2-Dichloroethane-d4 (S)	90 %		80-120	1		06/18/14 20:24	17060-07-0	
Preservation pH	6.0		1.0	1		06/18/14 20:24		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-329

Pace Project No.: 60171443

QC Batch: MERP/8514

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60171443001

METHOD BLANK: 1398965

Matrix: Water

Associated Lab Samples: 60171443001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	06/22/14 18:56	

LABORATORY CONTROL SAMPLE: 1398966

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1398967 1398968

Parameter	Units	60171556001		1398967		1398968		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Mercury	ug/L	ND	150	150	148	149	98	98	70-130	0	20

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-329

Pace Project No.: 60171443

QC Batch:	MERP/8492	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury - Dissolved
Associated Lab Samples:	60171443001		

METHOD BLANK: 1395637 Matrix: Water
Associated Lab Samples: 60171443001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	06/18/14 14:07	

LABORATORY CONTROL SAMPLE: 1395638

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.3	86	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1395639 1395640

Parameter	Units	60171084001		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	ND	Spike Conc.	Conc.	Result	Result	% Rec	% Rec						
Mercury, Dissolved	ug/L	ND	150	150	124	129	83	86	70-130	4	20				

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: BRIDGETON LF 316-329
Pace Project No.: 60171443

QC Batch: MPRP/27685 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60171443001

METHOD BLANK: 1396074 Matrix: Water
Associated Lab Samples: 60171443001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	06/18/14 16:06	
Antimony	ug/L	ND	10.0	06/18/14 16:06	
Arsenic	ug/L	ND	10.0	06/18/14 16:06	
Beryllium	ug/L	ND	1.0	06/18/14 16:06	
Cadmium	ug/L	ND	5.0	06/18/14 16:06	
Chromium	ug/L	ND	5.0	06/18/14 16:06	
Cobalt	ug/L	ND	5.0	06/18/14 16:06	
Copper	ug/L	ND	10.0	06/18/14 16:06	
Iron	ug/L	ND	50.0	06/18/14 16:06	
Lead	ug/L	ND	5.0	06/18/14 16:06	
Nickel	ug/L	ND	5.0	06/18/14 16:06	
Selenium	ug/L	ND	15.0	06/18/14 16:06	
Silver	ug/L	ND	7.0	06/18/14 16:06	
Thallium	ug/L	ND	20.0	06/18/14 16:06	
Zinc	ug/L	ND	50.0	06/18/14 16:06	

LABORATORY CONTROL SAMPLE: 1396075

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10400	104	85-115	
Antimony	ug/L	1000	1070	107	85-115	
Arsenic	ug/L	1000	967	97	85-115	
Beryllium	ug/L	1000	1020	102	85-115	
Cadmium	ug/L	1000	1040	104	85-115	
Chromium	ug/L	1000	989	99	85-115	
Cobalt	ug/L	1000	1020	102	85-115	
Copper	ug/L	1000	1100	110	85-115	
Iron	ug/L	10000	9760	98	85-115	
Lead	ug/L	1000	1040	104	85-115	
Nickel	ug/L	1000	1060	106	85-115	
Selenium	ug/L	1000	1040	104	85-115	
Silver	ug/L	500	509	102	85-115	
Thallium	ug/L	1000	1020	102	85-115	
Zinc	ug/L	1000	930	93	85-115	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-329

Pace Project No.: 60171443

Parameter	Units	60171556001		MS		MSD		MS		MSD		% Rec	% Rec	Limits	RPD	RPD	Max	Qual
		Result	Conc.	Spike	Conc.	Result	Conc.	Result	Conc.	Result	Conc.							
Aluminum	ug/L	2410	50000	50000	50000	55400	55800	106	107	70-130	1	8						
Antimony	ug/L	51.2	5000	5000	5000	5380	5440	107	108	70-130	1	7						
Arsenic	ug/L	1100	5000	5000	5000	6540	6620	109	110	70-130	1	10						
Beryllium	ug/L	ND	5000	5000	5000	5000	5000	100	100	70-130	0	7						
Cadmium	ug/L	ND	5000	5000	5000	5320	5360	106	107	70-130	1	10						
Chromium	ug/L	154	5000	5000	5000	4940	4980	96	97	70-130	1	10						
Cobalt	ug/L	ND	5000	5000	5000	4970	5010	99	100	70-130	1	6						
Copper	ug/L	ND	5000	5000	5000	5840	5860	116	117	70-130	0	11						
Iron	ug/L	311000	50000	50000	50000	363000	359000	104	96	70-130	1	10						
Lead	ug/L	32.2	5000	5000	5000	4720	4770	94	95	70-130	1	10						
Nickel	ug/L	93.3	5000	5000	5000	5220	5230	102	103	70-130	0	10						
Selenium	ug/L	ND	5000	5000	5000	6070	6090	121	122	70-130	0	10						
Silver	ug/L	ND	2500	2500	2500	2720	2720	108	108	70-130	0	10						
Thallium	ug/L	ND	5000	5000	5000	4380	4420	88	88	70-130	1	6						
Zinc	ug/L	3130	5000	5000	5000	7770	7800	93	93	70-130	0	11						

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-329

Pace Project No.: 60171443

QC Batch: MPRP/27675

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Dissolved

Associated Lab Samples: 60171443001

METHOD BLANK: 1395787

Matrix: Water

Associated Lab Samples: 60171443001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	06/18/14 14:18	
Antimony, Dissolved	ug/L	ND	10.0	06/18/14 14:18	
Arsenic, Dissolved	ug/L	ND	10.0	06/18/14 14:18	
Beryllium, Dissolved	ug/L	ND	1.0	06/18/14 14:18	
Cadmium, Dissolved	ug/L	ND	5.0	06/18/14 14:18	
Chromium, Dissolved	ug/L	ND	5.0	06/18/14 14:18	
Cobalt, Dissolved	ug/L	ND	5.0	06/18/14 14:18	
Copper, Dissolved	ug/L	ND	10.0	06/18/14 14:18	
Iron, Dissolved	ug/L	ND	50.0	06/18/14 14:18	
Lead, Dissolved	ug/L	ND	5.0	06/18/14 14:18	
Nickel, Dissolved	ug/L	ND	5.0	06/18/14 14:18	
Selenium, Dissolved	ug/L	ND	15.0	06/18/14 14:18	
Silver, Dissolved	ug/L	ND	7.0	06/18/14 14:18	
Thallium, Dissolved	ug/L	ND	20.0	06/18/14 14:18	
Zinc, Dissolved	ug/L	ND	50.0	06/18/14 14:18	

LABORATORY CONTROL SAMPLE: 1395788

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9860	99	85-115	
Antimony, Dissolved	ug/L	1000	1030	103	85-115	
Arsenic, Dissolved	ug/L	1000	993	99	85-115	
Beryllium, Dissolved	ug/L	1000	992	99	85-115	
Cadmium, Dissolved	ug/L	1000	1020	102	85-115	
Chromium, Dissolved	ug/L	1000	997	100	85-115	
Cobalt, Dissolved	ug/L	1000	1040	104	85-115	
Copper, Dissolved	ug/L	1000	1000	100	85-115	
Iron, Dissolved	ug/L	10000	9590	96	85-115	
Lead, Dissolved	ug/L	1000	1030	103	85-115	
Nickel, Dissolved	ug/L	1000	1040	104	85-115	
Selenium, Dissolved	ug/L	1000	1010	101	85-115	
Silver, Dissolved	ug/L	500	503	101	85-115	
Thallium, Dissolved	ug/L	1000	1050	105	85-115	
Zinc, Dissolved	ug/L	1000	1010	101	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-329

Pace Project No.: 60171443

Parameter	Units	60171209001		MS		MSD		MS		MSD		% Rec	% Rec	Limits	RPD	Max	RPD	Qual
		Result	Conc.	Spike	Conc.	Result	Conc.	Result	Conc.									
Aluminum, Dissolved	ug/L	1100	50000	50000	49400	49700	97	97	70-130	1	8							
Antimony, Dissolved	ug/L	ND	5000	5000	5290	5300	105	105	70-130	0	7							
Arsenic, Dissolved	ug/L	708	5000	5000	6100	6280	108	112	70-130	3	10							
Beryllium, Dissolved	ug/L	ND	5000	5000	4790	4750	96	95	70-130	1	7							
Cadmium, Dissolved	ug/L	ND	5000	5000	5330	5340	107	107	70-130	0	10							
Chromium, Dissolved	ug/L	144	5000	5000	5090	5120	99	100	70-130	1	10							
Cobalt, Dissolved	ug/L	ND	5000	5000	5040	5040	101	100	70-130	0	6							
Copper, Dissolved	ug/L	ND	5000	5000	5080	5090	101	101	70-130	0	11							
Iron, Dissolved	ug/L	270000	50000	50000	305000	344000	71	147	70-130	12	10	M1, R1						
Lead, Dissolved	ug/L	30.9	5000	5000	4790	4760	95	95	70-130	1	10							
Nickel, Dissolved	ug/L	71.0	5000	5000	5060	5060	100	100	70-130	0	10							
Selenium, Dissolved	ug/L	ND	5000	5000	5740	5860	115	117	70-130	2	10							
Silver, Dissolved	ug/L	ND	2500	2500	2670	2680	107	107	70-130	0	10							
Thallium, Dissolved	ug/L	ND	5000	5000	4570	4540	91	91	70-130	1	6							
Zinc, Dissolved	ug/L	3220	5000	5000	8050	8540	97	106	70-130	6	11							

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-329

Pace Project No.: 60171443

QC Batch: MSV/62399 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60171443001, 60171443002

METHOD BLANK: 1396468 Matrix: Water

Associated Lab Samples: 60171443001, 60171443002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/18/14 20:09	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/18/14 20:09	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	06/18/14 20:09	
1,2-Dichloroethane	ug/L	ND	1.0	06/18/14 20:09	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/18/14 20:09	
2-Butanone (MEK)	ug/L	ND	10.0	06/18/14 20:09	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/18/14 20:09	N2
Acetone	ug/L	ND	10.0	06/18/14 20:09	N2
Benzene	ug/L	ND	1.0	06/18/14 20:09	
Bromodichloromethane	ug/L	ND	1.0	06/18/14 20:09	
Bromoform	ug/L	ND	1.0	06/18/14 20:09	
Bromomethane	ug/L	ND	5.0	06/18/14 20:09	
Carbon tetrachloride	ug/L	ND	1.0	06/18/14 20:09	
Chloroethane	ug/L	ND	1.0	06/18/14 20:09	
Chloroform	ug/L	ND	1.0	06/18/14 20:09	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/18/14 20:09	N2
Ethylbenzene	ug/L	ND	1.0	06/18/14 20:09	
Methylene chloride	ug/L	ND	1.0	06/18/14 20:09	
Tetrachloroethene	ug/L	ND	1.0	06/18/14 20:09	
Toluene	ug/L	ND	1.0	06/18/14 20:09	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/18/14 20:09	
Trichloroethene	ug/L	ND	1.0	06/18/14 20:09	
Vinyl chloride	ug/L	ND	1.0	06/18/14 20:09	
Xylene (Total)	ug/L	ND	3.0	06/18/14 20:09	N2
1,2-Dichloroethane-d4 (S)	%	96	80-120	06/18/14 20:09	
4-Bromofluorobenzene (S)	%	97	80-120	06/18/14 20:09	
Toluene-d8 (S)	%	99	80-120	06/18/14 20:09	

LABORATORY CONTROL SAMPLE: 1396469

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	17.7	88	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	19.3	96	67-127	N2
1,1,2-Trichloroethane	ug/L	20	19.5	98	67-124	
1,2-Dichloroethane	ug/L	20	17.3	86	70-126	
1,4-Dichlorobenzene	ug/L	20	18.9	95	74-120	
2-Butanone (MEK)	ug/L	100	94.3	94	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	99.6	100	59-131	N2
Acetone	ug/L	100	92.8	93	38-134	N2
Benzene	ug/L	20	18.1	90	75-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-329

Pace Project No.: 60171443

LABORATORY CONTROL SAMPLE: 1396469

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	20	18.9	94	68-125	
Bromoform	ug/L	20	18.8	94	65-127	
Bromomethane	ug/L	20	7.4	37	13-157	
Carbon tetrachloride	ug/L	20	17.2	86	70-131	
Chloroethane	ug/L	20	19.0	95	47-133	
Chloroform	ug/L	20	17.8	89	65-127	
cis-1,2-Dichloroethene	ug/L	20	18.5	92	68-127	N2
Ethylbenzene	ug/L	20	18.9	94	74-122	
Methylene chloride	ug/L	20	16.9	85	64-129	
Tetrachloroethene	ug/L	20	19.2	96	73-125	
Toluene	ug/L	20	17.6	88	69-126	
trans-1,2-Dichloroethene	ug/L	20	17.3	86	66-129	
Trichloroethene	ug/L	20	18.3	91	71-123	
Vinyl chloride	ug/L	20	14.2	71	43-129	
Xylene (Total)	ug/L	60	56.6	94	75-121	N2
1,2-Dichloroethane-d4 (S)	%			95	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			94	80-120	

MATRIX SPIKE SAMPLE: 1396470

Parameter	Units	60171556001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	3910	78	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	4770	93	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	4340	87	52-143	
1,2-Dichloroethane	ug/L	ND	5000	3710	74	49-144	
1,4-Dichlorobenzene	ug/L	634	5000	4830	84	33-140	
2-Butanone (MEK)	ug/L	39400	25000	67500	112	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	23000	89	40-160	N2
Acetone	ug/L	99200	25000	127000	109	10-160	N2
Benzene	ug/L	ND	5000	4010	80	37-151	
Bromodichloromethane	ug/L	ND	5000	4010	80	35-142	
Bromoform	ug/L	ND	5000	4320	86	45-142	
Bromomethane	ug/L	ND	5000	1880	38	10-158	
Carbon tetrachloride	ug/L	ND	5000	4130	83	70-140	
Chloroethane	ug/L	ND	5000	3690	74	19-152	
Chloroform	ug/L	ND	5000	3890	78	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	4150	83	34-147	N2
Ethylbenzene	ug/L	ND	5000	4240	85	40-142	
Methylene chloride	ug/L	ND	5000	3850	76	31-144	
Tetrachloroethene	ug/L	ND	5000	4400	88	64-148	
Toluene	ug/L	ND	5000	3890	78	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	3880	78	54-151	
Trichloroethene	ug/L	ND	5000	3880	78	71-149	
Vinyl chloride	ug/L	ND	5000	3300	66	22-146	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-329

Pace Project No.: 60171443

MATRIX SPIKE SAMPLE:		1396470					
Parameter	Units	60171556001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	ND	15000	12600	84	37-144	N2
1,2-Dichloroethane-d4 (S)	%				92	80-120	
4-Bromofluorobenzene (S)	%				102	80-120	
Toluene-d8 (S)	%				95	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-329
Pace Project No.: 60171443

QC Batch: OEXT/44731 Analysis Method: EPA 625
QC Batch Method: EPA 625 Analysis Description: 625 MSS
Associated Lab Samples: 60171443001

METHOD BLANK: 1396677 Matrix: Water
Associated Lab Samples: 60171443001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/20/14 09:31	
2,4,6-Trichlorophenol	ug/L	ND	5.0	06/20/14 09:31	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	06/20/14 09:31	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	06/20/14 09:31	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	06/20/14 09:31	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/20/14 09:31	
Hexachlorocyclopentadiene	ug/L	ND	5.0	06/20/14 09:31	
Hexachloroethane	ug/L	ND	5.0	06/20/14 09:31	
Naphthalene	ug/L	ND	5.0	06/20/14 09:31	
Nitrobenzene	ug/L	ND	5.0	06/20/14 09:31	
Pentachlorophenol	ug/L	ND	5.0	06/20/14 09:31	
Phenol	ug/L	ND	5.0	06/20/14 09:31	
2,4,6-Tribromophenol (S)	%	77	39-120	06/20/14 09:31	
2-Fluorobiphenyl (S)	%	75	39-120	06/20/14 09:31	
2-Fluorophenol (S)	%	38	17-120	06/20/14 09:31	
Nitrobenzene-d5 (S)	%	74	33-120	06/20/14 09:31	
Phenol-d6 (S)	%	23	11-120	06/20/14 09:31	
Terphenyl-d14 (S)	%	68	45-120	06/20/14 09:31	

LABORATORY CONTROL SAMPLE: 1396678

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	39.8	80	46-120	
2,4,6-Trichlorophenol	ug/L	50	42.0	84	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	30.7	61	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	25.8	52	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	47.6	95	40-133	
Hexachloro-1,3-butadiene	ug/L	50	39.7	79	44-116	
Hexachlorocyclopentadiene	ug/L	100	38.7	39	24-120	
Hexachloroethane	ug/L	50	34.8	70	43-113	
Naphthalene	ug/L	50	40.9	82	48-120	
Nitrobenzene	ug/L	50	42.1	84	48-120	
Pentachlorophenol	ug/L	50	39.5	79	47-120	
Phenol	ug/L	50	13.3	27	16-112	
2,4,6-Tribromophenol (S)	%			87	39-120	
2-Fluorobiphenyl (S)	%			85	39-120	
2-Fluorophenol (S)	%			40	17-120	
Nitrobenzene-d5 (S)	%			83	33-120	
Phenol-d6 (S)	%			24	11-120	
Terphenyl-d14 (S)	%			83	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-329

Pace Project No.: 60171443

MATRIX SPIKE SAMPLE:		1396679					
Parameter	Units	60171556001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	36.1	72	44-120	
2,4,6-Trichlorophenol	ug/L	ND	50	43.1	86	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	50	32.6	65	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	6640	50	99.9	-13085	27-120	M1,N2
4,6-Dinitro-2-methylphenol	ug/L	ND	50	41.1J	82	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	50	36.3	73	39-116	
Hexachlorocyclopentadiene	ug/L	ND	100	39.0	39	11-120	
Hexachloroethane	ug/L	ND	50	34.6	69	40-113	
Naphthalene	ug/L	2700	50	56.2	-5294	45-120	M1
Nitrobenzene	ug/L	ND	50	43.4	87	38-120	
Pentachlorophenol	ug/L	ND	50	44.8	90	43-135	
Phenol	ug/L	10000	50	105	-19787	13-112	M1
2,4,6-Tribromophenol (S)	%				88	39-120	
2-Fluorobiphenyl (S)	%				78	39-120	
2-Fluorophenol (S)	%				38	17-120	
Nitrobenzene-d5 (S)	%				150	33-120	S0
Phenol-d6 (S)	%				26	11-120	
Terphenyl-d14 (S)	%				75	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-329

Pace Project No.: 60171443

QC Batch:	WET/48501	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60171443001		

METHOD BLANK: 1395661 Matrix: Water

Associated Lab Samples: 60171443001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	06/17/14 14:47	

LABORATORY CONTROL SAMPLE: 1395662

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	35.3	88	78-114	

MATRIX SPIKE SAMPLE: 1395663

Parameter	Units	60171156001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	40.4	33.1	77	78-114	M1

SAMPLE DUPLICATE: 1395664

Parameter	Units	60171154001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	47.0	42.9	9	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-329

Pace Project No.: 60171443

QC Batch: WET/48508

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60171443001

METHOD BLANK: 1395697

Matrix: Water

Associated Lab Samples: 60171443001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	06/17/14 16:02	

LABORATORY CONTROL SAMPLE: 1395698

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	22.4	112	64-132	

MATRIX SPIKE SAMPLE: 1395699

Parameter	Units	60171156001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	20.2	9.5	43	64-132	M1

SAMPLE DUPLICATE: 1395700

Parameter	Units	60171154001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	3.8J		34	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-329

Pace Project No.: 60171443

QC Batch:	WET/48528	Analysis Method:	SM 2540D
QC Batch Method:	SM 2540D	Analysis Description:	2540D Total Suspended Solids
Associated Lab Samples:	60171443001		

METHOD BLANK: 1396048 Matrix: Water

Associated Lab Samples: 60171443001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	06/18/14 13:37	

SAMPLE DUPLICATE: 1396049

Parameter	Units	60171322001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	8.0	6.0	29	10	D6

SAMPLE DUPLICATE: 1396050

Parameter	Units	60171474002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	82.0	83.0	1	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-329

Pace Project No.: 60171443

QC Batch: WET/48518 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60171443001

SAMPLE DUPLICATE: 1395899

Parameter	Units	60171556001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.4	5.4	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-329

Pace Project No.: 60171443

QC Batch: WET/48460

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60171443001

METHOD BLANK: 1394496

Matrix: Water

Associated Lab Samples: 60171443001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	06/19/14 14:21	

LABORATORY CONTROL SAMPLE: 1394497

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	210	106	85-115	

SAMPLE DUPLICATE: 1394498

Parameter	Units	60171447001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	553	588	6	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-329

Pace Project No.: 60171443

QC Batch: WETA/29867

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 60171443001

METHOD BLANK: 1396069

Matrix: Water

Associated Lab Samples: 60171443001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	06/18/14 11:59	

LABORATORY CONTROL SAMPLE: 1396070

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	106	90-110	

MATRIX SPIKE SAMPLE: 1396071

Parameter	Units	60171166001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.9	93	90-110	

MATRIX SPIKE SAMPLE: 1396073

Parameter	Units	60171443001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	528	400	883	89	90-110	M1

SAMPLE DUPLICATE: 1396072

Parameter	Units	60171166003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-329

Pace Project No.: 60171443

QC Batch:	WETA/29911	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60171443001		

METHOD BLANK: 1397675 Matrix: Water
Associated Lab Samples: 60171443001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	06/23/14 11:01	

LABORATORY CONTROL SAMPLE: 1397676

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	52.4	105	90-110	

MATRIX SPIKE SAMPLE: 1397677

Parameter	Units	60171390001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	23.1	50	70.1	94	90-110	

MATRIX SPIKE SAMPLE: 1397679

Parameter	Units	60171214006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	37.4	50	80.5	86	90-110	M1

SAMPLE DUPLICATE: 1397678

Parameter	Units	60171443001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	54900	55900	2	25	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 316-329

Pace Project No.: 60171443

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.

PQL - Practical Quantitation 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.

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

- D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
- D6 The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
- 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.
- N2 The lab does not hold TNI accreditation for this parameter.
- R1 RPD value was outside control limits.
- S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-329

Pace Project No.: 60171443

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60171443001	316-329	EPA 200.7	MPRP/27685	EPA 200.7	ICP/20922
60171443001	316-329	EPA 200.7	MPRP/27675	EPA 200.7	ICP/20921
60171443001	316-329	EPA 245.1	MERP/8514	EPA 245.1	MERC/8469
60171443001	316-329	EPA 245.1	MERP/8492	EPA 245.1	MERC/8446
60171443001	316-329	EPA 625	OEXT/44731	EPA 625	MSSV/14323
60171443001	316-329	EPA 624 Low	MSV/62399		
60171443002	TRIP BLANK	EPA 624 Low	MSV/62399		
60171443001	316-329	EPA 1664A	WET/48501		
60171443001	316-329	EPA 1664A	WET/48508		
60171443001	316-329	SM 2540D	WET/48528		
60171443001	316-329	SM 4500-H+B	WET/48518		
60171443001	316-329	SM 5210B	WET/48460	SM 5210B	WET/48562
60171443001	316-329	EPA 350.1	WETA/29867		
60171443001	316-329	EPA 410.4	WETA/29911		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60171443



Client Name: Barr Engineering

Courier: Fed Ex UPS USPS Client Commercial Pace Other X-Boats

Tracking #: _____ Pace Shipping Label Used? Yes No

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other 2pc

Thermometer Used: T-239 / T-194 Type of Ice: Wet Blue None Samples received on ice, cooling process has begun.

Cooler Temperature: 4.8

Date and initials of person examining contents: 12/14/14 [Signature]

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>BOD, pH</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix: <u>WT</u>		13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>initial pH BPSN 6.0, added 3.5ml Hno3 final 4.5.</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<u>14. initial pH BPS 4.5, added 3.5 ml H2SO4 final 2.0</u>
Exceptions: <u>VOA</u> , coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>[Signature]</u> Lot # of added preservative <u>12522-2-7 H2SO4 12513-23-2 Hno3</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank lot # (if purchased): <u>covered</u>		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <u>MD</u>

Client Notification/ Resolution: Copy COC to Client? Y N Field Data Required? Y N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 12/15/14

June 23, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-330
Pace Project No.: 60171549

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 16, 2014. 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,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Bill Abernathy, Feezor Engineering
Kelly Caddy, Barr Engineering
DAN FEEZOR, FEEZOR ENGINEERING
Dana B. Pasi, Barr Engineering Co.
Brian Power, Republic Services
Brian Sehie, Republic Services
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-330

Pace Project No.: 60171549

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-13-4

Utah Certification #: KS000212013-3

Illinois Certification #: 003097

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-330

Pace Project No.: 60171549

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60171549001	316-330	Water	06/14/14 17:10	06/16/14 13:05
60171549002	TRIP BLANK	Water	06/14/14 17:10	06/16/14 13:05

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-330

Pace Project No.: 60171549

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60171549001	316-330	EPA 200.7	JGP, NDJ	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	CRT	1
		EPA 1664A	CRT	1
		SM 2540D	ESM	1
		SM 4500-H+B	NDL	1
		SM 5210B	NDL	1
		EPA 350.1	JML	1
		EPA 410.4	JMC1	1
		60171549002	TRIP BLANK	EPA 624 Low

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PROJECT NARRATIVE

Project: BRIDGETON LF 316-330

Pace Project No.: 60171549

Date: June 23, 2014

The samples were received outside of required temperature range. Analysis was completed upon client approval.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-330

Pace Project No.: 60171549

Sample: 316-330	Lab ID: 60171549001	Collected: 06/14/14 17:10	Received: 06/16/14 13:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Aluminum	9340 ug/L		750	2	06/18/14 10:15	06/18/14 16:23	7429-90-5	
Antimony	58.1 ug/L		50.0	1	06/18/14 10:15	06/19/14 15:14	7440-36-0	
Arsenic	1140 ug/L		100	2	06/18/14 10:15	06/18/14 16:23	7440-38-2	
Beryllium	ND ug/L		5.0	1	06/18/14 10:15	06/18/14 16:20	7440-41-7	
Cadmium	ND ug/L		25.0	1	06/18/14 10:15	06/19/14 15:14	7440-43-9	
Chromium	207 ug/L		25.0	1	06/18/14 10:15	06/18/14 16:20	7440-47-3	
Cobalt	31.4 ug/L		25.0	1	06/18/14 10:15	06/19/14 15:14	7440-48-4	
Copper	ND ug/L		50.0	1	06/18/14 10:15	06/18/14 16:20	7440-50-8	
Iron	60000 ug/L		250	1	06/18/14 10:15	06/18/14 16:20	7439-89-6	
Lead	94.1 ug/L		25.0	1	06/18/14 10:15	06/19/14 15:14	7439-92-1	
Nickel	132 ug/L		50.0	2	06/18/14 10:15	06/18/14 16:23	7440-02-0	
Selenium	ND ug/L		75.0	1	06/18/14 10:15	06/19/14 15:14	7782-49-2	
Silver	ND ug/L		35.0	1	06/18/14 10:15	06/18/14 16:20	7440-22-4	
Thallium	ND ug/L		100	1	06/18/14 10:15	06/19/14 15:14	7440-28-0	
Zinc	3290 ug/L		500	2	06/18/14 10:15	06/18/14 16:23	7440-66-6	
200.7 Metals, Dissolved (LF)								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Aluminum, Dissolved	2070 ug/L		750	2	06/19/14 18:40	06/20/14 14:20	7429-90-5	
Antimony, Dissolved	ND ug/L		50.0	1	06/19/14 18:40	06/20/14 14:17	7440-36-0	
Arsenic, Dissolved	1020 ug/L		50.0	1	06/19/14 18:40	06/20/14 14:17	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	06/19/14 18:40	06/20/14 14:17	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	06/19/14 18:40	06/20/14 14:17	7440-43-9	
Chromium, Dissolved	173 ug/L		25.0	1	06/19/14 18:40	06/20/14 14:17	7440-47-3	
Cobalt, Dissolved	ND ug/L		25.0	1	06/19/14 18:40	06/20/14 14:17	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	06/19/14 18:40	06/20/14 14:17	7440-50-8	
Iron, Dissolved	341000 ug/L		250	1	06/19/14 18:40	06/20/14 14:17	7439-89-6	
Lead, Dissolved	42.1 ug/L		25.0	1	06/19/14 18:40	06/20/14 14:17	7439-92-1	
Nickel, Dissolved	98.1 ug/L		25.0	1	06/19/14 18:40	06/20/14 14:17	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	06/19/14 18:40	06/20/14 14:17	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	06/19/14 18:40	06/20/14 14:17	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	06/19/14 18:40	06/20/14 14:17	7440-28-0	
Zinc, Dissolved	3190 ug/L		500	2	06/19/14 18:40	06/20/14 14:20	7440-66-6	
245.1 Mercury								
Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Mercury	ND ug/L		6.0	1	06/22/14 12:00	06/22/14 19:03	7439-97-6	
245.1 Mercury, Dissolved (LF)								
Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Mercury, Dissolved	ND ug/L		6.0	1	06/22/14 12:00	06/22/14 16:38	7439-97-6	
625 MSSV								
Analytical Method: EPA 625 Preparation Method: EPA 625								
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	06/19/14 00:00	06/20/14 14:47	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	06/19/14 00:00	06/20/14 14:47	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	06/19/14 00:00	06/20/14 14:47	77-47-4	
Hexachloroethane	ND ug/L		1000	2	06/19/14 00:00	06/20/14 14:47	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	2	06/19/14 00:00	06/20/14 14:47	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	6660 ug/L		4000	2	06/19/14 00:00	06/20/14 14:47		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-330

Pace Project No.: 60171549

Sample: 316-330		Lab ID: 60171549001	Collected: 06/14/14 17:10	Received: 06/16/14 13:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	4050 ug/L		1000	2	06/19/14 00:00	06/20/14 14:47	91-20-3	
Nitrobenzene	ND ug/L		1000	2	06/19/14 00:00	06/20/14 14:47	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	06/19/14 00:00	06/20/14 14:47	87-86-5	
Phenol	8830 ug/L		1000	2	06/19/14 00:00	06/20/14 14:47	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	06/19/14 00:00	06/20/14 14:47	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	06/19/14 00:00	06/20/14 14:47	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	168 %		33-120	2	06/19/14 00:00	06/20/14 14:47	4165-60-0	S0
2-Fluorobiphenyl (S)	87 %		39-120	2	06/19/14 00:00	06/20/14 14:47	321-60-8	
Terphenyl-d14 (S)	82 %		45-120	2	06/19/14 00:00	06/20/14 14:47	1718-51-0	
Phenol-d6 (S)	29 %		11-120	2	06/19/14 00:00	06/20/14 14:47	13127-88-3	
2-Fluorophenol (S)	44 %		17-120	2	06/19/14 00:00	06/20/14 14:47	367-12-4	
2,4,6-Tribromophenol (S)	92 %		39-120	2	06/19/14 00:00	06/20/14 14:47	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	92300 ug/L		2500	250		06/18/14 21:42	67-64-1	N2
Benzene	ND ug/L		250	250		06/18/14 21:42	71-43-2	
Bromodichloromethane	ND ug/L		250	250		06/18/14 21:42	75-27-4	
Bromoform	ND ug/L		250	250		06/18/14 21:42	75-25-2	
Bromomethane	ND ug/L		1250	250		06/18/14 21:42	74-83-9	
2-Butanone (MEK)	38800 ug/L		2500	250		06/18/14 21:42	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		06/18/14 21:42	56-23-5	
Chloroethane	ND ug/L		250	250		06/18/14 21:42	75-00-3	
Chloroform	ND ug/L		250	250		06/18/14 21:42	67-66-3	
1,4-Dichlorobenzene	1170 ug/L		250	250		06/18/14 21:42	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		06/18/14 21:42	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		06/18/14 21:42	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		06/18/14 21:42	156-60-5	
Ethylbenzene	ND ug/L		250	250		06/18/14 21:42	100-41-4	
Methylene chloride	ND ug/L		250	250		06/18/14 21:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		06/18/14 21:42	108-10-1	N2
1,1,2,2-Tetrachloroethane	266 ug/L		250	250		06/18/14 21:42	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		06/18/14 21:42	127-18-4	
Toluene	ND ug/L		250	250		06/18/14 21:42	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		06/18/14 21:42	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		06/18/14 21:42	79-00-5	
Trichloroethene	ND ug/L		250	250		06/18/14 21:42	79-01-6	
Vinyl chloride	ND ug/L		250	250		06/18/14 21:42	75-01-4	
Xylene (Total)	ND ug/L		750	250		06/18/14 21:42	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	101 %		80-120	250		06/18/14 21:42	460-00-4	
Toluene-d8 (S)	97 %		80-120	250		06/18/14 21:42	2037-26-5	
1,2-Dichloroethane-d4 (S)	93 %		80-120	250		06/18/14 21:42	17060-07-0	
Preservation pH	6.0		1.0	250		06/18/14 21:42		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	887 mg/L		5.0	1		06/18/14 16:23		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-330

Pace Project No.: 60171549

Sample: 316-330		Lab ID: 60171549001	Collected: 06/14/14 17:10	Received: 06/16/14 13:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	14.4 mg/L		5.0	1		06/18/14 16:42		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	5200 mg/L		5.0	1		06/19/14 09:44		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.4 Std. Units		0.10	1		06/18/14 09:15		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	30300 mg/L		2.0	1	06/16/14 15:15	06/21/14 07:53		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	545 mg/L		20.0	200		06/18/14 12:30	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	56000 mg/L		5000	500		06/23/14 11:25		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-330

Pace Project No.: 60171549

Sample: TRIP BLANK		Lab ID: 60171549002	Collected: 06/14/14 17:10	Received: 06/16/14 13:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		06/18/14 20:40	67-64-1	N2
Benzene	ND ug/L		1.0	1		06/18/14 20:40	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		06/18/14 20:40	75-27-4	
Bromoform	ND ug/L		1.0	1		06/18/14 20:40	75-25-2	
Bromomethane	ND ug/L		5.0	1		06/18/14 20:40	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/18/14 20:40	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		06/18/14 20:40	56-23-5	
Chloroethane	ND ug/L		1.0	1		06/18/14 20:40	75-00-3	
Chloroform	ND ug/L		1.0	1		06/18/14 20:40	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		06/18/14 20:40	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		06/18/14 20:40	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		06/18/14 20:40	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		06/18/14 20:40	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		06/18/14 20:40	100-41-4	
Methylene chloride	ND ug/L		1.0	1		06/18/14 20:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/18/14 20:40	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		06/18/14 20:40	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		06/18/14 20:40	127-18-4	
Toluene	ND ug/L		1.0	1		06/18/14 20:40	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		06/18/14 20:40	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		06/18/14 20:40	79-00-5	
Trichloroethene	ND ug/L		1.0	1		06/18/14 20:40	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		06/18/14 20:40	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		06/18/14 20:40	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100 %		80-120	1		06/18/14 20:40	460-00-4	
Toluene-d8 (S)	96 %		80-120	1		06/18/14 20:40	2037-26-5	
1,2-Dichloroethane-d4 (S)	89 %		80-120	1		06/18/14 20:40	17060-07-0	
Preservation pH	6.0		1.0	1		06/18/14 20:40		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-330

Pace Project No.: 60171549

QC Batch: MERP/8514

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60171549001

METHOD BLANK: 1398965

Matrix: Water

Associated Lab Samples: 60171549001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	06/22/14 18:56	

LABORATORY CONTROL SAMPLE: 1398966

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1398967 1398968

Parameter	Units	60171556001		1398967		1398968		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Mercury	ug/L	ND	150	150	148	149	98	98	70-130	0	20

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-330

Pace Project No.: 60171549

QC Batch: MERP/8511	Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1	Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60171549001	

METHOD BLANK: 1398951 Matrix: Water

Associated Lab Samples: 60171549001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	06/22/14 16:34	

LABORATORY CONTROL SAMPLE: 1398952

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.3	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1398953 1398954

Parameter	Units	60171556001		MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
Mercury, Dissolved	ug/L	ND	ND	150	150	135	144	90	96	70-130	7	20		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-330

Pace Project No.: 60171549

QC Batch:	MPRP/27685	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
Associated Lab Samples:	60171549001		

METHOD BLANK: 1396074 Matrix: Water

Associated Lab Samples: 60171549001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	06/18/14 16:06	
Antimony	ug/L	ND	10.0	06/18/14 16:06	
Arsenic	ug/L	ND	10.0	06/18/14 16:06	
Beryllium	ug/L	ND	1.0	06/18/14 16:06	
Cadmium	ug/L	ND	5.0	06/18/14 16:06	
Chromium	ug/L	ND	5.0	06/18/14 16:06	
Cobalt	ug/L	ND	5.0	06/18/14 16:06	
Copper	ug/L	ND	10.0	06/18/14 16:06	
Iron	ug/L	ND	50.0	06/18/14 16:06	
Lead	ug/L	ND	5.0	06/18/14 16:06	
Nickel	ug/L	ND	5.0	06/18/14 16:06	
Selenium	ug/L	ND	15.0	06/18/14 16:06	
Silver	ug/L	ND	7.0	06/18/14 16:06	
Thallium	ug/L	ND	20.0	06/18/14 16:06	
Zinc	ug/L	ND	50.0	06/18/14 16:06	

LABORATORY CONTROL SAMPLE: 1396075

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10400	104	85-115	
Antimony	ug/L	1000	1070	107	85-115	
Arsenic	ug/L	1000	967	97	85-115	
Beryllium	ug/L	1000	1020	102	85-115	
Cadmium	ug/L	1000	1040	104	85-115	
Chromium	ug/L	1000	989	99	85-115	
Cobalt	ug/L	1000	1020	102	85-115	
Copper	ug/L	1000	1100	110	85-115	
Iron	ug/L	10000	9760	98	85-115	
Lead	ug/L	1000	1040	104	85-115	
Nickel	ug/L	1000	1060	106	85-115	
Selenium	ug/L	1000	1040	104	85-115	
Silver	ug/L	500	509	102	85-115	
Thallium	ug/L	1000	1020	102	85-115	
Zinc	ug/L	1000	930	93	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-330

Pace Project No.: 60171549

Parameter	Units	60171556001		MS		MSD		MS		MSD		% Rec	% Rec	Limits	RPD	RPD	Max	Qual
		Result	Conc.	Spike	Conc.	Result	Conc.	Result	Conc.	Result	Conc.							
Aluminum	ug/L	2410	50000	50000	50000	55400	55800	106	107	70-130	1	8						
Antimony	ug/L	51.2	5000	5000	5000	5380	5440	107	108	70-130	1	7						
Arsenic	ug/L	1100	5000	5000	5000	6540	6620	109	110	70-130	1	10						
Beryllium	ug/L	ND	5000	5000	5000	5000	5000	100	100	70-130	0	7						
Cadmium	ug/L	ND	5000	5000	5000	5320	5360	106	107	70-130	1	10						
Chromium	ug/L	154	5000	5000	5000	4940	4980	96	97	70-130	1	10						
Cobalt	ug/L	ND	5000	5000	5000	4970	5010	99	100	70-130	1	6						
Copper	ug/L	ND	5000	5000	5000	5840	5860	116	117	70-130	0	11						
Iron	ug/L	311000	50000	50000	50000	363000	359000	104	96	70-130	1	10						
Lead	ug/L	32.2	5000	5000	5000	4720	4770	94	95	70-130	1	10						
Nickel	ug/L	93.3	5000	5000	5000	5220	5230	102	103	70-130	0	10						
Selenium	ug/L	ND	5000	5000	5000	6070	6090	121	122	70-130	0	10						
Silver	ug/L	ND	2500	2500	2500	2720	2720	108	108	70-130	0	10						
Thallium	ug/L	ND	5000	5000	5000	4380	4420	88	88	70-130	1	6						
Zinc	ug/L	3130	5000	5000	5000	7770	7800	93	93	70-130	0	11						

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-330
Pace Project No.: 60171549

QC Batch: MPRP/27716 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60171549001

METHOD BLANK: 1397359 Matrix: Water
Associated Lab Samples: 60171549001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	06/20/14 14:15	
Antimony, Dissolved	ug/L	ND	10.0	06/20/14 14:15	
Arsenic, Dissolved	ug/L	ND	10.0	06/20/14 14:15	
Beryllium, Dissolved	ug/L	ND	1.0	06/20/14 14:15	
Cadmium, Dissolved	ug/L	ND	5.0	06/20/14 14:15	
Chromium, Dissolved	ug/L	ND	5.0	06/20/14 14:15	
Cobalt, Dissolved	ug/L	ND	5.0	06/20/14 14:15	
Copper, Dissolved	ug/L	ND	10.0	06/20/14 14:15	
Iron, Dissolved	ug/L	ND	50.0	06/20/14 14:15	
Lead, Dissolved	ug/L	ND	5.0	06/20/14 14:15	
Nickel, Dissolved	ug/L	ND	5.0	06/20/14 14:15	
Selenium, Dissolved	ug/L	ND	15.0	06/20/14 14:15	
Silver, Dissolved	ug/L	ND	7.0	06/20/14 14:15	
Thallium, Dissolved	ug/L	ND	20.0	06/20/14 14:15	
Zinc, Dissolved	ug/L	ND	50.0	06/20/14 14:15	

LABORATORY CONTROL SAMPLE: 1397360

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10200	102	85-115	
Antimony, Dissolved	ug/L	1000	1020	102	85-115	
Arsenic, Dissolved	ug/L	1000	921	92	85-115	
Beryllium, Dissolved	ug/L	1000	1020	102	85-115	
Cadmium, Dissolved	ug/L	1000	1000	100	85-115	
Chromium, Dissolved	ug/L	1000	990	99	85-115	
Cobalt, Dissolved	ug/L	1000	996	100	85-115	
Copper, Dissolved	ug/L	1000	1040	104	85-115	
Iron, Dissolved	ug/L	10000	9860	99	85-115	
Lead, Dissolved	ug/L	1000	1010	101	85-115	
Nickel, Dissolved	ug/L	1000	1030	103	85-115	
Selenium, Dissolved	ug/L	1000	975	97	85-115	
Silver, Dissolved	ug/L	500	501	100	85-115	
Thallium, Dissolved	ug/L	1000	995	100	85-115	
Zinc, Dissolved	ug/L	1000	925	92	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-330

Pace Project No.: 60171549

Parameter	Units	60171556001		1397361		1397362		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Aluminum, Dissolved	ug/L	2100	50000	50000	54400	54400	105	105	70-130	0	8		
Antimony, Dissolved	ug/L	66.5	5000	5000	5380	5420	106	107	70-130	1	7		
Arsenic, Dissolved	ug/L	1090	5000	5000	6130	6070	101	100	70-130	1	10		
Beryllium, Dissolved	ug/L	ND	5000	5000	4960	5040	99	101	70-130	2	7		
Cadmium, Dissolved	ug/L	ND	5000	5000	5240	5270	105	105	70-130	1	10		
Chromium, Dissolved	ug/L	171	5000	5000	5020	5090	97	98	70-130	1	10		
Cobalt, Dissolved	ug/L	ND	5000	5000	4880	4920	97	98	70-130	1	6		
Copper, Dissolved	ug/L	ND	5000	5000	5460	5500	109	109	70-130	1	11		
Iron, Dissolved	ug/L	352000	50000	50000	410000	400000	116	97	70-130	2	10		
Lead, Dissolved	ug/L	41.9	5000	5000	4790	4870	95	96	70-130	1	10		
Nickel, Dissolved	ug/L	93.5	5000	5000	5060	5090	99	100	70-130	1	10		
Selenium, Dissolved	ug/L	ND	5000	5000	5480	5560	109	111	70-130	1	10		
Silver, Dissolved	ug/L	ND	2500	2500	2590	2620	103	104	70-130	1	10		
Thallium, Dissolved	ug/L	ND	5000	5000	4490	4500	90	90	70-130	0	6		
Zinc, Dissolved	ug/L	3220	5000	5000	7660	7620	89	88	70-130	0	11		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-330

Pace Project No.: 60171549

QC Batch: MSV/62399 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60171549001, 60171549002

METHOD BLANK: 1396468 Matrix: Water

Associated Lab Samples: 60171549001, 60171549002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/18/14 20:09	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/18/14 20:09	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	06/18/14 20:09	
1,2-Dichloroethane	ug/L	ND	1.0	06/18/14 20:09	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/18/14 20:09	
2-Butanone (MEK)	ug/L	ND	10.0	06/18/14 20:09	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/18/14 20:09	N2
Acetone	ug/L	ND	10.0	06/18/14 20:09	N2
Benzene	ug/L	ND	1.0	06/18/14 20:09	
Bromodichloromethane	ug/L	ND	1.0	06/18/14 20:09	
Bromoform	ug/L	ND	1.0	06/18/14 20:09	
Bromomethane	ug/L	ND	5.0	06/18/14 20:09	
Carbon tetrachloride	ug/L	ND	1.0	06/18/14 20:09	
Chloroethane	ug/L	ND	1.0	06/18/14 20:09	
Chloroform	ug/L	ND	1.0	06/18/14 20:09	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/18/14 20:09	N2
Ethylbenzene	ug/L	ND	1.0	06/18/14 20:09	
Methylene chloride	ug/L	ND	1.0	06/18/14 20:09	
Tetrachloroethene	ug/L	ND	1.0	06/18/14 20:09	
Toluene	ug/L	ND	1.0	06/18/14 20:09	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/18/14 20:09	
Trichloroethene	ug/L	ND	1.0	06/18/14 20:09	
Vinyl chloride	ug/L	ND	1.0	06/18/14 20:09	
Xylene (Total)	ug/L	ND	3.0	06/18/14 20:09	N2
1,2-Dichloroethane-d4 (S)	%	96	80-120	06/18/14 20:09	
4-Bromofluorobenzene (S)	%	97	80-120	06/18/14 20:09	
Toluene-d8 (S)	%	99	80-120	06/18/14 20:09	

LABORATORY CONTROL SAMPLE: 1396469

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	17.7	88	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	19.3	96	67-127	N2
1,1,2-Trichloroethane	ug/L	20	19.5	98	67-124	
1,2-Dichloroethane	ug/L	20	17.3	86	70-126	
1,4-Dichlorobenzene	ug/L	20	18.9	95	74-120	
2-Butanone (MEK)	ug/L	100	94.3	94	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	99.6	100	59-131	N2
Acetone	ug/L	100	92.8	93	38-134	N2
Benzene	ug/L	20	18.1	90	75-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-330

Pace Project No.: 60171549

LABORATORY CONTROL SAMPLE: 1396469

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	20	18.9	94	68-125	
Bromoform	ug/L	20	18.8	94	65-127	
Bromomethane	ug/L	20	7.4	37	13-157	
Carbon tetrachloride	ug/L	20	17.2	86	70-131	
Chloroethane	ug/L	20	19.0	95	47-133	
Chloroform	ug/L	20	17.8	89	65-127	
cis-1,2-Dichloroethene	ug/L	20	18.5	92	68-127	N2
Ethylbenzene	ug/L	20	18.9	94	74-122	
Methylene chloride	ug/L	20	16.9	85	64-129	
Tetrachloroethene	ug/L	20	19.2	96	73-125	
Toluene	ug/L	20	17.6	88	69-126	
trans-1,2-Dichloroethene	ug/L	20	17.3	86	66-129	
Trichloroethene	ug/L	20	18.3	91	71-123	
Vinyl chloride	ug/L	20	14.2	71	43-129	
Xylene (Total)	ug/L	60	56.6	94	75-121	N2
1,2-Dichloroethane-d4 (S)	%			95	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			94	80-120	

MATRIX SPIKE SAMPLE: 1396470

Parameter	Units	60171556001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	3910	78	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	4770	93	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	4340	87	52-143	
1,2-Dichloroethane	ug/L	ND	5000	3710	74	49-144	
1,4-Dichlorobenzene	ug/L	634	5000	4830	84	33-140	
2-Butanone (MEK)	ug/L	39400	25000	67500	112	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	23000	89	40-160	N2
Acetone	ug/L	99200	25000	127000	109	10-160	N2
Benzene	ug/L	ND	5000	4010	80	37-151	
Bromodichloromethane	ug/L	ND	5000	4010	80	35-142	
Bromoform	ug/L	ND	5000	4320	86	45-142	
Bromomethane	ug/L	ND	5000	1880	38	10-158	
Carbon tetrachloride	ug/L	ND	5000	4130	83	70-140	
Chloroethane	ug/L	ND	5000	3690	74	19-152	
Chloroform	ug/L	ND	5000	3890	78	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	4150	83	34-147	N2
Ethylbenzene	ug/L	ND	5000	4240	85	40-142	
Methylene chloride	ug/L	ND	5000	3850	76	31-144	
Tetrachloroethene	ug/L	ND	5000	4400	88	64-148	
Toluene	ug/L	ND	5000	3890	78	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	3880	78	54-151	
Trichloroethene	ug/L	ND	5000	3880	78	71-149	
Vinyl chloride	ug/L	ND	5000	3300	66	22-146	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-330

Pace Project No.: 60171549

MATRIX SPIKE SAMPLE:		1396470					
Parameter	Units	60171556001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	ND	15000	12600	84	37-144	N2
1,2-Dichloroethane-d4 (S)	%				92	80-120	
4-Bromofluorobenzene (S)	%				102	80-120	
Toluene-d8 (S)	%				95	80-120	
Preservation pH		6.0		6.0			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-330

Pace Project No.: 60171549

QC Batch:	OEXT/44731	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60171549001		

METHOD BLANK: 1396677 Matrix: Water

Associated Lab Samples: 60171549001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/20/14 09:31	
2,4,6-Trichlorophenol	ug/L	ND	5.0	06/20/14 09:31	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	06/20/14 09:31	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	06/20/14 09:31	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	06/20/14 09:31	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/20/14 09:31	
Hexachlorocyclopentadiene	ug/L	ND	5.0	06/20/14 09:31	
Hexachloroethane	ug/L	ND	5.0	06/20/14 09:31	
Naphthalene	ug/L	ND	5.0	06/20/14 09:31	
Nitrobenzene	ug/L	ND	5.0	06/20/14 09:31	
Pentachlorophenol	ug/L	ND	5.0	06/20/14 09:31	
Phenol	ug/L	ND	5.0	06/20/14 09:31	
2,4,6-Tribromophenol (S)	%	77	39-120	06/20/14 09:31	
2-Fluorobiphenyl (S)	%	75	39-120	06/20/14 09:31	
2-Fluorophenol (S)	%	38	17-120	06/20/14 09:31	
Nitrobenzene-d5 (S)	%	74	33-120	06/20/14 09:31	
Phenol-d6 (S)	%	23	11-120	06/20/14 09:31	
Terphenyl-d14 (S)	%	68	45-120	06/20/14 09:31	

LABORATORY CONTROL SAMPLE: 1396678

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	39.8	80	46-120	
2,4,6-Trichlorophenol	ug/L	50	42.0	84	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	30.7	61	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	25.8	52	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	47.6	95	40-133	
Hexachloro-1,3-butadiene	ug/L	50	39.7	79	44-116	
Hexachlorocyclopentadiene	ug/L	100	38.7	39	24-120	
Hexachloroethane	ug/L	50	34.8	70	43-113	
Naphthalene	ug/L	50	40.9	82	48-120	
Nitrobenzene	ug/L	50	42.1	84	48-120	
Pentachlorophenol	ug/L	50	39.5	79	47-120	
Phenol	ug/L	50	13.3	27	16-112	
2,4,6-Tribromophenol (S)	%			87	39-120	
2-Fluorobiphenyl (S)	%			85	39-120	
2-Fluorophenol (S)	%			40	17-120	
Nitrobenzene-d5 (S)	%			83	33-120	
Phenol-d6 (S)	%			24	11-120	
Terphenyl-d14 (S)	%			83	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-330

Pace Project No.: 60171549

MATRIX SPIKE SAMPLE:		1396679					
Parameter	Units	60171556001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	36.1	72	44-120	
2,4,6-Trichlorophenol	ug/L	ND	50	43.1	86	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	50	32.6	65	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	6640	50	99.9	-13085	27-120	M1,N2
4,6-Dinitro-2-methylphenol	ug/L	ND	50	41.1J	82	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	50	36.3	73	39-116	
Hexachlorocyclopentadiene	ug/L	ND	100	39.0	39	11-120	
Hexachloroethane	ug/L	ND	50	34.6	69	40-113	
Naphthalene	ug/L	2700	50	56.2	-5294	45-120	M1
Nitrobenzene	ug/L	ND	50	43.4	87	38-120	
Pentachlorophenol	ug/L	ND	50	44.8	90	43-135	
Phenol	ug/L	10000	50	105	-19787	13-112	M1
2,4,6-Tribromophenol (S)	%				88	39-120	
2-Fluorobiphenyl (S)	%				78	39-120	
2-Fluorophenol (S)	%				38	17-120	
Nitrobenzene-d5 (S)	%				150	33-120	S0
Phenol-d6 (S)	%				26	11-120	
Terphenyl-d14 (S)	%				75	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-330

Pace Project No.: 60171549

QC Batch:	WET/48543	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60171549001		

METHOD BLANK: 1396506 Matrix: Water
Associated Lab Samples: 60171549001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	06/18/14 16:19	

LABORATORY CONTROL SAMPLE: 1396507

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	35.2	88	78-114	

MATRIX SPIKE SAMPLE: 1396519

Parameter	Units	60171556001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	592	160	632	25	78-114	M1

SAMPLE DUPLICATE: 1396509

Parameter	Units	60171203001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	60.4	57.0	6	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-330

Pace Project No.: 60171549

QC Batch:	WET/48544	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60171549001		

METHOD BLANK: 1396527 Matrix: Water
Associated Lab Samples: 60171549001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	06/18/14 16:42	

LABORATORY CONTROL SAMPLE: 1396528

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	22.4	112	64-132	

MATRIX SPIKE SAMPLE: 1396529

Parameter	Units	60171556001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	8.3	80	34.4	33	64-132	M1

SAMPLE DUPLICATE: 1396530

Parameter	Units	60171203001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	9.9	10.2	3	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-330

Pace Project No.: 60171549

QC Batch: WET/48555

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60171549001

METHOD BLANK: 1396815

Matrix: Water

Associated Lab Samples: 60171549001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	06/19/14 09:44	

SAMPLE DUPLICATE: 1396816

Parameter	Units	60171556001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	4220	4520	7	10	

SAMPLE DUPLICATE: 1396817

Parameter	Units	60171539002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	6.0		10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-330

Pace Project No.: 60171549

QC Batch: WET/48518 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60171549001

SAMPLE DUPLICATE: 1395899

Parameter	Units	60171556001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.4	5.4	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-330

Pace Project No.: 60171549

QC Batch: WET/48483

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60171549001

METHOD BLANK: 1395275

Matrix: Water

Associated Lab Samples: 60171549001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	06/21/14 07:36	

LABORATORY CONTROL SAMPLE: 1395276

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	215	108	85-115	

SAMPLE DUPLICATE: 1395277

Parameter	Units	60171550001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	28900	28100	3	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-330

Pace Project No.: 60171549

QC Batch: WETA/29867

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 60171549001

METHOD BLANK: 1396069

Matrix: Water

Associated Lab Samples: 60171549001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	06/18/14 11:59	

LABORATORY CONTROL SAMPLE: 1396070

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	106	90-110	

MATRIX SPIKE SAMPLE: 1396071

Parameter	Units	60171166001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.9	93	90-110	

MATRIX SPIKE SAMPLE: 1396073

Parameter	Units	60171443001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	528	400	883	89	90-110	M1

SAMPLE DUPLICATE: 1396072

Parameter	Units	60171166003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-330

Pace Project No.: 60171549

QC Batch:	WETA/29911	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60171549001		

METHOD BLANK: 1397675 Matrix: Water
Associated Lab Samples: 60171549001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	06/23/14 11:01	

LABORATORY CONTROL SAMPLE: 1397676

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	52.4	105	90-110	

MATRIX SPIKE SAMPLE: 1397677

Parameter	Units	60171390001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	23.1	50	70.1	94	90-110	

MATRIX SPIKE SAMPLE: 1397679

Parameter	Units	60171214006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	37.4	50	80.5	86	90-110	M1

SAMPLE DUPLICATE: 1397678

Parameter	Units	60171443001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	54900	55900	2	25	

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QUALIFIERS

Project: BRIDGETON LF 316-330

Pace Project No.: 60171549

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.

PQL - Practical Quantitation 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.

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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.

N2 The lab does not hold TNI accreditation for this parameter.

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-330

Pace Project No.: 60171549

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60171549001	316-330	EPA 200.7	MPRP/27685	EPA 200.7	ICP/20922
60171549001	316-330	EPA 200.7	MPRP/27716	EPA 200.7	ICP/20950
60171549001	316-330	EPA 245.1	MERP/8514	EPA 245.1	MERC/8469
60171549001	316-330	EPA 245.1	MERP/8511	EPA 245.1	MERC/8466
60171549001	316-330	EPA 625	OEXT/44731	EPA 625	MSSV/14323
60171549001	316-330	EPA 624 Low	MSV/62399		
60171549002	TRIP BLANK	EPA 624 Low	MSV/62399		
60171549001	316-330	EPA 1664A	WET/48543		
60171549001	316-330	EPA 1664A	WET/48544		
60171549001	316-330	SM 2540D	WET/48555		
60171549001	316-330	SM 4500-H+B	WET/48518		
60171549001	316-330	SM 5210B	WET/48483	SM 5210B	WET/48612
60171549001	316-330	EPA 350.1	WETA/29867		
60171549001	316-330	EPA 410.4	WETA/29911		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60171549



60171549

Client Name: Bair Engineering

Courier: Fed Ex UPS USPS Client Commercial Pace Other L-Rials

Tracking #: _____ Pace Shipping Label Used? Yes No

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other zpc

Thermometer Used: T-239 / T-194

Type of Ice: Wet Blue None Samples received on ice, cooling process has begun. (circle one)

Cooler Temperature: 9.6

melted

Date and initials of person examining contents: 6/16/14 [Signature]

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>Boo, ph</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>received samples with melted ice water</u>
Includes date/time/ID/analyses Matrix: <u>WT</u>		13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>initial ph BPW 4-5, added 2.5ml H₂O final 35</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<u>initial ph BPSS 5.0, added 2.5ml H₂SO₄ final 30</u>
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed <u>[Signature]</u> Lot # of added preservative <u>12502-27 Hn 204</u> <u>12513-23-2 Hn 03</u>
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank lot # (if purchased): <u>040714-3022</u>		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <u>MO</u>

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: TP ADDED TO INTRODUCTION

Project Manager Review: [Signature] Date: 6/16/14

June 23, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-331
Pace Project No.: 60171550

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 16, 2014. 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,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Bill Abernathy, Feezor Engineering
Kelly Caddy, Barr Engineering
DAN FEEZOR, FEEZOR ENGINEERING
Dana B. Pasi, Barr Engineering Co.
Brian Power, Republic Services
Brian Sehie, Republic Services
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-331

Pace Project No.: 60171550

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-13-4

Utah Certification #: KS000212013-3

Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-331

Pace Project No.: 60171550

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60171550001	316-331	Water	06/15/14 09:00	06/16/14 13:05
60171550002	TRIP BLANK	Water	06/15/14 09:00	06/16/14 13:05

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-331

Pace Project No.: 60171550

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60171550001	316-331	EPA 200.7	JGP, NDJ	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	CRT	1
		EPA 1664A	CRT	1
		SM 2540D	ESM	1
		SM 4500-H+B	NDL	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC1	1
		60171550002	TRIP BLANK	EPA 624 Low

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-331

Pace Project No.: 60171550

Sample: 316-331		Lab ID: 60171550001	Collected: 06/15/14 09:00	Received: 06/16/14 13:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	4750 ug/L		750	2	06/18/14 10:15	06/18/14 16:27	7429-90-5	
Antimony	56.2 ug/L		50.0	1	06/18/14 10:15	06/19/14 15:17	7440-36-0	
Arsenic	1200 ug/L		100	2	06/18/14 10:15	06/18/14 16:27	7440-38-2	
Beryllium	ND ug/L		5.0	1	06/18/14 10:15	06/18/14 16:25	7440-41-7	
Cadmium	ND ug/L		25.0	1	06/18/14 10:15	06/19/14 15:17	7440-43-9	
Chromium	183 ug/L		25.0	1	06/18/14 10:15	06/18/14 16:25	7440-47-3	
Cobalt	28.3 ug/L		25.0	1	06/18/14 10:15	06/19/14 15:17	7440-48-4	
Copper	ND ug/L		50.0	1	06/18/14 10:15	06/18/14 16:25	7440-50-8	
Iron	426000 ug/L		250	1	06/18/14 10:15	06/18/14 16:25	7439-89-6	
Lead	63.2 ug/L		25.0	1	06/18/14 10:15	06/19/14 15:17	7439-92-1	
Nickel	109 ug/L		50.0	2	06/18/14 10:15	06/18/14 16:27	7440-02-0	
Selenium	ND ug/L		75.0	1	06/18/14 10:15	06/19/14 15:17	7782-49-2	
Silver	ND ug/L		35.0	1	06/18/14 10:15	06/18/14 16:25	7440-22-4	
Thallium	ND ug/L		100	1	06/18/14 10:15	06/19/14 15:17	7440-28-0	
Zinc	3280 ug/L		500	2	06/18/14 10:15	06/18/14 16:27	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	1910 ug/L		750	2	06/19/14 18:40	06/20/14 14:24	7429-90-5	
Antimony, Dissolved	ND ug/L		50.0	1	06/19/14 18:40	06/20/14 14:22	7440-36-0	
Arsenic, Dissolved	964 ug/L		50.0	1	06/19/14 18:40	06/20/14 14:22	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	06/19/14 18:40	06/20/14 14:22	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	06/19/14 18:40	06/20/14 14:22	7440-43-9	
Chromium, Dissolved	169 ug/L		25.0	1	06/19/14 18:40	06/20/14 14:22	7440-47-3	
Cobalt, Dissolved	26.5 ug/L		25.0	1	06/19/14 18:40	06/20/14 14:22	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	06/19/14 18:40	06/20/14 14:22	7440-50-8	
Iron, Dissolved	336000 ug/L		250	1	06/19/14 18:40	06/20/14 14:22	7439-89-6	
Lead, Dissolved	40.6 ug/L		25.0	1	06/19/14 18:40	06/20/14 14:22	7439-92-1	
Nickel, Dissolved	96.4 ug/L		25.0	1	06/19/14 18:40	06/20/14 14:22	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	06/19/14 18:40	06/20/14 14:22	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	06/19/14 18:40	06/20/14 14:22	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	06/19/14 18:40	06/20/14 14:22	7440-28-0	
Zinc, Dissolved	3040 ug/L		500	2	06/19/14 18:40	06/20/14 14:24	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	ND ug/L		6.0	1	06/22/14 12:00	06/22/14 19:05	7439-97-6	
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND ug/L		6.0	1	06/22/14 12:00	06/22/14 16:41	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	06/19/14 00:00	06/20/14 15:08	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	06/19/14 00:00	06/20/14 15:08	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	06/19/14 00:00	06/20/14 15:08	77-47-4	
Hexachloroethane	ND ug/L		1000	2	06/19/14 00:00	06/20/14 15:08	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	2	06/19/14 00:00	06/20/14 15:08	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	6100 ug/L		4000	2	06/19/14 00:00	06/20/14 15:08		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-331

Pace Project No.: 60171550

Sample: 316-331 **Lab ID: 60171550001** Collected: 06/15/14 09:00 Received: 06/16/14 13:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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625 MSSV

Analytical Method: EPA 625 Preparation Method: EPA 625

Naphthalene	3440 ug/L		1000	2	06/19/14 00:00	06/20/14 15:08	91-20-3	
Nitrobenzene	ND ug/L		1000	2	06/19/14 00:00	06/20/14 15:08	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	06/19/14 00:00	06/20/14 15:08	87-86-5	
Phenol	8580 ug/L		1000	2	06/19/14 00:00	06/20/14 15:08	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	06/19/14 00:00	06/20/14 15:08	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	06/19/14 00:00	06/20/14 15:08	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	154 %		33-120	2	06/19/14 00:00	06/20/14 15:08	4165-60-0	S0
2-Fluorobiphenyl (S)	82 %		39-120	2	06/19/14 00:00	06/20/14 15:08	321-60-8	
Terphenyl-d14 (S)	77 %		45-120	2	06/19/14 00:00	06/20/14 15:08	1718-51-0	
Phenol-d6 (S)	30 %		11-120	2	06/19/14 00:00	06/20/14 15:08	13127-88-3	
2-Fluorophenol (S)	46 %		17-120	2	06/19/14 00:00	06/20/14 15:08	367-12-4	
2,4,6-Tribromophenol (S)	89 %		39-120	2	06/19/14 00:00	06/20/14 15:08	118-79-6	

624 Volatile Organics

Analytical Method: EPA 624 Low

Acetone	95500 ug/L		2500	250		06/18/14 21:58	67-64-1	N2
Benzene	ND ug/L		250	250		06/18/14 21:58	71-43-2	
Bromodichloromethane	ND ug/L		250	250		06/18/14 21:58	75-27-4	
Bromoform	ND ug/L		250	250		06/18/14 21:58	75-25-2	
Bromomethane	ND ug/L		1250	250		06/18/14 21:58	74-83-9	
2-Butanone (MEK)	43000 ug/L		2500	250		06/18/14 21:58	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		06/18/14 21:58	56-23-5	
Chloroethane	ND ug/L		250	250		06/18/14 21:58	75-00-3	
Chloroform	ND ug/L		250	250		06/18/14 21:58	67-66-3	
1,4-Dichlorobenzene	826 ug/L		250	250		06/18/14 21:58	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		06/18/14 21:58	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		06/18/14 21:58	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		06/18/14 21:58	156-60-5	
Ethylbenzene	ND ug/L		250	250		06/18/14 21:58	100-41-4	
Methylene chloride	ND ug/L		250	250		06/18/14 21:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		06/18/14 21:58	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		06/18/14 21:58	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		06/18/14 21:58	127-18-4	
Toluene	ND ug/L		250	250		06/18/14 21:58	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		06/18/14 21:58	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		06/18/14 21:58	79-00-5	
Trichloroethene	ND ug/L		250	250		06/18/14 21:58	79-01-6	
Vinyl chloride	ND ug/L		250	250		06/18/14 21:58	75-01-4	
Xylene (Total)	ND ug/L		750	250		06/18/14 21:58	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	102 %		80-120	250		06/18/14 21:58	460-00-4	
Toluene-d8 (S)	96 %		80-120	250		06/18/14 21:58	2037-26-5	
1,2-Dichloroethane-d4 (S)	93 %		80-120	250		06/18/14 21:58	17060-07-0	
Preservation pH	6.0		1.0	250		06/18/14 21:58		

HEM, Oil and Grease

Analytical Method: EPA 1664A

Oil and Grease	816 mg/L		5.0	1		06/18/14 16:24		
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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-331

Pace Project No.: 60171550

Sample: 316-331		Lab ID: 60171550001	Collected: 06/15/14 09:00	Received: 06/16/14 13:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	9.6	mg/L	5.0	1		06/18/14 16:42		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	4820	mg/L	5.0	1		06/19/14 09:44		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.5	Std. Units	0.10	1		06/18/14 09:15		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	28900	mg/L	2.0	1	06/16/14 15:16	06/21/14 07:56		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	554	mg/L	20.0	200		06/23/14 09:48	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	49700	mg/L	5000	500		06/19/14 09:55		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-331

Pace Project No.: 60171550

Sample: TRIP BLANK		Lab ID: 60171550002	Collected: 06/15/14 09:00	Received: 06/16/14 13:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		06/18/14 20:55	67-64-1	N2
Benzene	ND ug/L		1.0	1		06/18/14 20:55	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		06/18/14 20:55	75-27-4	
Bromoform	ND ug/L		1.0	1		06/18/14 20:55	75-25-2	
Bromomethane	ND ug/L		5.0	1		06/18/14 20:55	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/18/14 20:55	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		06/18/14 20:55	56-23-5	
Chloroethane	ND ug/L		1.0	1		06/18/14 20:55	75-00-3	
Chloroform	ND ug/L		1.0	1		06/18/14 20:55	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		06/18/14 20:55	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		06/18/14 20:55	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		06/18/14 20:55	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		06/18/14 20:55	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		06/18/14 20:55	100-41-4	
Methylene chloride	ND ug/L		1.0	1		06/18/14 20:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/18/14 20:55	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		06/18/14 20:55	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		06/18/14 20:55	127-18-4	
Toluene	ND ug/L		1.0	1		06/18/14 20:55	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		06/18/14 20:55	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		06/18/14 20:55	79-00-5	
Trichloroethene	ND ug/L		1.0	1		06/18/14 20:55	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		06/18/14 20:55	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		06/18/14 20:55	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	97 %		80-120	1		06/18/14 20:55	460-00-4	
Toluene-d8 (S)	98 %		80-120	1		06/18/14 20:55	2037-26-5	
1,2-Dichloroethane-d4 (S)	91 %		80-120	1		06/18/14 20:55	17060-07-0	
Preservation pH	6.0		1.0	1		06/18/14 20:55		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-331

Pace Project No.: 60171550

QC Batch:	MERP/8514	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
Associated Lab Samples:	60171550001		

METHOD BLANK: 1398965 Matrix: Water
Associated Lab Samples: 60171550001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	06/22/14 18:56	

LABORATORY CONTROL SAMPLE: 1398966

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1398967 1398968

Parameter	Units	60171556001		1398967		1398968		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Mercury	ug/L	ND	150	150	148	149	98	98	70-130	0	20

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-331

Pace Project No.: 60171550

QC Batch: MERP/8511

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60171550001

METHOD BLANK: 1398951

Matrix: Water

Associated Lab Samples: 60171550001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	06/22/14 16:34	

LABORATORY CONTROL SAMPLE: 1398952

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.3	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1398953 1398954

Parameter	Units	60171556001		MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		Result	ND	Spike Conc.	MS Result	MSD Result	% Rec	MSD % Rec	RPD	RPD				
Mercury, Dissolved	ug/L	ND	ND	150	150	135	144	90	96	70-130	7	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-331

Pace Project No.: 60171550

QC Batch: MPRP/27685

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Total

Associated Lab Samples: 60171550001

METHOD BLANK: 1396074

Matrix: Water

Associated Lab Samples: 60171550001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	06/18/14 16:06	
Antimony	ug/L	ND	10.0	06/18/14 16:06	
Arsenic	ug/L	ND	10.0	06/18/14 16:06	
Beryllium	ug/L	ND	1.0	06/18/14 16:06	
Cadmium	ug/L	ND	5.0	06/18/14 16:06	
Chromium	ug/L	ND	5.0	06/18/14 16:06	
Cobalt	ug/L	ND	5.0	06/18/14 16:06	
Copper	ug/L	ND	10.0	06/18/14 16:06	
Iron	ug/L	ND	50.0	06/18/14 16:06	
Lead	ug/L	ND	5.0	06/18/14 16:06	
Nickel	ug/L	ND	5.0	06/18/14 16:06	
Selenium	ug/L	ND	15.0	06/18/14 16:06	
Silver	ug/L	ND	7.0	06/18/14 16:06	
Thallium	ug/L	ND	20.0	06/18/14 16:06	
Zinc	ug/L	ND	50.0	06/18/14 16:06	

LABORATORY CONTROL SAMPLE: 1396075

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10400	104	85-115	
Antimony	ug/L	1000	1070	107	85-115	
Arsenic	ug/L	1000	967	97	85-115	
Beryllium	ug/L	1000	1020	102	85-115	
Cadmium	ug/L	1000	1040	104	85-115	
Chromium	ug/L	1000	989	99	85-115	
Cobalt	ug/L	1000	1020	102	85-115	
Copper	ug/L	1000	1100	110	85-115	
Iron	ug/L	10000	9760	98	85-115	
Lead	ug/L	1000	1040	104	85-115	
Nickel	ug/L	1000	1060	106	85-115	
Selenium	ug/L	1000	1040	104	85-115	
Silver	ug/L	500	509	102	85-115	
Thallium	ug/L	1000	1020	102	85-115	
Zinc	ug/L	1000	930	93	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-331

Pace Project No.: 60171550

Parameter	Units	60171556001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec							
Aluminum	ug/L	2410	50000	50000	55400	55800	106	107	70-130	1	8					
Antimony	ug/L	51.2	5000	5000	5380	5440	107	108	70-130	1	7					
Arsenic	ug/L	1100	5000	5000	6540	6620	109	110	70-130	1	10					
Beryllium	ug/L	ND	5000	5000	5000	5000	100	100	70-130	0	7					
Cadmium	ug/L	ND	5000	5000	5320	5360	106	107	70-130	1	10					
Chromium	ug/L	154	5000	5000	4940	4980	96	97	70-130	1	10					
Cobalt	ug/L	ND	5000	5000	4970	5010	99	100	70-130	1	6					
Copper	ug/L	ND	5000	5000	5840	5860	116	117	70-130	0	11					
Iron	ug/L	311000	50000	50000	363000	359000	104	96	70-130	1	10					
Lead	ug/L	32.2	5000	5000	4720	4770	94	95	70-130	1	10					
Nickel	ug/L	93.3	5000	5000	5220	5230	102	103	70-130	0	10					
Selenium	ug/L	ND	5000	5000	6070	6090	121	122	70-130	0	10					
Silver	ug/L	ND	2500	2500	2720	2720	108	108	70-130	0	10					
Thallium	ug/L	ND	5000	5000	4380	4420	88	88	70-130	1	6					
Zinc	ug/L	3130	5000	5000	7770	7800	93	93	70-130	0	11					

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-331

Pace Project No.: 60171550

QC Batch: MPRP/27716

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Dissolved

Associated Lab Samples: 60171550001

METHOD BLANK: 1397359

Matrix: Water

Associated Lab Samples: 60171550001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	06/20/14 14:15	
Antimony, Dissolved	ug/L	ND	10.0	06/20/14 14:15	
Arsenic, Dissolved	ug/L	ND	10.0	06/20/14 14:15	
Beryllium, Dissolved	ug/L	ND	1.0	06/20/14 14:15	
Cadmium, Dissolved	ug/L	ND	5.0	06/20/14 14:15	
Chromium, Dissolved	ug/L	ND	5.0	06/20/14 14:15	
Cobalt, Dissolved	ug/L	ND	5.0	06/20/14 14:15	
Copper, Dissolved	ug/L	ND	10.0	06/20/14 14:15	
Iron, Dissolved	ug/L	ND	50.0	06/20/14 14:15	
Lead, Dissolved	ug/L	ND	5.0	06/20/14 14:15	
Nickel, Dissolved	ug/L	ND	5.0	06/20/14 14:15	
Selenium, Dissolved	ug/L	ND	15.0	06/20/14 14:15	
Silver, Dissolved	ug/L	ND	7.0	06/20/14 14:15	
Thallium, Dissolved	ug/L	ND	20.0	06/20/14 14:15	
Zinc, Dissolved	ug/L	ND	50.0	06/20/14 14:15	

LABORATORY CONTROL SAMPLE: 1397360

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10200	102	85-115	
Antimony, Dissolved	ug/L	1000	1020	102	85-115	
Arsenic, Dissolved	ug/L	1000	921	92	85-115	
Beryllium, Dissolved	ug/L	1000	1020	102	85-115	
Cadmium, Dissolved	ug/L	1000	1000	100	85-115	
Chromium, Dissolved	ug/L	1000	990	99	85-115	
Cobalt, Dissolved	ug/L	1000	996	100	85-115	
Copper, Dissolved	ug/L	1000	1040	104	85-115	
Iron, Dissolved	ug/L	10000	9860	99	85-115	
Lead, Dissolved	ug/L	1000	1010	101	85-115	
Nickel, Dissolved	ug/L	1000	1030	103	85-115	
Selenium, Dissolved	ug/L	1000	975	97	85-115	
Silver, Dissolved	ug/L	500	501	100	85-115	
Thallium, Dissolved	ug/L	1000	995	100	85-115	
Zinc, Dissolved	ug/L	1000	925	92	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-331

Pace Project No.: 60171550

Parameter	Units	60171556001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec							
Aluminum, Dissolved	ug/L	2100	50000	50000	54400	54400	105	105	70-130	0	8					
Antimony, Dissolved	ug/L	66.5	5000	5000	5380	5420	106	107	70-130	1	7					
Arsenic, Dissolved	ug/L	1090	5000	5000	6130	6070	101	100	70-130	1	10					
Beryllium, Dissolved	ug/L	ND	5000	5000	4960	5040	99	101	70-130	2	7					
Cadmium, Dissolved	ug/L	ND	5000	5000	5240	5270	105	105	70-130	1	10					
Chromium, Dissolved	ug/L	171	5000	5000	5020	5090	97	98	70-130	1	10					
Cobalt, Dissolved	ug/L	ND	5000	5000	4880	4920	97	98	70-130	1	6					
Copper, Dissolved	ug/L	ND	5000	5000	5460	5500	109	109	70-130	1	11					
Iron, Dissolved	ug/L	352000	50000	50000	410000	400000	116	97	70-130	2	10					
Lead, Dissolved	ug/L	41.9	5000	5000	4790	4870	95	96	70-130	1	10					
Nickel, Dissolved	ug/L	93.5	5000	5000	5060	5090	99	100	70-130	1	10					
Selenium, Dissolved	ug/L	ND	5000	5000	5480	5560	109	111	70-130	1	10					
Silver, Dissolved	ug/L	ND	2500	2500	2590	2620	103	104	70-130	1	10					
Thallium, Dissolved	ug/L	ND	5000	5000	4490	4500	90	90	70-130	0	6					
Zinc, Dissolved	ug/L	3220	5000	5000	7660	7620	89	88	70-130	0	11					

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-331

Pace Project No.: 60171550

QC Batch: MSV/62399 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60171550001, 60171550002

METHOD BLANK: 1396468 Matrix: Water

Associated Lab Samples: 60171550001, 60171550002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/18/14 20:09	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/18/14 20:09	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	06/18/14 20:09	
1,2-Dichloroethane	ug/L	ND	1.0	06/18/14 20:09	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/18/14 20:09	
2-Butanone (MEK)	ug/L	ND	10.0	06/18/14 20:09	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/18/14 20:09	N2
Acetone	ug/L	ND	10.0	06/18/14 20:09	N2
Benzene	ug/L	ND	1.0	06/18/14 20:09	
Bromodichloromethane	ug/L	ND	1.0	06/18/14 20:09	
Bromoform	ug/L	ND	1.0	06/18/14 20:09	
Bromomethane	ug/L	ND	5.0	06/18/14 20:09	
Carbon tetrachloride	ug/L	ND	1.0	06/18/14 20:09	
Chloroethane	ug/L	ND	1.0	06/18/14 20:09	
Chloroform	ug/L	ND	1.0	06/18/14 20:09	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/18/14 20:09	N2
Ethylbenzene	ug/L	ND	1.0	06/18/14 20:09	
Methylene chloride	ug/L	ND	1.0	06/18/14 20:09	
Tetrachloroethene	ug/L	ND	1.0	06/18/14 20:09	
Toluene	ug/L	ND	1.0	06/18/14 20:09	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/18/14 20:09	
Trichloroethene	ug/L	ND	1.0	06/18/14 20:09	
Vinyl chloride	ug/L	ND	1.0	06/18/14 20:09	
Xylene (Total)	ug/L	ND	3.0	06/18/14 20:09	N2
1,2-Dichloroethane-d4 (S)	%	96	80-120	06/18/14 20:09	
4-Bromofluorobenzene (S)	%	97	80-120	06/18/14 20:09	
Toluene-d8 (S)	%	99	80-120	06/18/14 20:09	

LABORATORY CONTROL SAMPLE: 1396469

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	17.7	88	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	19.3	96	67-127	N2
1,1,2-Trichloroethane	ug/L	20	19.5	98	67-124	
1,2-Dichloroethane	ug/L	20	17.3	86	70-126	
1,4-Dichlorobenzene	ug/L	20	18.9	95	74-120	
2-Butanone (MEK)	ug/L	100	94.3	94	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	99.6	100	59-131	N2
Acetone	ug/L	100	92.8	93	38-134	N2
Benzene	ug/L	20	18.1	90	75-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-331

Pace Project No.: 60171550

LABORATORY CONTROL SAMPLE: 1396469

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	20	18.9	94	68-125	
Bromoform	ug/L	20	18.8	94	65-127	
Bromomethane	ug/L	20	7.4	37	13-157	
Carbon tetrachloride	ug/L	20	17.2	86	70-131	
Chloroethane	ug/L	20	19.0	95	47-133	
Chloroform	ug/L	20	17.8	89	65-127	
cis-1,2-Dichloroethene	ug/L	20	18.5	92	68-127	N2
Ethylbenzene	ug/L	20	18.9	94	74-122	
Methylene chloride	ug/L	20	16.9	85	64-129	
Tetrachloroethene	ug/L	20	19.2	96	73-125	
Toluene	ug/L	20	17.6	88	69-126	
trans-1,2-Dichloroethene	ug/L	20	17.3	86	66-129	
Trichloroethene	ug/L	20	18.3	91	71-123	
Vinyl chloride	ug/L	20	14.2	71	43-129	
Xylene (Total)	ug/L	60	56.6	94	75-121	N2
1,2-Dichloroethane-d4 (S)	%			95	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			94	80-120	

MATRIX SPIKE SAMPLE: 1396470

Parameter	Units	60171556001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	3910	78	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	4770	93	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	4340	87	52-143	
1,2-Dichloroethane	ug/L	ND	5000	3710	74	49-144	
1,4-Dichlorobenzene	ug/L	634	5000	4830	84	33-140	
2-Butanone (MEK)	ug/L	39400	25000	67500	112	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	23000	89	40-160	N2
Acetone	ug/L	99200	25000	127000	109	10-160	N2
Benzene	ug/L	ND	5000	4010	80	37-151	
Bromodichloromethane	ug/L	ND	5000	4010	80	35-142	
Bromoform	ug/L	ND	5000	4320	86	45-142	
Bromomethane	ug/L	ND	5000	1880	38	10-158	
Carbon tetrachloride	ug/L	ND	5000	4130	83	70-140	
Chloroethane	ug/L	ND	5000	3690	74	19-152	
Chloroform	ug/L	ND	5000	3890	78	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	4150	83	34-147	N2
Ethylbenzene	ug/L	ND	5000	4240	85	40-142	
Methylene chloride	ug/L	ND	5000	3850	76	31-144	
Tetrachloroethene	ug/L	ND	5000	4400	88	64-148	
Toluene	ug/L	ND	5000	3890	78	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	3880	78	54-151	
Trichloroethene	ug/L	ND	5000	3880	78	71-149	
Vinyl chloride	ug/L	ND	5000	3300	66	22-146	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-331

Pace Project No.: 60171550

MATRIX SPIKE SAMPLE:		1396470					
Parameter	Units	60171556001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	ND	15000	12600	84	37-144	N2
1,2-Dichloroethane-d4 (S)	%				92	80-120	
4-Bromofluorobenzene (S)	%				102	80-120	
Toluene-d8 (S)	%				95	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-331

Pace Project No.: 60171550

QC Batch:	OEXT/44731	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60171550001		

METHOD BLANK: 1396677 Matrix: Water

Associated Lab Samples: 60171550001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/20/14 09:31	
2,4,6-Trichlorophenol	ug/L	ND	5.0	06/20/14 09:31	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	06/20/14 09:31	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	06/20/14 09:31	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	06/20/14 09:31	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/20/14 09:31	
Hexachlorocyclopentadiene	ug/L	ND	5.0	06/20/14 09:31	
Hexachloroethane	ug/L	ND	5.0	06/20/14 09:31	
Naphthalene	ug/L	ND	5.0	06/20/14 09:31	
Nitrobenzene	ug/L	ND	5.0	06/20/14 09:31	
Pentachlorophenol	ug/L	ND	5.0	06/20/14 09:31	
Phenol	ug/L	ND	5.0	06/20/14 09:31	
2,4,6-Tribromophenol (S)	%	77	39-120	06/20/14 09:31	
2-Fluorobiphenyl (S)	%	75	39-120	06/20/14 09:31	
2-Fluorophenol (S)	%	38	17-120	06/20/14 09:31	
Nitrobenzene-d5 (S)	%	74	33-120	06/20/14 09:31	
Phenol-d6 (S)	%	23	11-120	06/20/14 09:31	
Terphenyl-d14 (S)	%	68	45-120	06/20/14 09:31	

LABORATORY CONTROL SAMPLE: 1396678

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	39.8	80	46-120	
2,4,6-Trichlorophenol	ug/L	50	42.0	84	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	30.7	61	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	25.8	52	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	47.6	95	40-133	
Hexachloro-1,3-butadiene	ug/L	50	39.7	79	44-116	
Hexachlorocyclopentadiene	ug/L	100	38.7	39	24-120	
Hexachloroethane	ug/L	50	34.8	70	43-113	
Naphthalene	ug/L	50	40.9	82	48-120	
Nitrobenzene	ug/L	50	42.1	84	48-120	
Pentachlorophenol	ug/L	50	39.5	79	47-120	
Phenol	ug/L	50	13.3	27	16-112	
2,4,6-Tribromophenol (S)	%			87	39-120	
2-Fluorobiphenyl (S)	%			85	39-120	
2-Fluorophenol (S)	%			40	17-120	
Nitrobenzene-d5 (S)	%			83	33-120	
Phenol-d6 (S)	%			24	11-120	
Terphenyl-d14 (S)	%			83	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-331

Pace Project No.: 60171550

MATRIX SPIKE SAMPLE:		1396679					
Parameter	Units	60171556001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	36.1	72	44-120	
2,4,6-Trichlorophenol	ug/L	ND	50	43.1	86	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	50	32.6	65	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	6640	50	99.9	-13085	27-120	M1,N2
4,6-Dinitro-2-methylphenol	ug/L	ND	50	41.1J	82	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	50	36.3	73	39-116	
Hexachlorocyclopentadiene	ug/L	ND	100	39.0	39	11-120	
Hexachloroethane	ug/L	ND	50	34.6	69	40-113	
Naphthalene	ug/L	2700	50	56.2	-5294	45-120	M1
Nitrobenzene	ug/L	ND	50	43.4	87	38-120	
Pentachlorophenol	ug/L	ND	50	44.8	90	43-135	
Phenol	ug/L	10000	50	105	-19787	13-112	M1
2,4,6-Tribromophenol (S)	%				88	39-120	
2-Fluorobiphenyl (S)	%				78	39-120	
2-Fluorophenol (S)	%				38	17-120	
Nitrobenzene-d5 (S)	%				150	33-120	S0
Phenol-d6 (S)	%				26	11-120	
Terphenyl-d14 (S)	%				75	45-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-331

Pace Project No.: 60171550

QC Batch:	WET/48543	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60171550001		

METHOD BLANK: 1396506 Matrix: Water
Associated Lab Samples: 60171550001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	06/18/14 16:19	

LABORATORY CONTROL SAMPLE: 1396507

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	35.2	88	78-114	

MATRIX SPIKE SAMPLE: 1396519

Parameter	Units	60171556001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	592	160	632	25	78-114	M1

SAMPLE DUPLICATE: 1396509

Parameter	Units	60171203001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	60.4	57.0	6	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-331

Pace Project No.: 60171550

QC Batch:	WET/48544	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60171550001		

METHOD BLANK: 1396527 Matrix: Water
Associated Lab Samples: 60171550001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	06/18/14 16:42	

LABORATORY CONTROL SAMPLE: 1396528

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	22.4	112	64-132	

MATRIX SPIKE SAMPLE: 1396529

Parameter	Units	60171556001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	8.3	80	34.4	33	64-132	M1

SAMPLE DUPLICATE: 1396530

Parameter	Units	60171203001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	9.9	10.2	3	34	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-331

Pace Project No.: 60171550

QC Batch: WET/48555

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60171550001

METHOD BLANK: 1396815

Matrix: Water

Associated Lab Samples: 60171550001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	06/19/14 09:44	

SAMPLE DUPLICATE: 1396816

Parameter	Units	60171556001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	4220	4520	7	10	

SAMPLE DUPLICATE: 1396817

Parameter	Units	60171539002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	6.0		10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-331

Pace Project No.: 60171550

QC Batch: WET/48518 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60171550001

SAMPLE DUPLICATE: 1395899

Parameter	Units	60171556001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.4	5.4	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-331

Pace Project No.: 60171550

QC Batch: WET/48483

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60171550001

METHOD BLANK: 1395275

Matrix: Water

Associated Lab Samples: 60171550001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	06/21/14 07:36	

LABORATORY CONTROL SAMPLE: 1395276

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	215	108	85-115	

SAMPLE DUPLICATE: 1395277

Parameter	Units	60171550001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	28900	28100	3	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-331

Pace Project No.: 60171550

QC Batch: WETA/29937

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 60171550001

METHOD BLANK: 1399070

Matrix: Water

Associated Lab Samples: 60171550001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	06/23/14 09:43	

LABORATORY CONTROL SAMPLE: 1399071

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	103	90-110	

MATRIX SPIKE SAMPLE: 1399072

Parameter	Units	60171009003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2.7	2	4.4	86	90-110	M1

SAMPLE DUPLICATE: 1399073

Parameter	Units	60171556001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	545	551	1	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-331

Pace Project No.: 60171550

QC Batch:	WETA/29869	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60171550001		

METHOD BLANK: 1396155 Matrix: Water
Associated Lab Samples: 60171550001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	06/19/14 09:49	

LABORATORY CONTROL SAMPLE: 1396156

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	46.2	92	90-110	

MATRIX SPIKE SAMPLE: 1396157

Parameter	Units	60171556001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	48200	25000	69200	84	90-110	M1

SAMPLE DUPLICATE: 1396158

Parameter	Units	60171209001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	40700	49100	19	25	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 316-331

Pace Project No.: 60171550

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.

PQL - Practical Quantitation 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.

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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.

N2 The lab does not hold TNI accreditation for this parameter.

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-331

Pace Project No.: 60171550

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60171550001	316-331	EPA 200.7	MPRP/27685	EPA 200.7	ICP/20922
60171550001	316-331	EPA 200.7	MPRP/27716	EPA 200.7	ICP/20950
60171550001	316-331	EPA 245.1	MERP/8514	EPA 245.1	MERC/8469
60171550001	316-331	EPA 245.1	MERP/8511	EPA 245.1	MERC/8466
60171550001	316-331	EPA 625	OEXT/44731	EPA 625	MSSV/14323
60171550001	316-331	EPA 624 Low	MSV/62399		
60171550002	TRIP BLANK	EPA 624 Low	MSV/62399		
60171550001	316-331	EPA 1664A	WET/48543		
60171550001	316-331	EPA 1664A	WET/48544		
60171550001	316-331	SM 2540D	WET/48555		
60171550001	316-331	SM 4500-H+B	WET/48518		
60171550001	316-331	SM 5210B	WET/48483	SM 5210B	WET/48612
60171550001	316-331	EPA 350.1	WETA/29937		
60171550001	316-331	EPA 410.4	WETA/29869		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60171550
60171550

Client Name: Bnr

Courier: Fed Ex UPS USPS Client Commercial Pace Other AKVouJS

Tracking #: _____ Pace Shipping Label Used? Yes No

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other

Thermometer Used: T-239 / T-194 Type of Ice: Wet Blue None Samples received on ice, cooling process has begun. (circle one)

Cooler Temperature: 4.2

Optional
Proj Due Date:
Proj Name:

Date and initials of person-examining contents: _____

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>Buo pH</u>	
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.	
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Includes date/time/ID/analyses Matrix: <u>WT</u>		13.	
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. <u>Added 2.5 ml HNO3; initial pH ~6.0; final pH ~4.0 initial H2SO4 pH ~6.0; added 2ml; final pH ~2.0</u>	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Exceptions: VOA, coliform, TOC, <u>W&C</u> , WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>W</u>	Lot # of added preservative
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Pace Trip Blank lot # (if purchased): <u>010714-3852</u>		15.	
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <u>MO</u>	

Client Notification/ Resolution: Copy COC to Client? Y N Field Data Required? Y N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 6/17/14

June 23, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-332
Pace Project No.: 60171556

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 16, 2014. 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,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Bill Abernathy, Feezor Engineering
Kelly Caddy, Barr Engineering
DAN FEEZOR, FEEZOR ENGINEERING
Dana B. Pasi, Barr Engineering Co.
Brian Power, Republic Services
Brian Sehie, Republic Services
Margaret Treanor, Barr Engineering Company



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CERTIFICATIONS

Project: BRIDGETON LF 316-332

Pace Project No.: 60171556

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-13-4

Utah Certification #: KS000212013-3

Illinois Certification #: 003097

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-332

Pace Project No.: 60171556

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60171556001	316-332	Water	06/16/14 08:30	06/16/14 13:05
60171556002	TRIP BLANK	Water	06/16/14 08:30	06/16/14 13:05

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-332

Pace Project No.: 60171556

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60171556001	316-332	EPA 200.7	JGP, NDJ	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	CRT	1
		EPA 1664A	CRT	1
		SM 2540D	ESM	1
		SM 4500-H+B	NDL	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC1	1
		60171556002	TRIP BLANK	EPA 624 Low

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-332

Pace Project No.: 60171556

Sample: 316-332	Lab ID: 60171556001	Collected: 06/16/14 08:30	Received: 06/16/14 13:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Aluminum	2410 ug/L		750	2	06/18/14 10:15	06/18/14 16:37	7429-90-5	
Antimony	51.2 ug/L		50.0	1	06/18/14 10:15	06/19/14 15:19	7440-36-0	
Arsenic	1100 ug/L		100	2	06/18/14 10:15	06/18/14 16:37	7440-38-2	
Beryllium	ND ug/L		5.0	1	06/18/14 10:15	06/18/14 16:34	7440-41-7	
Cadmium	ND ug/L		25.0	1	06/18/14 10:15	06/19/14 15:19	7440-43-9	
Chromium	154 ug/L		25.0	1	06/18/14 10:15	06/18/14 16:34	7440-47-3	
Cobalt	ND ug/L		25.0	1	06/18/14 10:15	06/19/14 15:19	7440-48-4	
Copper	ND ug/L		50.0	1	06/18/14 10:15	06/18/14 16:34	7440-50-8	
Iron	311000 ug/L		250	1	06/18/14 10:15	06/18/14 16:34	7439-89-6	
Lead	32.2 ug/L		25.0	1	06/18/14 10:15	06/19/14 15:19	7439-92-1	
Nickel	93.3 ug/L		50.0	2	06/18/14 10:15	06/18/14 16:37	7440-02-0	
Selenium	ND ug/L		75.0	1	06/18/14 10:15	06/19/14 15:19	7782-49-2	
Silver	ND ug/L		35.0	1	06/18/14 10:15	06/18/14 16:34	7440-22-4	
Thallium	ND ug/L		100	1	06/18/14 10:15	06/19/14 15:19	7440-28-0	
Zinc	3130 ug/L		500	2	06/18/14 10:15	06/18/14 16:37	7440-66-6	
200.7 Metals, Dissolved (LF)								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Aluminum, Dissolved	2100 ug/L		750	2	06/19/14 18:40	06/20/14 14:29	7429-90-5	
Antimony, Dissolved	66.5 ug/L		50.0	1	06/19/14 18:40	06/20/14 14:26	7440-36-0	D9
Arsenic, Dissolved	1090 ug/L		50.0	1	06/19/14 18:40	06/20/14 14:26	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	06/19/14 18:40	06/20/14 14:26	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	06/19/14 18:40	06/20/14 14:26	7440-43-9	
Chromium, Dissolved	171 ug/L		25.0	1	06/19/14 18:40	06/20/14 14:26	7440-47-3	D9
Cobalt, Dissolved	ND ug/L		25.0	1	06/19/14 18:40	06/20/14 14:26	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	06/19/14 18:40	06/20/14 14:26	7440-50-8	
Iron, Dissolved	352000 ug/L		250	1	06/19/14 18:40	06/20/14 14:26	7439-89-6	D9
Lead, Dissolved	41.9 ug/L		25.0	1	06/19/14 18:40	06/20/14 14:26	7439-92-1	D9
Nickel, Dissolved	93.5 ug/L		25.0	1	06/19/14 18:40	06/20/14 14:26	7440-02-0	D9
Selenium, Dissolved	ND ug/L		75.0	1	06/19/14 18:40	06/20/14 14:26	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	06/19/14 18:40	06/20/14 14:26	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	06/19/14 18:40	06/20/14 14:26	7440-28-0	
Zinc, Dissolved	3220 ug/L		500	2	06/19/14 18:40	06/20/14 14:29	7440-66-6	D9
245.1 Mercury								
Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Mercury	ND ug/L		6.0	1	06/22/14 12:00	06/22/14 19:08	7439-97-6	
245.1 Mercury, Dissolved (LF)								
Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Mercury, Dissolved	ND ug/L		6.0	1	06/22/14 12:00	06/22/14 16:43	7439-97-6	
625 MSSV								
Analytical Method: EPA 625 Preparation Method: EPA 625								
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	06/19/14 00:00	06/20/14 15:29	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	06/19/14 00:00	06/20/14 15:29	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	06/19/14 00:00	06/20/14 15:29	77-47-4	
Hexachloroethane	ND ug/L		1000	2	06/19/14 00:00	06/20/14 15:29	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	2	06/19/14 00:00	06/20/14 15:29	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	6640 ug/L		4000	2	06/19/14 00:00	06/20/14 15:29		M1, N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-332

Pace Project No.: 60171556

Sample: 316-332		Lab ID: 60171556001	Collected: 06/16/14 08:30	Received: 06/16/14 13:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	2700 ug/L		1000	2	06/19/14 00:00	06/20/14 15:29	91-20-3	M1
Nitrobenzene	ND ug/L		1000	2	06/19/14 00:00	06/20/14 15:29	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	06/19/14 00:00	06/20/14 15:29	87-86-5	
Phenol	10000 ug/L		1000	2	06/19/14 00:00	06/20/14 15:29	108-95-2	M1
1,2,4-Trichlorobenzene	ND ug/L		1000	2	06/19/14 00:00	06/20/14 15:29	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	06/19/14 00:00	06/20/14 15:29	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	166 %		33-120	2	06/19/14 00:00	06/20/14 15:29	4165-60-0	S0
2-Fluorobiphenyl (S)	77 %		39-120	2	06/19/14 00:00	06/20/14 15:29	321-60-8	
Terphenyl-d14 (S)	70 %		45-120	2	06/19/14 00:00	06/20/14 15:29	1718-51-0	
Phenol-d6 (S)	27 %		11-120	2	06/19/14 00:00	06/20/14 15:29	13127-88-3	
2-Fluorophenol (S)	44 %		17-120	2	06/19/14 00:00	06/20/14 15:29	367-12-4	
2,4,6-Tribromophenol (S)	84 %		39-120	2	06/19/14 00:00	06/20/14 15:29	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	99200 ug/L		2500	250		06/18/14 22:13	67-64-1	N2
Benzene	ND ug/L		250	250		06/18/14 22:13	71-43-2	
Bromodichloromethane	ND ug/L		250	250		06/18/14 22:13	75-27-4	
Bromoform	ND ug/L		250	250		06/18/14 22:13	75-25-2	
Bromomethane	ND ug/L		1250	250		06/18/14 22:13	74-83-9	
2-Butanone (MEK)	39400 ug/L		2500	250		06/18/14 22:13	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		06/18/14 22:13	56-23-5	
Chloroethane	ND ug/L		250	250		06/18/14 22:13	75-00-3	
Chloroform	ND ug/L		250	250		06/18/14 22:13	67-66-3	
1,4-Dichlorobenzene	634 ug/L		250	250		06/18/14 22:13	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		06/18/14 22:13	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		06/18/14 22:13	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		06/18/14 22:13	156-60-5	
Ethylbenzene	ND ug/L		250	250		06/18/14 22:13	100-41-4	
Methylene chloride	ND ug/L		250	250		06/18/14 22:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		06/18/14 22:13	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		06/18/14 22:13	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		06/18/14 22:13	127-18-4	
Toluene	ND ug/L		250	250		06/18/14 22:13	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		06/18/14 22:13	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		06/18/14 22:13	79-00-5	
Trichloroethene	ND ug/L		250	250		06/18/14 22:13	79-01-6	
Vinyl chloride	ND ug/L		250	250		06/18/14 22:13	75-01-4	
Xylene (Total)	ND ug/L		750	250		06/18/14 22:13	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100 %		80-120	250		06/18/14 22:13	460-00-4	
Toluene-d8 (S)	96 %		80-120	250		06/18/14 22:13	2037-26-5	
1,2-Dichloroethane-d4 (S)	92 %		80-120	250		06/18/14 22:13	17060-07-0	
Preservation pH	6.0		1.0	250		06/18/14 22:13		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	592 mg/L		5.0	1		06/18/14 16:24		M1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-332

Pace Project No.: 60171556

Sample: 316-332		Lab ID: 60171556001	Collected: 06/16/14 08:30	Received: 06/16/14 13:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	8.3	mg/L	5.0	1		06/18/14 16:43		M1
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	4220	mg/L	5.0	1		06/19/14 09:45		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.4	Std. Units	0.10	1		06/18/14 09:15		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	31000	mg/L	2.0	1	06/17/14 12:52	06/22/14 14:00		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	545	mg/L	20.0	200		06/23/14 09:49	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	48200	mg/L	5000	500		06/19/14 09:55		M1

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-332

Pace Project No.: 60171556

Sample: TRIP BLANK		Lab ID: 60171556002	Collected: 06/16/14 08:30	Received: 06/16/14 13:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		06/19/14 23:11	67-64-1	N2
Benzene	ND ug/L		1.0	1		06/19/14 23:11	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		06/19/14 23:11	75-27-4	
Bromoform	ND ug/L		1.0	1		06/19/14 23:11	75-25-2	
Bromomethane	ND ug/L		5.0	1		06/19/14 23:11	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/19/14 23:11	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		06/19/14 23:11	56-23-5	
Chloroethane	ND ug/L		1.0	1		06/19/14 23:11	75-00-3	
Chloroform	ND ug/L		1.0	1		06/19/14 23:11	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		06/19/14 23:11	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		06/19/14 23:11	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		06/19/14 23:11	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		06/19/14 23:11	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		06/19/14 23:11	100-41-4	
Methylene chloride	ND ug/L		1.0	1		06/19/14 23:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/19/14 23:11	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		06/19/14 23:11	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		06/19/14 23:11	127-18-4	
Toluene	ND ug/L		1.0	1		06/19/14 23:11	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		06/19/14 23:11	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		06/19/14 23:11	79-00-5	
Trichloroethene	ND ug/L		1.0	1		06/19/14 23:11	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		06/19/14 23:11	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		06/19/14 23:11	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	98 %		80-120	1		06/19/14 23:11	460-00-4	
Toluene-d8 (S)	96 %		80-120	1		06/19/14 23:11	2037-26-5	
1,2-Dichloroethane-d4 (S)	94 %		80-120	1		06/19/14 23:11	17060-07-0	
Preservation pH	6.0		1.0	1		06/19/14 23:11		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-332

Pace Project No.: 60171556

QC Batch: MERP/8514

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60171556001

METHOD BLANK: 1398965

Matrix: Water

Associated Lab Samples: 60171556001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	06/22/14 18:56	

LABORATORY CONTROL SAMPLE: 1398966

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1398967 1398968

Parameter	Units	60171556001		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
Mercury	ug/L	ND	150	150	148	149	98	98	70-130	0	20				

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-332

Pace Project No.: 60171556

QC Batch: MERP/8511

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60171556001

METHOD BLANK: 1398951

Matrix: Water

Associated Lab Samples: 60171556001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	06/22/14 16:34	

LABORATORY CONTROL SAMPLE: 1398952

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.3	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1398953 1398954

Parameter	Units	60171556001		MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		Result	ND	Spike Conc.	Conc.	Result	Result	% Rec	% Rec					
Mercury, Dissolved	ug/L	ND	150	150	135	144	90	96	70-130	7	20			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-332

Pace Project No.: 60171556

QC Batch:	MPRP/27685	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
Associated Lab Samples:	60171556001		

METHOD BLANK: 1396074 Matrix: Water

Associated Lab Samples: 60171556001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	06/18/14 16:06	
Antimony	ug/L	ND	10.0	06/18/14 16:06	
Arsenic	ug/L	ND	10.0	06/18/14 16:06	
Beryllium	ug/L	ND	1.0	06/18/14 16:06	
Cadmium	ug/L	ND	5.0	06/18/14 16:06	
Chromium	ug/L	ND	5.0	06/18/14 16:06	
Cobalt	ug/L	ND	5.0	06/18/14 16:06	
Copper	ug/L	ND	10.0	06/18/14 16:06	
Iron	ug/L	ND	50.0	06/18/14 16:06	
Lead	ug/L	ND	5.0	06/18/14 16:06	
Nickel	ug/L	ND	5.0	06/18/14 16:06	
Selenium	ug/L	ND	15.0	06/18/14 16:06	
Silver	ug/L	ND	7.0	06/18/14 16:06	
Thallium	ug/L	ND	20.0	06/18/14 16:06	
Zinc	ug/L	ND	50.0	06/18/14 16:06	

LABORATORY CONTROL SAMPLE: 1396075

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10400	104	85-115	
Antimony	ug/L	1000	1070	107	85-115	
Arsenic	ug/L	1000	967	97	85-115	
Beryllium	ug/L	1000	1020	102	85-115	
Cadmium	ug/L	1000	1040	104	85-115	
Chromium	ug/L	1000	989	99	85-115	
Cobalt	ug/L	1000	1020	102	85-115	
Copper	ug/L	1000	1100	110	85-115	
Iron	ug/L	10000	9760	98	85-115	
Lead	ug/L	1000	1040	104	85-115	
Nickel	ug/L	1000	1060	106	85-115	
Selenium	ug/L	1000	1040	104	85-115	
Silver	ug/L	500	509	102	85-115	
Thallium	ug/L	1000	1020	102	85-115	
Zinc	ug/L	1000	930	93	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-332

Pace Project No.: 60171556

Parameter	Units	60171556001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max	RPD	Qual
		Result	Conc.	Spike	Conc.	Result	Conc.	Result	Conc.	% Rec	% Rec						
Aluminum	ug/L	2410	50000	50000	50000	55400	55800	106	107	70-130	1	8					
Antimony	ug/L	51.2	5000	5000	5000	5380	5440	107	108	70-130	1	7					
Arsenic	ug/L	1100	5000	5000	5000	6540	6620	109	110	70-130	1	10					
Beryllium	ug/L	ND	5000	5000	5000	5000	5000	100	100	70-130	0	7					
Cadmium	ug/L	ND	5000	5000	5000	5320	5360	106	107	70-130	1	10					
Chromium	ug/L	154	5000	5000	5000	4940	4980	96	97	70-130	1	10					
Cobalt	ug/L	ND	5000	5000	5000	4970	5010	99	100	70-130	1	6					
Copper	ug/L	ND	5000	5000	5000	5840	5860	116	117	70-130	0	11					
Iron	ug/L	311000	50000	50000	50000	363000	359000	104	96	70-130	1	10					
Lead	ug/L	32.2	5000	5000	5000	4720	4770	94	95	70-130	1	10					
Nickel	ug/L	93.3	5000	5000	5000	5220	5230	102	103	70-130	0	10					
Selenium	ug/L	ND	5000	5000	5000	6070	6090	121	122	70-130	0	10					
Silver	ug/L	ND	2500	2500	2500	2720	2720	108	108	70-130	0	10					
Thallium	ug/L	ND	5000	5000	5000	4380	4420	88	88	70-130	1	6					
Zinc	ug/L	3130	5000	5000	5000	7770	7800	93	93	70-130	0	11					

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-332

Pace Project No.: 60171556

QC Batch: MPRP/27716

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Dissolved

Associated Lab Samples: 60171556001

METHOD BLANK: 1397359

Matrix: Water

Associated Lab Samples: 60171556001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	06/20/14 14:15	
Antimony, Dissolved	ug/L	ND	10.0	06/20/14 14:15	
Arsenic, Dissolved	ug/L	ND	10.0	06/20/14 14:15	
Beryllium, Dissolved	ug/L	ND	1.0	06/20/14 14:15	
Cadmium, Dissolved	ug/L	ND	5.0	06/20/14 14:15	
Chromium, Dissolved	ug/L	ND	5.0	06/20/14 14:15	
Cobalt, Dissolved	ug/L	ND	5.0	06/20/14 14:15	
Copper, Dissolved	ug/L	ND	10.0	06/20/14 14:15	
Iron, Dissolved	ug/L	ND	50.0	06/20/14 14:15	
Lead, Dissolved	ug/L	ND	5.0	06/20/14 14:15	
Nickel, Dissolved	ug/L	ND	5.0	06/20/14 14:15	
Selenium, Dissolved	ug/L	ND	15.0	06/20/14 14:15	
Silver, Dissolved	ug/L	ND	7.0	06/20/14 14:15	
Thallium, Dissolved	ug/L	ND	20.0	06/20/14 14:15	
Zinc, Dissolved	ug/L	ND	50.0	06/20/14 14:15	

LABORATORY CONTROL SAMPLE: 1397360

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10200	102	85-115	
Antimony, Dissolved	ug/L	1000	1020	102	85-115	
Arsenic, Dissolved	ug/L	1000	921	92	85-115	
Beryllium, Dissolved	ug/L	1000	1020	102	85-115	
Cadmium, Dissolved	ug/L	1000	1000	100	85-115	
Chromium, Dissolved	ug/L	1000	990	99	85-115	
Cobalt, Dissolved	ug/L	1000	996	100	85-115	
Copper, Dissolved	ug/L	1000	1040	104	85-115	
Iron, Dissolved	ug/L	10000	9860	99	85-115	
Lead, Dissolved	ug/L	1000	1010	101	85-115	
Nickel, Dissolved	ug/L	1000	1030	103	85-115	
Selenium, Dissolved	ug/L	1000	975	97	85-115	
Silver, Dissolved	ug/L	500	501	100	85-115	
Thallium, Dissolved	ug/L	1000	995	100	85-115	
Zinc, Dissolved	ug/L	1000	925	92	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-332

Pace Project No.: 60171556

Parameter	Units	60171556001		1397361		1397362		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Aluminum, Dissolved	ug/L	2100	50000	50000	54400	54400	105	105	70-130	0	8		
Antimony, Dissolved	ug/L	66.5	5000	5000	5380	5420	106	107	70-130	1	7		
Arsenic, Dissolved	ug/L	1090	5000	5000	6130	6070	101	100	70-130	1	10		
Beryllium, Dissolved	ug/L	ND	5000	5000	4960	5040	99	101	70-130	2	7		
Cadmium, Dissolved	ug/L	ND	5000	5000	5240	5270	105	105	70-130	1	10		
Chromium, Dissolved	ug/L	171	5000	5000	5020	5090	97	98	70-130	1	10		
Cobalt, Dissolved	ug/L	ND	5000	5000	4880	4920	97	98	70-130	1	6		
Copper, Dissolved	ug/L	ND	5000	5000	5460	5500	109	109	70-130	1	11		
Iron, Dissolved	ug/L	352000	50000	50000	410000	400000	116	97	70-130	2	10		
Lead, Dissolved	ug/L	41.9	5000	5000	4790	4870	95	96	70-130	1	10		
Nickel, Dissolved	ug/L	93.5	5000	5000	5060	5090	99	100	70-130	1	10		
Selenium, Dissolved	ug/L	ND	5000	5000	5480	5560	109	111	70-130	1	10		
Silver, Dissolved	ug/L	ND	2500	2500	2590	2620	103	104	70-130	1	10		
Thallium, Dissolved	ug/L	ND	5000	5000	4490	4500	90	90	70-130	0	6		
Zinc, Dissolved	ug/L	3220	5000	5000	7660	7620	89	88	70-130	0	11		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-332

Pace Project No.: 60171556

QC Batch: MSV/62399 Analysis Method: EPA 624 Low
 QC Batch Method: EPA 624 Low Analysis Description: 624 MSV
 Associated Lab Samples: 60171556001

METHOD BLANK: 1396468 Matrix: Water

Associated Lab Samples: 60171556001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/18/14 20:09	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/18/14 20:09	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	06/18/14 20:09	
1,2-Dichloroethane	ug/L	ND	1.0	06/18/14 20:09	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/18/14 20:09	
2-Butanone (MEK)	ug/L	ND	10.0	06/18/14 20:09	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/18/14 20:09	N2
Acetone	ug/L	ND	10.0	06/18/14 20:09	N2
Benzene	ug/L	ND	1.0	06/18/14 20:09	
Bromodichloromethane	ug/L	ND	1.0	06/18/14 20:09	
Bromoform	ug/L	ND	1.0	06/18/14 20:09	
Bromomethane	ug/L	ND	5.0	06/18/14 20:09	
Carbon tetrachloride	ug/L	ND	1.0	06/18/14 20:09	
Chloroethane	ug/L	ND	1.0	06/18/14 20:09	
Chloroform	ug/L	ND	1.0	06/18/14 20:09	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/18/14 20:09	N2
Ethylbenzene	ug/L	ND	1.0	06/18/14 20:09	
Methylene chloride	ug/L	ND	1.0	06/18/14 20:09	
Tetrachloroethene	ug/L	ND	1.0	06/18/14 20:09	
Toluene	ug/L	ND	1.0	06/18/14 20:09	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/18/14 20:09	
Trichloroethene	ug/L	ND	1.0	06/18/14 20:09	
Vinyl chloride	ug/L	ND	1.0	06/18/14 20:09	
Xylene (Total)	ug/L	ND	3.0	06/18/14 20:09	N2
1,2-Dichloroethane-d4 (S)	%	96	80-120	06/18/14 20:09	
4-Bromofluorobenzene (S)	%	97	80-120	06/18/14 20:09	
Toluene-d8 (S)	%	99	80-120	06/18/14 20:09	

LABORATORY CONTROL SAMPLE: 1396469

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	17.7	88	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	19.3	96	67-127	N2
1,1,2-Trichloroethane	ug/L	20	19.5	98	67-124	
1,2-Dichloroethane	ug/L	20	17.3	86	70-126	
1,4-Dichlorobenzene	ug/L	20	18.9	95	74-120	
2-Butanone (MEK)	ug/L	100	94.3	94	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	99.6	100	59-131	N2
Acetone	ug/L	100	92.8	93	38-134	N2
Benzene	ug/L	20	18.1	90	75-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-332

Pace Project No.: 60171556

LABORATORY CONTROL SAMPLE: 1396469

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	20	18.9	94	68-125	
Bromoform	ug/L	20	18.8	94	65-127	
Bromomethane	ug/L	20	7.4	37	13-157	
Carbon tetrachloride	ug/L	20	17.2	86	70-131	
Chloroethane	ug/L	20	19.0	95	47-133	
Chloroform	ug/L	20	17.8	89	65-127	
cis-1,2-Dichloroethene	ug/L	20	18.5	92	68-127	N2
Ethylbenzene	ug/L	20	18.9	94	74-122	
Methylene chloride	ug/L	20	16.9	85	64-129	
Tetrachloroethene	ug/L	20	19.2	96	73-125	
Toluene	ug/L	20	17.6	88	69-126	
trans-1,2-Dichloroethene	ug/L	20	17.3	86	66-129	
Trichloroethene	ug/L	20	18.3	91	71-123	
Vinyl chloride	ug/L	20	14.2	71	43-129	
Xylene (Total)	ug/L	60	56.6	94	75-121	N2
1,2-Dichloroethane-d4 (S)	%			95	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			94	80-120	

MATRIX SPIKE SAMPLE: 1396470

Parameter	Units	60171556001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	3910	78	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	4770	93	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	4340	87	52-143	
1,2-Dichloroethane	ug/L	ND	5000	3710	74	49-144	
1,4-Dichlorobenzene	ug/L	634	5000	4830	84	33-140	
2-Butanone (MEK)	ug/L	39400	25000	67500	112	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	23000	89	40-160	N2
Acetone	ug/L	99200	25000	127000	109	10-160	N2
Benzene	ug/L	ND	5000	4010	80	37-151	
Bromodichloromethane	ug/L	ND	5000	4010	80	35-142	
Bromoform	ug/L	ND	5000	4320	86	45-142	
Bromomethane	ug/L	ND	5000	1880	38	10-158	
Carbon tetrachloride	ug/L	ND	5000	4130	83	70-140	
Chloroethane	ug/L	ND	5000	3690	74	19-152	
Chloroform	ug/L	ND	5000	3890	78	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	4150	83	34-147	N2
Ethylbenzene	ug/L	ND	5000	4240	85	40-142	
Methylene chloride	ug/L	ND	5000	3850	76	31-144	
Tetrachloroethene	ug/L	ND	5000	4400	88	64-148	
Toluene	ug/L	ND	5000	3890	78	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	3880	78	54-151	
Trichloroethene	ug/L	ND	5000	3880	78	71-149	
Vinyl chloride	ug/L	ND	5000	3300	66	22-146	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-332

Pace Project No.: 60171556

MATRIX SPIKE SAMPLE:		1396470					
Parameter	Units	60171556001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	ND	15000	12600	84	37-144	N2
1,2-Dichloroethane-d4 (S)	%				92	80-120	
4-Bromofluorobenzene (S)	%				102	80-120	
Toluene-d8 (S)	%				95	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-332
 Pace Project No.: 60171556

QC Batch: MSV/62417 Analysis Method: EPA 624 Low
 QC Batch Method: EPA 624 Low Analysis Description: 624 MSV
 Associated Lab Samples: 60171556002

METHOD BLANK: 1397048 Matrix: Water
 Associated Lab Samples: 60171556002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/19/14 22:55	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/19/14 22:55	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	06/19/14 22:55	
1,2-Dichloroethane	ug/L	ND	1.0	06/19/14 22:55	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/19/14 22:55	
2-Butanone (MEK)	ug/L	ND	10.0	06/19/14 22:55	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/19/14 22:55	N2
Acetone	ug/L	ND	10.0	06/19/14 22:55	N2
Benzene	ug/L	ND	1.0	06/19/14 22:55	
Bromodichloromethane	ug/L	ND	1.0	06/19/14 22:55	
Bromoform	ug/L	ND	1.0	06/19/14 22:55	
Bromomethane	ug/L	ND	5.0	06/19/14 22:55	
Carbon tetrachloride	ug/L	ND	1.0	06/19/14 22:55	
Chloroethane	ug/L	ND	1.0	06/19/14 22:55	
Chloroform	ug/L	ND	1.0	06/19/14 22:55	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/19/14 22:55	N2
Ethylbenzene	ug/L	ND	1.0	06/19/14 22:55	
Methylene chloride	ug/L	ND	1.0	06/19/14 22:55	
Tetrachloroethene	ug/L	ND	1.0	06/19/14 22:55	
Toluene	ug/L	ND	1.0	06/19/14 22:55	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/19/14 22:55	
Trichloroethene	ug/L	ND	1.0	06/19/14 22:55	
Vinyl chloride	ug/L	ND	1.0	06/19/14 22:55	
Xylene (Total)	ug/L	ND	3.0	06/19/14 22:55	N2
1,2-Dichloroethane-d4 (S)	%	98	80-120	06/19/14 22:55	
4-Bromofluorobenzene (S)	%	98	80-120	06/19/14 22:55	
Toluene-d8 (S)	%	98	80-120	06/19/14 22:55	

LABORATORY CONTROL SAMPLE: 1397049

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	16.9	85	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	20.3	101	67-127	N2
1,1,2-Trichloroethane	ug/L	20	19.6	98	67-124	
1,2-Dichloroethane	ug/L	20	17.7	88	70-126	
1,4-Dichlorobenzene	ug/L	20	18.2	91	74-120	
2-Butanone (MEK)	ug/L	100	96.9	97	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	102	102	59-131	N2
Acetone	ug/L	100	91.6	92	38-134	N2
Benzene	ug/L	20	17.7	89	75-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-332

Pace Project No.: 60171556

LABORATORY CONTROL SAMPLE: 1397049

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	20	18.9	94	68-125	
Bromoform	ug/L	20	19.2	96	65-127	
Bromomethane	ug/L	20	7.4	37	13-157	
Carbon tetrachloride	ug/L	20	16.8	84	70-131	
Chloroethane	ug/L	20	15.8	79	47-133	
Chloroform	ug/L	20	17.3	87	65-127	
cis-1,2-Dichloroethene	ug/L	20	18.2	91	68-127	N2
Ethylbenzene	ug/L	20	18.7	93	74-122	
Methylene chloride	ug/L	20	16.9	85	64-129	
Tetrachloroethene	ug/L	20	18.5	92	73-125	
Toluene	ug/L	20	17.5	88	69-126	
trans-1,2-Dichloroethene	ug/L	20	16.2	81	66-129	
Trichloroethene	ug/L	20	16.8	84	71-123	
Vinyl chloride	ug/L	20	12.0	60	43-129	
Xylene (Total)	ug/L	60	56.1	93	75-121	N2
1,2-Dichloroethane-d4 (S)	%			96	80-120	
4-Bromofluorobenzene (S)	%			98	80-120	
Toluene-d8 (S)	%			95	80-120	

MATRIX SPIKE SAMPLE: 1397050

Parameter	Units	60171645001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	3720	74	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	4590	92	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	4110	82	52-143	
1,2-Dichloroethane	ug/L	ND	5000	3640	73	49-144	
1,4-Dichlorobenzene	ug/L	464	5000	4430	79	33-140	
2-Butanone (MEK)	ug/L	43500	25000	67500	96	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	22700	88	40-160	N2
Acetone	ug/L	100000	25000	126000	102	10-160	N2
Benzene	ug/L	ND	5000	3770	75	37-151	
Bromodichloromethane	ug/L	ND	5000	3900	78	35-142	
Bromoform	ug/L	ND	5000	4410	88	45-142	
Bromomethane	ug/L	ND	5000	1600	32	10-158	
Carbon tetrachloride	ug/L	ND	5000	3820	76	70-140	
Chloroethane	ug/L	ND	5000	3250	65	19-152	
Chloroform	ug/L	ND	5000	3640	73	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	3870	77	34-147	N2
Ethylbenzene	ug/L	ND	5000	4070	81	40-142	
Methylene chloride	ug/L	ND	5000	3590	71	31-144	
Tetrachloroethene	ug/L	ND	5000	4250	85	64-148	
Toluene	ug/L	ND	5000	3710	74	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	3570	71	54-151	
Trichloroethene	ug/L	ND	5000	3690	74	71-149	
Vinyl chloride	ug/L	ND	5000	2390	48	22-146	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-332

Pace Project No.: 60171556

MATRIX SPIKE SAMPLE:		1397050					
Parameter	Units	60171645001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	ND	15000	11900	79	37-144	N2
1,2-Dichloroethane-d4 (S)	%				94	80-120	
4-Bromofluorobenzene (S)	%				100	80-120	
Toluene-d8 (S)	%				94	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-332

Pace Project No.: 60171556

QC Batch: OEXT/44731 Analysis Method: EPA 625
 QC Batch Method: EPA 625 Analysis Description: 625 MSS
 Associated Lab Samples: 60171556001

METHOD BLANK: 1396677 Matrix: Water

Associated Lab Samples: 60171556001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/20/14 09:31	
2,4,6-Trichlorophenol	ug/L	ND	5.0	06/20/14 09:31	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	06/20/14 09:31	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	06/20/14 09:31	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	06/20/14 09:31	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/20/14 09:31	
Hexachlorocyclopentadiene	ug/L	ND	5.0	06/20/14 09:31	
Hexachloroethane	ug/L	ND	5.0	06/20/14 09:31	
Naphthalene	ug/L	ND	5.0	06/20/14 09:31	
Nitrobenzene	ug/L	ND	5.0	06/20/14 09:31	
Pentachlorophenol	ug/L	ND	5.0	06/20/14 09:31	
Phenol	ug/L	ND	5.0	06/20/14 09:31	
2,4,6-Tribromophenol (S)	%	77	39-120	06/20/14 09:31	
2-Fluorobiphenyl (S)	%	75	39-120	06/20/14 09:31	
2-Fluorophenol (S)	%	38	17-120	06/20/14 09:31	
Nitrobenzene-d5 (S)	%	74	33-120	06/20/14 09:31	
Phenol-d6 (S)	%	23	11-120	06/20/14 09:31	
Terphenyl-d14 (S)	%	68	45-120	06/20/14 09:31	

LABORATORY CONTROL SAMPLE: 1396678

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	39.8	80	46-120	
2,4,6-Trichlorophenol	ug/L	50	42.0	84	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	30.7	61	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	25.8	52	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	47.6	95	40-133	
Hexachloro-1,3-butadiene	ug/L	50	39.7	79	44-116	
Hexachlorocyclopentadiene	ug/L	100	38.7	39	24-120	
Hexachloroethane	ug/L	50	34.8	70	43-113	
Naphthalene	ug/L	50	40.9	82	48-120	
Nitrobenzene	ug/L	50	42.1	84	48-120	
Pentachlorophenol	ug/L	50	39.5	79	47-120	
Phenol	ug/L	50	13.3	27	16-112	
2,4,6-Tribromophenol (S)	%			87	39-120	
2-Fluorobiphenyl (S)	%			85	39-120	
2-Fluorophenol (S)	%			40	17-120	
Nitrobenzene-d5 (S)	%			83	33-120	
Phenol-d6 (S)	%			24	11-120	
Terphenyl-d14 (S)	%			83	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-332

Pace Project No.: 60171556

MATRIX SPIKE SAMPLE:		1396679					
Parameter	Units	60171556001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	36.1	72	44-120	
2,4,6-Trichlorophenol	ug/L	ND	50	43.1	86	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	50	32.6	65	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	6640	50	99.9	-13085	27-120	M1,N2
4,6-Dinitro-2-methylphenol	ug/L	ND	50	41.1J	82	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	50	36.3	73	39-116	
Hexachlorocyclopentadiene	ug/L	ND	100	39.0	39	11-120	
Hexachloroethane	ug/L	ND	50	34.6	69	40-113	
Naphthalene	ug/L	2700	50	56.2	-5294	45-120	M1
Nitrobenzene	ug/L	ND	50	43.4	87	38-120	
Pentachlorophenol	ug/L	ND	50	44.8	90	43-135	
Phenol	ug/L	10000	50	105	-19787	13-112	M1
2,4,6-Tribromophenol (S)	%				88	39-120	
2-Fluorobiphenyl (S)	%				78	39-120	
2-Fluorophenol (S)	%				38	17-120	
Nitrobenzene-d5 (S)	%				150	33-120	S0
Phenol-d6 (S)	%				26	11-120	
Terphenyl-d14 (S)	%				75	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-332

Pace Project No.: 60171556

QC Batch:	WET/48543	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60171556001		

METHOD BLANK: 1396506 Matrix: Water
Associated Lab Samples: 60171556001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	06/18/14 16:19	

LABORATORY CONTROL SAMPLE: 1396507

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	35.2	88	78-114	

MATRIX SPIKE SAMPLE: 1396519

Parameter	Units	60171556001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	592	160	632	25	78-114	M1

SAMPLE DUPLICATE: 1396509

Parameter	Units	60171203001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	60.4	57.0	6	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-332

Pace Project No.: 60171556

QC Batch:	WET/48544	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60171556001		

METHOD BLANK: 1396527 Matrix: Water
Associated Lab Samples: 60171556001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	06/18/14 16:42	

LABORATORY CONTROL SAMPLE: 1396528

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	22.4	112	64-132	

MATRIX SPIKE SAMPLE: 1396529

Parameter	Units	60171556001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	8.3	80	34.4	33	64-132	M1

SAMPLE DUPLICATE: 1396530

Parameter	Units	60171203001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	9.9	10.2	3	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-332

Pace Project No.: 60171556

QC Batch: WET/48555

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60171556001

METHOD BLANK: 1396815

Matrix: Water

Associated Lab Samples: 60171556001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	06/19/14 09:44	

SAMPLE DUPLICATE: 1396816

Parameter	Units	60171556001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	4220	4520	7	10	

SAMPLE DUPLICATE: 1396817

Parameter	Units	60171539002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	6.0		10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-332

Pace Project No.: 60171556

QC Batch: WET/48518 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60171556001

SAMPLE DUPLICATE: 1395899

Parameter	Units	60171556001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.4	5.4	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-332

Pace Project No.: 60171556

QC Batch: WET/48499

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60171556001

METHOD BLANK: 1395604

Matrix: Water

Associated Lab Samples: 60171556001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	06/22/14 13:57	

LABORATORY CONTROL SAMPLE: 1395605

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	214	108	85-115	

SAMPLE DUPLICATE: 1395606

Parameter	Units	60171556001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	31000	31400	1	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-332

Pace Project No.: 60171556

QC Batch:	WETA/29937	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60171556001		

METHOD BLANK: 1399070 Matrix: Water

Associated Lab Samples: 60171556001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	06/23/14 09:43	

LABORATORY CONTROL SAMPLE: 1399071

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	103	90-110	

MATRIX SPIKE SAMPLE: 1399072

Parameter	Units	60171009003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2.7	2	4.4	86	90-110	M1

SAMPLE DUPLICATE: 1399073

Parameter	Units	60171556001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	545	551	1	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-332

Pace Project No.: 60171556

QC Batch:	WETA/29869	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60171556001		

METHOD BLANK: 1396155 Matrix: Water
Associated Lab Samples: 60171556001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	06/19/14 09:49	

LABORATORY CONTROL SAMPLE: 1396156

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	46.2	92	90-110	

MATRIX SPIKE SAMPLE: 1396157

Parameter	Units	60171556001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	48200	25000	69200	84	90-110	M1

SAMPLE DUPLICATE: 1396158

Parameter	Units	60171209001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	40700	49100	19	25	

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QUALIFIERS

Project: BRIDGETON LF 316-332

Pace Project No.: 60171556

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.

PQL - Practical Quantitation 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.

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D9 Dissolved result is greater than the total. Data is within laboratory control limits.

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.

N2 The lab does not hold TNI accreditation for this parameter.

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-332

Pace Project No.: 60171556

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60171556001	316-332	EPA 200.7	MPRP/27685	EPA 200.7	ICP/20922
60171556001	316-332	EPA 200.7	MPRP/27716	EPA 200.7	ICP/20950
60171556001	316-332	EPA 245.1	MERP/8514	EPA 245.1	MERC/8469
60171556001	316-332	EPA 245.1	MERP/8511	EPA 245.1	MERC/8466
60171556001	316-332	EPA 625	OEXT/44731	EPA 625	MSSV/14323
60171556001	316-332	EPA 624 Low	MSV/62399		
60171556002	TRIP BLANK	EPA 624 Low	MSV/62417		
60171556001	316-332	EPA 1664A	WET/48543		
60171556001	316-332	EPA 1664A	WET/48544		
60171556001	316-332	SM 2540D	WET/48555		
60171556001	316-332	SM 4500-H+B	WET/48518		
60171556001	316-332	SM 5210B	WET/48499	SM 5210B	WET/48613
60171556001	316-332	EPA 350.1	WETA/29937		
60171556001	316-332	EPA 410.4	WETA/29869		

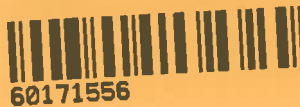
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Sample Condition Upon Receipt

WO#: 60171556



Client Name: Barr Engineering

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: _____ Pace Shipping Label Used? Yes No

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other zpk

Thermometer Used: T-239 / T-194 Type of Ice: Wet Blue None Samples received on ice, cooling process has begun.

Cooler Temperature: 12.2 + cooling (circle one)

Date and initials of person examining contents: att 6/14

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>DOD/pH</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix: <u>WT</u>		13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	BP35 w/ initial pH 4.5 added conc. H2SO4 w/ final pH 2.5 BP3N w/ initial pH 5.0 added 2.5mL HNO3 w/ final pH 4.0
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: <u>VOA</u> coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>att</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Lot # of added preservative <u>125A2-2-7</u> <u>12513-2-3-2</u>
Pace Trip Blank lot # (if purchased): <u>Covered</u>		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <u>MD</u>

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: PQS sample

Project Manager Review: [Signature]

Date: 6/14

June 24, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON UNTREATED COMMINGLED
Pace Project No.: 60171561

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 16, 2014. 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,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Bill Abernathy, Feezor Engineering
Kelly Caddy, Barr Engineering
DAN FEEZOR, FEEZOR ENGINEERING
Dana B. Pasi, Barr Engineering Co.
Brian Power, Republic Services
Brian Sehie, Republic Services
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60171561

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-13-4

Utah Certification #: KS000212013-3

Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60171561

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60171561001	TCLP JUN2014	Water	06/15/14 08:00	06/16/14 13:05
60171561002	TRIP BLANK	Water	06/15/14 08:00	06/16/14 13:05

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SAMPLE ANALYTE COUNT

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60171561

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60171561001	TCLP JUN2014	EPA 8260	TJT	13
		EPA 1664A	CRT	1
		SM 2540B	ESM	1
60171561002	TRIP BLANK	EPA 5030B/8260	PRG	28

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ANALYTICAL RESULTS

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60171561

Sample: TCLP JUN2014		Lab ID: 60171561001	Collected: 06/15/14 08:00	Received: 06/16/14 13:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV TCLP		Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 06/23/14 00:00						
Benzene	267 ug/L		250	5		06/23/14 21:19	71-43-2	
2-Butanone (MEK)	29100 ug/L		5000	5		06/23/14 21:19	78-93-3	
Carbon tetrachloride	ND ug/L		250	5		06/23/14 21:19	56-23-5	
Chlorobenzene	ND ug/L		250	5		06/23/14 21:19	108-90-7	
Chloroform	ND ug/L		1000	5		06/23/14 21:19	67-66-3	
1,2-Dichloroethane	ND ug/L		250	5		06/23/14 21:19	107-06-2	
1,1-Dichloroethene	ND ug/L		250	5		06/23/14 21:19	75-35-4	
Tetrachloroethene	ND ug/L		250	5		06/23/14 21:19	127-18-4	
Trichloroethene	ND ug/L		250	5		06/23/14 21:19	79-01-6	
Vinyl chloride	ND ug/L		100	5		06/23/14 21:19	75-01-4	
Surrogates								
1,2-Dichloroethane-d4 (S)	102 %		80-120	5		06/23/14 21:19	17060-07-0	
Toluene-d8 (S)	100 %		80-120	5		06/23/14 21:19	2037-26-5	
4-Bromofluorobenzene (S)	101 %		80-120	5		06/23/14 21:19	460-00-4	
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	423 mg/L		5.0	1		06/19/14 16:20		
2540B Total Solids		Analytical Method: SM 2540B						
Total Solids	20400 mg/L		5.0	1		06/20/14 16:22		

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ANALYTICAL RESULTS

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60171561

Sample: TRIP BLANK		Lab ID: 60171561002	Collected: 06/15/14 08:00	Received: 06/16/14 13:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
Acetone	ND ug/L		10.0	1		06/17/14 15:29	67-64-1	
Benzene	ND ug/L		1.0	1		06/17/14 15:29	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		06/17/14 15:29	75-27-4	
Bromoform	ND ug/L		1.0	1		06/17/14 15:29	75-25-2	
Bromomethane	ND ug/L		5.0	1		06/17/14 15:29	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/17/14 15:29	78-93-3	
Carbon tetrachloride	ND ug/L		1.0	1		06/17/14 15:29	56-23-5	
Chloroethane	ND ug/L		1.0	1		06/17/14 15:29	75-00-3	
Chloroform	ND ug/L		1.0	1		06/17/14 15:29	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		06/17/14 15:29	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		06/17/14 15:29	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		06/17/14 15:29	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		06/17/14 15:29	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		06/17/14 15:29	100-41-4	
Methylene chloride	ND ug/L		1.0	1		06/17/14 15:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/17/14 15:29	108-10-1	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		06/17/14 15:29	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		06/17/14 15:29	127-18-4	
Toluene	ND ug/L		1.0	1		06/17/14 15:29	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		06/17/14 15:29	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		06/17/14 15:29	79-00-5	
Trichloroethene	ND ug/L		1.0	1		06/17/14 15:29	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		06/17/14 15:29	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		06/17/14 15:29	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	96 %		80-120	1		06/17/14 15:29	460-00-4	
1,2-Dichloroethane-d4 (S)	94 %		80-120	1		06/17/14 15:29	17060-07-0	
Toluene-d8 (S)	100 %		80-120	1		06/17/14 15:29	2037-26-5	
Preservation pH	1.0		0.10	1		06/17/14 15:29		

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60171561

QC Batch: MSV/62496 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV TCLP
Associated Lab Samples: 60171561001

METHOD BLANK: 1399461 Matrix: Water
Associated Lab Samples: 60171561001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	50.0	06/23/14 18:45	
1,2-Dichloroethane	ug/L	ND	50.0	06/23/14 18:45	
2-Butanone (MEK)	ug/L	ND	1000	06/23/14 18:45	
Benzene	ug/L	ND	50.0	06/23/14 18:45	
Carbon tetrachloride	ug/L	ND	50.0	06/23/14 18:45	
Chlorobenzene	ug/L	ND	50.0	06/23/14 18:45	
Chloroform	ug/L	ND	200	06/23/14 18:45	
Tetrachloroethene	ug/L	ND	50.0	06/23/14 18:45	
Trichloroethene	ug/L	ND	50.0	06/23/14 18:45	
Vinyl chloride	ug/L	ND	20.0	06/23/14 18:45	
1,2-Dichloroethane-d4 (S)	%	104	80-120	06/23/14 18:45	
4-Bromofluorobenzene (S)	%	99	80-120	06/23/14 18:45	
Toluene-d8 (S)	%	101	80-120	06/23/14 18:45	

LABORATORY CONTROL SAMPLE: 1399462

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	1000	873	87	78-126	
1,2-Dichloroethane	ug/L	1000	993	99	77-123	
2-Butanone (MEK)	ug/L	5000	4810	96	52-145	
Benzene	ug/L	1000	892	89	80-120	
Carbon tetrachloride	ug/L	1000	962	96	78-128	
Chlorobenzene	ug/L	1000	919	92	80-120	
Chloroform	ug/L	1000	920	92	79-120	
Tetrachloroethene	ug/L	1000	894	89	80-121	
Trichloroethene	ug/L	1000	925	93	80-120	
Vinyl chloride	ug/L	1000	869	87	59-120	
1,2-Dichloroethane-d4 (S)	%			101	80-120	
4-Bromofluorobenzene (S)	%			103	80-120	
Toluene-d8 (S)	%			99	80-120	

MATRIX SPIKE SAMPLE: 1399463

Parameter	Units	60170425001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	ND	1000	906	91	60-144	H1
1,2-Dichloroethane	ug/L	ND	1000	1040	104	49-148	H1
2-Butanone (MEK)	ug/L	ND	5000	4440	89	36-145	H1
Benzene	ug/L	ND	1000	916	92	37-157	H1

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60171561

MATRIX SPIKE SAMPLE:		1399463					
Parameter	Units	60170425001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	ND	1000	978	98	68-142	H1
Chlorobenzene	ug/L	ND	1000	945	94	66-133	H1
Chloroform	ug/L	ND	1000	892	89	66-127	H1
Tetrachloroethene	ug/L	ND	1000	901	90	69-133	H1
Trichloroethene	ug/L	ND	1000	953	95	61-135	H1
Vinyl chloride	ug/L	ND	1000	895	90	44-128	H1
1,2-Dichloroethane-d4 (S)	%				102	80-120	
4-Bromofluorobenzene (S)	%				104	80-120	
Toluene-d8 (S)	%				100	80-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Project No.: 60171561

QC Batch:	MSV/62348	Analysis Method:	EPA 5030B/8260
QC Batch Method:	EPA 5030B/8260	Analysis Description:	8260 MSV Water 10 mL Purge
Associated Lab Samples:	60171561002		

METHOD BLANK: 1395446 Matrix: Water

Associated Lab Samples: 60171561002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/17/14 15:15	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/17/14 15:15	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/17/14 15:15	
1,2-Dichloroethane	ug/L	ND	1.0	06/17/14 15:15	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/17/14 15:15	
2-Butanone (MEK)	ug/L	ND	10.0	06/17/14 15:15	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/17/14 15:15	
Acetone	ug/L	ND	10.0	06/17/14 15:15	
Benzene	ug/L	ND	1.0	06/17/14 15:15	
Bromodichloromethane	ug/L	ND	1.0	06/17/14 15:15	
Bromoform	ug/L	ND	1.0	06/17/14 15:15	
Bromomethane	ug/L	ND	5.0	06/17/14 15:15	
Carbon tetrachloride	ug/L	ND	1.0	06/17/14 15:15	
Chloroethane	ug/L	ND	1.0	06/17/14 15:15	
Chloroform	ug/L	ND	1.0	06/17/14 15:15	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/17/14 15:15	
Ethylbenzene	ug/L	ND	1.0	06/17/14 15:15	
Methylene chloride	ug/L	ND	1.0	06/17/14 15:15	
Tetrachloroethene	ug/L	ND	1.0	06/17/14 15:15	
Toluene	ug/L	ND	1.0	06/17/14 15:15	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/17/14 15:15	
Trichloroethene	ug/L	ND	1.0	06/17/14 15:15	
Vinyl chloride	ug/L	ND	1.0	06/17/14 15:15	
Xylene (Total)	ug/L	ND	3.0	06/17/14 15:15	
1,2-Dichloroethane-d4 (S)	%	101	80-120	06/17/14 15:15	
4-Bromofluorobenzene (S)	%	105	80-120	06/17/14 15:15	
Toluene-d8 (S)	%	91	80-120	06/17/14 15:15	

LABORATORY CONTROL SAMPLE: 1395447

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.2	106	80-121	
1,1,2,2-Tetrachloroethane	ug/L	20	18.8	94	73-124	
1,1,2-Trichloroethane	ug/L	20	19.0	95	80-120	
1,2-Dichloroethane	ug/L	20	19.9	100	77-123	
1,4-Dichlorobenzene	ug/L	20	19.3	97	80-120	
2-Butanone (MEK)	ug/L	100	98.2	98	52-145	
4-Methyl-2-pentanone (MIBK)	ug/L	100	102	102	71-131	
Acetone	ug/L	100	89.1	89	32-155	
Benzene	ug/L	20	20.6	103	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60171561

LABORATORY CONTROL SAMPLE: 1395447

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	20	21.3	106	80-120	
Bromoform	ug/L	20	21.2	106	73-124	
Bromomethane	ug/L	20	15.8	79	31-144	
Carbon tetrachloride	ug/L	20	20.0	100	78-128	
Chloroethane	ug/L	20	17.5	88	55-137	
Chloroform	ug/L	20	20.6	103	79-120	
cis-1,2-Dichloroethene	ug/L	20	20.8	104	80-120	
Ethylbenzene	ug/L	20	20.9	104	80-121	
Methylene chloride	ug/L	20	18.2	91	73-126	
Tetrachloroethene	ug/L	20	20.4	102	80-121	
Toluene	ug/L	20	19.6	98	80-122	
trans-1,2-Dichloroethene	ug/L	20	19.1	95	79-121	
Trichloroethene	ug/L	20	21.6	108	80-120	
Vinyl chloride	ug/L	20	17.3	86	59-120	
Xylene (Total)	ug/L	60	61.2	102	80-121	
1,2-Dichloroethane-d4 (S)	%			96	80-120	
4-Bromofluorobenzene (S)	%			92	80-120	
Toluene-d8 (S)	%			96	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60171561

QC Batch:	WET/48567	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60171561001		

METHOD BLANK: 1397280 Matrix: Water

Associated Lab Samples: 60171561001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	06/19/14 16:18	

LABORATORY CONTROL SAMPLE: 1397281

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	38.1	95	78-114	

MATRIX SPIKE SAMPLE: 1397282

Parameter	Units	60171249001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	8.1	44.4	52.0	99	78-114	

SAMPLE DUPLICATE: 1397283

Parameter	Units	60171296002 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	1.6J		18	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60171561

QC Batch: WET/48594

Analysis Method: SM 2540B

QC Batch Method: SM 2540B

Analysis Description: 2540B Total Solids

Associated Lab Samples: 60171561001

METHOD BLANK: 1398257

Matrix: Water

Associated Lab Samples: 60171561001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	mg/L	ND	5.0	06/20/14 16:21	

LABORATORY CONTROL SAMPLE: 1398258

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	mg/L	1000	976	98	80-120	

SAMPLE DUPLICATE: 1398259

Parameter	Units	60171561001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	mg/L	20400	19900	2	10	

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QUALIFIERS

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60171561

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.

PQL - Practical Quantitation 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.

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: MSV/62348

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

ANALYTE QUALIFIERS

H1 Analysis conducted outside the EPA method holding time.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60171561

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60171561001	TCLP JUN2014	EPA 8260	MSV/62496		
60171561002	TRIP BLANK	EPA 5030B/8260	MSV/62348		
60171561001	TCLP JUN2014	EPA 1664A	WET/48567		
60171561001	TCLP JUN2014	SM 2540B	WET/48594		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60171561



60171561

Client Name: Barr Engineering

Courier: Fed Ex UPS USPS Client Commercial Pace Other Crossroads

Tracking #: _____ Pace Shipping Label Used? Yes No att ullu

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other zpc

Thermometer Used: T-239 / T-194 Type of Ice: Wet Blue None Samples received on ice, cooling process has begun. (circle one)

Cooler Temperature: 2.8

Optional
Proj Due Date:
Proj Name:

Date and initials of person examining contents: att ullu

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.	
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Includes date/time/ID/analyses	Matrix: <u>WT</u>	13.	
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.	
Exceptions: VOA, coliform, TOC, <u>O&G</u> WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed	Lot # of added preservative
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Pace Trip Blank lot # (if purchased): <u>040114-3BFD</u>			
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State	<u>MO</u>

Client Notification/ Resolution: Copy COC to Client? Y N Field Data Required? Y N

Person Contacted: Bill Date/Time: _____

Comments/ Resolution: verified NO total VOCs on sample, but continue on trip.

Project Manager Review: [Signature] Date: 5/7/14

TCLP/SPLP Determination of Percent Solids
 (Only if sample is liquid or semi-liquid. Skip if sample is obviously 100% solid.)

Date: 6/23/14

Batch: 6418

Analyst: ZNB

Balance ID: 600EXT5

Reviewed by: _____

Sample Number	A	B	C	D	E	F	G	H	I	J	K	L	M	If Multiphase, Are Phases Compatible (2)
	Weight of Beaker (g)	Weight of Sample & Beaker (g)	Weight of Filtrate Container (g)	Weight of 142-mm TCLP Filter (g)	Weight of Waste Beaker After Filtration (g)	Weight of Filtrate & Container (g)	Weight of Filter and Solid Phase After Filtration (g)	Weight of Filtrate (g) (F - C)	Weight of Waste Filtered (g) (E - B)	Percent WET Solids $\left(\frac{I - H}{I} \times 0.01\right)$	DRY Weight #1 of Solid Phase plus Filter (g)	DRY Weight #2 of Solid Phase plus Filter (g) (1)	Percent DRY Solids $\left(\frac{L - D}{I} \times 0.01\right)$	
60171561.00	116.0	244.7	288.9	1.3	116.7	409.6	3.3	120.7	128	5.7%	1.5	1.5	0.15%	Yes / No / NA
														Yes / No / NA
														Yes / No / NA
														Yes / No / NA
														Yes / No / NA
														Yes / No / NA
														Yes / No / NA
														Yes / No / NA
														Yes / No / NA
														Yes / No / NA
														Yes / No / NA

Done 6/23/14

NOTE: If Wet Solids are ≥ 0.5 and $< 5\%$ and a small amount of liquid is entrapped in the filter, then determine Percent Dry Solids. If the entrapped liquid is oily (non-aqueous) do not determine Percent Dry Solids. If Solids are $< 0.5\%$, tumbling is not required because the filtrate is considered to be the TCLP/SPLP extract.

- Dry Weight #1 and Dry Weight #2 must be within 1% of each other. If the weights are within 1% of each other, use Dry Weight #2 in further calculations. If not within 1%, continue drying and weighing until two successive weighings are within 1%.
- If compatible, combine the filtered liquid resulting from extraction with the initial liquid phase of sample. If the initial liquid phase is not compatible with the filtered liquid resulting from extraction, do not combine. Analyze liquids separately and combine the results mathematically.

If solids are ≥ 5.0 and $< 100\%$	Weight of waste to charge the ZHE = $\frac{25}{\text{Percent solids}} \times 100$
	Weight of waste to filter = $\frac{\text{mL of leachate required}}{20 \times \text{Percent solids}} \times 100$

June 25, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-333
Pace Project No.: 60171645

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 18, 2014. 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,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Bill Abernathy, Feezor Engineering
Kelly Caddy, Barr Engineering
DAN FEEZOR, FEEZOR ENGINEERING
Dana B. Pasi, Barr Engineering Co.
Brian Power, Republic Services
Brian Sehie, Republic Services
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-333

Pace Project No.: 60171645

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-13-4

Utah Certification #: KS000212013-3

Illinois Certification #: 003097

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-333

Pace Project No.: 60171645

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60171645001	316-333	Water	06/17/14 08:38	06/18/14 02:10
60171645002	TRIP BLANK	Water	06/17/14 08:38	06/18/14 02:10

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-333

Pace Project No.: 60171645

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60171645001	316-333	EPA 200.7	NDJ	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	CRT	1
		EPA 1664A	CRT	1
		SM 2540D	ESM	1
		SM 4500-H+B	NDL	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC1	1
60171645002	TRIP BLANK	EPA 624 Low	EAK	28

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: BRIDGETON LF 316-333

Pace Project No.: 60171645

Date: June 25, 2014

The samples were received outside of required temperature range. Analysis was completed upon client approval.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-333

Pace Project No.: 60171645

Sample: 316-333		Lab ID: 60171645001	Collected: 06/17/14 08:38	Received: 06/18/14 02:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	7780 ug/L		750	2	06/24/14 05:59	06/24/14 17:41	7429-90-5	
Antimony	93.6 ug/L		50.0	1	06/24/14 05:59	06/24/14 17:38	7440-36-0	
Arsenic	1580 ug/L		50.0	1	06/24/14 05:59	06/24/14 17:38	7440-38-2	
Beryllium	ND ug/L		5.0	1	06/24/14 05:59	06/24/14 17:38	7440-41-7	
Cadmium	ND ug/L		25.0	1	06/24/14 05:59	06/24/14 17:38	7440-43-9	
Chromium	251 ug/L		25.0	1	06/24/14 05:59	06/24/14 17:38	7440-47-3	
Cobalt	40.5 ug/L		25.0	1	06/24/14 05:59	06/24/14 17:38	7440-48-4	
Copper	ND ug/L		50.0	1	06/24/14 05:59	06/24/14 17:38	7440-50-8	
Iron	744000 ug/L		250	1	06/24/14 05:59	06/24/14 17:38	7439-89-6	M1
Lead	91.2 ug/L		25.0	1	06/24/14 05:59	06/24/14 17:38	7439-92-1	
Nickel	126 ug/L		25.0	1	06/24/14 05:59	06/24/14 17:38	7440-02-0	
Selenium	ND ug/L		75.0	1	06/24/14 05:59	06/24/14 17:38	7782-49-2	
Silver	ND ug/L		35.0	1	06/24/14 05:59	06/24/14 17:38	7440-22-4	
Thallium	ND ug/L		100	1	06/24/14 05:59	06/24/14 17:38	7440-28-0	
Zinc	4040 ug/L		500	2	06/24/14 05:59	06/24/14 17:41	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	1940 ug/L		750	2	06/19/14 18:40	06/20/14 14:46	7429-90-5	
Antimony, Dissolved	58.2 ug/L		50.0	1	06/19/14 18:40	06/20/14 14:44	7440-36-0	
Arsenic, Dissolved	1050 ug/L		50.0	1	06/19/14 18:40	06/20/14 14:44	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	06/19/14 18:40	06/20/14 14:44	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	06/19/14 18:40	06/20/14 14:44	7440-43-9	
Chromium, Dissolved	167 ug/L		25.0	1	06/19/14 18:40	06/20/14 14:44	7440-47-3	
Cobalt, Dissolved	ND ug/L		25.0	1	06/19/14 18:40	06/20/14 14:44	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	06/19/14 18:40	06/20/14 14:44	7440-50-8	
Iron, Dissolved	334000 ug/L		250	1	06/19/14 18:40	06/20/14 14:44	7439-89-6	
Lead, Dissolved	35.5 ug/L		25.0	1	06/19/14 18:40	06/20/14 14:44	7439-92-1	
Nickel, Dissolved	84.4 ug/L		25.0	1	06/19/14 18:40	06/20/14 14:44	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	06/19/14 18:40	06/20/14 14:44	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	06/19/14 18:40	06/20/14 14:44	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	06/19/14 18:40	06/20/14 14:44	7440-28-0	
Zinc, Dissolved	2990 ug/L		500	2	06/19/14 18:40	06/20/14 14:46	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	ND ug/L		6.0	1	06/22/14 12:00	06/22/14 19:19	7439-97-6	
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND ug/L		6.0	1	06/22/14 12:00	06/22/14 16:49	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	06/19/14 00:00	06/20/14 16:12	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	06/19/14 00:00	06/20/14 16:12	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	06/19/14 00:00	06/20/14 16:12	77-47-4	
Hexachloroethane	ND ug/L		1000	2	06/19/14 00:00	06/20/14 16:12	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	2	06/19/14 00:00	06/20/14 16:12	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	6250 ug/L		4000	2	06/19/14 00:00	06/20/14 16:12		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-333

Pace Project No.: 60171645

Sample: 316-333		Lab ID: 60171645001	Collected: 06/17/14 08:38	Received: 06/18/14 02:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	1920 ug/L		1000	2	06/19/14 00:00	06/20/14 16:12	91-20-3	
Nitrobenzene	ND ug/L		1000	2	06/19/14 00:00	06/20/14 16:12	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	06/19/14 00:00	06/20/14 16:12	87-86-5	
Phenol	8490 ug/L		1000	2	06/19/14 00:00	06/20/14 16:12	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	06/19/14 00:00	06/20/14 16:12	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	06/19/14 00:00	06/20/14 16:12	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	169 %		33-120	2	06/19/14 00:00	06/20/14 16:12	4165-60-0	S0
2-Fluorobiphenyl (S)	90 %		39-120	2	06/19/14 00:00	06/20/14 16:12	321-60-8	
Terphenyl-d14 (S)	81 %		45-120	2	06/19/14 00:00	06/20/14 16:12	1718-51-0	
Phenol-d6 (S)	30 %		11-120	2	06/19/14 00:00	06/20/14 16:12	13127-88-3	
2-Fluorophenol (S)	48 %		17-120	2	06/19/14 00:00	06/20/14 16:12	367-12-4	
2,4,6-Tribromophenol (S)	99 %		39-120	2	06/19/14 00:00	06/20/14 16:12	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	100000 ug/L		2500	250		06/20/14 01:46	67-64-1	N2
Benzene	ND ug/L		250	250		06/20/14 01:46	71-43-2	
Bromodichloromethane	ND ug/L		250	250		06/20/14 01:46	75-27-4	
Bromoform	ND ug/L		250	250		06/20/14 01:46	75-25-2	
Bromomethane	ND ug/L		1250	250		06/20/14 01:46	74-83-9	
2-Butanone (MEK)	43500 ug/L		2500	250		06/20/14 01:46	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		06/20/14 01:46	56-23-5	
Chloroethane	ND ug/L		250	250		06/20/14 01:46	75-00-3	
Chloroform	ND ug/L		250	250		06/20/14 01:46	67-66-3	
1,4-Dichlorobenzene	464 ug/L		250	250		06/20/14 01:46	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		06/20/14 01:46	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		06/20/14 01:46	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		06/20/14 01:46	156-60-5	
Ethylbenzene	ND ug/L		250	250		06/20/14 01:46	100-41-4	
Methylene chloride	ND ug/L		250	250		06/20/14 01:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		06/20/14 01:46	108-10-1	N2
1,1,2-Tetrachloroethane	ND ug/L		250	250		06/20/14 01:46	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		06/20/14 01:46	127-18-4	
Toluene	ND ug/L		250	250		06/20/14 01:46	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		06/20/14 01:46	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		06/20/14 01:46	79-00-5	
Trichloroethene	ND ug/L		250	250		06/20/14 01:46	79-01-6	
Vinyl chloride	ND ug/L		250	250		06/20/14 01:46	75-01-4	
Xylene (Total)	ND ug/L		750	250		06/20/14 01:46	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	98 %		80-120	250		06/20/14 01:46	460-00-4	
Toluene-d8 (S)	96 %		80-120	250		06/20/14 01:46	2037-26-5	
1,2-Dichloroethane-d4 (S)	94 %		80-120	250		06/20/14 01:46	17060-07-0	
Preservation pH	6.0		1.0	250		06/20/14 01:46		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	1450 mg/L		5.0	1		06/20/14 17:49		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-333

Pace Project No.: 60171645

Sample: 316-333		Lab ID: 60171645001	Collected: 06/17/14 08:38	Received: 06/18/14 02:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	15.4	mg/L	5.0	1		06/20/14 17:53		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	4020	mg/L	5.0	1		06/19/14 10:04		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.4	Std. Units	0.10	1		06/23/14 11:00		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	25900	mg/L	2.0	1	06/18/14 13:47	06/23/14 11:19		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	547	mg/L	20.0	200		06/23/14 09:54	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	45100	mg/L	5000	500		06/19/14 09:56		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-333

Pace Project No.: 60171645

Sample: TRIP BLANK		Lab ID: 60171645002	Collected: 06/17/14 08:38	Received: 06/18/14 02:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		06/20/14 01:00	67-64-1	N2
Benzene	ND ug/L		1.0	1		06/20/14 01:00	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		06/20/14 01:00	75-27-4	
Bromoform	ND ug/L		1.0	1		06/20/14 01:00	75-25-2	
Bromomethane	ND ug/L		5.0	1		06/20/14 01:00	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/20/14 01:00	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		06/20/14 01:00	56-23-5	
Chloroethane	ND ug/L		1.0	1		06/20/14 01:00	75-00-3	
Chloroform	ND ug/L		1.0	1		06/20/14 01:00	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		06/20/14 01:00	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		06/20/14 01:00	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		06/20/14 01:00	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		06/20/14 01:00	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		06/20/14 01:00	100-41-4	
Methylene chloride	ND ug/L		1.0	1		06/20/14 01:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/20/14 01:00	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		06/20/14 01:00	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		06/20/14 01:00	127-18-4	
Toluene	ND ug/L		1.0	1		06/20/14 01:00	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		06/20/14 01:00	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		06/20/14 01:00	79-00-5	
Trichloroethene	ND ug/L		1.0	1		06/20/14 01:00	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		06/20/14 01:00	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		06/20/14 01:00	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	95 %		80-120	1		06/20/14 01:00	460-00-4	
Toluene-d8 (S)	96 %		80-120	1		06/20/14 01:00	2037-26-5	
1,2-Dichloroethane-d4 (S)	93 %		80-120	1		06/20/14 01:00	17060-07-0	
Preservation pH	6.0		1.0	1		06/20/14 01:00		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-333

Pace Project No.: 60171645

QC Batch:	MERP/8514	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
Associated Lab Samples:	60171645001		

METHOD BLANK: 1398965 Matrix: Water
Associated Lab Samples: 60171645001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	06/22/14 18:56	

LABORATORY CONTROL SAMPLE: 1398966

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1398967 1398968

Parameter	Units	60171556001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits		
Mercury	ug/L	ND	150	150	148	149	98	98	70-130	0	20

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-333

Pace Project No.: 60171645

QC Batch: MERP/8511	Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1	Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60171645001	

METHOD BLANK: 1398951 Matrix: Water
Associated Lab Samples: 60171645001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	06/22/14 16:34	

LABORATORY CONTROL SAMPLE: 1398952

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.3	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1398953 1398954

Parameter	Units	60171556001		MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Mercury, Dissolved	ug/L	ND	150	150	135	144	90	96	70-130	7	20			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-333

Pace Project No.: 60171645

QC Batch: MPRP/27763

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Total

Associated Lab Samples: 60171645001

METHOD BLANK: 1399409

Matrix: Water

Associated Lab Samples: 60171645001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	06/24/14 17:36	
Antimony	ug/L	ND	10.0	06/24/14 17:36	
Arsenic	ug/L	ND	10.0	06/24/14 17:36	
Beryllium	ug/L	ND	1.0	06/24/14 17:36	
Cadmium	ug/L	ND	5.0	06/24/14 17:36	
Chromium	ug/L	ND	5.0	06/24/14 17:36	
Cobalt	ug/L	ND	5.0	06/24/14 17:36	
Copper	ug/L	ND	10.0	06/24/14 17:36	
Iron	ug/L	ND	50.0	06/24/14 17:36	
Lead	ug/L	ND	5.0	06/24/14 17:36	
Nickel	ug/L	ND	5.0	06/24/14 17:36	
Selenium	ug/L	ND	15.0	06/24/14 17:36	
Silver	ug/L	ND	7.0	06/24/14 17:36	
Thallium	ug/L	ND	20.0	06/24/14 17:36	
Zinc	ug/L	ND	50.0	06/24/14 17:36	

LABORATORY CONTROL SAMPLE: 1399410

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10000	100	85-115	
Antimony	ug/L	1000	1050	105	85-115	
Arsenic	ug/L	1000	971	97	85-115	
Beryllium	ug/L	1000	994	99	85-115	
Cadmium	ug/L	1000	991	99	85-115	
Chromium	ug/L	1000	946	95	85-115	
Cobalt	ug/L	1000	1000	100	85-115	
Copper	ug/L	1000	1030	103	85-115	
Iron	ug/L	10000	9390	94	85-115	
Lead	ug/L	1000	1020	102	85-115	
Nickel	ug/L	1000	1030	103	85-115	
Selenium	ug/L	1000	1030	103	85-115	
Silver	ug/L	500	488	98	85-115	
Thallium	ug/L	1000	1020	102	85-115	
Zinc	ug/L	1000	930	93	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-333

Pace Project No.: 60171645

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1399411												1399412	
Parameter	Units	60171645001		MS	MSD	MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Aluminum	ug/L	7780	50000	50000	64200	64100	113	113	70-130	0	8		
Antimony	ug/L	93.6	5000	5000	5540	5630	109	111	70-130	2	7		
Arsenic	ug/L	1580	5000	5000	6960	7260	108	114	70-130	4	10		
Beryllium	ug/L	ND	5000	5000	4800	4820	96	96	70-130	1	7		
Cadmium	ug/L	ND	5000	5000	5220	5290	104	106	70-130	1	10		
Chromium	ug/L	251	5000	5000	4770	4780	90	91	70-130	0	10		
Cobalt	ug/L	40.5	5000	5000	4730	4770	94	95	70-130	1	6		
Copper	ug/L	ND	5000	5000	5550	5660	111	113	70-130	2	11		
Iron	ug/L	744000	50000	50000	713000	769000	-62	50	70-130	8	10	M1	
Lead	ug/L	91.2	5000	5000	4590	4620	90	91	70-130	1	10		
Nickel	ug/L	126	5000	5000	4830	4890	94	95	70-130	1	10		
Selenium	ug/L	ND	5000	5000	6220	6400	124	128	70-130	3	10		
Silver	ug/L	ND	2500	2500	2610	2660	104	106	70-130	2	10		
Thallium	ug/L	ND	5000	5000	4100	4150	82	83	70-130	1	6		
Zinc	ug/L	4040	5000	5000	8200	8350	83	86	70-130	2	11		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-333

Pace Project No.: 60171645

QC Batch: MPRP/27716

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Dissolved

Associated Lab Samples: 60171645001

METHOD BLANK: 1397359

Matrix: Water

Associated Lab Samples: 60171645001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	06/20/14 14:15	
Antimony, Dissolved	ug/L	ND	10.0	06/20/14 14:15	
Arsenic, Dissolved	ug/L	ND	10.0	06/20/14 14:15	
Beryllium, Dissolved	ug/L	ND	1.0	06/20/14 14:15	
Cadmium, Dissolved	ug/L	ND	5.0	06/20/14 14:15	
Chromium, Dissolved	ug/L	ND	5.0	06/20/14 14:15	
Cobalt, Dissolved	ug/L	ND	5.0	06/20/14 14:15	
Copper, Dissolved	ug/L	ND	10.0	06/20/14 14:15	
Iron, Dissolved	ug/L	ND	50.0	06/20/14 14:15	
Lead, Dissolved	ug/L	ND	5.0	06/20/14 14:15	
Nickel, Dissolved	ug/L	ND	5.0	06/20/14 14:15	
Selenium, Dissolved	ug/L	ND	15.0	06/20/14 14:15	
Silver, Dissolved	ug/L	ND	7.0	06/20/14 14:15	
Thallium, Dissolved	ug/L	ND	20.0	06/20/14 14:15	
Zinc, Dissolved	ug/L	ND	50.0	06/20/14 14:15	

LABORATORY CONTROL SAMPLE: 1397360

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10200	102	85-115	
Antimony, Dissolved	ug/L	1000	1020	102	85-115	
Arsenic, Dissolved	ug/L	1000	921	92	85-115	
Beryllium, Dissolved	ug/L	1000	1020	102	85-115	
Cadmium, Dissolved	ug/L	1000	1000	100	85-115	
Chromium, Dissolved	ug/L	1000	990	99	85-115	
Cobalt, Dissolved	ug/L	1000	996	100	85-115	
Copper, Dissolved	ug/L	1000	1040	104	85-115	
Iron, Dissolved	ug/L	10000	9860	99	85-115	
Lead, Dissolved	ug/L	1000	1010	101	85-115	
Nickel, Dissolved	ug/L	1000	1030	103	85-115	
Selenium, Dissolved	ug/L	1000	975	97	85-115	
Silver, Dissolved	ug/L	500	501	100	85-115	
Thallium, Dissolved	ug/L	1000	995	100	85-115	
Zinc, Dissolved	ug/L	1000	925	92	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-333

Pace Project No.: 60171645

Parameter	Units	60171556001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max	RPD	Qual
		Result	Conc.	Spike	Conc.	Result	Result	% Rec	% Rec								
Aluminum, Dissolved	ug/L	2100	50000	50000	54400	54400	105	105	70-130	0	8						
Antimony, Dissolved	ug/L	66.5	5000	5000	5380	5420	106	107	70-130	1	7						
Arsenic, Dissolved	ug/L	1090	5000	5000	6130	6070	101	100	70-130	1	10						
Beryllium, Dissolved	ug/L	ND	5000	5000	4960	5040	99	101	70-130	2	7						
Cadmium, Dissolved	ug/L	ND	5000	5000	5240	5270	105	105	70-130	1	10						
Chromium, Dissolved	ug/L	171	5000	5000	5020	5090	97	98	70-130	1	10						
Cobalt, Dissolved	ug/L	ND	5000	5000	4880	4920	97	98	70-130	1	6						
Copper, Dissolved	ug/L	ND	5000	5000	5460	5500	109	109	70-130	1	11						
Iron, Dissolved	ug/L	352000	50000	50000	410000	400000	116	97	70-130	2	10						
Lead, Dissolved	ug/L	41.9	5000	5000	4790	4870	95	96	70-130	1	10						
Nickel, Dissolved	ug/L	93.5	5000	5000	5060	5090	99	100	70-130	1	10						
Selenium, Dissolved	ug/L	ND	5000	5000	5480	5560	109	111	70-130	1	10						
Silver, Dissolved	ug/L	ND	2500	2500	2590	2620	103	104	70-130	1	10						
Thallium, Dissolved	ug/L	ND	5000	5000	4490	4500	90	90	70-130	0	6						
Zinc, Dissolved	ug/L	3220	5000	5000	7660	7620	89	88	70-130	0	11						

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-333

Pace Project No.: 60171645

QC Batch: MSV/62417 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60171645001, 60171645002

METHOD BLANK: 1397048 Matrix: Water

Associated Lab Samples: 60171645001, 60171645002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/19/14 22:55	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/19/14 22:55	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	06/19/14 22:55	
1,2-Dichloroethane	ug/L	ND	1.0	06/19/14 22:55	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/19/14 22:55	
2-Butanone (MEK)	ug/L	ND	10.0	06/19/14 22:55	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/19/14 22:55	N2
Acetone	ug/L	ND	10.0	06/19/14 22:55	N2
Benzene	ug/L	ND	1.0	06/19/14 22:55	
Bromodichloromethane	ug/L	ND	1.0	06/19/14 22:55	
Bromoform	ug/L	ND	1.0	06/19/14 22:55	
Bromomethane	ug/L	ND	5.0	06/19/14 22:55	
Carbon tetrachloride	ug/L	ND	1.0	06/19/14 22:55	
Chloroethane	ug/L	ND	1.0	06/19/14 22:55	
Chloroform	ug/L	ND	1.0	06/19/14 22:55	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/19/14 22:55	N2
Ethylbenzene	ug/L	ND	1.0	06/19/14 22:55	
Methylene chloride	ug/L	ND	1.0	06/19/14 22:55	
Tetrachloroethene	ug/L	ND	1.0	06/19/14 22:55	
Toluene	ug/L	ND	1.0	06/19/14 22:55	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/19/14 22:55	
Trichloroethene	ug/L	ND	1.0	06/19/14 22:55	
Vinyl chloride	ug/L	ND	1.0	06/19/14 22:55	
Xylene (Total)	ug/L	ND	3.0	06/19/14 22:55	N2
1,2-Dichloroethane-d4 (S)	%	98	80-120	06/19/14 22:55	
4-Bromofluorobenzene (S)	%	98	80-120	06/19/14 22:55	
Toluene-d8 (S)	%	98	80-120	06/19/14 22:55	

LABORATORY CONTROL SAMPLE: 1397049

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	16.9	85	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	20.3	101	67-127	N2
1,1,2-Trichloroethane	ug/L	20	19.6	98	67-124	
1,2-Dichloroethane	ug/L	20	17.7	88	70-126	
1,4-Dichlorobenzene	ug/L	20	18.2	91	74-120	
2-Butanone (MEK)	ug/L	100	96.9	97	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	102	102	59-131	N2
Acetone	ug/L	100	91.6	92	38-134	N2
Benzene	ug/L	20	17.7	89	75-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-333

Pace Project No.: 60171645

LABORATORY CONTROL SAMPLE: 1397049

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	20	18.9	94	68-125	
Bromoform	ug/L	20	19.2	96	65-127	
Bromomethane	ug/L	20	7.4	37	13-157	
Carbon tetrachloride	ug/L	20	16.8	84	70-131	
Chloroethane	ug/L	20	15.8	79	47-133	
Chloroform	ug/L	20	17.3	87	65-127	
cis-1,2-Dichloroethene	ug/L	20	18.2	91	68-127	N2
Ethylbenzene	ug/L	20	18.7	93	74-122	
Methylene chloride	ug/L	20	16.9	85	64-129	
Tetrachloroethene	ug/L	20	18.5	92	73-125	
Toluene	ug/L	20	17.5	88	69-126	
trans-1,2-Dichloroethene	ug/L	20	16.2	81	66-129	
Trichloroethene	ug/L	20	16.8	84	71-123	
Vinyl chloride	ug/L	20	12.0	60	43-129	
Xylene (Total)	ug/L	60	56.1	93	75-121	N2
1,2-Dichloroethane-d4 (S)	%			96	80-120	
4-Bromofluorobenzene (S)	%			98	80-120	
Toluene-d8 (S)	%			95	80-120	

MATRIX SPIKE SAMPLE: 1397050

Parameter	Units	60171645001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	3720	74	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	4590	92	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	4110	82	52-143	
1,2-Dichloroethane	ug/L	ND	5000	3640	73	49-144	
1,4-Dichlorobenzene	ug/L	464	5000	4430	79	33-140	
2-Butanone (MEK)	ug/L	43500	25000	67500	96	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	22700	88	40-160	N2
Acetone	ug/L	100000	25000	126000	102	10-160	N2
Benzene	ug/L	ND	5000	3770	75	37-151	
Bromodichloromethane	ug/L	ND	5000	3900	78	35-142	
Bromoform	ug/L	ND	5000	4410	88	45-142	
Bromomethane	ug/L	ND	5000	1600	32	10-158	
Carbon tetrachloride	ug/L	ND	5000	3820	76	70-140	
Chloroethane	ug/L	ND	5000	3250	65	19-152	
Chloroform	ug/L	ND	5000	3640	73	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	3870	77	34-147	N2
Ethylbenzene	ug/L	ND	5000	4070	81	40-142	
Methylene chloride	ug/L	ND	5000	3590	71	31-144	
Tetrachloroethene	ug/L	ND	5000	4250	85	64-148	
Toluene	ug/L	ND	5000	3710	74	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	3570	71	54-151	
Trichloroethene	ug/L	ND	5000	3690	74	71-149	
Vinyl chloride	ug/L	ND	5000	2390	48	22-146	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-333

Pace Project No.: 60171645

MATRIX SPIKE SAMPLE:		1397050					
Parameter	Units	60171645001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	ND	15000	11900	79	37-144	N2
1,2-Dichloroethane-d4 (S)	%				94	80-120	
4-Bromofluorobenzene (S)	%				100	80-120	
Toluene-d8 (S)	%				94	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-333
Pace Project No.: 60171645

QC Batch: OEXT/44731 Analysis Method: EPA 625
QC Batch Method: EPA 625 Analysis Description: 625 MSS
Associated Lab Samples: 60171645001

METHOD BLANK: 1396677 Matrix: Water
Associated Lab Samples: 60171645001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/20/14 09:31	
2,4,6-Trichlorophenol	ug/L	ND	5.0	06/20/14 09:31	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	06/20/14 09:31	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	06/20/14 09:31	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	06/20/14 09:31	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/20/14 09:31	
Hexachlorocyclopentadiene	ug/L	ND	5.0	06/20/14 09:31	
Hexachloroethane	ug/L	ND	5.0	06/20/14 09:31	
Naphthalene	ug/L	ND	5.0	06/20/14 09:31	
Nitrobenzene	ug/L	ND	5.0	06/20/14 09:31	
Pentachlorophenol	ug/L	ND	5.0	06/20/14 09:31	
Phenol	ug/L	ND	5.0	06/20/14 09:31	
2,4,6-Tribromophenol (S)	%	77	39-120	06/20/14 09:31	
2-Fluorobiphenyl (S)	%	75	39-120	06/20/14 09:31	
2-Fluorophenol (S)	%	38	17-120	06/20/14 09:31	
Nitrobenzene-d5 (S)	%	74	33-120	06/20/14 09:31	
Phenol-d6 (S)	%	23	11-120	06/20/14 09:31	
Terphenyl-d14 (S)	%	68	45-120	06/20/14 09:31	

LABORATORY CONTROL SAMPLE: 1396678

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	39.8	80	46-120	
2,4,6-Trichlorophenol	ug/L	50	42.0	84	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	30.7	61	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	25.8	52	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	47.6	95	40-133	
Hexachloro-1,3-butadiene	ug/L	50	39.7	79	44-116	
Hexachlorocyclopentadiene	ug/L	100	38.7	39	24-120	
Hexachloroethane	ug/L	50	34.8	70	43-113	
Naphthalene	ug/L	50	40.9	82	48-120	
Nitrobenzene	ug/L	50	42.1	84	48-120	
Pentachlorophenol	ug/L	50	39.5	79	47-120	
Phenol	ug/L	50	13.3	27	16-112	
2,4,6-Tribromophenol (S)	%			87	39-120	
2-Fluorobiphenyl (S)	%			85	39-120	
2-Fluorophenol (S)	%			40	17-120	
Nitrobenzene-d5 (S)	%			83	33-120	
Phenol-d6 (S)	%			24	11-120	
Terphenyl-d14 (S)	%			83	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-333

Pace Project No.: 60171645

MATRIX SPIKE SAMPLE:	1396679	60171556001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	36.1	72	44-120	
2,4,6-Trichlorophenol	ug/L	ND	50	43.1	86	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	50	32.6	65	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	6640	50	99.9	-13085	27-120	M1,N2
4,6-Dinitro-2-methylphenol	ug/L	ND	50	41.1J	82	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	50	36.3	73	39-116	
Hexachlorocyclopentadiene	ug/L	ND	100	39.0	39	11-120	
Hexachloroethane	ug/L	ND	50	34.6	69	40-113	
Naphthalene	ug/L	2700	50	56.2	-5294	45-120	M1
Nitrobenzene	ug/L	ND	50	43.4	87	38-120	
Pentachlorophenol	ug/L	ND	50	44.8	90	43-135	
Phenol	ug/L	10000	50	105	-19787	13-112	M1
2,4,6-Tribromophenol (S)	%				88	39-120	
2-Fluorobiphenyl (S)	%				78	39-120	
2-Fluorophenol (S)	%				38	17-120	
Nitrobenzene-d5 (S)	%				150	33-120	S0
Phenol-d6 (S)	%				26	11-120	
Terphenyl-d14 (S)	%				75	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-333

Pace Project No.: 60171645

QC Batch:	WET/48592	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60171645001		

METHOD BLANK: 1398247 Matrix: Water
Associated Lab Samples: 60171645001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	06/20/14 17:45	

LABORATORY CONTROL SAMPLE: 1398248

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	33.1	83	78-114	

MATRIX SPIKE SAMPLE: 1398249

Parameter	Units	60171755001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	73.3	51.9	89.5	31	78-114	M1

SAMPLE DUPLICATE: 1398250

Parameter	Units	60171367001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	204	210	3	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-333

Pace Project No.: 60171645

QC Batch: WET/48593

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60171645001

METHOD BLANK: 1398251

Matrix: Water

Associated Lab Samples: 60171645001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	06/20/14 17:52	

LABORATORY CONTROL SAMPLE: 1398252

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	23.1	116	64-132	

MATRIX SPIKE SAMPLE: 1398253

Parameter	Units	60171755001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	19.7	26	26.8	27	64-132	M1

SAMPLE DUPLICATE: 1398254

Parameter	Units	60171367001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	4.2J		34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-333

Pace Project No.: 60171645

QC Batch: WET/48557

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60171645001

METHOD BLANK: 1396835

Matrix: Water

Associated Lab Samples: 60171645001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	06/19/14 10:00	

SAMPLE DUPLICATE: 1396836

Parameter	Units	60171609001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	4000	3840	4	10	

SAMPLE DUPLICATE: 1396837

Parameter	Units	60171645001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	4020	3980	1	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-333

Pace Project No.: 60171645

QC Batch: WET/48614 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60171645001

SAMPLE DUPLICATE: 1399171

Parameter	Units	60171566001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.9	7.9	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-333

Pace Project No.: 60171645

QC Batch: WET/48533

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60171645001

METHOD BLANK: 1396209

Matrix: Water

Associated Lab Samples: 60171645001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	06/23/14 10:56	

LABORATORY CONTROL SAMPLE: 1396210

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	224	113	85-115	

SAMPLE DUPLICATE: 1396211

Parameter	Units	60171666001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	27.1	25.5	6	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-333

Pace Project No.: 60171645

QC Batch:	WETA/29937	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60171645001		

METHOD BLANK: 1399070 Matrix: Water
Associated Lab Samples: 60171645001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	06/23/14 09:43	

LABORATORY CONTROL SAMPLE: 1399071

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	103	90-110	

MATRIX SPIKE SAMPLE: 1399072

Parameter	Units	60171009003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2.7	2	4.4	86	90-110	M1

SAMPLE DUPLICATE: 1399073

Parameter	Units	60171556001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	545	551	1	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-333

Pace Project No.: 60171645

QC Batch:	WETA/29869	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60171645001		

METHOD BLANK: 1396155 Matrix: Water
Associated Lab Samples: 60171645001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	06/19/14 09:49	

LABORATORY CONTROL SAMPLE: 1396156

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	46.2	92	90-110	

MATRIX SPIKE SAMPLE: 1396157

Parameter	Units	60171556001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	48200	25000	69200	84	90-110	M1

SAMPLE DUPLICATE: 1396158

Parameter	Units	60171209001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	40700	49100	19	25	

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QUALIFIERS

Project: BRIDGETON LF 316-333

Pace Project No.: 60171645

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.

PQL - Practical Quantitation 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.

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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.

N2 The lab does not hold TNI accreditation for this parameter.

S0 Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-333

Pace Project No.: 60171645

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60171645001	316-333	EPA 200.7	MPRP/27763	EPA 200.7	ICP/20995
60171645001	316-333	EPA 200.7	MPRP/27716	EPA 200.7	ICP/20950
60171645001	316-333	EPA 245.1	MERP/8514	EPA 245.1	MERC/8469
60171645001	316-333	EPA 245.1	MERP/8511	EPA 245.1	MERC/8466
60171645001	316-333	EPA 625	OEXT/44731	EPA 625	MSSV/14323
60171645001	316-333	EPA 624 Low	MSV/62417		
60171645002	TRIP BLANK	EPA 624 Low	MSV/62417		
60171645001	316-333	EPA 1664A	WET/48592		
60171645001	316-333	EPA 1664A	WET/48593		
60171645001	316-333	SM 2540D	WET/48557		
60171645001	316-333	SM 4500-H+B	WET/48614		
60171645001	316-333	SM 5210B	WET/48533	SM 5210B	WET/48621
60171645001	316-333	EPA 350.1	WETA/29937		
60171645001	316-333	EPA 410.4	WETA/29869		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60171645



60171645

Client Name: Barr

Courier: Fed Ex UPS USPS Client Commercial Pace Other Xroad

Tracking #: _____ Pace Shipping Label Used? Yes No

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other 2 PIC

Thermometer Used: T-239 / T-194 Type of Ice: Wet Blue None Samples received on ice, cooling process has begun.

Cooler Temperature: 10.0

Date and initials of person examining contents: 2/6/18 JM

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3. <u>All ice melted in cooler.</u>
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>BOD PH</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix:	<u>WT</u>	13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. <u>Added 2.5 mL of HNO3 to BP3M. PH 6.0/4.0 Added 2.0 mL of H2SO4 to BP3S. PH 6.0/1.5</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>pu</u> Lot # of added preservative <u>12513 12522</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank lot # (if purchased): <u>cover</u>	<u>pu 6/18/14</u>	15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <u>MD</u>

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 6/18/14

June 25, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-334
Pace Project No.: 60171807

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 19, 2014. 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,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Bill Abernathy, Feezor Engineering
Kelly Caddy, Barr Engineering
DAN FEEZOR, FEEZOR ENGINEERING
Dana B. Pasi, Barr Engineering Co.
Brian Power, Republic Services
Brian Sehie, Republic Services
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-334

Pace Project No.: 60171807

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-13-4

Utah Certification #: KS000212013-3

Illinois Certification #: 003097

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-334

Pace Project No.: 60171807

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60171807001	316-334	Water	06/18/14 11:36	06/19/14 01:20
60171807002	TRIP BLANK	Water	06/18/14 11:36	06/19/14 01:20

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-334

Pace Project No.: 60171807

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60171807001	316-334	EPA 200.7	NDJ	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	CRT	1
		EPA 1664A	CRT	1
		SM 2540D	ESM	1
		SM 4500-H+B	NDL	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC1	1
60171807002	TRIP BLANK	EPA 624 Low	EAK	28

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-334

Pace Project No.: 60171807

Sample: 316-334		Lab ID: 60171807001	Collected: 06/18/14 11:36	Received: 06/19/14 01:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	3570 ug/L		750	2	06/24/14 05:59	06/24/14 18:00	7429-90-5	
Antimony	88.8 ug/L		50.0	1	06/24/14 05:59	06/24/14 17:57	7440-36-0	
Arsenic	1170 ug/L		50.0	1	06/24/14 05:59	06/24/14 17:57	7440-38-2	
Beryllium	ND ug/L		5.0	1	06/24/14 05:59	06/24/14 17:57	7440-41-7	
Cadmium	ND ug/L		25.0	1	06/24/14 05:59	06/24/14 17:57	7440-43-9	
Chromium	174 ug/L		25.0	1	06/24/14 05:59	06/24/14 17:57	7440-47-3	
Cobalt	26.1 ug/L		25.0	1	06/24/14 05:59	06/24/14 17:57	7440-48-4	
Copper	ND ug/L		50.0	1	06/24/14 05:59	06/24/14 17:57	7440-50-8	
Iron	372000 ug/L		250	1	06/24/14 05:59	06/24/14 17:57	7439-89-6	
Lead	36.7 ug/L		25.0	1	06/24/14 05:59	06/24/14 17:57	7439-92-1	
Nickel	103 ug/L		25.0	1	06/24/14 05:59	06/24/14 17:57	7440-02-0	
Selenium	ND ug/L		75.0	1	06/24/14 05:59	06/24/14 17:57	7782-49-2	
Silver	ND ug/L		35.0	1	06/24/14 05:59	06/24/14 17:57	7440-22-4	
Thallium	ND ug/L		100	1	06/24/14 05:59	06/24/14 17:57	7440-28-0	
Zinc	3420 ug/L		500	2	06/24/14 05:59	06/24/14 18:00	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	1720 ug/L		750	2	06/24/14 06:04	06/24/14 18:23	7429-90-5	
Antimony, Dissolved	60.6 ug/L		50.0	1	06/24/14 06:04	06/24/14 18:21	7440-36-0	
Arsenic, Dissolved	1090 ug/L		50.0	1	06/24/14 06:04	06/24/14 18:21	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	06/24/14 06:04	06/24/14 18:21	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	06/24/14 06:04	06/24/14 18:21	7440-43-9	
Chromium, Dissolved	154 ug/L		25.0	1	06/24/14 06:04	06/24/14 18:21	7440-47-3	
Cobalt, Dissolved	ND ug/L		25.0	1	06/24/14 06:04	06/24/14 18:21	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	06/24/14 06:04	06/24/14 18:21	7440-50-8	
Iron, Dissolved	293000 ug/L		250	1	06/24/14 06:04	06/24/14 18:21	7439-89-6	M1
Lead, Dissolved	ND ug/L		25.0	1	06/24/14 06:04	06/24/14 18:21	7439-92-1	
Nickel, Dissolved	91.4 ug/L		25.0	1	06/24/14 06:04	06/24/14 18:21	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	06/24/14 06:04	06/24/14 18:21	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	06/24/14 06:04	06/24/14 18:21	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	06/24/14 06:04	06/24/14 18:21	7440-28-0	
Zinc, Dissolved	3110 ug/L		500	2	06/24/14 06:04	06/24/14 18:23	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	ND ug/L		6.0	1	06/22/14 12:00	06/22/14 19:21	7439-97-6	
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND ug/L		6.0	1	06/25/14 10:30	06/25/14 14:01	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	06/19/14 00:00	06/23/14 18:34	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	06/19/14 00:00	06/23/14 18:34	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	06/19/14 00:00	06/23/14 18:34	77-47-4	
Hexachloroethane	ND ug/L		1000	2	06/19/14 00:00	06/23/14 18:34	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	2	06/19/14 00:00	06/23/14 18:34	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	7240 ug/L		4000	2	06/19/14 00:00	06/23/14 18:34		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-334

Pace Project No.: 60171807

Sample: 316-334		Lab ID: 60171807001	Collected: 06/18/14 11:36	Received: 06/19/14 01:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	1600 ug/L		1000	2	06/19/14 00:00	06/23/14 18:34	91-20-3	
Nitrobenzene	ND ug/L		1000	2	06/19/14 00:00	06/23/14 18:34	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	06/19/14 00:00	06/23/14 18:34	87-86-5	
Phenol	11000 ug/L		1000	2	06/19/14 00:00	06/23/14 18:34	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	06/19/14 00:00	06/23/14 18:34	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	06/19/14 00:00	06/23/14 18:34	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	153 %		33-120	2	06/19/14 00:00	06/23/14 18:34	4165-60-0	S0
2-Fluorobiphenyl (S)	83 %		39-120	2	06/19/14 00:00	06/23/14 18:34	321-60-8	
Terphenyl-d14 (S)	84 %		45-120	2	06/19/14 00:00	06/23/14 18:34	1718-51-0	
Phenol-d6 (S)	37 %		11-120	2	06/19/14 00:00	06/23/14 18:34	13127-88-3	
2-Fluorophenol (S)	49 %		17-120	2	06/19/14 00:00	06/23/14 18:34	367-12-4	
2,4,6-Tribromophenol (S)	103 %		39-120	2	06/19/14 00:00	06/23/14 18:34	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	98100 ug/L		2500	250		06/20/14 02:17	67-64-1	N2
Benzene	ND ug/L		250	250		06/20/14 02:17	71-43-2	
Bromodichloromethane	ND ug/L		250	250		06/20/14 02:17	75-27-4	
Bromoform	ND ug/L		250	250		06/20/14 02:17	75-25-2	
Bromomethane	ND ug/L		1250	250		06/20/14 02:17	74-83-9	
2-Butanone (MEK)	39500 ug/L		2500	250		06/20/14 02:17	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		06/20/14 02:17	56-23-5	
Chloroethane	ND ug/L		250	250		06/20/14 02:17	75-00-3	
Chloroform	ND ug/L		250	250		06/20/14 02:17	67-66-3	
1,4-Dichlorobenzene	589 ug/L		250	250		06/20/14 02:17	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		06/20/14 02:17	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		06/20/14 02:17	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		06/20/14 02:17	156-60-5	
Ethylbenzene	ND ug/L		250	250		06/20/14 02:17	100-41-4	
Methylene chloride	ND ug/L		250	250		06/20/14 02:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		06/20/14 02:17	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		06/20/14 02:17	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		06/20/14 02:17	127-18-4	
Toluene	ND ug/L		250	250		06/20/14 02:17	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		06/20/14 02:17	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		06/20/14 02:17	79-00-5	
Trichloroethene	ND ug/L		250	250		06/20/14 02:17	79-01-6	
Vinyl chloride	ND ug/L		250	250		06/20/14 02:17	75-01-4	
Xylene (Total)	ND ug/L		750	250		06/20/14 02:17	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	98 %		80-120	250		06/20/14 02:17	460-00-4	HS
Toluene-d8 (S)	96 %		80-120	250		06/20/14 02:17	2037-26-5	
1,2-Dichloroethane-d4 (S)	92 %		80-120	250		06/20/14 02:17	17060-07-0	
Preservation pH	6.0		1.0	250		06/20/14 02:17		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	1410 mg/L		5.0	1		06/20/14 17:49		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-334

Pace Project No.: 60171807

Sample: 316-334		Lab ID: 60171807001	Collected: 06/18/14 11:36	Received: 06/19/14 01:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	5.6	mg/L	5.0	1		06/20/14 17:54		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	4200	mg/L	5.0	1		06/20/14 13:16		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.3	Std. Units	0.10	1		06/23/14 11:00		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	30800	mg/L	2.0	1	06/19/14 19:58	06/24/14 13:06		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	564	mg/L	20.0	200		06/23/14 09:55	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	50500	mg/L	5000	500		06/25/14 10:17		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-334

Pace Project No.: 60171807

Sample: TRIP BLANK		Lab ID: 60171807002	Collected: 06/18/14 11:36	Received: 06/19/14 01:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		06/20/14 01:15	67-64-1	N2
Benzene	ND ug/L		1.0	1		06/20/14 01:15	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		06/20/14 01:15	75-27-4	
Bromoform	ND ug/L		1.0	1		06/20/14 01:15	75-25-2	
Bromomethane	ND ug/L		5.0	1		06/20/14 01:15	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/20/14 01:15	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		06/20/14 01:15	56-23-5	
Chloroethane	ND ug/L		1.0	1		06/20/14 01:15	75-00-3	
Chloroform	ND ug/L		1.0	1		06/20/14 01:15	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		06/20/14 01:15	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		06/20/14 01:15	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		06/20/14 01:15	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		06/20/14 01:15	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		06/20/14 01:15	100-41-4	
Methylene chloride	ND ug/L		1.0	1		06/20/14 01:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/20/14 01:15	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		06/20/14 01:15	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		06/20/14 01:15	127-18-4	
Toluene	ND ug/L		1.0	1		06/20/14 01:15	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		06/20/14 01:15	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		06/20/14 01:15	79-00-5	
Trichloroethene	ND ug/L		1.0	1		06/20/14 01:15	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		06/20/14 01:15	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		06/20/14 01:15	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100 %		80-120	1		06/20/14 01:15	460-00-4	
Toluene-d8 (S)	99 %		80-120	1		06/20/14 01:15	2037-26-5	
1,2-Dichloroethane-d4 (S)	94 %		80-120	1		06/20/14 01:15	17060-07-0	
Preservation pH	6.0		1.0	1		06/20/14 01:15		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-334

Pace Project No.: 60171807

QC Batch:	MERP/8514	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
Associated Lab Samples:	60171807001		

METHOD BLANK: 1398965 Matrix: Water
Associated Lab Samples: 60171807001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	06/22/14 18:56	

LABORATORY CONTROL SAMPLE: 1398966

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1398967 1398968

Parameter	Units	60171556001		1398967		1398968		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result				
Mercury	ug/L	ND	150	150	148	149	98	98	70-130	0	20

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-334

Pace Project No.: 60171807

QC Batch: MERP/8529

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60171807001

METHOD BLANK: 1400587

Matrix: Water

Associated Lab Samples: 60171807001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	06/25/14 13:57	

LABORATORY CONTROL SAMPLE: 1400588

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.6	93	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1400589 1400590

Parameter	Units	60171807001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Mercury, Dissolved	ug/L	ND	150	150	126	128	84	85	70-130	2	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-334
Pace Project No.: 60171807

QC Batch: MPRP/27763 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60171807001

METHOD BLANK: 1399409 Matrix: Water
Associated Lab Samples: 60171807001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	06/24/14 17:36	
Antimony	ug/L	ND	10.0	06/24/14 17:36	
Arsenic	ug/L	ND	10.0	06/24/14 17:36	
Beryllium	ug/L	ND	1.0	06/24/14 17:36	
Cadmium	ug/L	ND	5.0	06/24/14 17:36	
Chromium	ug/L	ND	5.0	06/24/14 17:36	
Cobalt	ug/L	ND	5.0	06/24/14 17:36	
Copper	ug/L	ND	10.0	06/24/14 17:36	
Iron	ug/L	ND	50.0	06/24/14 17:36	
Lead	ug/L	ND	5.0	06/24/14 17:36	
Nickel	ug/L	ND	5.0	06/24/14 17:36	
Selenium	ug/L	ND	15.0	06/24/14 17:36	
Silver	ug/L	ND	7.0	06/24/14 17:36	
Thallium	ug/L	ND	20.0	06/24/14 17:36	
Zinc	ug/L	ND	50.0	06/24/14 17:36	

LABORATORY CONTROL SAMPLE: 1399410

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10000	100	85-115	
Antimony	ug/L	1000	1050	105	85-115	
Arsenic	ug/L	1000	971	97	85-115	
Beryllium	ug/L	1000	994	99	85-115	
Cadmium	ug/L	1000	991	99	85-115	
Chromium	ug/L	1000	946	95	85-115	
Cobalt	ug/L	1000	1000	100	85-115	
Copper	ug/L	1000	1030	103	85-115	
Iron	ug/L	10000	9390	94	85-115	
Lead	ug/L	1000	1020	102	85-115	
Nickel	ug/L	1000	1030	103	85-115	
Selenium	ug/L	1000	1030	103	85-115	
Silver	ug/L	500	488	98	85-115	
Thallium	ug/L	1000	1020	102	85-115	
Zinc	ug/L	1000	930	93	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-334

Pace Project No.: 60171807

Parameter	Units	60171645001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec							
Aluminum	ug/L	7780	50000	50000	64200	64100	113	113	70-130	0	8					
Antimony	ug/L	93.6	5000	5000	5540	5630	109	111	70-130	2	7					
Arsenic	ug/L	1580	5000	5000	6960	7260	108	114	70-130	4	10					
Beryllium	ug/L	ND	5000	5000	4800	4820	96	96	70-130	1	7					
Cadmium	ug/L	ND	5000	5000	5220	5290	104	106	70-130	1	10					
Chromium	ug/L	251	5000	5000	4770	4780	90	91	70-130	0	10					
Cobalt	ug/L	40.5	5000	5000	4730	4770	94	95	70-130	1	6					
Copper	ug/L	ND	5000	5000	5550	5660	111	113	70-130	2	11					
Iron	ug/L	744000	50000	50000	713000	769000	-62	50	70-130	8	10 M1					
Lead	ug/L	91.2	5000	5000	4590	4620	90	91	70-130	1	10					
Nickel	ug/L	126	5000	5000	4830	4890	94	95	70-130	1	10					
Selenium	ug/L	ND	5000	5000	6220	6400	124	128	70-130	3	10					
Silver	ug/L	ND	2500	2500	2610	2660	104	106	70-130	2	10					
Thallium	ug/L	ND	5000	5000	4100	4150	82	83	70-130	1	6					
Zinc	ug/L	4040	5000	5000	8200	8350	83	86	70-130	2	11					

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-334
Pace Project No.: 60171807

QC Batch: MPRP/27771 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60171807001

METHOD BLANK: 1399572 Matrix: Water
Associated Lab Samples: 60171807001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	06/24/14 18:14	
Antimony, Dissolved	ug/L	ND	10.0	06/24/14 18:14	
Arsenic, Dissolved	ug/L	ND	10.0	06/24/14 18:14	
Beryllium, Dissolved	ug/L	ND	1.0	06/24/14 18:14	
Cadmium, Dissolved	ug/L	ND	5.0	06/24/14 18:14	
Chromium, Dissolved	ug/L	ND	5.0	06/24/14 18:14	
Cobalt, Dissolved	ug/L	ND	5.0	06/24/14 18:14	
Copper, Dissolved	ug/L	ND	10.0	06/24/14 18:14	
Iron, Dissolved	ug/L	ND	50.0	06/24/14 18:14	
Lead, Dissolved	ug/L	ND	5.0	06/24/14 18:14	
Nickel, Dissolved	ug/L	ND	5.0	06/24/14 18:14	
Selenium, Dissolved	ug/L	ND	15.0	06/24/14 18:14	
Silver, Dissolved	ug/L	ND	7.0	06/24/14 18:14	
Thallium, Dissolved	ug/L	ND	20.0	06/24/14 18:14	
Zinc, Dissolved	ug/L	ND	50.0	06/24/14 18:14	

LABORATORY CONTROL SAMPLE: 1399573

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10400	104	85-115	
Antimony, Dissolved	ug/L	1000	1100	110	85-115	
Arsenic, Dissolved	ug/L	1000	1020	102	85-115	
Beryllium, Dissolved	ug/L	1000	1030	103	85-115	
Cadmium, Dissolved	ug/L	1000	1030	103	85-115	
Chromium, Dissolved	ug/L	1000	976	98	85-115	
Cobalt, Dissolved	ug/L	1000	1040	104	85-115	
Copper, Dissolved	ug/L	1000	1080	108	85-115	
Iron, Dissolved	ug/L	10000	9640	96	85-115	
Lead, Dissolved	ug/L	1000	1060	106	85-115	
Nickel, Dissolved	ug/L	1000	1070	107	85-115	
Selenium, Dissolved	ug/L	1000	1080	108	85-115	
Silver, Dissolved	ug/L	500	504	101	85-115	
Thallium, Dissolved	ug/L	1000	1060	106	85-115	
Zinc, Dissolved	ug/L	1000	963	96	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-334

Pace Project No.: 60171807

Parameter	Units	60171807001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec							
Aluminum, Dissolved	ug/L	1720	50000	50000	54000	54000	105	105	70-130	0	8					
Antimony, Dissolved	ug/L	60.6	5000	5000	5670	5680	112	112	70-130	0	7					
Arsenic, Dissolved	ug/L	1090	5000	5000	6790	6840	114	115	70-130	1	10					
Beryllium, Dissolved	ug/L	ND	5000	5000	4900	4910	98	98	70-130	0	7					
Cadmium, Dissolved	ug/L	ND	5000	5000	5320	5330	106	107	70-130	0	10					
Chromium, Dissolved	ug/L	154	5000	5000	4810	4850	93	94	70-130	1	10					
Cobalt, Dissolved	ug/L	ND	5000	5000	4860	4850	97	97	70-130	0	6					
Copper, Dissolved	ug/L	ND	5000	5000	5680	5720	113	114	70-130	1	11					
Iron, Dissolved	ug/L	293000	50000	50000	346000	367000	106	148	70-130	6	10 M1					
Lead, Dissolved	ug/L	ND	5000	5000	4700	4680	94	93	70-130	0	10					
Nickel, Dissolved	ug/L	91.4	5000	5000	4960	4950	97	97	70-130	0	10					
Selenium, Dissolved	ug/L	ND	5000	5000	6320	6360	126	127	70-130	1	10					
Silver, Dissolved	ug/L	ND	2500	2500	2650	2690	105	107	70-130	2	10					
Thallium, Dissolved	ug/L	ND	5000	5000	4280	4260	86	85	70-130	1	6					
Zinc, Dissolved	ug/L	3110	5000	5000	7730	7900	92	96	70-130	2	11					

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-334

Pace Project No.: 60171807

QC Batch: MSV/62417 Analysis Method: EPA 624 Low
 QC Batch Method: EPA 624 Low Analysis Description: 624 MSV
 Associated Lab Samples: 60171807001, 60171807002

METHOD BLANK: 1397048 Matrix: Water

Associated Lab Samples: 60171807001, 60171807002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/19/14 22:55	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/19/14 22:55	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	06/19/14 22:55	
1,2-Dichloroethane	ug/L	ND	1.0	06/19/14 22:55	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/19/14 22:55	
2-Butanone (MEK)	ug/L	ND	10.0	06/19/14 22:55	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/19/14 22:55	N2
Acetone	ug/L	ND	10.0	06/19/14 22:55	N2
Benzene	ug/L	ND	1.0	06/19/14 22:55	
Bromodichloromethane	ug/L	ND	1.0	06/19/14 22:55	
Bromoform	ug/L	ND	1.0	06/19/14 22:55	
Bromomethane	ug/L	ND	5.0	06/19/14 22:55	
Carbon tetrachloride	ug/L	ND	1.0	06/19/14 22:55	
Chloroethane	ug/L	ND	1.0	06/19/14 22:55	
Chloroform	ug/L	ND	1.0	06/19/14 22:55	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/19/14 22:55	N2
Ethylbenzene	ug/L	ND	1.0	06/19/14 22:55	
Methylene chloride	ug/L	ND	1.0	06/19/14 22:55	
Tetrachloroethene	ug/L	ND	1.0	06/19/14 22:55	
Toluene	ug/L	ND	1.0	06/19/14 22:55	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/19/14 22:55	
Trichloroethene	ug/L	ND	1.0	06/19/14 22:55	
Vinyl chloride	ug/L	ND	1.0	06/19/14 22:55	
Xylene (Total)	ug/L	ND	3.0	06/19/14 22:55	N2
1,2-Dichloroethane-d4 (S)	%	98	80-120	06/19/14 22:55	
4-Bromofluorobenzene (S)	%	98	80-120	06/19/14 22:55	
Toluene-d8 (S)	%	98	80-120	06/19/14 22:55	

LABORATORY CONTROL SAMPLE: 1397049

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	16.9	85	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	20.3	101	67-127	N2
1,1,2-Trichloroethane	ug/L	20	19.6	98	67-124	
1,2-Dichloroethane	ug/L	20	17.7	88	70-126	
1,4-Dichlorobenzene	ug/L	20	18.2	91	74-120	
2-Butanone (MEK)	ug/L	100	96.9	97	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	102	102	59-131	N2
Acetone	ug/L	100	91.6	92	38-134	N2
Benzene	ug/L	20	17.7	89	75-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-334

Pace Project No.: 60171807

LABORATORY CONTROL SAMPLE: 1397049

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	20	18.9	94	68-125	
Bromoform	ug/L	20	19.2	96	65-127	
Bromomethane	ug/L	20	7.4	37	13-157	
Carbon tetrachloride	ug/L	20	16.8	84	70-131	
Chloroethane	ug/L	20	15.8	79	47-133	
Chloroform	ug/L	20	17.3	87	65-127	
cis-1,2-Dichloroethene	ug/L	20	18.2	91	68-127	N2
Ethylbenzene	ug/L	20	18.7	93	74-122	
Methylene chloride	ug/L	20	16.9	85	64-129	
Tetrachloroethene	ug/L	20	18.5	92	73-125	
Toluene	ug/L	20	17.5	88	69-126	
trans-1,2-Dichloroethene	ug/L	20	16.2	81	66-129	
Trichloroethene	ug/L	20	16.8	84	71-123	
Vinyl chloride	ug/L	20	12.0	60	43-129	
Xylene (Total)	ug/L	60	56.1	93	75-121	N2
1,2-Dichloroethane-d4 (S)	%			96	80-120	
4-Bromofluorobenzene (S)	%			98	80-120	
Toluene-d8 (S)	%			95	80-120	

MATRIX SPIKE SAMPLE: 1397050

Parameter	Units	60171645001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	3720	74	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	4590	92	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	4110	82	52-143	
1,2-Dichloroethane	ug/L	ND	5000	3640	73	49-144	
1,4-Dichlorobenzene	ug/L	464	5000	4430	79	33-140	
2-Butanone (MEK)	ug/L	43500	25000	67500	96	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	22700	88	40-160	N2
Acetone	ug/L	100000	25000	126000	102	10-160	N2
Benzene	ug/L	ND	5000	3770	75	37-151	
Bromodichloromethane	ug/L	ND	5000	3900	78	35-142	
Bromoform	ug/L	ND	5000	4410	88	45-142	
Bromomethane	ug/L	ND	5000	1600	32	10-158	
Carbon tetrachloride	ug/L	ND	5000	3820	76	70-140	
Chloroethane	ug/L	ND	5000	3250	65	19-152	
Chloroform	ug/L	ND	5000	3640	73	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	3870	77	34-147	N2
Ethylbenzene	ug/L	ND	5000	4070	81	40-142	
Methylene chloride	ug/L	ND	5000	3590	71	31-144	
Tetrachloroethene	ug/L	ND	5000	4250	85	64-148	
Toluene	ug/L	ND	5000	3710	74	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	3570	71	54-151	
Trichloroethene	ug/L	ND	5000	3690	74	71-149	
Vinyl chloride	ug/L	ND	5000	2390	48	22-146	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-334

Pace Project No.: 60171807

MATRIX SPIKE SAMPLE:		1397050					
Parameter	Units	60171645001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	ND	15000	11900	79	37-144	N2
1,2-Dichloroethane-d4 (S)	%				94	80-120	
4-Bromofluorobenzene (S)	%				100	80-120	
Toluene-d8 (S)	%				94	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-334
Pace Project No.: 60171807

QC Batch: OEXT/44751 Analysis Method: EPA 625
QC Batch Method: EPA 625 Analysis Description: 625 MSS
Associated Lab Samples: 60171807001

METHOD BLANK: 1397451 Matrix: Water
Associated Lab Samples: 60171807001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/23/14 17:52	
2,4,6-Trichlorophenol	ug/L	ND	5.0	06/23/14 17:52	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	06/23/14 17:52	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	06/23/14 17:52	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	06/23/14 17:52	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/23/14 17:52	
Hexachlorocyclopentadiene	ug/L	ND	5.0	06/23/14 17:52	
Hexachloroethane	ug/L	ND	5.0	06/23/14 17:52	
Naphthalene	ug/L	ND	5.0	06/23/14 17:52	
Nitrobenzene	ug/L	ND	5.0	06/23/14 17:52	
Pentachlorophenol	ug/L	ND	5.0	06/23/14 17:52	
Phenol	ug/L	ND	5.0	06/23/14 17:52	
2,4,6-Tribromophenol (S)	%	81	39-120	06/23/14 17:52	
2-Fluorobiphenyl (S)	%	78	39-120	06/23/14 17:52	
2-Fluorophenol (S)	%	47	17-120	06/23/14 17:52	
Nitrobenzene-d5 (S)	%	85	33-120	06/23/14 17:52	
Phenol-d6 (S)	%	33	11-120	06/23/14 17:52	
Terphenyl-d14 (S)	%	80	45-120	06/23/14 17:52	

LABORATORY CONTROL SAMPLE: 1397452

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	39.5	79	46-120	
2,4,6-Trichlorophenol	ug/L	50	43.7	87	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	34.1	68	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	31.6	63	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	46.0	92	40-133	
Hexachloro-1,3-butadiene	ug/L	50	37.5	75	44-116	
Hexachlorocyclopentadiene	ug/L	100	66.4	66	24-120	
Hexachloroethane	ug/L	50	37.2	74	43-113	
Naphthalene	ug/L	50	39.8	80	48-120	
Nitrobenzene	ug/L	50	44.1	88	48-120	
Pentachlorophenol	ug/L	50	48.4	97	47-120	
Phenol	ug/L	50	19.0	38	16-112	
2,4,6-Tribromophenol (S)	%			97	39-120	
2-Fluorobiphenyl (S)	%			83	39-120	
2-Fluorophenol (S)	%			52	17-120	
Nitrobenzene-d5 (S)	%			87	33-120	
Phenol-d6 (S)	%			37	11-120	
Terphenyl-d14 (S)	%			87	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-334

Pace Project No.: 60171807

QC Batch:	WET/48592	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60171807001		

METHOD BLANK: 1398247 Matrix: Water

Associated Lab Samples: 60171807001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	06/20/14 17:45	

LABORATORY CONTROL SAMPLE: 1398248

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	33.1	83	78-114	

MATRIX SPIKE SAMPLE: 1398249

Parameter	Units	60171755001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	73.3	51.9	89.5	31	78-114	M1

SAMPLE DUPLICATE: 1398250

Parameter	Units	60171367001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	204	210	3	18	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-334

Pace Project No.: 60171807

QC Batch:	WET/48593	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60171807001		

METHOD BLANK: 1398251 Matrix: Water
Associated Lab Samples: 60171807001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	06/20/14 17:52	

LABORATORY CONTROL SAMPLE: 1398252

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	23.1	116	64-132	

MATRIX SPIKE SAMPLE: 1398253

Parameter	Units	60171755001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	19.7	26	26.8	27	64-132	M1

SAMPLE DUPLICATE: 1398254

Parameter	Units	60171367001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	4.2J		34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-334

Pace Project No.: 60171807

QC Batch:	WET/48584	Analysis Method:	SM 2540D
QC Batch Method:	SM 2540D	Analysis Description:	2540D Total Suspended Solids
Associated Lab Samples:	60171807001		

METHOD BLANK: 1397860 Matrix: Water

Associated Lab Samples: 60171807001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	06/20/14 13:13	

SAMPLE DUPLICATE: 1397861

Parameter	Units	60171833001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	9.0	8.0	12	10	D6

SAMPLE DUPLICATE: 1397862

Parameter	Units	60171847002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	19.0	20.0	5	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-334

Pace Project No.: 60171807

QC Batch: WET/48614 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60171807001

SAMPLE DUPLICATE: 1399171

Parameter	Units	60171566001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.9	7.9	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-334

Pace Project No.: 60171807

QC Batch: WET/48575

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60171807001

METHOD BLANK: 1397537

Matrix: Water

Associated Lab Samples: 60171807001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	06/24/14 13:01	

LABORATORY CONTROL SAMPLE: 1397538

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	218	110	85-115	

SAMPLE DUPLICATE: 1397539

Parameter	Units	60171807001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	30800	35500	14	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-334

Pace Project No.: 60171807

QC Batch:	WETA/29937	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60171807001		

METHOD BLANK: 1399070 Matrix: Water
Associated Lab Samples: 60171807001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	06/23/14 09:43	

LABORATORY CONTROL SAMPLE: 1399071

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	103	90-110	

MATRIX SPIKE SAMPLE: 1399072

Parameter	Units	60171009003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2.7	2	4.4	86	90-110	M1

SAMPLE DUPLICATE: 1399073

Parameter	Units	60171556001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	545	551	1	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-334

Pace Project No.: 60171807

QC Batch: WETA/29965 Analysis Method: EPA 410.4
 QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
 Associated Lab Samples: 60171807001

METHOD BLANK: 1399687 Matrix: Water
 Associated Lab Samples: 60171807001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	06/25/14 10:14	

LABORATORY CONTROL SAMPLE: 1399688

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	45.5	91	90-110	

MATRIX SPIKE SAMPLE: 1399689

Parameter	Units	60171337001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	77.0	50	122	90	90-110	

MATRIX SPIKE SAMPLE: 1399691

Parameter	Units	60171241002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	568	500	1040	95	90-110	

SAMPLE DUPLICATE: 1399690

Parameter	Units	60171766001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	27.4	27.1	1	25	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 316-334

Pace Project No.: 60171807

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.

PQL - Practical Quantitation 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.

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

- | | |
|----|-------------------------------------------------------------------------------------------------------------------|
| D6 | The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits. |
| H6 | Analysis initiated outside of the 15 minute EPA recommended holding time. |
| HS | Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter). |
| M1 | Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery. |
| N2 | The lab does not hold TNI accreditation for this parameter. |
| S0 | Surrogate recovery outside laboratory control limits. |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-334

Pace Project No.: 60171807

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60171807001	316-334	EPA 200.7	MPRP/27763	EPA 200.7	ICP/20995
60171807001	316-334	EPA 200.7	MPRP/27771	EPA 200.7	ICP/20997
60171807001	316-334	EPA 245.1	MERP/8514	EPA 245.1	MERC/8469
60171807001	316-334	EPA 245.1	MERP/8529	EPA 245.1	MERC/8484
60171807001	316-334	EPA 625	OEXT/44751	EPA 625	MSSV/14337
60171807001	316-334	EPA 624 Low	MSV/62417		
60171807002	TRIP BLANK	EPA 624 Low	MSV/62417		
60171807001	316-334	EPA 1664A	WET/48592		
60171807001	316-334	EPA 1664A	WET/48593		
60171807001	316-334	SM 2540D	WET/48584		
60171807001	316-334	SM 4500-H+B	WET/48614		
60171807001	316-334	SM 5210B	WET/48575	SM 5210B	WET/48661
60171807001	316-334	EPA 350.1	WETA/29937		
60171807001	316-334	EPA 410.4	WETA/29965		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60171807



60171807

Client Name: Barr Engineering

Optional
Proj Due Date:
Proj Name:

Courier: Fed Ex UPS USPS Client Commercial Pace Other cross roads

Tracking #: _____ Pace Shipping Label Used? Yes No

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other ZPC

Thermometer Used: T-239 / T-194 Type of Ice: Wet Blue None Samples received on ice, cooling process has begun.

Cooler Temperature: 5.2

Date and initials of person examining contents: Att 6/19

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>ROD, pH</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix: <u>WT</u>		13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>BPSS initial pH 4.5, added 2ml H2SO4 final pH 3.0</u> <u>BP2W initial pH 5.0 added 0.5ml HNO3 final pH 4.0</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: <u>VOA</u> coliform, TOC <u>O&G</u> , WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>Att</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Lot # of added preservative <u>12522-2-7</u> <u>12513-2-3-2</u>
Pace Trip Blank lot # (if purchased): <u>covered</u>		15.
Headspace in VOA vials (>6mm):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16. <u>5 of 5 DG9U 316339 headspace.</u>
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State <u>MO</u>

Client Notification/ Resolution: Copy COC to Client? Y N Field Data Required? Y N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: [Signature]

June 27, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF CB 06-17-14
Pace Project No.: 60171810

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 19, 2014. 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,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Bill Abernathy, Feezor Engineering
Kelly Caddy, Barr Engineering
DAN FEEZOR, FEEZOR ENGINEERING
Dana B. Pasi, Barr Engineering Co.
Brian Power, Republic Services
Brian Sehie, Republic Services
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF CB 06-17-14

Pace Project No.: 60171810

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-13-4

Utah Certification #: KS000212013-3

Illinois Certification #: 003097

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON LF CB 06-17-14

Pace Project No.: 60171810

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60171810001	CB 06-17-14	Water	06/18/14 10:52	06/19/14 01:20
60171810002	TRIP BLANK	Water	06/18/14 10:52	06/19/14 01:20

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF CB 06-17-14

Pace Project No.: 60171810

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60171810001	CB 06-17-14	EPA 200.7	NDJ	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	CRT	1
		EPA 1664A	CRT	1
		SM 2540D	ESM	1
		SM 4500-H+B	NDL	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC1	1
60171810002	TRIP BLANK	EPA 624 Low	EAK	28

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF CB 06-17-14

Pace Project No.: 60171810

Sample: CB 06-17-14		Lab ID: 60171810001	Collected: 06/18/14 10:52	Received: 06/19/14 01:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	1260 ug/L		375	1	06/24/14 05:59	06/24/14 18:02	7429-90-5	
Antimony	ND ug/L		50.0	1	06/24/14 05:59	06/24/14 18:02	7440-36-0	
Arsenic	568 ug/L		50.0	1	06/24/14 05:59	06/24/14 18:02	7440-38-2	
Beryllium	ND ug/L		5.0	1	06/24/14 05:59	06/24/14 18:02	7440-41-7	
Cadmium	ND ug/L		25.0	1	06/24/14 05:59	06/24/14 18:02	7440-43-9	
Chromium	96.8 ug/L		25.0	1	06/24/14 05:59	06/24/14 18:02	7440-47-3	
Cobalt	ND ug/L		25.0	1	06/24/14 05:59	06/24/14 18:02	7440-48-4	
Copper	ND ug/L		50.0	1	06/24/14 05:59	06/24/14 18:02	7440-50-8	
Iron	321000 ug/L		250	1	06/24/14 05:59	06/24/14 18:02	7439-89-6	
Lead	ND ug/L		25.0	1	06/24/14 05:59	06/24/14 18:02	7439-92-1	
Nickel	62.6 ug/L		25.0	1	06/24/14 05:59	06/24/14 18:02	7440-02-0	
Selenium	ND ug/L		75.0	1	06/24/14 05:59	06/24/14 18:02	7782-49-2	
Silver	ND ug/L		35.0	1	06/24/14 05:59	06/24/14 18:02	7440-22-4	
Thallium	ND ug/L		100	1	06/24/14 05:59	06/24/14 18:02	7440-28-0	
Zinc	3080 ug/L		250	1	06/24/14 05:59	06/24/14 18:02	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	ND ug/L		375	1	06/24/14 06:04	06/24/14 18:35	7429-90-5	
Antimony, Dissolved	ND ug/L		50.0	1	06/24/14 06:04	06/24/14 18:35	7440-36-0	
Arsenic, Dissolved	460 ug/L		50.0	1	06/24/14 06:04	06/24/14 18:35	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	06/24/14 06:04	06/24/14 18:35	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	06/24/14 06:04	06/24/14 18:35	7440-43-9	
Chromium, Dissolved	81.4 ug/L		25.0	1	06/24/14 06:04	06/24/14 18:35	7440-47-3	
Cobalt, Dissolved	ND ug/L		25.0	1	06/24/14 06:04	06/24/14 18:35	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	06/24/14 06:04	06/24/14 18:35	7440-50-8	
Iron, Dissolved	210000 ug/L		250	1	06/24/14 06:04	06/24/14 18:35	7439-89-6	
Lead, Dissolved	ND ug/L		25.0	1	06/24/14 06:04	06/24/14 18:35	7439-92-1	
Nickel, Dissolved	54.8 ug/L		25.0	1	06/24/14 06:04	06/24/14 18:35	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	06/24/14 06:04	06/24/14 18:35	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	06/24/14 06:04	06/24/14 18:35	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	06/24/14 06:04	06/24/14 18:35	7440-28-0	
Zinc, Dissolved	1140 ug/L		250	1	06/24/14 06:04	06/24/14 18:35	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	ND ug/L		6.0	1	06/22/14 12:00	06/22/14 19:23	7439-97-6	
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND ug/L		6.0	1	06/25/14 10:30	06/25/14 14:08	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	06/19/14 00:00	06/23/14 18:54	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	06/19/14 00:00	06/23/14 18:54	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	06/19/14 00:00	06/23/14 18:54	77-47-4	
Hexachloroethane	ND ug/L		1000	2	06/19/14 00:00	06/23/14 18:54	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	2	06/19/14 00:00	06/23/14 18:54	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	ND ug/L		4000	2	06/19/14 00:00	06/23/14 18:54		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF CB 06-17-14

Pace Project No.: 60171810

Sample: CB 06-17-14		Lab ID: 60171810001	Collected: 06/18/14 10:52	Received: 06/19/14 01:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	ND ug/L		1000	2	06/19/14 00:00	06/23/14 18:54	91-20-3	
Nitrobenzene	ND ug/L		1000	2	06/19/14 00:00	06/23/14 18:54	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	06/19/14 00:00	06/23/14 18:54	87-86-5	
Phenol	4870 ug/L		1000	2	06/19/14 00:00	06/23/14 18:54	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	06/19/14 00:00	06/23/14 18:54	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	06/19/14 00:00	06/23/14 18:54	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	102 %		33-120	2	06/19/14 00:00	06/23/14 18:54	4165-60-0	
2-Fluorobiphenyl (S)	82 %		39-120	2	06/19/14 00:00	06/23/14 18:54	321-60-8	
Terphenyl-d14 (S)	82 %		45-120	2	06/19/14 00:00	06/23/14 18:54	1718-51-0	
Phenol-d6 (S)	34 %		11-120	2	06/19/14 00:00	06/23/14 18:54	13127-88-3	
2-Fluorophenol (S)	47 %		17-120	2	06/19/14 00:00	06/23/14 18:54	367-12-4	
2,4,6-Tribromophenol (S)	100 %		39-120	2	06/19/14 00:00	06/23/14 18:54	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	39700 ug/L		2500	250		06/20/14 02:33	67-64-1	N2
Benzene	ND ug/L		250	250		06/20/14 02:33	71-43-2	
Bromodichloromethane	ND ug/L		250	250		06/20/14 02:33	75-27-4	
Bromoform	ND ug/L		250	250		06/20/14 02:33	75-25-2	
Bromomethane	ND ug/L		1250	250		06/20/14 02:33	74-83-9	
2-Butanone (MEK)	18800 ug/L		2500	250		06/20/14 02:33	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		06/20/14 02:33	56-23-5	
Chloroethane	ND ug/L		250	250		06/20/14 02:33	75-00-3	
Chloroform	ND ug/L		250	250		06/20/14 02:33	67-66-3	
1,4-Dichlorobenzene	ND ug/L		250	250		06/20/14 02:33	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		06/20/14 02:33	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		06/20/14 02:33	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		06/20/14 02:33	156-60-5	
Ethylbenzene	ND ug/L		250	250		06/20/14 02:33	100-41-4	
Methylene chloride	ND ug/L		250	250		06/20/14 02:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		06/20/14 02:33	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		06/20/14 02:33	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		06/20/14 02:33	127-18-4	
Toluene	ND ug/L		250	250		06/20/14 02:33	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		06/20/14 02:33	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		06/20/14 02:33	79-00-5	
Trichloroethene	ND ug/L		250	250		06/20/14 02:33	79-01-6	
Vinyl chloride	ND ug/L		250	250		06/20/14 02:33	75-01-4	
Xylene (Total)	ND ug/L		750	250		06/20/14 02:33	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	99 %		80-120	250		06/20/14 02:33	460-00-4	
Toluene-d8 (S)	95 %		80-120	250		06/20/14 02:33	2037-26-5	
1,2-Dichloroethane-d4 (S)	95 %		80-120	250		06/20/14 02:33	17060-07-0	
Preservation pH	6.0		1.0	250		06/20/14 02:33		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	530 mg/L		5.0	1		06/20/14 17:49		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF CB 06-17-14

Pace Project No.: 60171810

Sample: CB 06-17-14		Lab ID: 60171810001	Collected: 06/18/14 10:52	Received: 06/19/14 01:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	ND	mg/L	5.0	1		06/20/14 17:54		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	3000	mg/L	5.0	1		06/20/14 13:17		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	6.3	Std. Units	0.10	1		06/23/14 11:00		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	11900	mg/L	2.0	1	06/19/14 18:36	06/24/14 11:37		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	276	mg/L	20.0	200		06/23/14 09:56	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	24000	mg/L	5000	500		06/25/14 10:18		

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ANALYTICAL RESULTS

Project: BRIDGETON LF CB 06-17-14

Pace Project No.: 60171810

Sample: TRIP BLANK		Lab ID: 60171810002	Collected: 06/18/14 10:52	Received: 06/19/14 01:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		06/20/14 01:31	67-64-1	N2
Benzene	ND ug/L		1.0	1		06/20/14 01:31	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		06/20/14 01:31	75-27-4	
Bromoform	ND ug/L		1.0	1		06/20/14 01:31	75-25-2	
Bromomethane	ND ug/L		5.0	1		06/20/14 01:31	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/20/14 01:31	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		06/20/14 01:31	56-23-5	
Chloroethane	ND ug/L		1.0	1		06/20/14 01:31	75-00-3	
Chloroform	ND ug/L		1.0	1		06/20/14 01:31	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		06/20/14 01:31	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		06/20/14 01:31	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		06/20/14 01:31	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		06/20/14 01:31	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		06/20/14 01:31	100-41-4	
Methylene chloride	ND ug/L		1.0	1		06/20/14 01:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/20/14 01:31	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		06/20/14 01:31	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		06/20/14 01:31	127-18-4	
Toluene	ND ug/L		1.0	1		06/20/14 01:31	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		06/20/14 01:31	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		06/20/14 01:31	79-00-5	
Trichloroethene	ND ug/L		1.0	1		06/20/14 01:31	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		06/20/14 01:31	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		06/20/14 01:31	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	97 %		80-120	1		06/20/14 01:31	460-00-4	
Toluene-d8 (S)	96 %		80-120	1		06/20/14 01:31	2037-26-5	
1,2-Dichloroethane-d4 (S)	93 %		80-120	1		06/20/14 01:31	17060-07-0	
Preservation pH	6.0		1.0	1		06/20/14 01:31		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 06-17-14

Pace Project No.: 60171810

QC Batch:	MERP/8514	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
Associated Lab Samples:	60171810001		

METHOD BLANK: 1398965 Matrix: Water
Associated Lab Samples: 60171810001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	06/22/14 18:56	

LABORATORY CONTROL SAMPLE: 1398966

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1398967 1398968

Parameter	Units	60171556001 Result	MS		MSD		% Rec		% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result	% Rec	MSD % Rec					
Mercury	ug/L	ND	150	150	148	149	98	98	70-130	0	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 06-17-14

Pace Project No.: 60171810

QC Batch:	MERP/8529	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury - Dissolved
Associated Lab Samples:	60171810001		

METHOD BLANK: 1400587 Matrix: Water
Associated Lab Samples: 60171810001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	06/25/14 13:57	

LABORATORY CONTROL SAMPLE: 1400588

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.6	93	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1400589 1400590

Parameter	Units	60171807001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Mercury, Dissolved	ug/L	ND	150	150	126	128	84	85	70-130	2	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 06-17-14

Pace Project No.: 60171810

QC Batch:	MPRP/27763	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
Associated Lab Samples:	60171810001		

METHOD BLANK: 1399409 Matrix: Water

Associated Lab Samples: 60171810001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	06/24/14 17:36	
Antimony	ug/L	ND	10.0	06/24/14 17:36	
Arsenic	ug/L	ND	10.0	06/24/14 17:36	
Beryllium	ug/L	ND	1.0	06/24/14 17:36	
Cadmium	ug/L	ND	5.0	06/24/14 17:36	
Chromium	ug/L	ND	5.0	06/24/14 17:36	
Cobalt	ug/L	ND	5.0	06/24/14 17:36	
Copper	ug/L	ND	10.0	06/24/14 17:36	
Iron	ug/L	ND	50.0	06/24/14 17:36	
Lead	ug/L	ND	5.0	06/24/14 17:36	
Nickel	ug/L	ND	5.0	06/24/14 17:36	
Selenium	ug/L	ND	15.0	06/24/14 17:36	
Silver	ug/L	ND	7.0	06/24/14 17:36	
Thallium	ug/L	ND	20.0	06/24/14 17:36	
Zinc	ug/L	ND	50.0	06/24/14 17:36	

LABORATORY CONTROL SAMPLE: 1399410

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10000	100	85-115	
Antimony	ug/L	1000	1050	105	85-115	
Arsenic	ug/L	1000	971	97	85-115	
Beryllium	ug/L	1000	994	99	85-115	
Cadmium	ug/L	1000	991	99	85-115	
Chromium	ug/L	1000	946	95	85-115	
Cobalt	ug/L	1000	1000	100	85-115	
Copper	ug/L	1000	1030	103	85-115	
Iron	ug/L	10000	9390	94	85-115	
Lead	ug/L	1000	1020	102	85-115	
Nickel	ug/L	1000	1030	103	85-115	
Selenium	ug/L	1000	1030	103	85-115	
Silver	ug/L	500	488	98	85-115	
Thallium	ug/L	1000	1020	102	85-115	
Zinc	ug/L	1000	930	93	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 06-17-14

Pace Project No.: 60171810

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1399411												1399412	
Parameter	Units	60171645001		MS	MSD	MS		MSD		% Rec Limits	Max		
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	RPD		RPD	Qual	
Aluminum	ug/L	7780	50000	50000	64200	64100	113	113	70-130	0	8		
Antimony	ug/L	93.6	5000	5000	5540	5630	109	111	70-130	2	7		
Arsenic	ug/L	1580	5000	5000	6960	7260	108	114	70-130	4	10		
Beryllium	ug/L	ND	5000	5000	4800	4820	96	96	70-130	1	7		
Cadmium	ug/L	ND	5000	5000	5220	5290	104	106	70-130	1	10		
Chromium	ug/L	251	5000	5000	4770	4780	90	91	70-130	0	10		
Cobalt	ug/L	40.5	5000	5000	4730	4770	94	95	70-130	1	6		
Copper	ug/L	ND	5000	5000	5550	5660	111	113	70-130	2	11		
Iron	ug/L	744000	50000	50000	713000	769000	-62	50	70-130	8	10	M1	
Lead	ug/L	91.2	5000	5000	4590	4620	90	91	70-130	1	10		
Nickel	ug/L	126	5000	5000	4830	4890	94	95	70-130	1	10		
Selenium	ug/L	ND	5000	5000	6220	6400	124	128	70-130	3	10		
Silver	ug/L	ND	2500	2500	2610	2660	104	106	70-130	2	10		
Thallium	ug/L	ND	5000	5000	4100	4150	82	83	70-130	1	6		
Zinc	ug/L	4040	5000	5000	8200	8350	83	86	70-130	2	11		

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 06-17-14

Pace Project No.: 60171810

QC Batch: MPRP/27771

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Dissolved

Associated Lab Samples: 60171810001

METHOD BLANK: 1399572

Matrix: Water

Associated Lab Samples: 60171810001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	06/24/14 18:14	
Antimony, Dissolved	ug/L	ND	10.0	06/24/14 18:14	
Arsenic, Dissolved	ug/L	ND	10.0	06/24/14 18:14	
Beryllium, Dissolved	ug/L	ND	1.0	06/24/14 18:14	
Cadmium, Dissolved	ug/L	ND	5.0	06/24/14 18:14	
Chromium, Dissolved	ug/L	ND	5.0	06/24/14 18:14	
Cobalt, Dissolved	ug/L	ND	5.0	06/24/14 18:14	
Copper, Dissolved	ug/L	ND	10.0	06/24/14 18:14	
Iron, Dissolved	ug/L	ND	50.0	06/24/14 18:14	
Lead, Dissolved	ug/L	ND	5.0	06/24/14 18:14	
Nickel, Dissolved	ug/L	ND	5.0	06/24/14 18:14	
Selenium, Dissolved	ug/L	ND	15.0	06/24/14 18:14	
Silver, Dissolved	ug/L	ND	7.0	06/24/14 18:14	
Thallium, Dissolved	ug/L	ND	20.0	06/24/14 18:14	
Zinc, Dissolved	ug/L	ND	50.0	06/24/14 18:14	

LABORATORY CONTROL SAMPLE: 1399573

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10400	104	85-115	
Antimony, Dissolved	ug/L	1000	1100	110	85-115	
Arsenic, Dissolved	ug/L	1000	1020	102	85-115	
Beryllium, Dissolved	ug/L	1000	1030	103	85-115	
Cadmium, Dissolved	ug/L	1000	1030	103	85-115	
Chromium, Dissolved	ug/L	1000	976	98	85-115	
Cobalt, Dissolved	ug/L	1000	1040	104	85-115	
Copper, Dissolved	ug/L	1000	1080	108	85-115	
Iron, Dissolved	ug/L	10000	9640	96	85-115	
Lead, Dissolved	ug/L	1000	1060	106	85-115	
Nickel, Dissolved	ug/L	1000	1070	107	85-115	
Selenium, Dissolved	ug/L	1000	1080	108	85-115	
Silver, Dissolved	ug/L	500	504	101	85-115	
Thallium, Dissolved	ug/L	1000	1060	106	85-115	
Zinc, Dissolved	ug/L	1000	963	96	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 06-17-14

Pace Project No.: 60171810

Parameter	Units	60171807001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec							
Aluminum, Dissolved	ug/L	1720	50000	50000	54000	54000	105	105	70-130	0	8					
Antimony, Dissolved	ug/L	60.6	5000	5000	5670	5680	112	112	70-130	0	7					
Arsenic, Dissolved	ug/L	1090	5000	5000	6790	6840	114	115	70-130	1	10					
Beryllium, Dissolved	ug/L	ND	5000	5000	4900	4910	98	98	70-130	0	7					
Cadmium, Dissolved	ug/L	ND	5000	5000	5320	5330	106	107	70-130	0	10					
Chromium, Dissolved	ug/L	154	5000	5000	4810	4850	93	94	70-130	1	10					
Cobalt, Dissolved	ug/L	ND	5000	5000	4860	4850	97	97	70-130	0	6					
Copper, Dissolved	ug/L	ND	5000	5000	5680	5720	113	114	70-130	1	11					
Iron, Dissolved	ug/L	293000	50000	50000	346000	367000	106	148	70-130	6	10 M1					
Lead, Dissolved	ug/L	ND	5000	5000	4700	4680	94	93	70-130	0	10					
Nickel, Dissolved	ug/L	91.4	5000	5000	4960	4950	97	97	70-130	0	10					
Selenium, Dissolved	ug/L	ND	5000	5000	6320	6360	126	127	70-130	1	10					
Silver, Dissolved	ug/L	ND	2500	2500	2650	2690	105	107	70-130	2	10					
Thallium, Dissolved	ug/L	ND	5000	5000	4280	4260	86	85	70-130	1	6					
Zinc, Dissolved	ug/L	3110	5000	5000	7730	7900	92	96	70-130	2	11					

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 06-17-14

Pace Project No.: 60171810

QC Batch: MSV/62417 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60171810001, 60171810002

METHOD BLANK: 1397048 Matrix: Water

Associated Lab Samples: 60171810001, 60171810002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/19/14 22:55	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/19/14 22:55	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	06/19/14 22:55	
1,2-Dichloroethane	ug/L	ND	1.0	06/19/14 22:55	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/19/14 22:55	
2-Butanone (MEK)	ug/L	ND	10.0	06/19/14 22:55	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/19/14 22:55	N2
Acetone	ug/L	ND	10.0	06/19/14 22:55	N2
Benzene	ug/L	ND	1.0	06/19/14 22:55	
Bromodichloromethane	ug/L	ND	1.0	06/19/14 22:55	
Bromoform	ug/L	ND	1.0	06/19/14 22:55	
Bromomethane	ug/L	ND	5.0	06/19/14 22:55	
Carbon tetrachloride	ug/L	ND	1.0	06/19/14 22:55	
Chloroethane	ug/L	ND	1.0	06/19/14 22:55	
Chloroform	ug/L	ND	1.0	06/19/14 22:55	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/19/14 22:55	N2
Ethylbenzene	ug/L	ND	1.0	06/19/14 22:55	
Methylene chloride	ug/L	ND	1.0	06/19/14 22:55	
Tetrachloroethene	ug/L	ND	1.0	06/19/14 22:55	
Toluene	ug/L	ND	1.0	06/19/14 22:55	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/19/14 22:55	
Trichloroethene	ug/L	ND	1.0	06/19/14 22:55	
Vinyl chloride	ug/L	ND	1.0	06/19/14 22:55	
Xylene (Total)	ug/L	ND	3.0	06/19/14 22:55	N2
1,2-Dichloroethane-d4 (S)	%	98	80-120	06/19/14 22:55	
4-Bromofluorobenzene (S)	%	98	80-120	06/19/14 22:55	
Toluene-d8 (S)	%	98	80-120	06/19/14 22:55	

LABORATORY CONTROL SAMPLE: 1397049

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	16.9	85	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	20.3	101	67-127	N2
1,1,2-Trichloroethane	ug/L	20	19.6	98	67-124	
1,2-Dichloroethane	ug/L	20	17.7	88	70-126	
1,4-Dichlorobenzene	ug/L	20	18.2	91	74-120	
2-Butanone (MEK)	ug/L	100	96.9	97	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	102	102	59-131	N2
Acetone	ug/L	100	91.6	92	38-134	N2
Benzene	ug/L	20	17.7	89	75-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 06-17-14

Pace Project No.: 60171810

LABORATORY CONTROL SAMPLE: 1397049

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	20	18.9	94	68-125	
Bromoform	ug/L	20	19.2	96	65-127	
Bromomethane	ug/L	20	7.4	37	13-157	
Carbon tetrachloride	ug/L	20	16.8	84	70-131	
Chloroethane	ug/L	20	15.8	79	47-133	
Chloroform	ug/L	20	17.3	87	65-127	
cis-1,2-Dichloroethene	ug/L	20	18.2	91	68-127	N2
Ethylbenzene	ug/L	20	18.7	93	74-122	
Methylene chloride	ug/L	20	16.9	85	64-129	
Tetrachloroethene	ug/L	20	18.5	92	73-125	
Toluene	ug/L	20	17.5	88	69-126	
trans-1,2-Dichloroethene	ug/L	20	16.2	81	66-129	
Trichloroethene	ug/L	20	16.8	84	71-123	
Vinyl chloride	ug/L	20	12.0	60	43-129	
Xylene (Total)	ug/L	60	56.1	93	75-121	N2
1,2-Dichloroethane-d4 (S)	%			96	80-120	
4-Bromofluorobenzene (S)	%			98	80-120	
Toluene-d8 (S)	%			95	80-120	

MATRIX SPIKE SAMPLE: 1397050

Parameter	Units	60171645001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	3720	74	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	4590	92	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	4110	82	52-143	
1,2-Dichloroethane	ug/L	ND	5000	3640	73	49-144	
1,4-Dichlorobenzene	ug/L	464	5000	4430	79	33-140	
2-Butanone (MEK)	ug/L	43500	25000	67500	96	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	22700	88	40-160	N2
Acetone	ug/L	100000	25000	126000	102	10-160	N2
Benzene	ug/L	ND	5000	3770	75	37-151	
Bromodichloromethane	ug/L	ND	5000	3900	78	35-142	
Bromoform	ug/L	ND	5000	4410	88	45-142	
Bromomethane	ug/L	ND	5000	1600	32	10-158	
Carbon tetrachloride	ug/L	ND	5000	3820	76	70-140	
Chloroethane	ug/L	ND	5000	3250	65	19-152	
Chloroform	ug/L	ND	5000	3640	73	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	3870	77	34-147	N2
Ethylbenzene	ug/L	ND	5000	4070	81	40-142	
Methylene chloride	ug/L	ND	5000	3590	71	31-144	
Tetrachloroethene	ug/L	ND	5000	4250	85	64-148	
Toluene	ug/L	ND	5000	3710	74	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	3570	71	54-151	
Trichloroethene	ug/L	ND	5000	3690	74	71-149	
Vinyl chloride	ug/L	ND	5000	2390	48	22-146	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 06-17-14

Pace Project No.: 60171810

MATRIX SPIKE SAMPLE:		1397050					
Parameter	Units	60171645001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	ND	15000	11900	79	37-144	N2
1,2-Dichloroethane-d4 (S)	%				94	80-120	
4-Bromofluorobenzene (S)	%				100	80-120	
Toluene-d8 (S)	%				94	80-120	
Preservation pH		6.0		6.0			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 06-17-14

Pace Project No.: 60171810

QC Batch:	OEXT/44751	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60171810001		

METHOD BLANK: 1397451 Matrix: Water

Associated Lab Samples: 60171810001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/23/14 17:52	
2,4,6-Trichlorophenol	ug/L	ND	5.0	06/23/14 17:52	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	06/23/14 17:52	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	06/23/14 17:52	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	06/23/14 17:52	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/23/14 17:52	
Hexachlorocyclopentadiene	ug/L	ND	5.0	06/23/14 17:52	
Hexachloroethane	ug/L	ND	5.0	06/23/14 17:52	
Naphthalene	ug/L	ND	5.0	06/23/14 17:52	
Nitrobenzene	ug/L	ND	5.0	06/23/14 17:52	
Pentachlorophenol	ug/L	ND	5.0	06/23/14 17:52	
Phenol	ug/L	ND	5.0	06/23/14 17:52	
2,4,6-Tribromophenol (S)	%	81	39-120	06/23/14 17:52	
2-Fluorobiphenyl (S)	%	78	39-120	06/23/14 17:52	
2-Fluorophenol (S)	%	47	17-120	06/23/14 17:52	
Nitrobenzene-d5 (S)	%	85	33-120	06/23/14 17:52	
Phenol-d6 (S)	%	33	11-120	06/23/14 17:52	
Terphenyl-d14 (S)	%	80	45-120	06/23/14 17:52	

LABORATORY CONTROL SAMPLE: 1397452

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	39.5	79	46-120	
2,4,6-Trichlorophenol	ug/L	50	43.7	87	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	34.1	68	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	31.6	63	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	46.0	92	40-133	
Hexachloro-1,3-butadiene	ug/L	50	37.5	75	44-116	
Hexachlorocyclopentadiene	ug/L	100	66.4	66	24-120	
Hexachloroethane	ug/L	50	37.2	74	43-113	
Naphthalene	ug/L	50	39.8	80	48-120	
Nitrobenzene	ug/L	50	44.1	88	48-120	
Pentachlorophenol	ug/L	50	48.4	97	47-120	
Phenol	ug/L	50	19.0	38	16-112	
2,4,6-Tribromophenol (S)	%			97	39-120	
2-Fluorobiphenyl (S)	%			83	39-120	
2-Fluorophenol (S)	%			52	17-120	
Nitrobenzene-d5 (S)	%			87	33-120	
Phenol-d6 (S)	%			37	11-120	
Terphenyl-d14 (S)	%			87	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 06-17-14

Pace Project No.: 60171810

MATRIX SPIKE SAMPLE:		1397458					
Parameter	Units	60171756001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	<0.73	50	42.2	84	44-120	
2,4,6-Trichlorophenol	ug/L	<1.5	50	43.7	87	50-120	
2-Methylphenol(o-Cresol)	ug/L	<0.88	50	35.3	71	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	<0.78	50	32.5	65	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	<0.71	50	64.6	129	10-160	
Hexachloro-1,3-butadiene	ug/L	<0.98	50	42.5	85	39-116	
Hexachlorocyclopentadiene	ug/L	<2.1	100	69.5	70	11-120	
Hexachloroethane	ug/L	<0.62	50	41.3	83	40-113	
Naphthalene	ug/L	<0.58	50	41.0	82	45-120	
Nitrobenzene	ug/L	<0.65	50	43.0	86	38-120	
Pentachlorophenol	ug/L	<1.7	50	49.5	99	43-135	
Phenol	ug/L	<0.51	50	17.2	34	13-112	
2,4,6-Tribromophenol (S)	%				103	39-120	
2-Fluorobiphenyl (S)	%				84	39-120	
2-Fluorophenol (S)	%				49	17-120	
Nitrobenzene-d5 (S)	%				91	33-120	
Phenol-d6 (S)	%				33	11-120	
Terphenyl-d14 (S)	%				88	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 06-17-14

Pace Project No.: 60171810

QC Batch:	WET/48592	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60171810001		

METHOD BLANK: 1398247 Matrix: Water
Associated Lab Samples: 60171810001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	06/20/14 17:45	

LABORATORY CONTROL SAMPLE: 1398248

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	33.1	83	78-114	

MATRIX SPIKE SAMPLE: 1398249

Parameter	Units	60171755001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	73.3	51.9	89.5	31	78-114	M1

SAMPLE DUPLICATE: 1398250

Parameter	Units	60171367001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	204	210	3	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 06-17-14

Pace Project No.: 60171810

QC Batch:	WET/48593	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60171810001		

METHOD BLANK: 1398251 Matrix: Water
Associated Lab Samples: 60171810001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	06/20/14 17:52	

LABORATORY CONTROL SAMPLE: 1398252

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	23.1	116	64-132	

MATRIX SPIKE SAMPLE: 1398253

Parameter	Units	60171755001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	19.7	26	26.8	27	64-132	M1

SAMPLE DUPLICATE: 1398254

Parameter	Units	60171367001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	4.2J		34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 06-17-14

Pace Project No.: 60171810

QC Batch: WET/48584

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60171810001

METHOD BLANK: 1397860

Matrix: Water

Associated Lab Samples: 60171810001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	06/20/14 13:13	

SAMPLE DUPLICATE: 1397861

Parameter	Units	60171833001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	9.0	8.0	12	10	D6

SAMPLE DUPLICATE: 1397862

Parameter	Units	60171847002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	19.0	20.0	5	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 06-17-14

Pace Project No.: 60171810

QC Batch: WET/48614 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60171810001

SAMPLE DUPLICATE: 1399171

Parameter	Units	60171566001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.9	7.9	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 06-17-14

Pace Project No.: 60171810

QC Batch: WET/48564

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60171810001

METHOD BLANK: 1397233

Matrix: Water

Associated Lab Samples: 60171810001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	06/24/14 11:02	

LABORATORY CONTROL SAMPLE: 1397234

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	221	111	85-115	

SAMPLE DUPLICATE: 1397235

Parameter	Units	60171797001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	588	621	5	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 06-17-14

Pace Project No.: 60171810

QC Batch:	WETA/29937	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60171810001		

METHOD BLANK: 1399070 Matrix: Water
Associated Lab Samples: 60171810001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	06/23/14 09:43	

LABORATORY CONTROL SAMPLE: 1399071

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	103	90-110	

MATRIX SPIKE SAMPLE: 1399072

Parameter	Units	60171009003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2.7	2	4.4	86	90-110	M1

SAMPLE DUPLICATE: 1399073

Parameter	Units	60171556001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	545	551	1	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 06-17-14

Pace Project No.: 60171810

QC Batch:	WETA/29965	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60171810001		

METHOD BLANK: 1399687 Matrix: Water
Associated Lab Samples: 60171810001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	06/25/14 10:14	

LABORATORY CONTROL SAMPLE: 1399688

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	45.5	91	90-110	

MATRIX SPIKE SAMPLE: 1399689

Parameter	Units	60171337001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	77.0	50	122	90	90-110	

MATRIX SPIKE SAMPLE: 1399691

Parameter	Units	60171241002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	568	500	1040	95	90-110	

SAMPLE DUPLICATE: 1399690

Parameter	Units	60171766001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	27.4	27.1	1	25	

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QUALIFIERS

Project: BRIDGETON LF CB 06-17-14

Pace Project No.: 60171810

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.

PQL - Practical Quantitation 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.

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D6 The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

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.

N2 The lab does not hold TNI accreditation for this parameter.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF CB 06-17-14

Pace Project No.: 60171810

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60171810001	CB 06-17-14	EPA 200.7	MPRP/27763	EPA 200.7	ICP/20995
60171810001	CB 06-17-14	EPA 200.7	MPRP/27771	EPA 200.7	ICP/20997
60171810001	CB 06-17-14	EPA 245.1	MERP/8514	EPA 245.1	MERC/8469
60171810001	CB 06-17-14	EPA 245.1	MERP/8529	EPA 245.1	MERC/8484
60171810001	CB 06-17-14	EPA 625	OEXT/44751	EPA 625	MSSV/14337
60171810001	CB 06-17-14	EPA 624 Low	MSV/62417		
60171810002	TRIP BLANK	EPA 624 Low	MSV/62417		
60171810001	CB 06-17-14	EPA 1664A	WET/48592		
60171810001	CB 06-17-14	EPA 1664A	WET/48593		
60171810001	CB 06-17-14	SM 2540D	WET/48584		
60171810001	CB 06-17-14	SM 4500-H+B	WET/48614		
60171810001	CB 06-17-14	SM 5210B	WET/48564	SM 5210B	WET/48656
60171810001	CB 06-17-14	EPA 350.1	WETA/29937		
60171810001	CB 06-17-14	EPA 410.4	WETA/29965		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60171810

 60171810

Client Name: Baw Engineering

Courier: Fed Ex UPS USPS Client Commercial Pace Other Crossroads

Tracking #: _____ Pace Shipping Label Used? Yes No

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other ZOLL

Thermometer Used: T-239 / T-194 Type of Ice: Wet Blue None Samples received on ice, cooling process has begun.
 (circle one)

Cooler Temperature: 5.4
 Temperature should be above freezing to 6°C

Date and initials of person examining contents: AT 6/19

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>BOD, pH</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix: <u>WT</u>		13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	BP35 initial pH 4.0 added 2.5 ml H2SO4 final pH 2.0 BP35 initial pH 4.5 added 2.5 ml HNO3 final pH 2.5
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: <u>VOA</u> , coliform, TOC, <u>O&G</u> WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	14.
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Initial when completed <u>AT</u> Lot # of added preservative <u>10590-2-1 12513-2-3-2</u>
Pace Trip Blank lot # (if purchased): <u>covered</u>		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <u>MO</u>

Client Notification/ Resolution: Copy COC to Client? Y N Field Data Required? Y N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: [Signature]

June 27, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-335
Pace Project No.: 60171928

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 20, 2014. 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,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Bill Abernathy, Feezor Engineering
Kelly Caddy, Barr Engineering
DAN FEEZOR, FEEZOR ENGINEERING
Dana B. Pasi, Barr Engineering Co.
Brian Power, Republic Services
Brian Sehie, Republic Services
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-335

Pace Project No.: 60171928

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-13-4

Utah Certification #: KS000212013-3

Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-335

Pace Project No.: 60171928

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60171928001	316-335	Water	06/19/14 08:30	06/20/14 01:00
60171928002	TRIP BLANK	Water	06/19/14 08:30	06/20/14 01:00

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-335

Pace Project No.: 60171928

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60171928001	316-335	EPA 200.7	NDJ	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	CRT	1
		EPA 1664A	CRT	1
		SM 2540D	ESM	1
		SM 4500-H+B	NDL	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC1	1
60171928002	TRIP BLANK	EPA 624 Low	EAK	28

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-335

Pace Project No.: 60171928

Sample: 316-335		Lab ID: 60171928001	Collected: 06/19/14 08:30	Received: 06/20/14 01:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	14800	ug/L	750	2	06/24/14 06:33	06/24/14 14:37	7429-90-5	
Antimony	83.2	ug/L	50.0	1	06/24/14 06:33	06/24/14 14:34	7440-36-0	
Arsenic	1280	ug/L	50.0	1	06/24/14 06:33	06/24/14 14:34	7440-38-2	
Beryllium	ND	ug/L	5.0	1	06/24/14 06:33	06/24/14 14:34	7440-41-7	
Cadmium	ND	ug/L	25.0	1	06/24/14 06:33	06/24/14 14:34	7440-43-9	
Chromium	259	ug/L	25.0	1	06/24/14 06:33	06/24/14 14:34	7440-47-3	
Cobalt	43.2	ug/L	25.0	1	06/24/14 06:33	06/24/14 14:34	7440-48-4	
Copper	ND	ug/L	50.0	1	06/24/14 06:33	06/24/14 14:34	7440-50-8	
Iron	793000	ug/L	250	1	06/24/14 06:33	06/24/14 14:34	7439-89-6	M1
Lead	116	ug/L	25.0	1	06/24/14 06:33	06/24/14 14:34	7439-92-1	
Nickel	145	ug/L	25.0	1	06/24/14 06:33	06/24/14 14:34	7440-02-0	
Selenium	ND	ug/L	75.0	1	06/24/14 06:33	06/24/14 14:34	7782-49-2	
Silver	ND	ug/L	35.0	1	06/24/14 06:33	06/24/14 14:34	7440-22-4	
Thallium	ND	ug/L	100	1	06/24/14 06:33	06/24/14 14:34	7440-28-0	
Zinc	4560	ug/L	500	2	06/24/14 06:33	06/24/14 14:37	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	1290	ug/L	750	2	06/24/14 06:04	06/24/14 18:42	7429-90-5	
Antimony, Dissolved	74.9	ug/L	50.0	1	06/24/14 06:04	06/24/14 18:40	7440-36-0	
Arsenic, Dissolved	1030	ug/L	50.0	1	06/24/14 06:04	06/24/14 18:40	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	06/24/14 06:04	06/24/14 18:40	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	06/24/14 06:04	06/24/14 18:40	7440-43-9	
Chromium, Dissolved	160	ug/L	25.0	1	06/24/14 06:04	06/24/14 18:40	7440-47-3	
Cobalt, Dissolved	25.8	ug/L	25.0	1	06/24/14 06:04	06/24/14 18:40	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	06/24/14 06:04	06/24/14 18:40	7440-50-8	
Iron, Dissolved	306000	ug/L	250	1	06/24/14 06:04	06/24/14 18:40	7439-89-6	
Lead, Dissolved	28.8	ug/L	25.0	1	06/24/14 06:04	06/24/14 18:40	7439-92-1	
Nickel, Dissolved	98.1	ug/L	25.0	1	06/24/14 06:04	06/24/14 18:40	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	06/24/14 06:04	06/24/14 18:40	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	06/24/14 06:04	06/24/14 18:40	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	06/24/14 06:04	06/24/14 18:40	7440-28-0	
Zinc, Dissolved	3410	ug/L	500	2	06/24/14 06:04	06/24/14 18:42	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	ND	ug/L	6.0	1	06/22/14 12:00	06/22/14 19:25	7439-97-6	
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND	ug/L	6.0	1	06/25/14 10:30	06/25/14 14:10	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Phenol	7370	ug/L	1000	2	06/20/14 00:00	06/23/14 19:56	108-95-2	
2-Methylphenol(o-Cresol)	ND	ug/L	2000	2	06/20/14 00:00	06/23/14 19:56	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	6080	ug/L	4000	2	06/20/14 00:00	06/23/14 19:56		N2
Nitrobenzene	ND	ug/L	1000	2	06/20/14 00:00	06/23/14 19:56	98-95-3	
1,2,4-Trichlorobenzene	ND	ug/L	1000	2	06/20/14 00:00	06/23/14 19:56	120-82-1	
Naphthalene	1470	ug/L	1000	2	06/20/14 00:00	06/23/14 19:56	91-20-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-335

Pace Project No.: 60171928

Sample: 316-335		Lab ID: 60171928001	Collected: 06/19/14 08:30	Received: 06/20/14 01:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Hexachloro-1,3-butadiene	ND ug/L		1000	2	06/20/14 00:00	06/23/14 19:56	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	06/20/14 00:00	06/23/14 19:56	77-47-4	
2,4,6-Trichlorophenol	ND ug/L		1000	2	06/20/14 00:00	06/23/14 19:56	88-06-2	
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	06/20/14 00:00	06/23/14 19:56	534-52-1	
Pentachlorophenol	ND ug/L		1000	2	06/20/14 00:00	06/23/14 19:56	87-86-5	
Hexachloroethane	ND ug/L		1000	2	06/20/14 00:00	06/23/14 19:56	67-72-1	
Surrogates								
Nitrobenzene-d5 (S)	116 %		33-120	2	06/20/14 00:00	06/23/14 19:56	4165-60-0	
2-Fluorobiphenyl (S)	92 %		39-120	2	06/20/14 00:00	06/23/14 19:56	321-60-8	
Terphenyl-d14 (S)	91 %		45-120	2	06/20/14 00:00	06/23/14 19:56	1718-51-0	
Phenol-d6 (S)	27 %		11-120	2	06/20/14 00:00	06/23/14 19:56	13127-88-3	
2-Fluorophenol (S)	41 %		17-120	2	06/20/14 00:00	06/23/14 19:56	367-12-4	
2,4,6-Tribromophenol (S)	112 %		39-120	2	06/20/14 00:00	06/23/14 19:56	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	84100 ug/L		2500	250		06/25/14 16:50	67-64-1	N2
Benzene	ND ug/L		250	250		06/25/14 16:50	71-43-2	
Bromodichloromethane	ND ug/L		250	250		06/25/14 16:50	75-27-4	
Bromoform	ND ug/L		250	250		06/25/14 16:50	75-25-2	
Bromomethane	ND ug/L		1250	250		06/25/14 16:50	74-83-9	
2-Butanone (MEK)	37800 ug/L		2500	250		06/25/14 16:50	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		06/25/14 16:50	56-23-5	
Chloroethane	ND ug/L		250	250		06/25/14 16:50	75-00-3	
Chloroform	ND ug/L		250	250		06/25/14 16:50	67-66-3	
1,4-Dichlorobenzene	301 ug/L		250	250		06/25/14 16:50	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		06/25/14 16:50	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		06/25/14 16:50	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		06/25/14 16:50	156-60-5	
Ethylbenzene	ND ug/L		250	250		06/25/14 16:50	100-41-4	
Methylene chloride	ND ug/L		250	250		06/25/14 16:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		06/25/14 16:50	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		06/25/14 16:50	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		06/25/14 16:50	127-18-4	
Toluene	ND ug/L		250	250		06/25/14 16:50	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		06/25/14 16:50	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		06/25/14 16:50	79-00-5	
Trichloroethene	ND ug/L		250	250		06/25/14 16:50	79-01-6	
Vinyl chloride	ND ug/L		250	250		06/25/14 16:50	75-01-4	
Xylene (Total)	ND ug/L		750	250		06/25/14 16:50	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	97 %		80-120	250		06/25/14 16:50	460-00-4	HS
Toluene-d8 (S)	95 %		80-120	250		06/25/14 16:50	2037-26-5	
1,2-Dichloroethane-d4 (S)	89 %		80-120	250		06/25/14 16:50	17060-07-0	
Preservation pH	6.0		1.0	250		06/25/14 16:50		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	1010 mg/L		5.0	1		06/24/14 15:25		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-335

Pace Project No.: 60171928

Sample: 316-335		Lab ID: 60171928001	Collected: 06/19/14 08:30	Received: 06/20/14 01:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	18.8	mg/L	5.0	1		06/24/14 15:39		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	5020	mg/L	5.0	1		06/23/14 14:26		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.4	Std. Units	0.10	1		06/23/14 11:00		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	30500	mg/L	2.0	1	06/20/14 15:21	06/25/14 16:27		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	587	mg/L	20.0	200		06/23/14 09:57	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	47200	mg/L	5000	500		06/26/14 10:13		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-335

Pace Project No.: 60171928

Sample: TRIP BLANK		Lab ID: 60171928002	Collected: 06/19/14 08:30	Received: 06/20/14 01:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		06/25/14 15:01	67-64-1	N2
Benzene	ND ug/L		1.0	1		06/25/14 15:01	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		06/25/14 15:01	75-27-4	
Bromoform	ND ug/L		1.0	1		06/25/14 15:01	75-25-2	
Bromomethane	ND ug/L		5.0	1		06/25/14 15:01	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/25/14 15:01	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		06/25/14 15:01	56-23-5	
Chloroethane	ND ug/L		1.0	1		06/25/14 15:01	75-00-3	
Chloroform	ND ug/L		1.0	1		06/25/14 15:01	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		06/25/14 15:01	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		06/25/14 15:01	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		06/25/14 15:01	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		06/25/14 15:01	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		06/25/14 15:01	100-41-4	
Methylene chloride	ND ug/L		1.0	1		06/25/14 15:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/25/14 15:01	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		06/25/14 15:01	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		06/25/14 15:01	127-18-4	
Toluene	ND ug/L		1.0	1		06/25/14 15:01	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		06/25/14 15:01	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		06/25/14 15:01	79-00-5	
Trichloroethene	ND ug/L		1.0	1		06/25/14 15:01	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		06/25/14 15:01	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		06/25/14 15:01	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	96 %		80-120	1		06/25/14 15:01	460-00-4	
Toluene-d8 (S)	96 %		80-120	1		06/25/14 15:01	2037-26-5	
1,2-Dichloroethane-d4 (S)	89 %		80-120	1		06/25/14 15:01	17060-07-0	
Preservation pH	6.0		1.0	1		06/25/14 15:01		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-335

Pace Project No.: 60171928

QC Batch:	MERP/8514	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
Associated Lab Samples:	60171928001		

METHOD BLANK: 1398965 Matrix: Water
Associated Lab Samples: 60171928001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	06/22/14 18:56	

LABORATORY CONTROL SAMPLE: 1398966

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1398967 1398968

Parameter	Units	60171556001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Mercury	ug/L	ND	150	150	148	149	98	98	70-130	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-335

Pace Project No.: 60171928

QC Batch: MERP/8529

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60171928001

METHOD BLANK: 1400587

Matrix: Water

Associated Lab Samples: 60171928001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	06/25/14 13:57	

LABORATORY CONTROL SAMPLE: 1400588

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.6	93	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1400589 1400590

Parameter	Units	60171807001		MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		Result	ND	Spike Conc.	Conc.	Result	Result	% Rec	% Rec	RPD	RPD			
Mercury, Dissolved	ug/L	ND	150	150	126	128	84	85	70-130	2	20			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-335

Pace Project No.: 60171928

QC Batch:	MPRP/27769	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
Associated Lab Samples:	60171928001		

METHOD BLANK: 1399544 Matrix: Water

Associated Lab Samples: 60171928001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	06/24/14 14:05	
Antimony	ug/L	ND	10.0	06/24/14 14:05	
Arsenic	ug/L	ND	10.0	06/24/14 14:05	
Beryllium	ug/L	ND	1.0	06/24/14 14:05	
Cadmium	ug/L	ND	5.0	06/24/14 14:05	
Chromium	ug/L	ND	5.0	06/24/14 14:05	
Cobalt	ug/L	ND	5.0	06/24/14 14:05	
Copper	ug/L	ND	10.0	06/24/14 14:05	
Iron	ug/L	ND	50.0	06/24/14 14:05	
Lead	ug/L	ND	5.0	06/24/14 14:05	
Nickel	ug/L	ND	5.0	06/24/14 14:05	
Selenium	ug/L	ND	15.0	06/24/14 14:05	
Silver	ug/L	ND	7.0	06/24/14 14:05	
Thallium	ug/L	ND	20.0	06/24/14 14:05	
Zinc	ug/L	ND	50.0	06/24/14 14:05	

LABORATORY CONTROL SAMPLE: 1399545

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9960	100	85-115	
Antimony	ug/L	1000	1020	102	85-115	
Arsenic	ug/L	1000	972	97	85-115	
Beryllium	ug/L	1000	1020	102	85-115	
Cadmium	ug/L	1000	1000	100	85-115	
Chromium	ug/L	1000	1000	100	85-115	
Cobalt	ug/L	1000	1020	102	85-115	
Copper	ug/L	1000	1010	101	85-115	
Iron	ug/L	10000	10100	101	85-115	
Lead	ug/L	1000	1030	103	85-115	
Nickel	ug/L	1000	1030	103	85-115	
Selenium	ug/L	1000	1000	100	85-115	
Silver	ug/L	500	495	99	85-115	
Thallium	ug/L	1000	1020	102	85-115	
Zinc	ug/L	1000	1010	101	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-335
Pace Project No.: 60171928

MATRIX SPIKE SAMPLE:		1399546					
Parameter	Units	60171911002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	ND	10000	10100	101	70-130	
Antimony	ug/L	ND	1000	1050	105	70-130	
Arsenic	ug/L	ND	1000	1010	101	70-130	
Beryllium	ug/L	ND	1000	1040	104	70-130	
Cadmium	ug/L	ND	1000	1020	102	70-130	
Chromium	ug/L	ND	1000	1000	100	70-130	
Cobalt	ug/L	ND	1000	1020	102	70-130	
Copper	ug/L	28.8	1000	1060	103	70-130	
Iron	ug/L	940	10000	11000	100	70-130	
Lead	ug/L	ND	1000	1020	102	70-130	
Nickel	ug/L	10.8	1000	1040	103	70-130	
Selenium	ug/L	ND	1000	1030	102	70-130	
Silver	ug/L	ND	500	503	101	70-130	
Thallium	ug/L	ND	1000	1000	100	70-130	
Zinc	ug/L	57.2	1000	1060	100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1399547		1399548								
Parameter	Units	60171928001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	14800	50000	50000	75300	76100	121	123	70-130	1	8	
Antimony	ug/L	83.2	5000	5000	5400	5460	106	108	70-130	1	7	
Arsenic	ug/L	1280	5000	5000	6940	6980	113	114	70-130	0	10	
Beryllium	ug/L	ND	5000	5000	4970	5020	99	100	70-130	1	7	
Cadmium	ug/L	ND	5000	5000	5310	5370	106	107	70-130	1	10	
Chromium	ug/L	259	5000	5000	5200	5180	99	99	70-130	0	10	
Cobalt	ug/L	43.2	5000	5000	4900	4940	97	98	70-130	1	6	
Copper	ug/L	ND	5000	5000	5480	5420	109	108	70-130	1	11	
Iron	ug/L	793000	50000	50000	844000	876000	102	165	70-130	4	10 M1	
Lead	ug/L	116	5000	5000	4740	4790	92	93	70-130	1	10	
Nickel	ug/L	145	5000	5000	4990	5040	97	98	70-130	1	10	
Selenium	ug/L	ND	5000	5000	6060	6120	121	122	70-130	1	10	
Silver	ug/L	ND	2500	2500	2680	2660	107	106	70-130	1	10	
Thallium	ug/L	ND	5000	5000	4200	4230	84	85	70-130	1	6	
Zinc	ug/L	4560	5000	5000	9490	9540	99	100	70-130	1	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-335
Pace Project No.: 60171928

QC Batch: MPRP/27771 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60171928001

METHOD BLANK: 1399572 Matrix: Water
Associated Lab Samples: 60171928001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	06/24/14 18:14	
Antimony, Dissolved	ug/L	ND	10.0	06/24/14 18:14	
Arsenic, Dissolved	ug/L	ND	10.0	06/24/14 18:14	
Beryllium, Dissolved	ug/L	ND	1.0	06/24/14 18:14	
Cadmium, Dissolved	ug/L	ND	5.0	06/24/14 18:14	
Chromium, Dissolved	ug/L	ND	5.0	06/24/14 18:14	
Cobalt, Dissolved	ug/L	ND	5.0	06/24/14 18:14	
Copper, Dissolved	ug/L	ND	10.0	06/24/14 18:14	
Iron, Dissolved	ug/L	ND	50.0	06/24/14 18:14	
Lead, Dissolved	ug/L	ND	5.0	06/24/14 18:14	
Nickel, Dissolved	ug/L	ND	5.0	06/24/14 18:14	
Selenium, Dissolved	ug/L	ND	15.0	06/24/14 18:14	
Silver, Dissolved	ug/L	ND	7.0	06/24/14 18:14	
Thallium, Dissolved	ug/L	ND	20.0	06/24/14 18:14	
Zinc, Dissolved	ug/L	ND	50.0	06/24/14 18:14	

LABORATORY CONTROL SAMPLE: 1399573

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10400	104	85-115	
Antimony, Dissolved	ug/L	1000	1100	110	85-115	
Arsenic, Dissolved	ug/L	1000	1020	102	85-115	
Beryllium, Dissolved	ug/L	1000	1030	103	85-115	
Cadmium, Dissolved	ug/L	1000	1030	103	85-115	
Chromium, Dissolved	ug/L	1000	976	98	85-115	
Cobalt, Dissolved	ug/L	1000	1040	104	85-115	
Copper, Dissolved	ug/L	1000	1080	108	85-115	
Iron, Dissolved	ug/L	10000	9640	96	85-115	
Lead, Dissolved	ug/L	1000	1060	106	85-115	
Nickel, Dissolved	ug/L	1000	1070	107	85-115	
Selenium, Dissolved	ug/L	1000	1080	108	85-115	
Silver, Dissolved	ug/L	500	504	101	85-115	
Thallium, Dissolved	ug/L	1000	1060	106	85-115	
Zinc, Dissolved	ug/L	1000	963	96	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-335

Pace Project No.: 60171928

Parameter	Units	60171807001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec								
Aluminum, Dissolved	ug/L	1720	50000	50000	54000	54000	105	105	70-130	0	8					
Antimony, Dissolved	ug/L	60.6	5000	5000	5670	5680	112	112	70-130	0	7					
Arsenic, Dissolved	ug/L	1090	5000	5000	6790	6840	114	115	70-130	1	10					
Beryllium, Dissolved	ug/L	ND	5000	5000	4900	4910	98	98	70-130	0	7					
Cadmium, Dissolved	ug/L	ND	5000	5000	5320	5330	106	107	70-130	0	10					
Chromium, Dissolved	ug/L	154	5000	5000	4810	4850	93	94	70-130	1	10					
Cobalt, Dissolved	ug/L	ND	5000	5000	4860	4850	97	97	70-130	0	6					
Copper, Dissolved	ug/L	ND	5000	5000	5680	5720	113	114	70-130	1	11					
Iron, Dissolved	ug/L	293000	50000	50000	346000	367000	106	148	70-130	6	10 M1					
Lead, Dissolved	ug/L	ND	5000	5000	4700	4680	94	93	70-130	0	10					
Nickel, Dissolved	ug/L	91.4	5000	5000	4960	4950	97	97	70-130	0	10					
Selenium, Dissolved	ug/L	ND	5000	5000	6320	6360	126	127	70-130	1	10					
Silver, Dissolved	ug/L	ND	2500	2500	2650	2690	105	107	70-130	2	10					
Thallium, Dissolved	ug/L	ND	5000	5000	4280	4260	86	85	70-130	1	6					
Zinc, Dissolved	ug/L	3110	5000	5000	7730	7900	92	96	70-130	2	11					

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-335

Pace Project No.: 60171928

QC Batch: MSV/62571 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60171928001, 60171928002

METHOD BLANK: 1400773 Matrix: Water

Associated Lab Samples: 60171928001, 60171928002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/25/14 12:41	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/25/14 12:41	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	06/25/14 12:41	
1,2-Dichloroethane	ug/L	ND	1.0	06/25/14 12:41	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/25/14 12:41	
2-Butanone (MEK)	ug/L	ND	10.0	06/25/14 12:41	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/25/14 12:41	N2
Acetone	ug/L	ND	10.0	06/25/14 12:41	N2
Benzene	ug/L	ND	1.0	06/25/14 12:41	
Bromodichloromethane	ug/L	ND	1.0	06/25/14 12:41	
Bromoform	ug/L	ND	1.0	06/25/14 12:41	
Bromomethane	ug/L	ND	5.0	06/25/14 12:41	
Carbon tetrachloride	ug/L	ND	1.0	06/25/14 12:41	
Chloroethane	ug/L	ND	1.0	06/25/14 12:41	
Chloroform	ug/L	ND	1.0	06/25/14 12:41	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/25/14 12:41	N2
Ethylbenzene	ug/L	ND	1.0	06/25/14 12:41	
Methylene chloride	ug/L	ND	1.0	06/25/14 12:41	
Tetrachloroethene	ug/L	ND	1.0	06/25/14 12:41	
Toluene	ug/L	ND	1.0	06/25/14 12:41	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/25/14 12:41	
Trichloroethene	ug/L	ND	1.0	06/25/14 12:41	
Vinyl chloride	ug/L	ND	1.0	06/25/14 12:41	
Xylene (Total)	ug/L	ND	3.0	06/25/14 12:41	N2
1,2-Dichloroethane-d4 (S)	%	97	80-120	06/25/14 12:41	
4-Bromofluorobenzene (S)	%	99	80-120	06/25/14 12:41	
Toluene-d8 (S)	%	98	80-120	06/25/14 12:41	

LABORATORY CONTROL SAMPLE: 1400774

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.5	102	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	22.4	112	67-127	N2
1,1,2-Trichloroethane	ug/L	20	23.2	116	67-124	
1,2-Dichloroethane	ug/L	20	20.0	100	70-126	
1,4-Dichlorobenzene	ug/L	20	21.5	108	74-120	
2-Butanone (MEK)	ug/L	100	105	105	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	113	113	59-131	N2
Acetone	ug/L	100	96.7	97	38-134	N2
Benzene	ug/L	20	21.3	106	75-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-335

Pace Project No.: 60171928

LABORATORY CONTROL SAMPLE: 1400774

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	20	22.5	113	68-125	
Bromoform	ug/L	20	23.3	116	65-127	
Bromomethane	ug/L	20	11.7	59	13-157	
Carbon tetrachloride	ug/L	20	20.0	100	70-131	
Chloroethane	ug/L	20	23.4	117	47-133	
Chloroform	ug/L	20	20.4	102	65-127	
cis-1,2-Dichloroethene	ug/L	20	21.9	109	68-127	N2
Ethylbenzene	ug/L	20	22.0	110	74-122	
Methylene chloride	ug/L	20	19.7	98	64-129	
Tetrachloroethene	ug/L	20	22.6	113	73-125	
Toluene	ug/L	20	20.8	104	69-126	
trans-1,2-Dichloroethene	ug/L	20	20.6	103	66-129	
Trichloroethene	ug/L	20	21.8	109	71-123	
Vinyl chloride	ug/L	20	20.5	102	43-129	
Xylene (Total)	ug/L	60	65.5	109	75-121	N2
1,2-Dichloroethane-d4 (S)	%			92	80-120	
4-Bromofluorobenzene (S)	%			98	80-120	
Toluene-d8 (S)	%			96	80-120	

MATRIX SPIKE SAMPLE: 1400775

Parameter	Units	60171928001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	4750	95	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	5240	105	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	5280	106	52-143	
1,2-Dichloroethane	ug/L	ND	5000	4360	87	49-144	
1,4-Dichlorobenzene	ug/L	301	5000	5170	97	33-140	
2-Butanone (MEK)	ug/L	37800	25000	61200	94	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	25500	100	40-160	N2
Acetone	ug/L	84100	25000	108000	97	10-160	N2
Benzene	ug/L	ND	5000	4830	95	37-151	
Bromodichloromethane	ug/L	ND	5000	4890	98	35-142	
Bromoform	ug/L	ND	5000	5380	108	45-142	
Bromomethane	ug/L	ND	5000	2010	40	10-158	
Carbon tetrachloride	ug/L	ND	5000	5010	100	70-140	
Chloroethane	ug/L	ND	5000	5060	101	19-152	
Chloroform	ug/L	ND	5000	4630	93	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	4800	96	34-147	N2
Ethylbenzene	ug/L	ND	5000	5100	102	40-142	
Methylene chloride	ug/L	ND	5000	4380	87	31-144	
Tetrachloroethene	ug/L	ND	5000	5410	108	64-148	
Toluene	ug/L	ND	5000	4730	92	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	4620	92	54-151	
Trichloroethene	ug/L	ND	5000	4640	93	71-149	
Vinyl chloride	ug/L	ND	5000	4850	97	22-146	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-335

Pace Project No.: 60171928

MATRIX SPIKE SAMPLE:		1400775					
Parameter	Units	60171928001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	ND	15000	15600	104	37-144	N2
1,2-Dichloroethane-d4 (S)	%				90	80-120	
4-Bromofluorobenzene (S)	%				99	80-120	HS
Toluene-d8 (S)	%				95	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-335
Pace Project No.: 60171928

QC Batch: OEXT/44760 Analysis Method: EPA 625
QC Batch Method: EPA 625 Analysis Description: 625 MSS
Associated Lab Samples: 60171928001

METHOD BLANK: 1397817 Matrix: Water
Associated Lab Samples: 60171928001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/21/14 13:21	
2,4,6-Trichlorophenol	ug/L	ND	5.0	06/21/14 13:21	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	06/21/14 13:21	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	06/21/14 13:21	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	06/21/14 13:21	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/21/14 13:21	
Hexachlorocyclopentadiene	ug/L	ND	5.0	06/23/14 19:15	
Hexachloroethane	ug/L	ND	5.0	06/21/14 13:21	
Naphthalene	ug/L	ND	5.0	06/21/14 13:21	
Nitrobenzene	ug/L	ND	5.0	06/21/14 13:21	
Pentachlorophenol	ug/L	ND	5.0	06/21/14 13:21	
Phenol	ug/L	ND	5.0	06/21/14 13:21	
2,4,6-Tribromophenol (S)	%	73	39-120	06/21/14 13:21	
2-Fluorobiphenyl (S)	%	71	39-120	06/21/14 13:21	
2-Fluorophenol (S)	%	35	17-120	06/21/14 13:21	
Nitrobenzene-d5 (S)	%	69	33-120	06/21/14 13:21	
Phenol-d6 (S)	%	21	11-120	06/21/14 13:21	
Terphenyl-d14 (S)	%	72	45-120	06/21/14 13:21	

LABORATORY CONTROL SAMPLE: 1397818

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	42.1	84	46-120	
2,4,6-Trichlorophenol	ug/L	50	43.7	87	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	30.6	61	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	27.3	55	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	49.6	99	40-133	
Hexachloro-1,3-butadiene	ug/L	50	38.0	76	44-116	
Hexachlorocyclopentadiene	ug/L	100	76.7	77	24-120	
Hexachloroethane	ug/L	50	38.2	76	43-113	
Naphthalene	ug/L	50	41.4	83	48-120	
Nitrobenzene	ug/L	50	41.8	84	48-120	
Pentachlorophenol	ug/L	50	43.0	86	47-120	
Phenol	ug/L	50	13.6	27	16-112	
2,4,6-Tribromophenol (S)	%			93	39-120	
2-Fluorobiphenyl (S)	%			91	39-120	
2-Fluorophenol (S)	%			41	17-120	
Nitrobenzene-d5 (S)	%			83	33-120	
Phenol-d6 (S)	%			25	11-120	
Terphenyl-d14 (S)	%			95	45-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-335

Pace Project No.: 60171928

MATRIX SPIKE SAMPLE:		1397819					
Parameter	Units	60171928001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	4030	81	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4900	98	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	5000	3520	70	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	6080	5000	9010	59	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	5250	105	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3940	79	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	8120	81	11-120	
Hexachloroethane	ug/L	ND	5000	3940	79	40-113	
Naphthalene	ug/L	1470	5000	5310	77	45-120	
Nitrobenzene	ug/L	ND	5000	4410	88	38-120	
Pentachlorophenol	ug/L	ND	5000	5880	118	43-135	
Phenol	ug/L	7370	5000	9230	37	13-112	
2,4,6-Tribromophenol (S)	%				110	39-120	
2-Fluorobiphenyl (S)	%				88	39-120	
2-Fluorophenol (S)	%				42	17-120	
Nitrobenzene-d5 (S)	%				116	33-120	
Phenol-d6 (S)	%				29	11-120	
Terphenyl-d14 (S)	%				91	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-335

Pace Project No.: 60171928

QC Batch:	WET/48665	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60171928001		

METHOD BLANK: 1400267 Matrix: Water
Associated Lab Samples: 60171928001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	06/24/14 15:14	

LABORATORY CONTROL SAMPLE: 1400268

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	33.6	84	78-114	

MATRIX SPIKE SAMPLE: 1400269

Parameter	Units	60171965001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	40	36.7	89	78-114	

SAMPLE DUPLICATE: 1400270

Parameter	Units	60171661001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	65.1	64.6	1	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-335

Pace Project No.: 60171928

QC Batch:	WET/48669	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60171928001		

METHOD BLANK: 1400283 Matrix: Water
Associated Lab Samples: 60171928001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	06/24/14 15:37	

LABORATORY CONTROL SAMPLE: 1400284

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	23.7	118	64-132	

MATRIX SPIKE SAMPLE: 1400285

Parameter	Units	60171965001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	20	14.7	66	64-132	

SAMPLE DUPLICATE: 1400286

Parameter	Units	60171661001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	2.7J		34	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-335

Pace Project No.: 60171928

QC Batch: WET/48629

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60171928001

METHOD BLANK: 1399351

Matrix: Water

Associated Lab Samples: 60171928001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	06/23/14 14:24	

SAMPLE DUPLICATE: 1399352

Parameter	Units	60171853003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	8.0	9.0	12	10	D6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-335

Pace Project No.: 60171928

QC Batch: WET/48614 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60171928001

SAMPLE DUPLICATE: 1399171

Parameter	Units	60171566001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.9	7.9	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-335

Pace Project No.: 60171928

QC Batch: WET/48587

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60171928001

METHOD BLANK: 1397903

Matrix: Water

Associated Lab Samples: 60171928001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	06/25/14 16:10	

LABORATORY CONTROL SAMPLE: 1397904

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	219	110	85-115	

SAMPLE DUPLICATE: 1397905

Parameter	Units	60171857003 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	173	171	1	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-335
Pace Project No.: 60171928

QC Batch: WETA/29937 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60171928001

METHOD BLANK: 1399070 Matrix: Water
Associated Lab Samples: 60171928001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	06/23/14 09:43	

LABORATORY CONTROL SAMPLE: 1399071

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	103	90-110	

MATRIX SPIKE SAMPLE: 1399072

Parameter	Units	60171009003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2.7	2	4.4	86	90-110	M1

SAMPLE DUPLICATE: 1399073

Parameter	Units	60171556001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	545	551	1	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-335

Pace Project No.: 60171928

QC Batch:	WETA/29987	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60171928001		

METHOD BLANK: 1400428 Matrix: Water
Associated Lab Samples: 60171928001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	06/26/14 10:00	

LABORATORY CONTROL SAMPLE: 1400429

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	53.8	108	90-110	

MATRIX SPIKE SAMPLE: 1400430

Parameter	Units	60171816002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	ND	50	53.5	95	90-110	

MATRIX SPIKE SAMPLE: 1400433

Parameter	Units	60171916001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	56.5	50	104	94	90-110	

SAMPLE DUPLICATE: 1400431

Parameter	Units	60171901001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	26.1	26.5	1	25	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 316-335

Pace Project No.: 60171928

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.

PQL - Practical Quantitation 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.

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D6 The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

H6 Analysis initiated outside of the 15 minute EPA recommended holding time.

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

N2 The lab does not hold TNI accreditation for this parameter.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-335

Pace Project No.: 60171928

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60171928001	316-335	EPA 200.7	MPRP/27769	EPA 200.7	ICP/20999
60171928001	316-335	EPA 200.7	MPRP/27771	EPA 200.7	ICP/20997
60171928001	316-335	EPA 245.1	MERP/8514	EPA 245.1	MERC/8469
60171928001	316-335	EPA 245.1	MERP/8529	EPA 245.1	MERC/8484
60171928001	316-335	EPA 625	OEXT/44760	EPA 625	MSSV/14330
60171928001	316-335	EPA 624 Low	MSV/62571		
60171928002	TRIP BLANK	EPA 624 Low	MSV/62571		
60171928001	316-335	EPA 1664A	WET/48665		
60171928001	316-335	EPA 1664A	WET/48669		
60171928001	316-335	SM 2540D	WET/48629		
60171928001	316-335	SM 4500-H+B	WET/48614		
60171928001	316-335	SM 5210B	WET/48587	SM 5210B	WET/48700
60171928001	316-335	EPA 350.1	WETA/29937		
60171928001	316-335	EPA 410.4	WETA/29987		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60171928

 60171928

Client Name: Barr

Courier: Fed Ex UPS USPS Client Commercial Pace Other xxroad

Tracking #: _____ Pace Shipping Label Used? Yes No

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other 12PIC

Thermometer Used: T-239 / T-194 Type of Ice: Wet Blue None Samples received on ice, cooling process has begun.

Cooler Temperature: 2.2

Optional
Proj Due Date:
Proj Name:

Date and initials of person examining contents: 12/6/2014

Temperature should be above freezing to 6°C	
Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A 1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A 2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A 3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A 4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A 5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A 6. <u>BOD PH</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A 7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A 8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A 9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A 9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A 10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Includes date/time/ID/analyses Matrix: <u>WT</u>	13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Exceptions: <u>VOA</u> coliform, TOC, <u>O&G</u> , WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Pace Trip Blank lot # (if purchased):	15.
Headspace in VOA vials (>6mm):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <u>5 of 5 Diqu has headspace</u>
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 17. List State: <u>IL</u>

Added 2.5 mL of HNO3 to RP3N. PH 6.0/4.0
Added 2.0 mL of H2SO4 to RP3S. PH 6.0/1.5
 Initial when completed: pu Lot # of added preservative: 12513
12522

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 12/6/14

June 30, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-336
Pace Project No.: 60172040

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 21, 2014. 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,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Bill Abernathy, Feezor Engineering
Kelly Caddy, Barr Engineering
DAN FEEZOR, FEEZOR ENGINEERING
Dana B. Pasi, Barr Engineering Co.
Brian Power, Republic Services
Brian Sehie, Republic Services
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-336

Pace Project No.: 60172040

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-13-4

Utah Certification #: KS000212013-3

Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-336

Pace Project No.: 60172040

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60172040001	316-336	Water	06/20/14 06:50	06/21/14 01:20
60172040002	TRIP BLANK	Water	06/20/14 06:50	06/21/14 01:20

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-336

Pace Project No.: 60172040

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60172040001	316-336	EPA 200.7	NDJ	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	CRT	1
		EPA 1664A	CRT	1
		SM 2540D	ESM	1
		SM 4500-H+B	NDL	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC1	1
60172040002	TRIP BLANK	EPA 624 Low	EAK	28

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-336

Pace Project No.: 60172040

Sample: 316-336		Lab ID: 60172040001	Collected: 06/20/14 06:50	Received: 06/21/14 01:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	3860 ug/L		750	2	06/24/14 05:59	06/24/14 18:10	7429-90-5	
Antimony	83.6 ug/L		50.0	1	06/24/14 05:59	06/24/14 18:07	7440-36-0	
Arsenic	1340 ug/L		50.0	1	06/24/14 05:59	06/24/14 18:07	7440-38-2	
Beryllium	ND ug/L		5.0	1	06/24/14 05:59	06/24/14 18:07	7440-41-7	
Cadmium	ND ug/L		25.0	1	06/24/14 05:59	06/24/14 18:07	7440-43-9	
Chromium	218 ug/L		25.0	1	06/24/14 05:59	06/24/14 18:07	7440-47-3	
Cobalt	31.8 ug/L		25.0	1	06/24/14 05:59	06/24/14 18:07	7440-48-4	
Copper	ND ug/L		50.0	1	06/24/14 05:59	06/24/14 18:07	7440-50-8	
Iron	486000 ug/L		250	1	06/24/14 05:59	06/24/14 18:07	7439-89-6	
Lead	59.0 ug/L		25.0	1	06/24/14 05:59	06/24/14 18:07	7439-92-1	
Nickel	124 ug/L		25.0	1	06/24/14 05:59	06/24/14 18:07	7440-02-0	
Selenium	ND ug/L		75.0	1	06/24/14 05:59	06/24/14 18:07	7782-49-2	
Silver	ND ug/L		35.0	1	06/24/14 05:59	06/24/14 18:07	7440-22-4	
Thallium	ND ug/L		100	1	06/24/14 05:59	06/24/14 18:07	7440-28-0	
Zinc	4780 ug/L		500	2	06/24/14 05:59	06/24/14 18:10	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	1600 ug/L		750	2	06/24/14 06:04	06/25/14 10:23	7429-90-5	
Antimony, Dissolved	67.6 ug/L		50.0	1	06/24/14 06:04	06/24/14 18:49	7440-36-0	
Arsenic, Dissolved	1010 ug/L		50.0	1	06/24/14 06:04	06/24/14 18:49	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	06/24/14 06:04	06/24/14 18:49	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	06/24/14 06:04	06/24/14 18:49	7440-43-9	
Chromium, Dissolved	164 ug/L		25.0	1	06/24/14 06:04	06/24/14 18:49	7440-47-3	
Cobalt, Dissolved	25.6 ug/L		25.0	1	06/24/14 06:04	06/24/14 18:49	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	06/24/14 06:04	06/24/14 18:49	7440-50-8	
Iron, Dissolved	304000 ug/L		250	1	06/24/14 06:04	06/24/14 18:49	7439-89-6	
Lead, Dissolved	ND ug/L		25.0	1	06/24/14 06:04	06/24/14 18:49	7439-92-1	
Nickel, Dissolved	98.0 ug/L		25.0	1	06/24/14 06:04	06/24/14 18:49	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	06/24/14 06:04	06/24/14 18:49	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	06/24/14 06:04	06/24/14 18:49	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	06/24/14 06:04	06/24/14 18:49	7440-28-0	
Zinc, Dissolved	4090 ug/L		500	2	06/24/14 06:04	06/24/14 18:52	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	ND ug/L		6.0	1	06/22/14 12:00	06/22/14 19:27	7439-97-6	
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND ug/L		6.0	1	06/25/14 10:30	06/25/14 14:12	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		50.0	2	06/23/14 00:00	06/27/14 10:10	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		10.0	2	06/23/14 00:00	06/27/14 10:10	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		10.0	2	06/23/14 00:00	06/27/14 10:10	77-47-4	
Hexachloroethane	ND ug/L		10.0	2	06/23/14 00:00	06/27/14 10:10	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		20.0	2	06/23/14 00:00	06/27/14 10:10	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	71.2 ug/L		40.0	2	06/23/14 00:00	06/27/14 10:10		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-336

Pace Project No.: 60172040

Sample: 316-336		Lab ID: 60172040001	Collected: 06/20/14 06:50	Received: 06/21/14 01:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	16.4 ug/L		10.0	2	06/23/14 00:00	06/27/14 10:10	91-20-3	
Nitrobenzene	ND ug/L		10.0	2	06/23/14 00:00	06/27/14 10:10	98-95-3	
Pentachlorophenol	ND ug/L		10.0	2	06/23/14 00:00	06/27/14 10:10	87-86-5	
Phenol	100 ug/L		10.0	2	06/23/14 00:00	06/27/14 10:10	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		10.0	2	06/23/14 00:00	06/27/14 10:10	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		10.0	2	06/23/14 00:00	06/27/14 10:10	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	108 %		33-120	2	06/23/14 00:00	06/27/14 10:10	4165-60-0	
2-Fluorobiphenyl (S)	80 %		39-120	2	06/23/14 00:00	06/27/14 10:10	321-60-8	
Terphenyl-d14 (S)	85 %		45-120	2	06/23/14 00:00	06/27/14 10:10	1718-51-0	
Phenol-d6 (S)	32 %		11-120	2	06/23/14 00:00	06/27/14 10:10	13127-88-3	
2-Fluorophenol (S)	44 %		17-120	2	06/23/14 00:00	06/27/14 10:10	367-12-4	
2,4,6-Tribromophenol (S)	104 %		39-120	2	06/23/14 00:00	06/27/14 10:10	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	89600 ug/L		2500	250		06/25/14 17:21	67-64-1	N2
Benzene	ND ug/L		250	250		06/25/14 17:21	71-43-2	
Bromodichloromethane	ND ug/L		250	250		06/25/14 17:21	75-27-4	
Bromoform	ND ug/L		250	250		06/25/14 17:21	75-25-2	
Bromomethane	ND ug/L		1250	250		06/25/14 17:21	74-83-9	
2-Butanone (MEK)	40000 ug/L		2500	250		06/25/14 17:21	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		06/25/14 17:21	56-23-5	
Chloroethane	ND ug/L		250	250		06/25/14 17:21	75-00-3	
Chloroform	ND ug/L		250	250		06/25/14 17:21	67-66-3	
1,4-Dichlorobenzene	404 ug/L		250	250		06/25/14 17:21	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		06/25/14 17:21	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		06/25/14 17:21	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		06/25/14 17:21	156-60-5	
Ethylbenzene	ND ug/L		250	250		06/25/14 17:21	100-41-4	
Methylene chloride	ND ug/L		250	250		06/25/14 17:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		06/25/14 17:21	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		06/25/14 17:21	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		06/25/14 17:21	127-18-4	
Toluene	ND ug/L		250	250		06/25/14 17:21	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		06/25/14 17:21	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		06/25/14 17:21	79-00-5	
Trichloroethene	ND ug/L		250	250		06/25/14 17:21	79-01-6	
Vinyl chloride	ND ug/L		250	250		06/25/14 17:21	75-01-4	
Xylene (Total)	ND ug/L		750	250		06/25/14 17:21	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	98 %		80-120	250		06/25/14 17:21	460-00-4	HS
Toluene-d8 (S)	96 %		80-120	250		06/25/14 17:21	2037-26-5	
1,2-Dichloroethane-d4 (S)	89 %		80-120	250		06/25/14 17:21	17060-07-0	
Preservation pH	6.0		1.0	250		06/25/14 17:21		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	907 mg/L		5.0	1		06/24/14 15:25		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-336

Pace Project No.: 60172040

Sample: 316-336		Lab ID: 60172040001	Collected: 06/20/14 06:50	Received: 06/21/14 01:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	12.0	mg/L	5.0	1		06/24/14 15:39		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	3920	mg/L	5.0	1		06/24/14 13:48		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.5	Std. Units	0.10	1		06/23/14 11:00		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	31600	mg/L	2.0	1	06/21/14 09:43	06/26/14 08:43		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	598	mg/L	20.0	200		06/23/14 09:58	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	49400	mg/L	5000	500		06/26/14 10:14		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-336

Pace Project No.: 60172040

Sample: TRIP BLANK		Lab ID: 60172040002	Collected: 06/20/14 06:50	Received: 06/21/14 01:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		06/25/14 15:47	67-64-1	N2
Benzene	ND ug/L		1.0	1		06/25/14 15:47	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		06/25/14 15:47	75-27-4	
Bromoform	ND ug/L		1.0	1		06/25/14 15:47	75-25-2	
Bromomethane	ND ug/L		5.0	1		06/25/14 15:47	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/25/14 15:47	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		06/25/14 15:47	56-23-5	
Chloroethane	ND ug/L		1.0	1		06/25/14 15:47	75-00-3	
Chloroform	ND ug/L		1.0	1		06/25/14 15:47	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		06/25/14 15:47	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		06/25/14 15:47	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		06/25/14 15:47	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		06/25/14 15:47	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		06/25/14 15:47	100-41-4	
Methylene chloride	ND ug/L		1.0	1		06/25/14 15:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/25/14 15:47	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		06/25/14 15:47	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		06/25/14 15:47	127-18-4	
Toluene	ND ug/L		1.0	1		06/25/14 15:47	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		06/25/14 15:47	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		06/25/14 15:47	79-00-5	
Trichloroethene	ND ug/L		1.0	1		06/25/14 15:47	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		06/25/14 15:47	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		06/25/14 15:47	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100 %		80-120	1		06/25/14 15:47	460-00-4	
Toluene-d8 (S)	99 %		80-120	1		06/25/14 15:47	2037-26-5	
1,2-Dichloroethane-d4 (S)	93 %		80-120	1		06/25/14 15:47	17060-07-0	
Preservation pH	6.0		1.0	1		06/25/14 15:47		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-336

Pace Project No.: 60172040

QC Batch:	MERP/8514	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
Associated Lab Samples:	60172040001		

METHOD BLANK: 1398965 Matrix: Water
Associated Lab Samples: 60172040001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	06/22/14 18:56	

LABORATORY CONTROL SAMPLE: 1398966

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1398967 1398968

Parameter	Units	60171556001		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
Mercury	ug/L	ND	150	150	148	149	98	98	70-130	0	20				

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-336

Pace Project No.: 60172040

QC Batch: MERP/8529

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60172040001

METHOD BLANK: 1400587

Matrix: Water

Associated Lab Samples: 60172040001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	06/25/14 13:57	

LABORATORY CONTROL SAMPLE: 1400588

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.6	93	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1400589 1400590

Parameter	Units	60171807001		MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Mercury, Dissolved	ug/L	ND	150	150	126	128	84	85	70-130	2	20			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-336
Pace Project No.: 60172040

QC Batch: MPRP/27763 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60172040001

METHOD BLANK: 1399409 Matrix: Water
Associated Lab Samples: 60172040001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	06/24/14 17:36	
Antimony	ug/L	ND	10.0	06/24/14 17:36	
Arsenic	ug/L	ND	10.0	06/24/14 17:36	
Beryllium	ug/L	ND	1.0	06/24/14 17:36	
Cadmium	ug/L	ND	5.0	06/24/14 17:36	
Chromium	ug/L	ND	5.0	06/24/14 17:36	
Cobalt	ug/L	ND	5.0	06/24/14 17:36	
Copper	ug/L	ND	10.0	06/24/14 17:36	
Iron	ug/L	ND	50.0	06/24/14 17:36	
Lead	ug/L	ND	5.0	06/24/14 17:36	
Nickel	ug/L	ND	5.0	06/24/14 17:36	
Selenium	ug/L	ND	15.0	06/24/14 17:36	
Silver	ug/L	ND	7.0	06/24/14 17:36	
Thallium	ug/L	ND	20.0	06/24/14 17:36	
Zinc	ug/L	ND	50.0	06/24/14 17:36	

LABORATORY CONTROL SAMPLE: 1399410

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10000	100	85-115	
Antimony	ug/L	1000	1050	105	85-115	
Arsenic	ug/L	1000	971	97	85-115	
Beryllium	ug/L	1000	994	99	85-115	
Cadmium	ug/L	1000	991	99	85-115	
Chromium	ug/L	1000	946	95	85-115	
Cobalt	ug/L	1000	1000	100	85-115	
Copper	ug/L	1000	1030	103	85-115	
Iron	ug/L	10000	9390	94	85-115	
Lead	ug/L	1000	1020	102	85-115	
Nickel	ug/L	1000	1030	103	85-115	
Selenium	ug/L	1000	1030	103	85-115	
Silver	ug/L	500	488	98	85-115	
Thallium	ug/L	1000	1020	102	85-115	
Zinc	ug/L	1000	930	93	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-336

Pace Project No.: 60172040

Parameter	Units	60171645001		MS		MSD		MS		MSD		% Rec	% Rec	Limits	RPD	RPD	Max	Qual
		Result	Conc.	Spike	Conc.	Result	Result	% Rec	% Rec									
Aluminum	ug/L	7780	50000	50000	50000	64200	64100	113	113	70-130	0	8						
Antimony	ug/L	93.6	5000	5000	5000	5540	5630	109	111	70-130	2	7						
Arsenic	ug/L	1580	5000	5000	5000	6960	7260	108	114	70-130	4	10						
Beryllium	ug/L	ND	5000	5000	5000	4800	4820	96	96	70-130	1	7						
Cadmium	ug/L	ND	5000	5000	5000	5220	5290	104	106	70-130	1	10						
Chromium	ug/L	251	5000	5000	5000	4770	4780	90	91	70-130	0	10						
Cobalt	ug/L	40.5	5000	5000	5000	4730	4770	94	95	70-130	1	6						
Copper	ug/L	ND	5000	5000	5000	5550	5660	111	113	70-130	2	11						
Iron	ug/L	744000	50000	50000	50000	713000	769000	-62	50	70-130	8	10	M1					
Lead	ug/L	91.2	5000	5000	5000	4590	4620	90	91	70-130	1	10						
Nickel	ug/L	126	5000	5000	5000	4830	4890	94	95	70-130	1	10						
Selenium	ug/L	ND	5000	5000	5000	6220	6400	124	128	70-130	3	10						
Silver	ug/L	ND	2500	2500	2500	2610	2660	104	106	70-130	2	10						
Thallium	ug/L	ND	5000	5000	5000	4100	4150	82	83	70-130	1	6						
Zinc	ug/L	4040	5000	5000	5000	8200	8350	83	86	70-130	2	11						

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-336
Pace Project No.: 60172040

QC Batch: MPRP/27771 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60172040001

METHOD BLANK: 1399572 Matrix: Water
Associated Lab Samples: 60172040001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	06/24/14 18:14	
Antimony, Dissolved	ug/L	ND	10.0	06/24/14 18:14	
Arsenic, Dissolved	ug/L	ND	10.0	06/24/14 18:14	
Beryllium, Dissolved	ug/L	ND	1.0	06/24/14 18:14	
Cadmium, Dissolved	ug/L	ND	5.0	06/24/14 18:14	
Chromium, Dissolved	ug/L	ND	5.0	06/24/14 18:14	
Cobalt, Dissolved	ug/L	ND	5.0	06/24/14 18:14	
Copper, Dissolved	ug/L	ND	10.0	06/24/14 18:14	
Iron, Dissolved	ug/L	ND	50.0	06/24/14 18:14	
Lead, Dissolved	ug/L	ND	5.0	06/24/14 18:14	
Nickel, Dissolved	ug/L	ND	5.0	06/24/14 18:14	
Selenium, Dissolved	ug/L	ND	15.0	06/24/14 18:14	
Silver, Dissolved	ug/L	ND	7.0	06/24/14 18:14	
Thallium, Dissolved	ug/L	ND	20.0	06/24/14 18:14	
Zinc, Dissolved	ug/L	ND	50.0	06/24/14 18:14	

LABORATORY CONTROL SAMPLE: 1399573

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10400	104	85-115	
Antimony, Dissolved	ug/L	1000	1100	110	85-115	
Arsenic, Dissolved	ug/L	1000	1020	102	85-115	
Beryllium, Dissolved	ug/L	1000	1030	103	85-115	
Cadmium, Dissolved	ug/L	1000	1030	103	85-115	
Chromium, Dissolved	ug/L	1000	976	98	85-115	
Cobalt, Dissolved	ug/L	1000	1040	104	85-115	
Copper, Dissolved	ug/L	1000	1080	108	85-115	
Iron, Dissolved	ug/L	10000	9640	96	85-115	
Lead, Dissolved	ug/L	1000	1060	106	85-115	
Nickel, Dissolved	ug/L	1000	1070	107	85-115	
Selenium, Dissolved	ug/L	1000	1080	108	85-115	
Silver, Dissolved	ug/L	500	504	101	85-115	
Thallium, Dissolved	ug/L	1000	1060	106	85-115	
Zinc, Dissolved	ug/L	1000	963	96	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-336

Pace Project No.: 60172040

Parameter	Units	60171807001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec							
Aluminum, Dissolved	ug/L	1720	50000	50000	54000	54000	105	105	70-130	0	8					
Antimony, Dissolved	ug/L	60.6	5000	5000	5670	5680	112	112	70-130	0	7					
Arsenic, Dissolved	ug/L	1090	5000	5000	6790	6840	114	115	70-130	1	10					
Beryllium, Dissolved	ug/L	ND	5000	5000	4900	4910	98	98	70-130	0	7					
Cadmium, Dissolved	ug/L	ND	5000	5000	5320	5330	106	107	70-130	0	10					
Chromium, Dissolved	ug/L	154	5000	5000	4810	4850	93	94	70-130	1	10					
Cobalt, Dissolved	ug/L	ND	5000	5000	4860	4850	97	97	70-130	0	6					
Copper, Dissolved	ug/L	ND	5000	5000	5680	5720	113	114	70-130	1	11					
Iron, Dissolved	ug/L	293000	50000	50000	346000	367000	106	148	70-130	6	10 M1					
Lead, Dissolved	ug/L	ND	5000	5000	4700	4680	94	93	70-130	0	10					
Nickel, Dissolved	ug/L	91.4	5000	5000	4960	4950	97	97	70-130	0	10					
Selenium, Dissolved	ug/L	ND	5000	5000	6320	6360	126	127	70-130	1	10					
Silver, Dissolved	ug/L	ND	2500	2500	2650	2690	105	107	70-130	2	10					
Thallium, Dissolved	ug/L	ND	5000	5000	4280	4260	86	85	70-130	1	6					
Zinc, Dissolved	ug/L	3110	5000	5000	7730	7900	92	96	70-130	2	11					

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-336

Pace Project No.: 60172040

QC Batch: MSV/62571 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60172040001, 60172040002

METHOD BLANK: 1400773 Matrix: Water

Associated Lab Samples: 60172040001, 60172040002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/25/14 12:41	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/25/14 12:41	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	06/25/14 12:41	
1,2-Dichloroethane	ug/L	ND	1.0	06/25/14 12:41	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/25/14 12:41	
2-Butanone (MEK)	ug/L	ND	10.0	06/25/14 12:41	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/25/14 12:41	N2
Acetone	ug/L	ND	10.0	06/25/14 12:41	N2
Benzene	ug/L	ND	1.0	06/25/14 12:41	
Bromodichloromethane	ug/L	ND	1.0	06/25/14 12:41	
Bromoform	ug/L	ND	1.0	06/25/14 12:41	
Bromomethane	ug/L	ND	5.0	06/25/14 12:41	
Carbon tetrachloride	ug/L	ND	1.0	06/25/14 12:41	
Chloroethane	ug/L	ND	1.0	06/25/14 12:41	
Chloroform	ug/L	ND	1.0	06/25/14 12:41	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/25/14 12:41	N2
Ethylbenzene	ug/L	ND	1.0	06/25/14 12:41	
Methylene chloride	ug/L	ND	1.0	06/25/14 12:41	
Tetrachloroethene	ug/L	ND	1.0	06/25/14 12:41	
Toluene	ug/L	ND	1.0	06/25/14 12:41	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/25/14 12:41	
Trichloroethene	ug/L	ND	1.0	06/25/14 12:41	
Vinyl chloride	ug/L	ND	1.0	06/25/14 12:41	
Xylene (Total)	ug/L	ND	3.0	06/25/14 12:41	N2
1,2-Dichloroethane-d4 (S)	%	97	80-120	06/25/14 12:41	
4-Bromofluorobenzene (S)	%	99	80-120	06/25/14 12:41	
Toluene-d8 (S)	%	98	80-120	06/25/14 12:41	

LABORATORY CONTROL SAMPLE: 1400774

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.5	102	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	22.4	112	67-127	N2
1,1,2-Trichloroethane	ug/L	20	23.2	116	67-124	
1,2-Dichloroethane	ug/L	20	20.0	100	70-126	
1,4-Dichlorobenzene	ug/L	20	21.5	108	74-120	
2-Butanone (MEK)	ug/L	100	105	105	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	113	113	59-131	N2
Acetone	ug/L	100	96.7	97	38-134	N2
Benzene	ug/L	20	21.3	106	75-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-336

Pace Project No.: 60172040

LABORATORY CONTROL SAMPLE: 1400774

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	20	22.5	113	68-125	
Bromoform	ug/L	20	23.3	116	65-127	
Bromomethane	ug/L	20	11.7	59	13-157	
Carbon tetrachloride	ug/L	20	20.0	100	70-131	
Chloroethane	ug/L	20	23.4	117	47-133	
Chloroform	ug/L	20	20.4	102	65-127	
cis-1,2-Dichloroethene	ug/L	20	21.9	109	68-127	N2
Ethylbenzene	ug/L	20	22.0	110	74-122	
Methylene chloride	ug/L	20	19.7	98	64-129	
Tetrachloroethene	ug/L	20	22.6	113	73-125	
Toluene	ug/L	20	20.8	104	69-126	
trans-1,2-Dichloroethene	ug/L	20	20.6	103	66-129	
Trichloroethene	ug/L	20	21.8	109	71-123	
Vinyl chloride	ug/L	20	20.5	102	43-129	
Xylene (Total)	ug/L	60	65.5	109	75-121	N2
1,2-Dichloroethane-d4 (S)	%			92	80-120	
4-Bromofluorobenzene (S)	%			98	80-120	
Toluene-d8 (S)	%			96	80-120	

MATRIX SPIKE SAMPLE: 1400775

Parameter	Units	60171928001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	4750	95	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	5240	105	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	5280	106	52-143	
1,2-Dichloroethane	ug/L	ND	5000	4360	87	49-144	
1,4-Dichlorobenzene	ug/L	301	5000	5170	97	33-140	
2-Butanone (MEK)	ug/L	37800	25000	61200	94	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	25500	100	40-160	N2
Acetone	ug/L	84100	25000	108000	97	10-160	N2
Benzene	ug/L	ND	5000	4830	95	37-151	
Bromodichloromethane	ug/L	ND	5000	4890	98	35-142	
Bromoform	ug/L	ND	5000	5380	108	45-142	
Bromomethane	ug/L	ND	5000	2010	40	10-158	
Carbon tetrachloride	ug/L	ND	5000	5010	100	70-140	
Chloroethane	ug/L	ND	5000	5060	101	19-152	
Chloroform	ug/L	ND	5000	4630	93	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	4800	96	34-147	N2
Ethylbenzene	ug/L	ND	5000	5100	102	40-142	
Methylene chloride	ug/L	ND	5000	4380	87	31-144	
Tetrachloroethene	ug/L	ND	5000	5410	108	64-148	
Toluene	ug/L	ND	5000	4730	92	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	4620	92	54-151	
Trichloroethene	ug/L	ND	5000	4640	93	71-149	
Vinyl chloride	ug/L	ND	5000	4850	97	22-146	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-336

Pace Project No.: 60172040

MATRIX SPIKE SAMPLE:		1400775					
Parameter	Units	60171928001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	ND	15000	15600	104	37-144	N2
1,2-Dichloroethane-d4 (S)	%				90	80-120	
4-Bromofluorobenzene (S)	%				99	80-120	HS
Toluene-d8 (S)	%				95	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-336

Pace Project No.: 60172040

QC Batch:	OEXT/44786	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60172040001		

METHOD BLANK: 1399051 Matrix: Water

Associated Lab Samples: 60172040001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/27/14 09:29	
2,4,6-Trichlorophenol	ug/L	ND	5.0	06/27/14 09:29	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	06/27/14 09:29	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	06/27/14 09:29	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	06/27/14 09:29	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/27/14 09:29	
Hexachlorocyclopentadiene	ug/L	ND	5.0	06/27/14 09:29	
Hexachloroethane	ug/L	ND	5.0	06/27/14 09:29	
Naphthalene	ug/L	ND	5.0	06/27/14 09:29	
Nitrobenzene	ug/L	ND	5.0	06/27/14 09:29	
Pentachlorophenol	ug/L	ND	5.0	06/27/14 09:29	
Phenol	ug/L	ND	5.0	06/27/14 09:29	
2,4,6-Tribromophenol (S)	%	110	39-120	06/27/14 09:29	
2-Fluorobiphenyl (S)	%	95	39-120	06/27/14 09:29	
2-Fluorophenol (S)	%	50	17-120	06/27/14 09:29	
Nitrobenzene-d5 (S)	%	107	33-120	06/27/14 09:29	
Phenol-d6 (S)	%	32	11-120	06/27/14 09:29	
Terphenyl-d14 (S)	%	96	45-120	06/27/14 09:29	

LABORATORY CONTROL SAMPLE: 1399052

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	39.5	79	46-120	
2,4,6-Trichlorophenol	ug/L	50	43.1	86	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	33.2	66	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	29.8	60	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	64.8	130	40-133	
Hexachloro-1,3-butadiene	ug/L	50	39.7	79	44-116	
Hexachlorocyclopentadiene	ug/L	100	62.9	63	24-120	
Hexachloroethane	ug/L	50	37.8	76	43-113	
Naphthalene	ug/L	50	38.7	77	48-120	
Nitrobenzene	ug/L	50	41.9	84	48-120	
Pentachlorophenol	ug/L	50	46.3	93	47-120	
Phenol	ug/L	50	14.8	30	16-112	
2,4,6-Tribromophenol (S)	%			102	39-120	
2-Fluorobiphenyl (S)	%			82	39-120	
2-Fluorophenol (S)	%			43	17-120	
Nitrobenzene-d5 (S)	%			91	33-120	
Phenol-d6 (S)	%			28	11-120	
Terphenyl-d14 (S)	%			88	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-336

Pace Project No.: 60172040

MATRIX SPIKE SAMPLE:		1399053					
Parameter	Units	60171999001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	36.3	73	44-120	
2,4,6-Trichlorophenol	ug/L	ND	50	40.2	80	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	50	31.0	62	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	50	28.3	57	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	50	45.3	91	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	50	34.8	70	39-116	
Hexachlorocyclopentadiene	ug/L	ND	100	16.9	17	11-120	
Hexachloroethane	ug/L	ND	50	30.1	60	40-113	
Naphthalene	ug/L	ND	50	34.8	70	45-120	
Nitrobenzene	ug/L	ND	50	38.2	76	38-120	
Pentachlorophenol	ug/L	ND	50	42.8	86	43-135	
Phenol	ug/L	ND	50	13.1	26	13-112	
2,4,6-Tribromophenol (S)	%				92	39-120	
2-Fluorobiphenyl (S)	%				75	39-120	
2-Fluorophenol (S)	%				37	17-120	
Nitrobenzene-d5 (S)	%				86	33-120	
Phenol-d6 (S)	%				26	11-120	
Terphenyl-d14 (S)	%				89	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-336

Pace Project No.: 60172040

QC Batch:	WET/48665	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60172040001		

METHOD BLANK: 1400267 Matrix: Water

Associated Lab Samples: 60172040001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	06/24/14 15:14	

LABORATORY CONTROL SAMPLE: 1400268

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	33.6	84	78-114	

MATRIX SPIKE SAMPLE: 1400269

Parameter	Units	60171965001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	40	36.7	89	78-114	

SAMPLE DUPLICATE: 1400270

Parameter	Units	60171661001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	65.1	64.6	1	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-336

Pace Project No.: 60172040

QC Batch:	WET/48669	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60172040001		

METHOD BLANK: 1400283 Matrix: Water
Associated Lab Samples: 60172040001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	06/24/14 15:37	

LABORATORY CONTROL SAMPLE: 1400284

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	23.7	118	64-132	

MATRIX SPIKE SAMPLE: 1400285

Parameter	Units	60171965001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	20	14.7	66	64-132	

SAMPLE DUPLICATE: 1400286

Parameter	Units	60171661001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	2.7J		34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-336

Pace Project No.: 60172040

QC Batch:	WET/48659	Analysis Method:	SM 2540D
QC Batch Method:	SM 2540D	Analysis Description:	2540D Total Suspended Solids
Associated Lab Samples:	60172040001		

METHOD BLANK: 1400060 Matrix: Water

Associated Lab Samples: 60172040001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	06/24/14 13:44	

SAMPLE DUPLICATE: 1400061

Parameter	Units	60171926001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	83.0	83.0	0	10	

SAMPLE DUPLICATE: 1400062

Parameter	Units	60172082005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	ND		10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-336

Pace Project No.: 60172040

QC Batch: WET/48614 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60172040001

SAMPLE DUPLICATE: 1399171

Parameter	Units	60171566001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.9	7.9	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-336

Pace Project No.: 60172040

QC Batch:	WET/48597	Analysis Method:	SM 5210B
QC Batch Method:	SM 5210B	Analysis Description:	5210B BOD, 5 day
Associated Lab Samples:	60172040001		

METHOD BLANK: 1398395 Matrix: Water
Associated Lab Samples: 60172040001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	06/26/14 08:24	

LABORATORY CONTROL SAMPLE: 1398396

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	198	100	85-115	

SAMPLE DUPLICATE: 1398397

Parameter	Units	60171853003 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	3.2	3.0	8	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-336

Pace Project No.: 60172040

QC Batch:	WETA/29937	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60172040001		

METHOD BLANK: 1399070 Matrix: Water
Associated Lab Samples: 60172040001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	06/23/14 09:43	

LABORATORY CONTROL SAMPLE: 1399071

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	103	90-110	

MATRIX SPIKE SAMPLE: 1399072

Parameter	Units	60171009003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2.7	2	4.4	86	90-110	M1

SAMPLE DUPLICATE: 1399073

Parameter	Units	60171556001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	545	551	1	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-336
Pace Project No.: 60172040

QC Batch: WETA/29987 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 60172040001

METHOD BLANK: 1400428 Matrix: Water
Associated Lab Samples: 60172040001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	06/26/14 10:00	

LABORATORY CONTROL SAMPLE: 1400429

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	53.8	108	90-110	

MATRIX SPIKE SAMPLE: 1400430

Parameter	Units	60171816002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	ND	50	53.5	95	90-110	

MATRIX SPIKE SAMPLE: 1400433

Parameter	Units	60171916001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	56.5	50	104	94	90-110	

SAMPLE DUPLICATE: 1400431

Parameter	Units	60171901001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	26.1	26.5	1	25	

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QUALIFIERS

Project: BRIDGETON LF 316-336

Pace Project No.: 60172040

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.

PQL - Practical Quantitation 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.

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H6 Analysis initiated outside of the 15 minute EPA recommended holding time.

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

N2 The lab does not hold TNI accreditation for this parameter.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-336

Pace Project No.: 60172040

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60172040001	316-336	EPA 200.7	MPRP/27763	EPA 200.7	ICP/20995
60172040001	316-336	EPA 200.7	MPRP/27771	EPA 200.7	ICP/20997
60172040001	316-336	EPA 245.1	MERP/8514	EPA 245.1	MERC/8469
60172040001	316-336	EPA 245.1	MERP/8529	EPA 245.1	MERC/8484
60172040001	316-336	EPA 625	OEXT/44786	EPA 625	MSSV/14349
60172040001	316-336	EPA 624 Low	MSV/62571		
60172040002	TRIP BLANK	EPA 624 Low	MSV/62571		
60172040001	316-336	EPA 1664A	WET/48665		
60172040001	316-336	EPA 1664A	WET/48669		
60172040001	316-336	SM 2540D	WET/48659		
60172040001	316-336	SM 4500-H+B	WET/48614		
60172040001	316-336	SM 5210B	WET/48597	SM 5210B	WET/48733
60172040001	316-336	EPA 350.1	WETA/29937		
60172040001	316-336	EPA 410.4	WETA/29987		

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Sample Condition Upon Receipt

WO#: 60172040



60172040

Client Name: Republic Barr

Courier: Fed Ex UPS USPS Client Commercial Pace Other XRoads

Tracking #: _____ Pace Shipping Label Used? Yes No

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other

Thermometer Used: F-239 / T-194

Type of Ice: Wet Blue None Samples received on ice, cooling process has begun. (circle one)

Cooler Temperature: 2.4

Date and initials of person examining contents: Jan 6/21/14 JAO

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>BOD</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Includes date/time/ID/analyses Matrix: <u>water</u>		13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. <u>BPSN + BPS not able to be preserved</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>JAO</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Lot # of added preservative <u>125-23-2</u>
Pace Trip Blank lot # (if purchased): <u>040714-3</u>		15.
Headspace in VOA vials (>6mm):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16. <u>head space in every sample vial SITS - APPLY THE FOOTNOTE PER HISTORICAL INSTRUCTIONS.</u>
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	17. List State <u>MD</u>

Client Notification/ Resolution: Copy COC to Client? Y N Field Data Required? Y N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 6/23/14

June 30, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-337
Pace Project No.: 60172158

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 23, 2014. 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,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Bill Abernathy, Feezor Engineering
Kelly Caddy, Barr Engineering
DAN FEEZOR, FEEZOR ENGINEERING
Dana B. Pasi, Barr Engineering Co.
Brian Power, Republic Services
Brian Sehie, Republic Services
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-337

Pace Project No.: 60172158

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-13-4

Utah Certification #: KS000212013-3

Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-337

Pace Project No.: 60172158

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60172158001	316-337	Water	06/21/14 08:10	06/23/14 13:00
60172158002	TRIP BLANK	Water	06/21/14 08:10	06/23/14 13:00

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-337

Pace Project No.: 60172158

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60172158001	316-337	EPA 200.7	NDJ	15
		EPA 200.7	JGP	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	CRT	1
		EPA 1664A	CRT	1
		SM 2540D	ESM	1
		SM 4500-H+B	NDL	1
		SM 5210B	DJR	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC1	1
		60172158002	TRIP BLANK	EPA 624 Low

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-337

Pace Project No.: 60172158

Sample: 316-337		Lab ID: 60172158001	Collected: 06/21/14 08:10	Received: 06/23/14 13:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	10200	ug/L	750	2	06/25/14 09:10	06/26/14 11:40	7429-90-5	
Antimony	85.2	ug/L	50.0	1	06/25/14 09:10	06/26/14 11:38	7440-36-0	
Arsenic	1320	ug/L	50.0	1	06/25/14 09:10	06/26/14 11:38	7440-38-2	
Beryllium	ND	ug/L	5.0	1	06/25/14 09:10	06/26/14 11:38	7440-41-7	
Cadmium	ND	ug/L	25.0	1	06/25/14 09:10	06/26/14 11:38	7440-43-9	
Chromium	262	ug/L	25.0	1	06/25/14 09:10	06/26/14 11:38	7440-47-3	
Cobalt	42.0	ug/L	25.0	1	06/25/14 09:10	06/26/14 11:38	7440-48-4	
Copper	ND	ug/L	50.0	1	06/25/14 09:10	06/26/14 11:38	7440-50-8	
Iron	793000	ug/L	250	1	06/25/14 09:10	06/26/14 11:38	7439-89-6	M1
Lead	120	ug/L	25.0	1	06/25/14 09:10	06/26/14 11:38	7439-92-1	
Nickel	150	ug/L	25.0	1	06/25/14 09:10	06/26/14 11:38	7440-02-0	
Selenium	ND	ug/L	75.0	1	06/25/14 09:10	06/26/14 11:38	7782-49-2	M1
Silver	ND	ug/L	35.0	1	06/25/14 09:10	06/26/14 11:38	7440-22-4	
Thallium	ND	ug/L	100	1	06/25/14 09:10	06/26/14 11:38	7440-28-0	
Zinc	5290	ug/L	500	2	06/25/14 09:10	06/26/14 11:40	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	1020	ug/L	750	2	06/26/14 10:10	06/26/14 15:08	7429-90-5	
Antimony, Dissolved	ND	ug/L	100	2	06/26/14 10:10	06/26/14 15:08	7440-36-0	D3
Arsenic, Dissolved	938	ug/L	50.0	1	06/26/14 10:10	06/26/14 15:04	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	06/26/14 10:10	06/26/14 15:04	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	06/26/14 10:10	06/26/14 15:04	7440-43-9	
Chromium, Dissolved	169	ug/L	25.0	1	06/26/14 10:10	06/26/14 15:04	7440-47-3	
Cobalt, Dissolved	ND	ug/L	25.0	1	06/26/14 10:10	06/26/14 15:04	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	06/26/14 10:10	06/26/14 15:04	7440-50-8	
Iron, Dissolved	270000	ug/L	250	1	06/26/14 10:10	06/26/14 15:04	7439-89-6	
Lead, Dissolved	46.0	ug/L	25.0	1	06/26/14 10:10	06/26/14 15:04	7439-92-1	
Nickel, Dissolved	95.2	ug/L	25.0	1	06/26/14 10:10	06/26/14 15:04	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	06/26/14 10:10	06/26/14 15:04	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	06/26/14 10:10	06/26/14 15:04	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	06/26/14 10:10	06/26/14 15:04	7440-28-0	
Zinc, Dissolved	4200	ug/L	500	2	06/26/14 10:10	06/26/14 15:08	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	21.5	ug/L	6.0	1	06/26/14 08:45	06/26/14 14:17	7439-97-6	
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND	ug/L	6.0	1	06/25/14 10:30	06/25/14 14:14	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	06/24/14 00:00	06/27/14 13:58	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	06/24/14 00:00	06/27/14 13:58	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	06/24/14 00:00	06/27/14 13:58	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	06/24/14 00:00	06/27/14 13:58	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	2000	2	06/24/14 00:00	06/27/14 13:58	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	6720	ug/L	4000	2	06/24/14 00:00	06/27/14 13:58		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-337

Pace Project No.: 60172158

Sample: 316-337		Lab ID: 60172158001	Collected: 06/21/14 08:10	Received: 06/23/14 13:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	1190 ug/L		1000	2	06/24/14 00:00	06/27/14 13:58	91-20-3	
Nitrobenzene	ND ug/L		1000	2	06/24/14 00:00	06/27/14 13:58	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	06/24/14 00:00	06/27/14 13:58	87-86-5	
Phenol	9180 ug/L		1000	2	06/24/14 00:00	06/27/14 13:58	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	06/24/14 00:00	06/27/14 13:58	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	06/24/14 00:00	06/27/14 13:58	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	105 %		33-120	2	06/24/14 00:00	06/27/14 13:58	4165-60-0	
2-Fluorobiphenyl (S)	82 %		39-120	2	06/24/14 00:00	06/27/14 13:58	321-60-8	
Terphenyl-d14 (S)	85 %		45-120	2	06/24/14 00:00	06/27/14 13:58	1718-51-0	
Phenol-d6 (S)	33 %		11-120	2	06/24/14 00:00	06/27/14 13:58	13127-88-3	
2-Fluorophenol (S)	44 %		17-120	2	06/24/14 00:00	06/27/14 13:58	367-12-4	
2,4,6-Tribromophenol (S)	96 %		39-120	2	06/24/14 00:00	06/27/14 13:58	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	82600 ug/L		2500	250		06/25/14 17:36	67-64-1	N2
Benzene	ND ug/L		250	250		06/25/14 17:36	71-43-2	
Bromodichloromethane	ND ug/L		250	250		06/25/14 17:36	75-27-4	
Bromoform	ND ug/L		250	250		06/25/14 17:36	75-25-2	
Bromomethane	ND ug/L		1250	250		06/25/14 17:36	74-83-9	
2-Butanone (MEK)	34800 ug/L		2500	250		06/25/14 17:36	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		06/25/14 17:36	56-23-5	
Chloroethane	ND ug/L		250	250		06/25/14 17:36	75-00-3	
Chloroform	ND ug/L		250	250		06/25/14 17:36	67-66-3	
1,4-Dichlorobenzene	ND ug/L		250	250		06/25/14 17:36	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		06/25/14 17:36	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		06/25/14 17:36	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		06/25/14 17:36	156-60-5	
Ethylbenzene	ND ug/L		250	250		06/25/14 17:36	100-41-4	
Methylene chloride	ND ug/L		250	250		06/25/14 17:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		06/25/14 17:36	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		06/25/14 17:36	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		06/25/14 17:36	127-18-4	
Toluene	ND ug/L		250	250		06/25/14 17:36	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		06/25/14 17:36	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		06/25/14 17:36	79-00-5	
Trichloroethene	ND ug/L		250	250		06/25/14 17:36	79-01-6	
Vinyl chloride	ND ug/L		250	250		06/25/14 17:36	75-01-4	
Xylene (Total)	ND ug/L		750	250		06/25/14 17:36	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	97 %		80-120	250		06/25/14 17:36	460-00-4	HS
Toluene-d8 (S)	95 %		80-120	250		06/25/14 17:36	2037-26-5	
1,2-Dichloroethane-d4 (S)	88 %		80-120	250		06/25/14 17:36	17060-07-0	
Preservation pH	6.0		1.0	250		06/25/14 17:36		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	896 mg/L		5.0	1		06/25/14 16:51		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-337

Pace Project No.: 60172158

Sample: 316-337		Lab ID: 60172158001	Collected: 06/21/14 08:10	Received: 06/23/14 13:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	16.4	mg/L	5.0	1		06/25/14 16:56		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	4000	mg/L	5.0	1		06/24/14 13:52		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.5	Std. Units	0.10	1		06/25/14 12:10		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	29700	mg/L	2.0	1	06/23/14 16:17	06/28/14 08:37		H3
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	578	mg/L	20.0	200		06/26/14 11:33	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	51100	mg/L	5000	500		06/27/14 10:34		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-337

Pace Project No.: 60172158

Sample: TRIP BLANK		Lab ID: 60172158002	Collected: 06/21/14 08:10	Received: 06/23/14 13:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		06/25/14 16:03	67-64-1	N2
Benzene	ND ug/L		1.0	1		06/25/14 16:03	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		06/25/14 16:03	75-27-4	
Bromoform	ND ug/L		1.0	1		06/25/14 16:03	75-25-2	
Bromomethane	ND ug/L		5.0	1		06/25/14 16:03	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/25/14 16:03	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		06/25/14 16:03	56-23-5	
Chloroethane	ND ug/L		1.0	1		06/25/14 16:03	75-00-3	
Chloroform	ND ug/L		1.0	1		06/25/14 16:03	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		06/25/14 16:03	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		06/25/14 16:03	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		06/25/14 16:03	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		06/25/14 16:03	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		06/25/14 16:03	100-41-4	
Methylene chloride	ND ug/L		1.0	1		06/25/14 16:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/25/14 16:03	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		06/25/14 16:03	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		06/25/14 16:03	127-18-4	
Toluene	ND ug/L		1.0	1		06/25/14 16:03	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		06/25/14 16:03	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		06/25/14 16:03	79-00-5	
Trichloroethene	ND ug/L		1.0	1		06/25/14 16:03	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		06/25/14 16:03	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		06/25/14 16:03	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	97 %		80-120	1		06/25/14 16:03	460-00-4	
Toluene-d8 (S)	94 %		80-120	1		06/25/14 16:03	2037-26-5	
1,2-Dichloroethane-d4 (S)	88 %		80-120	1		06/25/14 16:03	17060-07-0	
Preservation pH	6.0		1.0	1		06/25/14 16:03		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-337

Pace Project No.: 60172158

QC Batch:	MERP/8534	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
Associated Lab Samples:	60172158001		

METHOD BLANK: 1401318 Matrix: Water
Associated Lab Samples: 60172158001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	06/26/14 14:11	

LABORATORY CONTROL SAMPLE: 1401319

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	99	85-115	

MATRIX SPIKE SAMPLE: 1401320

Parameter	Units	60172072002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	4.4	88	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1401321 1401322

Parameter	Units	60172276001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	150	150	141	145	93	96	70-130	3	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-337

Pace Project No.: 60172158

QC Batch: MERP/8529

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60172158001

METHOD BLANK: 1400587

Matrix: Water

Associated Lab Samples: 60172158001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	06/25/14 13:57	

LABORATORY CONTROL SAMPLE: 1400588

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.6	93	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1400589 1400590

Parameter	Units	60171807001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Spike Conc.	MSD Result						
Mercury, Dissolved	ug/L	ND	150	150	126	128	84	85	70-130	2	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-337

Pace Project No.: 60172158

QC Batch:	MPRP/27804	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
Associated Lab Samples:	60172158001		

METHOD BLANK: 1400543 Matrix: Water

Associated Lab Samples: 60172158001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	06/26/14 11:35	
Antimony	ug/L	ND	10.0	06/26/14 11:35	
Arsenic	ug/L	ND	10.0	06/26/14 11:35	
Beryllium	ug/L	ND	1.0	06/26/14 11:35	
Cadmium	ug/L	ND	5.0	06/26/14 11:35	
Chromium	ug/L	ND	5.0	06/26/14 11:35	
Cobalt	ug/L	ND	5.0	06/26/14 11:35	
Copper	ug/L	ND	10.0	06/26/14 11:35	
Iron	ug/L	ND	50.0	06/26/14 11:35	
Lead	ug/L	ND	5.0	06/26/14 11:35	
Nickel	ug/L	ND	5.0	06/26/14 11:35	
Selenium	ug/L	ND	15.0	06/26/14 11:35	
Silver	ug/L	ND	7.0	06/26/14 11:35	
Thallium	ug/L	ND	20.0	06/26/14 11:35	
Zinc	ug/L	ND	50.0	06/26/14 11:35	

LABORATORY CONTROL SAMPLE: 1400544

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10900	109	85-115	
Antimony	ug/L	1000	1080	108	85-115	
Arsenic	ug/L	1000	1050	105	85-115	
Beryllium	ug/L	1000	1120	112	85-115	
Cadmium	ug/L	1000	1080	108	85-115	
Chromium	ug/L	1000	1120	112	85-115	
Cobalt	ug/L	1000	1110	111	85-115	
Copper	ug/L	1000	1060	106	85-115	
Iron	ug/L	10000	11100	111	85-115	
Lead	ug/L	1000	1120	112	85-115	
Nickel	ug/L	1000	1130	113	85-115	
Selenium	ug/L	1000	1070	107	85-115	
Silver	ug/L	500	538	108	85-115	
Thallium	ug/L	1000	1100	110	85-115	
Zinc	ug/L	1000	1120	112	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-337

Pace Project No.: 60172158

Parameter	Units	60172158001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec							
Aluminum	ug/L	10200	50000	50000	72600	74100	125	128	70-130	2	8					
Antimony	ug/L	85.2	5000	5000	5820	5940	115	117	70-130	2	7					
Arsenic	ug/L	1320	5000	5000	7530	7610	124	126	70-130	1	10					
Beryllium	ug/L	ND	5000	5000	5420	5480	108	110	70-130	1	7					
Cadmium	ug/L	ND	5000	5000	5780	5840	115	117	70-130	1	10					
Chromium	ug/L	262	5000	5000	5650	5730	108	109	70-130	1	10					
Cobalt	ug/L	42.0	5000	5000	5360	5420	106	107	70-130	1	6					
Copper	ug/L	ND	5000	5000	5820	5890	116	117	70-130	1	11					
Iron	ug/L	793000	50000	50000	866000	874000	145	162	70-130	1	10 M1					
Lead	ug/L	120	5000	5000	5120	5200	100	102	70-130	1	10					
Nickel	ug/L	150	5000	5000	5460	5540	106	108	70-130	1	10					
Selenium	ug/L	ND	5000	5000	6590	6680	132	134	70-130	1	10 M1					
Silver	ug/L	ND	2500	2500	2910	2940	116	117	70-130	1	10					
Thallium	ug/L	ND	5000	5000	4610	4660	92	93	70-130	1	6					
Zinc	ug/L	5290	5000	5000	10600	10800	106	111	70-130	2	11					

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-337

Pace Project No.: 60172158

QC Batch: MPRP/27818

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Dissolved

Associated Lab Samples: 60172158001

METHOD BLANK: 1401357

Matrix: Water

Associated Lab Samples: 60172158001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	06/26/14 14:58	
Antimony, Dissolved	ug/L	ND	10.0	06/26/14 14:58	
Arsenic, Dissolved	ug/L	ND	10.0	06/26/14 14:58	
Beryllium, Dissolved	ug/L	ND	1.0	06/26/14 14:58	
Cadmium, Dissolved	ug/L	ND	5.0	06/26/14 14:58	
Chromium, Dissolved	ug/L	ND	5.0	06/26/14 14:58	
Cobalt, Dissolved	ug/L	ND	5.0	06/26/14 14:58	
Copper, Dissolved	ug/L	ND	10.0	06/26/14 14:58	
Iron, Dissolved	ug/L	ND	50.0	06/26/14 14:58	
Lead, Dissolved	ug/L	ND	5.0	06/26/14 14:58	
Nickel, Dissolved	ug/L	ND	5.0	06/26/14 14:58	
Selenium, Dissolved	ug/L	ND	15.0	06/26/14 14:58	
Silver, Dissolved	ug/L	ND	7.0	06/26/14 14:58	
Thallium, Dissolved	ug/L	ND	20.0	06/26/14 14:58	
Zinc, Dissolved	ug/L	ND	50.0	06/26/14 14:58	

LABORATORY CONTROL SAMPLE: 1401358

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9550	95	85-115	
Antimony, Dissolved	ug/L	1000	1010	101	85-115	
Arsenic, Dissolved	ug/L	1000	971	97	85-115	
Beryllium, Dissolved	ug/L	1000	1000	100	85-115	
Cadmium, Dissolved	ug/L	1000	1010	101	85-115	
Chromium, Dissolved	ug/L	1000	972	97	85-115	
Cobalt, Dissolved	ug/L	1000	1020	102	85-115	
Copper, Dissolved	ug/L	1000	968	97	85-115	
Iron, Dissolved	ug/L	10000	9610	96	85-115	
Lead, Dissolved	ug/L	1000	1050	105	85-115	
Nickel, Dissolved	ug/L	1000	1050	105	85-115	
Selenium, Dissolved	ug/L	1000	1020	102	85-115	
Silver, Dissolved	ug/L	500	482	96	85-115	
Thallium, Dissolved	ug/L	1000	1030	103	85-115	
Zinc, Dissolved	ug/L	1000	1020	102	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-337

Pace Project No.: 60172158

Parameter	Units	60172158001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max	RPD	Qual
		Result	Conc.	Spike	Conc.	Result	Conc.	Result	Conc.	% Rec	% Rec						
Aluminum, Dissolved	ug/L	1020	50000	50000	50000	47500	46500	93	91	70-130	2	8					
Antimony, Dissolved	ug/L	ND	5000	5000	5000	5210	5220	103	104	70-130	0	7					
Arsenic, Dissolved	ug/L	938	5000	5000	5000	6230	6230	106	106	70-130	0	10					
Beryllium, Dissolved	ug/L	ND	5000	5000	5000	5080	4790	102	96	70-130	6	7					
Cadmium, Dissolved	ug/L	ND	5000	5000	5000	5220	5240	104	105	70-130	0	10					
Chromium, Dissolved	ug/L	169	5000	5000	5000	4900	4910	95	95	70-130	0	10					
Cobalt, Dissolved	ug/L	ND	5000	5000	5000	4860	4890	97	97	70-130	0	6					
Copper, Dissolved	ug/L	ND	5000	5000	5000	4880	4900	97	98	70-130	0	11					
Iron, Dissolved	ug/L	270000	50000	50000	50000	333000	309000	126	79	70-130	7	10					
Lead, Dissolved	ug/L	46.0	5000	5000	5000	4810	4820	95	96	70-130	0	10					
Nickel, Dissolved	ug/L	95.2	5000	5000	5000	5040	5060	99	99	70-130	0	10					
Selenium, Dissolved	ug/L	ND	5000	5000	5000	5860	5820	117	116	70-130	1	10					
Silver, Dissolved	ug/L	ND	2500	2500	2500	2530	2540	101	102	70-130	1	10					
Thallium, Dissolved	ug/L	ND	5000	5000	5000	4400	4430	88	89	70-130	1	6					
Zinc, Dissolved	ug/L	4200	5000	5000	5000	9150	9120	99	98	70-130	0	11					

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-337

Pace Project No.: 60172158

QC Batch: MSV/62571 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60172158001, 60172158002

METHOD BLANK: 1400773 Matrix: Water

Associated Lab Samples: 60172158001, 60172158002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/25/14 12:41	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/25/14 12:41	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	06/25/14 12:41	
1,2-Dichloroethane	ug/L	ND	1.0	06/25/14 12:41	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/25/14 12:41	
2-Butanone (MEK)	ug/L	ND	10.0	06/25/14 12:41	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/25/14 12:41	N2
Acetone	ug/L	ND	10.0	06/25/14 12:41	N2
Benzene	ug/L	ND	1.0	06/25/14 12:41	
Bromodichloromethane	ug/L	ND	1.0	06/25/14 12:41	
Bromoform	ug/L	ND	1.0	06/25/14 12:41	
Bromomethane	ug/L	ND	5.0	06/25/14 12:41	
Carbon tetrachloride	ug/L	ND	1.0	06/25/14 12:41	
Chloroethane	ug/L	ND	1.0	06/25/14 12:41	
Chloroform	ug/L	ND	1.0	06/25/14 12:41	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/25/14 12:41	N2
Ethylbenzene	ug/L	ND	1.0	06/25/14 12:41	
Methylene chloride	ug/L	ND	1.0	06/25/14 12:41	
Tetrachloroethene	ug/L	ND	1.0	06/25/14 12:41	
Toluene	ug/L	ND	1.0	06/25/14 12:41	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/25/14 12:41	
Trichloroethene	ug/L	ND	1.0	06/25/14 12:41	
Vinyl chloride	ug/L	ND	1.0	06/25/14 12:41	
Xylene (Total)	ug/L	ND	3.0	06/25/14 12:41	N2
1,2-Dichloroethane-d4 (S)	%	97	80-120	06/25/14 12:41	
4-Bromofluorobenzene (S)	%	99	80-120	06/25/14 12:41	
Toluene-d8 (S)	%	98	80-120	06/25/14 12:41	

LABORATORY CONTROL SAMPLE: 1400774

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.5	102	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	22.4	112	67-127	N2
1,1,2-Trichloroethane	ug/L	20	23.2	116	67-124	
1,2-Dichloroethane	ug/L	20	20.0	100	70-126	
1,4-Dichlorobenzene	ug/L	20	21.5	108	74-120	
2-Butanone (MEK)	ug/L	100	105	105	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	113	113	59-131	N2
Acetone	ug/L	100	96.7	97	38-134	N2
Benzene	ug/L	20	21.3	106	75-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-337

Pace Project No.: 60172158

LABORATORY CONTROL SAMPLE: 1400774

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	20	22.5	113	68-125	
Bromoform	ug/L	20	23.3	116	65-127	
Bromomethane	ug/L	20	11.7	59	13-157	
Carbon tetrachloride	ug/L	20	20.0	100	70-131	
Chloroethane	ug/L	20	23.4	117	47-133	
Chloroform	ug/L	20	20.4	102	65-127	
cis-1,2-Dichloroethene	ug/L	20	21.9	109	68-127	N2
Ethylbenzene	ug/L	20	22.0	110	74-122	
Methylene chloride	ug/L	20	19.7	98	64-129	
Tetrachloroethene	ug/L	20	22.6	113	73-125	
Toluene	ug/L	20	20.8	104	69-126	
trans-1,2-Dichloroethene	ug/L	20	20.6	103	66-129	
Trichloroethene	ug/L	20	21.8	109	71-123	
Vinyl chloride	ug/L	20	20.5	102	43-129	
Xylene (Total)	ug/L	60	65.5	109	75-121	N2
1,2-Dichloroethane-d4 (S)	%			92	80-120	
4-Bromofluorobenzene (S)	%			98	80-120	
Toluene-d8 (S)	%			96	80-120	

MATRIX SPIKE SAMPLE: 1400775

Parameter	Units	60171928001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	4750	95	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	5240	105	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	5280	106	52-143	
1,2-Dichloroethane	ug/L	ND	5000	4360	87	49-144	
1,4-Dichlorobenzene	ug/L	301	5000	5170	97	33-140	
2-Butanone (MEK)	ug/L	37800	25000	61200	94	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	25500	100	40-160	N2
Acetone	ug/L	84100	25000	108000	97	10-160	N2
Benzene	ug/L	ND	5000	4830	95	37-151	
Bromodichloromethane	ug/L	ND	5000	4890	98	35-142	
Bromoform	ug/L	ND	5000	5380	108	45-142	
Bromomethane	ug/L	ND	5000	2010	40	10-158	
Carbon tetrachloride	ug/L	ND	5000	5010	100	70-140	
Chloroethane	ug/L	ND	5000	5060	101	19-152	
Chloroform	ug/L	ND	5000	4630	93	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	4800	96	34-147	N2
Ethylbenzene	ug/L	ND	5000	5100	102	40-142	
Methylene chloride	ug/L	ND	5000	4380	87	31-144	
Tetrachloroethene	ug/L	ND	5000	5410	108	64-148	
Toluene	ug/L	ND	5000	4730	92	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	4620	92	54-151	
Trichloroethene	ug/L	ND	5000	4640	93	71-149	
Vinyl chloride	ug/L	ND	5000	4850	97	22-146	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-337

Pace Project No.: 60172158

MATRIX SPIKE SAMPLE:		1400775					
Parameter	Units	60171928001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	ND	15000	15600	104	37-144	N2
1,2-Dichloroethane-d4 (S)	%				90	80-120	
4-Bromofluorobenzene (S)	%				99	80-120	HS
Toluene-d8 (S)	%				95	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-337

Pace Project No.: 60172158

QC Batch:	OEXT/44806	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60172158001		

METHOD BLANK: 1399642 Matrix: Water

Associated Lab Samples: 60172158001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/25/14 13:36	
2,4,6-Trichlorophenol	ug/L	ND	5.0	06/25/14 13:36	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	06/25/14 13:36	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	06/25/14 13:36	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	06/25/14 13:36	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/25/14 13:36	
Hexachlorocyclopentadiene	ug/L	ND	5.0	06/25/14 13:36	
Hexachloroethane	ug/L	ND	5.0	06/25/14 13:36	
Naphthalene	ug/L	ND	5.0	06/25/14 13:36	
Nitrobenzene	ug/L	ND	5.0	06/25/14 13:36	
Pentachlorophenol	ug/L	ND	5.0	06/25/14 13:36	
Phenol	ug/L	ND	5.0	06/25/14 13:36	
2,4,6-Tribromophenol (S)	%	91	39-120	06/25/14 13:36	
2-Fluorobiphenyl (S)	%	88	39-120	06/25/14 13:36	
2-Fluorophenol (S)	%	47	17-120	06/25/14 13:36	
Nitrobenzene-d5 (S)	%	95	33-120	06/25/14 13:36	
Phenol-d6 (S)	%	30	11-120	06/25/14 13:36	
Terphenyl-d14 (S)	%	92	45-120	06/25/14 13:36	

LABORATORY CONTROL SAMPLE: 1399643

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	39.2	78	46-120	
2,4,6-Trichlorophenol	ug/L	50	41.5	83	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	33.4	67	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	30.3	61	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	49.0	98	40-133	
Hexachloro-1,3-butadiene	ug/L	50	37.2	74	44-116	
Hexachlorocyclopentadiene	ug/L	100	64.0	64	24-120	
Hexachloroethane	ug/L	50	36.9	74	43-113	
Naphthalene	ug/L	50	38.9	78	48-120	
Nitrobenzene	ug/L	50	43.5	87	48-120	
Pentachlorophenol	ug/L	50	46.7	93	47-120	
Phenol	ug/L	50	15.8	32	16-112	
2,4,6-Tribromophenol (S)	%			92	39-120	
2-Fluorobiphenyl (S)	%			83	39-120	
2-Fluorophenol (S)	%			46	17-120	
Nitrobenzene-d5 (S)	%			89	33-120	
Phenol-d6 (S)	%			30	11-120	
Terphenyl-d14 (S)	%			89	45-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-337

Pace Project No.: 60172158

MATRIX SPIKE SAMPLE:		1399644					
Parameter	Units	60172159001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3560	71	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4440	89	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	5000	3760	75	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	6770	5000	8730	39	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	5380	108	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3550	71	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	1810	18	11-120	
Hexachloroethane	ug/L	ND	5000	3200	64	40-113	
Naphthalene	ug/L	ND	5000	4440	69	45-120	
Nitrobenzene	ug/L	ND	5000	3890	78	38-120	
Pentachlorophenol	ug/L	ND	5000	4750	95	43-135	
Phenol	ug/L	9860	5000	9930	1	13-112	M1
2,4,6-Tribromophenol (S)	%				104	39-120	
2-Fluorobiphenyl (S)	%				83	39-120	
2-Fluorophenol (S)	%				43	17-120	
Nitrobenzene-d5 (S)	%				106	33-120	
Phenol-d6 (S)	%				32	11-120	
Terphenyl-d14 (S)	%				95	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-337

Pace Project No.: 60172158

QC Batch:	WET/48699	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60172158001		

METHOD BLANK: 1401054 Matrix: Water
Associated Lab Samples: 60172158001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	06/25/14 16:50	

LABORATORY CONTROL SAMPLE: 1401055

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	33.1	83	78-114	

MATRIX SPIKE SAMPLE: 1401056

Parameter	Units	60171861004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	8.0	41.7	52.1	106	78-114	

SAMPLE DUPLICATE: 1401057

Parameter	Units	60171862004 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	6.8	5.9	14	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-337

Pace Project No.: 60172158

QC Batch:	WET/48701	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60172158001		

METHOD BLANK: 1401059 Matrix: Water
Associated Lab Samples: 60172158001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	06/25/14 16:56	

LABORATORY CONTROL SAMPLE: 1401060

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	24.3	122	64-132	

MATRIX SPIKE SAMPLE: 1401061

Parameter	Units	60171861004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	20.8	19.3	84	64-132	

SAMPLE DUPLICATE: 1401062

Parameter	Units	60171862004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	3.3J		34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-337

Pace Project No.: 60172158

QC Batch: WET/48660

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60172158001

METHOD BLANK: 1400063

Matrix: Water

Associated Lab Samples: 60172158001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	06/24/14 13:49	

SAMPLE DUPLICATE: 1400064

Parameter	Units	60172037001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	640	640	0	10	

SAMPLE DUPLICATE: 1400065

Parameter	Units	60172160001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	4240	4560	7	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-337

Pace Project No.: 60172158

QC Batch: WET/48674 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60172158001

SAMPLE DUPLICATE: 1400386

Parameter	Units	60171965001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.9	6.9	1	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-337

Pace Project No.: 60172158

QC Batch: WET/48634

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60172158001

METHOD BLANK: 1399509

Matrix: Water

Associated Lab Samples: 60172158001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	06/28/14 08:15	

LABORATORY CONTROL SAMPLE: 1399510

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	183	93	85-115	

SAMPLE DUPLICATE: 1399511

Parameter	Units	60172160001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	26800	27200	1	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-337

Pace Project No.: 60172158

QC Batch:	WETA/30010	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60172158001		

METHOD BLANK: 1401308 Matrix: Water
Associated Lab Samples: 60172158001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	06/26/14 11:01	

LABORATORY CONTROL SAMPLE: 1401309

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	101	90-110	

MATRIX SPIKE SAMPLE: 1401310

Parameter	Units	60171853003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.33	2	2.1	89	90-110	M1

MATRIX SPIKE SAMPLE: 1401311

Parameter	Units	60171914002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.9	92	90-110	

SAMPLE DUPLICATE: 1401312

Parameter	Units	60171919001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.56	0.56	0	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-337

Pace Project No.: 60172158

QC Batch:	WETA/30005	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60172158001		

METHOD BLANK: 1401245 Matrix: Water
Associated Lab Samples: 60172158001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	06/27/14 10:33	

LABORATORY CONTROL SAMPLE: 1401246

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	52.1	104	90-110	

MATRIX SPIKE SAMPLE: 1401247

Parameter	Units	60172158001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	51100	25000	73500	90	90-110	

MATRIX SPIKE SAMPLE: 1401249

Parameter	Units	60171781002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	41700	50000	90100	97	90-110	

SAMPLE DUPLICATE: 1401248

Parameter	Units	60172160001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	50900	51400	1	25	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 316-337

Pace Project No.: 60172158

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.

PQL - Practical Quantitation 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.

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

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

TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 60172158001

[1] The samples were received with headspace. Analysis was completed upon client approval.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

H3 Sample was received or analysis requested beyond the recognized method holding time.

H6 Analysis initiated outside of the 15 minute EPA recommended holding time.

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

N2 The lab does not hold TNI accreditation for this parameter.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-337

Pace Project No.: 60172158

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60172158001	316-337	EPA 200.7	MPRP/27804	EPA 200.7	ICP/21020
60172158001	316-337	EPA 200.7	MPRP/27818	EPA 200.7	ICP/21032
60172158001	316-337	EPA 245.1	MERP/8534	EPA 245.1	MERC/8489
60172158001	316-337	EPA 245.1	MERP/8529	EPA 245.1	MERC/8484
60172158001	316-337	EPA 625	OEXT/44806	EPA 625	MSSV/14346
60172158001	316-337	EPA 624 Low	MSV/62571		
60172158002	TRIP BLANK	EPA 624 Low	MSV/62571		
60172158001	316-337	EPA 1664A	WET/48699		
60172158001	316-337	EPA 1664A	WET/48701		
60172158001	316-337	SM 2540D	WET/48660		
60172158001	316-337	SM 4500-H+B	WET/48674		
60172158001	316-337	SM 5210B	WET/48634	SM 5210B	WET/48744
60172158001	316-337	EPA 350.1	WETA/30010		
60172158001	316-337	EPA 410.4	WETA/30005		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60172158



Client Name: Republic Barr

Courier: Fed Ex UPS USPS Client Commercial Pace Other XRoads

Tracking #: _____ Pace Shipping Label Used? Yes No

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other

Thermometer Used: T-239 / T-194 Type of Ice: Wet Blue None Samples received on ice, cooling process has begun.

Cooler Temperature: 3.4

Temperature should be above freezing to 6°C

Optional
Proj Due Date:
Proj Name:

Date and initials of person examining contents: JFS 6/23/14 1325

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	5. <u>BOD expired</u>
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>BOD</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix: <u>water</u>		13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. <u>2020 + BBS unable to be preserved.</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>JFS</u> Lot # of added preservative <u>1275-10-3</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank lot # (if purchased): <u>040714-3</u>		15.
Headspace in VOA vials (>6mm):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16. <u>headspace in all sample vials</u> <u>QUALITY/HISTORICAL INSPECTIONS</u>
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <u>MO</u>

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 6/23/14

July 09, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-338
Pace Project No.: 60172159

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 23, 2014. 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.

Amended report revised to include a secondary analysis for Oil and Grease.

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

Sincerely,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Bill Abernathy, Feezor Engineering
Kelly Caddy, Barr Engineering
DAN FEEZOR, FEEZOR ENGINEERING
Dana B. Pasi, Barr Engineering Co.
Brian Power, Republic Services
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-338

Pace Project No.: 60172159

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-13-4

Utah Certification #: KS000212013-3

Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-338

Pace Project No.: 60172159

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60172159001	316-338	Water	06/22/14 08:27	06/23/14 13:00
60172159002	TRIP BLANK	Water	06/22/14 08:27	06/23/14 13:00
60172159003	316-338 RE	Water	06/22/14 08:27	06/23/14 13:00

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-338

Pace Project No.: 60172159

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60172159001	316-338	EPA 200.7	NDJ	15
		EPA 200.7	JGP	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	CRT	1
		EPA 1664A	CRT	1
		SM 2540D	ESM	1
		SM 4500-H+B	NDL	1
		SM 5210B	DJR	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC1	1
		60172159002	TRIP BLANK	EPA 624 Low
60172159003	316-338 RE	EPA 1664A	CRT	1

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-338

Pace Project No.: 60172159

Sample: 316-338		Lab ID: 60172159001	Collected: 06/22/14 08:27	Received: 06/23/14 13:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	10700 ug/L		750	2	06/25/14 09:10	06/26/14 11:59	7429-90-5	
Antimony	72.7 ug/L		50.0	1	06/25/14 09:10	06/26/14 11:57	7440-36-0	
Arsenic	1400 ug/L		50.0	1	06/25/14 09:10	06/26/14 11:57	7440-38-2	
Beryllium	ND ug/L		5.0	1	06/25/14 09:10	06/26/14 11:57	7440-41-7	
Cadmium	ND ug/L		25.0	1	06/25/14 09:10	06/26/14 11:57	7440-43-9	
Chromium	280 ug/L		25.0	1	06/25/14 09:10	06/26/14 11:57	7440-47-3	
Cobalt	48.6 ug/L		25.0	1	06/25/14 09:10	06/26/14 11:57	7440-48-4	
Copper	ND ug/L		50.0	1	06/25/14 09:10	06/26/14 11:57	7440-50-8	
Iron	856000 ug/L		250	1	06/25/14 09:10	06/26/14 11:57	7439-89-6	
Lead	144 ug/L		25.0	1	06/25/14 09:10	06/26/14 11:57	7439-92-1	
Nickel	164 ug/L		25.0	1	06/25/14 09:10	06/26/14 11:57	7440-02-0	
Selenium	ND ug/L		75.0	1	06/25/14 09:10	06/26/14 11:57	7782-49-2	
Silver	ND ug/L		35.0	1	06/25/14 09:10	06/26/14 11:57	7440-22-4	
Thallium	ND ug/L		100	1	06/25/14 09:10	06/26/14 11:57	7440-28-0	
Zinc	5550 ug/L		500	2	06/25/14 09:10	06/26/14 11:59	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	ND ug/L		750	2	06/26/14 10:10	06/26/14 15:37	7429-90-5	
Antimony, Dissolved	ND ug/L		100	2	06/26/14 10:10	06/26/14 15:37	7440-36-0	D3
Arsenic, Dissolved	852 ug/L		50.0	1	06/26/14 10:10	06/26/14 15:33	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	06/26/14 10:10	06/26/14 15:33	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	06/26/14 10:10	06/26/14 15:33	7440-43-9	
Chromium, Dissolved	155 ug/L		25.0	1	06/26/14 10:10	06/26/14 15:33	7440-47-3	
Cobalt, Dissolved	ND ug/L		25.0	1	06/26/14 10:10	06/26/14 15:33	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	06/26/14 10:10	06/26/14 15:33	7440-50-8	
Iron, Dissolved	242000 ug/L		250	1	06/26/14 10:10	06/26/14 15:33	7439-89-6	
Lead, Dissolved	45.2 ug/L		25.0	1	06/26/14 10:10	06/26/14 15:33	7439-92-1	
Nickel, Dissolved	87.8 ug/L		25.0	1	06/26/14 10:10	06/26/14 15:33	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	06/26/14 10:10	06/26/14 15:33	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	06/26/14 10:10	06/26/14 15:33	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	06/26/14 10:10	06/26/14 15:33	7440-28-0	
Zinc, Dissolved	3860 ug/L		500	2	06/26/14 10:10	06/26/14 15:37	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	16.2 ug/L		6.0	1	06/26/14 08:45	06/26/14 14:20	7439-97-6	
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND ug/L		6.0	1	06/25/14 10:30	06/25/14 14:17	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	06/24/14 00:00	06/27/14 14:18	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	06/24/14 00:00	06/27/14 14:18	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	06/24/14 00:00	06/27/14 14:18	77-47-4	
Hexachloroethane	ND ug/L		1000	2	06/24/14 00:00	06/27/14 14:18	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	2	06/24/14 00:00	06/27/14 14:18	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	6770 ug/L		4000	2	06/24/14 00:00	06/27/14 14:18		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-338

Pace Project No.: 60172159

Sample: 316-338		Lab ID: 60172159001	Collected: 06/22/14 08:27	Received: 06/23/14 13:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	ND ug/L		1000	2	06/24/14 00:00	06/27/14 14:18	91-20-3	
Nitrobenzene	ND ug/L		1000	2	06/24/14 00:00	06/27/14 14:18	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	06/24/14 00:00	06/27/14 14:18	87-86-5	
Phenol	9860 ug/L		1000	2	06/24/14 00:00	06/27/14 14:18	108-95-2	M1
1,2,4-Trichlorobenzene	ND ug/L		1000	2	06/24/14 00:00	06/27/14 14:18	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	06/24/14 00:00	06/27/14 14:18	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	143 %		33-120	2	06/24/14 00:00	06/27/14 14:18	4165-60-0	S0
2-Fluorobiphenyl (S)	82 %		39-120	2	06/24/14 00:00	06/27/14 14:18	321-60-8	
Terphenyl-d14 (S)	91 %		45-120	2	06/24/14 00:00	06/27/14 14:18	1718-51-0	
Phenol-d6 (S)	34 %		11-120	2	06/24/14 00:00	06/27/14 14:18	13127-88-3	
2-Fluorophenol (S)	45 %		17-120	2	06/24/14 00:00	06/27/14 14:18	367-12-4	
2,4,6-Tribromophenol (S)	98 %		39-120	2	06/24/14 00:00	06/27/14 14:18	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	85700 ug/L		2500	250		06/25/14 17:52	67-64-1	N2
Benzene	ND ug/L		250	250		06/25/14 17:52	71-43-2	
Bromodichloromethane	ND ug/L		250	250		06/25/14 17:52	75-27-4	
Bromoform	ND ug/L		250	250		06/25/14 17:52	75-25-2	
Bromomethane	ND ug/L		1250	250		06/25/14 17:52	74-83-9	
2-Butanone (MEK)	36400 ug/L		2500	250		06/25/14 17:52	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		06/25/14 17:52	56-23-5	
Chloroethane	ND ug/L		250	250		06/25/14 17:52	75-00-3	
Chloroform	ND ug/L		250	250		06/25/14 17:52	67-66-3	
1,4-Dichlorobenzene	ND ug/L		250	250		06/25/14 17:52	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		06/25/14 17:52	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		06/25/14 17:52	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		06/25/14 17:52	156-60-5	
Ethylbenzene	ND ug/L		250	250		06/25/14 17:52	100-41-4	
Methylene chloride	ND ug/L		250	250		06/25/14 17:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		06/25/14 17:52	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		06/25/14 17:52	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		06/25/14 17:52	127-18-4	
Toluene	ND ug/L		250	250		06/25/14 17:52	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		06/25/14 17:52	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		06/25/14 17:52	79-00-5	
Trichloroethene	ND ug/L		250	250		06/25/14 17:52	79-01-6	
Vinyl chloride	ND ug/L		250	250		06/25/14 17:52	75-01-4	
Xylene (Total)	ND ug/L		750	250		06/25/14 17:52	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	98 %		80-120	250		06/25/14 17:52	460-00-4	HS
Toluene-d8 (S)	92 %		80-120	250		06/25/14 17:52	2037-26-5	
1,2-Dichloroethane-d4 (S)	90 %		80-120	250		06/25/14 17:52	17060-07-0	
Preservation pH	6.0		1.0	250		06/25/14 17:52		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	121 mg/L		5.0	1		06/25/14 16:51		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-338

Pace Project No.: 60172159

Sample: 316-338		Lab ID: 60172159001	Collected: 06/22/14 08:27	Received: 06/23/14 13:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	11.2 mg/L		5.0	1		06/25/14 16:57		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	4300 mg/L		5.0	1		06/24/14 13:52		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.4 Std. Units		0.10	1		06/25/14 12:10		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	25800 mg/L		2.0	1	06/23/14 16:18	06/28/14 08:39		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	579 mg/L		20.0	200		06/26/14 11:36	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	51300 mg/L		5000	500		06/27/14 10:35		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-338

Pace Project No.: 60172159

Sample: TRIP BLANK	Lab ID: 60172159002	Collected: 06/22/14 08:27	Received: 06/23/14 13:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		06/25/14 16:19	67-64-1	N2
Benzene	ND ug/L		1.0	1		06/25/14 16:19	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		06/25/14 16:19	75-27-4	
Bromoform	ND ug/L		1.0	1		06/25/14 16:19	75-25-2	
Bromomethane	ND ug/L		5.0	1		06/25/14 16:19	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/25/14 16:19	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		06/25/14 16:19	56-23-5	
Chloroethane	ND ug/L		1.0	1		06/25/14 16:19	75-00-3	
Chloroform	ND ug/L		1.0	1		06/25/14 16:19	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		06/25/14 16:19	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		06/25/14 16:19	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		06/25/14 16:19	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		06/25/14 16:19	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		06/25/14 16:19	100-41-4	
Methylene chloride	ND ug/L		1.0	1		06/25/14 16:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/25/14 16:19	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		06/25/14 16:19	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		06/25/14 16:19	127-18-4	
Toluene	ND ug/L		1.0	1		06/25/14 16:19	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		06/25/14 16:19	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		06/25/14 16:19	79-00-5	
Trichloroethene	ND ug/L		1.0	1		06/25/14 16:19	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		06/25/14 16:19	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		06/25/14 16:19	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	98 %		80-120	1		06/25/14 16:19	460-00-4	
Toluene-d8 (S)	94 %		80-120	1		06/25/14 16:19	2037-26-5	
1,2-Dichloroethane-d4 (S)	86 %		80-120	1		06/25/14 16:19	17060-07-0	
Preservation pH	6.0		1.0	1		06/25/14 16:19		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-338

Pace Project No.: 60172159

Sample: 316-338 RE	Lab ID: 60172159003	Collected: 06/22/14 08:27	Received: 06/23/14 13:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	979	mg/L	5.0	1		07/01/14 16:29		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-338

Pace Project No.: 60172159

QC Batch:	MERP/8534	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
Associated Lab Samples:	60172159001		

METHOD BLANK: 1401318 Matrix: Water
Associated Lab Samples: 60172159001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	06/26/14 14:11	

LABORATORY CONTROL SAMPLE: 1401319

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	99	85-115	

MATRIX SPIKE SAMPLE: 1401320

Parameter	Units	60172072002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	4.4	88	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1401321 1401322

Parameter	Units	60172276001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	150	150	141	145	93	96	70-130	3	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-338

Pace Project No.: 60172159

QC Batch:	MERP/8529	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury - Dissolved
Associated Lab Samples:	60172159001		

METHOD BLANK: 1400587 Matrix: Water
Associated Lab Samples: 60172159001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	06/25/14 13:57	

LABORATORY CONTROL SAMPLE: 1400588

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.6	93	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1400589 1400590

Parameter	Units	60171807001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Mercury, Dissolved	ug/L	ND	150	150	126	128	84	85	70-130	2	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-338

Pace Project No.: 60172159

QC Batch: MPRP/27804 Analysis Method: EPA 200.7
 QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
 Associated Lab Samples: 60172159001

METHOD BLANK: 1400543 Matrix: Water

Associated Lab Samples: 60172159001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	06/26/14 11:35	
Antimony	ug/L	ND	10.0	06/26/14 11:35	
Arsenic	ug/L	ND	10.0	06/26/14 11:35	
Beryllium	ug/L	ND	1.0	06/26/14 11:35	
Cadmium	ug/L	ND	5.0	06/26/14 11:35	
Chromium	ug/L	ND	5.0	06/26/14 11:35	
Cobalt	ug/L	ND	5.0	06/26/14 11:35	
Copper	ug/L	ND	10.0	06/26/14 11:35	
Iron	ug/L	ND	50.0	06/26/14 11:35	
Lead	ug/L	ND	5.0	06/26/14 11:35	
Nickel	ug/L	ND	5.0	06/26/14 11:35	
Selenium	ug/L	ND	15.0	06/26/14 11:35	
Silver	ug/L	ND	7.0	06/26/14 11:35	
Thallium	ug/L	ND	20.0	06/26/14 11:35	
Zinc	ug/L	ND	50.0	06/26/14 11:35	

LABORATORY CONTROL SAMPLE: 1400544

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10900	109	85-115	
Antimony	ug/L	1000	1080	108	85-115	
Arsenic	ug/L	1000	1050	105	85-115	
Beryllium	ug/L	1000	1120	112	85-115	
Cadmium	ug/L	1000	1080	108	85-115	
Chromium	ug/L	1000	1120	112	85-115	
Cobalt	ug/L	1000	1110	111	85-115	
Copper	ug/L	1000	1060	106	85-115	
Iron	ug/L	10000	11100	111	85-115	
Lead	ug/L	1000	1120	112	85-115	
Nickel	ug/L	1000	1130	113	85-115	
Selenium	ug/L	1000	1070	107	85-115	
Silver	ug/L	500	538	108	85-115	
Thallium	ug/L	1000	1100	110	85-115	
Zinc	ug/L	1000	1120	112	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-338

Pace Project No.: 60172159

Parameter	Units	60172158001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec							
Aluminum	ug/L	10200	50000	50000	72600	74100	125	128	70-130	2	8					
Antimony	ug/L	85.2	5000	5000	5820	5940	115	117	70-130	2	7					
Arsenic	ug/L	1320	5000	5000	7530	7610	124	126	70-130	1	10					
Beryllium	ug/L	ND	5000	5000	5420	5480	108	110	70-130	1	7					
Cadmium	ug/L	ND	5000	5000	5780	5840	115	117	70-130	1	10					
Chromium	ug/L	262	5000	5000	5650	5730	108	109	70-130	1	10					
Cobalt	ug/L	42.0	5000	5000	5360	5420	106	107	70-130	1	6					
Copper	ug/L	ND	5000	5000	5820	5890	116	117	70-130	1	11					
Iron	ug/L	793000	50000	50000	866000	874000	145	162	70-130	1	10 M1					
Lead	ug/L	120	5000	5000	5120	5200	100	102	70-130	1	10					
Nickel	ug/L	150	5000	5000	5460	5540	106	108	70-130	1	10					
Selenium	ug/L	ND	5000	5000	6590	6680	132	134	70-130	1	10 M1					
Silver	ug/L	ND	2500	2500	2910	2940	116	117	70-130	1	10					
Thallium	ug/L	ND	5000	5000	4610	4660	92	93	70-130	1	6					
Zinc	ug/L	5290	5000	5000	10600	10800	106	111	70-130	2	11					

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-338

Pace Project No.: 60172159

QC Batch: MPRP/27818

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Dissolved

Associated Lab Samples: 60172159001

METHOD BLANK: 1401357

Matrix: Water

Associated Lab Samples: 60172159001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	06/26/14 14:58	
Antimony, Dissolved	ug/L	ND	10.0	06/26/14 14:58	
Arsenic, Dissolved	ug/L	ND	10.0	06/26/14 14:58	
Beryllium, Dissolved	ug/L	ND	1.0	06/26/14 14:58	
Cadmium, Dissolved	ug/L	ND	5.0	06/26/14 14:58	
Chromium, Dissolved	ug/L	ND	5.0	06/26/14 14:58	
Cobalt, Dissolved	ug/L	ND	5.0	06/26/14 14:58	
Copper, Dissolved	ug/L	ND	10.0	06/26/14 14:58	
Iron, Dissolved	ug/L	ND	50.0	06/26/14 14:58	
Lead, Dissolved	ug/L	ND	5.0	06/26/14 14:58	
Nickel, Dissolved	ug/L	ND	5.0	06/26/14 14:58	
Selenium, Dissolved	ug/L	ND	15.0	06/26/14 14:58	
Silver, Dissolved	ug/L	ND	7.0	06/26/14 14:58	
Thallium, Dissolved	ug/L	ND	20.0	06/26/14 14:58	
Zinc, Dissolved	ug/L	ND	50.0	06/26/14 14:58	

LABORATORY CONTROL SAMPLE: 1401358

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9550	95	85-115	
Antimony, Dissolved	ug/L	1000	1010	101	85-115	
Arsenic, Dissolved	ug/L	1000	971	97	85-115	
Beryllium, Dissolved	ug/L	1000	1000	100	85-115	
Cadmium, Dissolved	ug/L	1000	1010	101	85-115	
Chromium, Dissolved	ug/L	1000	972	97	85-115	
Cobalt, Dissolved	ug/L	1000	1020	102	85-115	
Copper, Dissolved	ug/L	1000	968	97	85-115	
Iron, Dissolved	ug/L	10000	9610	96	85-115	
Lead, Dissolved	ug/L	1000	1050	105	85-115	
Nickel, Dissolved	ug/L	1000	1050	105	85-115	
Selenium, Dissolved	ug/L	1000	1020	102	85-115	
Silver, Dissolved	ug/L	500	482	96	85-115	
Thallium, Dissolved	ug/L	1000	1030	103	85-115	
Zinc, Dissolved	ug/L	1000	1020	102	85-115	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-338

Pace Project No.: 60172159

Parameter	Units	60172158001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max	RPD	Qual
		Result	Conc.	Spike	Conc.	Result	Conc.	% Rec	% Rec								
Aluminum, Dissolved	ug/L	1020	50000	50000	50000	47500	46500	93	91	70-130	2	8					
Antimony, Dissolved	ug/L	ND	5000	5000	5000	5210	5220	103	104	70-130	0	7					
Arsenic, Dissolved	ug/L	938	5000	5000	5000	6230	6230	106	106	70-130	0	10					
Beryllium, Dissolved	ug/L	ND	5000	5000	5000	5080	4790	102	96	70-130	6	7					
Cadmium, Dissolved	ug/L	ND	5000	5000	5000	5220	5240	104	105	70-130	0	10					
Chromium, Dissolved	ug/L	169	5000	5000	5000	4900	4910	95	95	70-130	0	10					
Cobalt, Dissolved	ug/L	ND	5000	5000	5000	4860	4890	97	97	70-130	0	6					
Copper, Dissolved	ug/L	ND	5000	5000	5000	4880	4900	97	98	70-130	0	11					
Iron, Dissolved	ug/L	270000	50000	50000	50000	333000	309000	126	79	70-130	7	10					
Lead, Dissolved	ug/L	46.0	5000	5000	5000	4810	4820	95	96	70-130	0	10					
Nickel, Dissolved	ug/L	95.2	5000	5000	5000	5040	5060	99	99	70-130	0	10					
Selenium, Dissolved	ug/L	ND	5000	5000	5000	5860	5820	117	116	70-130	1	10					
Silver, Dissolved	ug/L	ND	2500	2500	2500	2530	2540	101	102	70-130	1	10					
Thallium, Dissolved	ug/L	ND	5000	5000	5000	4400	4430	88	89	70-130	1	6					
Zinc, Dissolved	ug/L	4200	5000	5000	5000	9150	9120	99	98	70-130	0	11					

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-338

Pace Project No.: 60172159

QC Batch: MSV/62571 Analysis Method: EPA 624 Low
 QC Batch Method: EPA 624 Low Analysis Description: 624 MSV
 Associated Lab Samples: 60172159001, 60172159002

METHOD BLANK: 1400773 Matrix: Water

Associated Lab Samples: 60172159001, 60172159002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/25/14 12:41	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/25/14 12:41	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	06/25/14 12:41	
1,2-Dichloroethane	ug/L	ND	1.0	06/25/14 12:41	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/25/14 12:41	
2-Butanone (MEK)	ug/L	ND	10.0	06/25/14 12:41	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/25/14 12:41	N2
Acetone	ug/L	ND	10.0	06/25/14 12:41	N2
Benzene	ug/L	ND	1.0	06/25/14 12:41	
Bromodichloromethane	ug/L	ND	1.0	06/25/14 12:41	
Bromoform	ug/L	ND	1.0	06/25/14 12:41	
Bromomethane	ug/L	ND	5.0	06/25/14 12:41	
Carbon tetrachloride	ug/L	ND	1.0	06/25/14 12:41	
Chloroethane	ug/L	ND	1.0	06/25/14 12:41	
Chloroform	ug/L	ND	1.0	06/25/14 12:41	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/25/14 12:41	N2
Ethylbenzene	ug/L	ND	1.0	06/25/14 12:41	
Methylene chloride	ug/L	ND	1.0	06/25/14 12:41	
Tetrachloroethene	ug/L	ND	1.0	06/25/14 12:41	
Toluene	ug/L	ND	1.0	06/25/14 12:41	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/25/14 12:41	
Trichloroethene	ug/L	ND	1.0	06/25/14 12:41	
Vinyl chloride	ug/L	ND	1.0	06/25/14 12:41	
Xylene (Total)	ug/L	ND	3.0	06/25/14 12:41	N2
1,2-Dichloroethane-d4 (S)	%	97	80-120	06/25/14 12:41	
4-Bromofluorobenzene (S)	%	99	80-120	06/25/14 12:41	
Toluene-d8 (S)	%	98	80-120	06/25/14 12:41	

LABORATORY CONTROL SAMPLE: 1400774

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.5	102	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	22.4	112	67-127	N2
1,1,2-Trichloroethane	ug/L	20	23.2	116	67-124	
1,2-Dichloroethane	ug/L	20	20.0	100	70-126	
1,4-Dichlorobenzene	ug/L	20	21.5	108	74-120	
2-Butanone (MEK)	ug/L	100	105	105	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	113	113	59-131	N2
Acetone	ug/L	100	96.7	97	38-134	N2
Benzene	ug/L	20	21.3	106	75-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-338

Pace Project No.: 60172159

LABORATORY CONTROL SAMPLE: 1400774

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	20	22.5	113	68-125	
Bromoform	ug/L	20	23.3	116	65-127	
Bromomethane	ug/L	20	11.7	59	13-157	
Carbon tetrachloride	ug/L	20	20.0	100	70-131	
Chloroethane	ug/L	20	23.4	117	47-133	
Chloroform	ug/L	20	20.4	102	65-127	
cis-1,2-Dichloroethene	ug/L	20	21.9	109	68-127	N2
Ethylbenzene	ug/L	20	22.0	110	74-122	
Methylene chloride	ug/L	20	19.7	98	64-129	
Tetrachloroethene	ug/L	20	22.6	113	73-125	
Toluene	ug/L	20	20.8	104	69-126	
trans-1,2-Dichloroethene	ug/L	20	20.6	103	66-129	
Trichloroethene	ug/L	20	21.8	109	71-123	
Vinyl chloride	ug/L	20	20.5	102	43-129	
Xylene (Total)	ug/L	60	65.5	109	75-121	N2
1,2-Dichloroethane-d4 (S)	%			92	80-120	
4-Bromofluorobenzene (S)	%			98	80-120	
Toluene-d8 (S)	%			96	80-120	

MATRIX SPIKE SAMPLE: 1400775

Parameter	Units	60171928001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	4750	95	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	5240	105	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	5280	106	52-143	
1,2-Dichloroethane	ug/L	ND	5000	4360	87	49-144	
1,4-Dichlorobenzene	ug/L	301	5000	5170	97	33-140	
2-Butanone (MEK)	ug/L	37800	25000	61200	94	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	25500	100	40-160	N2
Acetone	ug/L	84100	25000	108000	97	10-160	N2
Benzene	ug/L	ND	5000	4830	95	37-151	
Bromodichloromethane	ug/L	ND	5000	4890	98	35-142	
Bromoform	ug/L	ND	5000	5380	108	45-142	
Bromomethane	ug/L	ND	5000	2010	40	10-158	
Carbon tetrachloride	ug/L	ND	5000	5010	100	70-140	
Chloroethane	ug/L	ND	5000	5060	101	19-152	
Chloroform	ug/L	ND	5000	4630	93	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	4800	96	34-147	N2
Ethylbenzene	ug/L	ND	5000	5100	102	40-142	
Methylene chloride	ug/L	ND	5000	4380	87	31-144	
Tetrachloroethene	ug/L	ND	5000	5410	108	64-148	
Toluene	ug/L	ND	5000	4730	92	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	4620	92	54-151	
Trichloroethene	ug/L	ND	5000	4640	93	71-149	
Vinyl chloride	ug/L	ND	5000	4850	97	22-146	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-338

Pace Project No.: 60172159

MATRIX SPIKE SAMPLE:		1400775					
Parameter	Units	60171928001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	ND	15000	15600	104	37-144	N2
1,2-Dichloroethane-d4 (S)	%				90	80-120	
4-Bromofluorobenzene (S)	%				99	80-120	HS
Toluene-d8 (S)	%				95	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-338

Pace Project No.: 60172159

QC Batch:	OEXT/44806	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60172159001		

METHOD BLANK: 1399642 Matrix: Water

Associated Lab Samples: 60172159001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/25/14 13:36	
2,4,6-Trichlorophenol	ug/L	ND	5.0	06/25/14 13:36	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	06/25/14 13:36	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	06/25/14 13:36	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	06/25/14 13:36	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/25/14 13:36	
Hexachlorocyclopentadiene	ug/L	ND	5.0	06/25/14 13:36	
Hexachloroethane	ug/L	ND	5.0	06/25/14 13:36	
Naphthalene	ug/L	ND	5.0	06/25/14 13:36	
Nitrobenzene	ug/L	ND	5.0	06/25/14 13:36	
Pentachlorophenol	ug/L	ND	5.0	06/25/14 13:36	
Phenol	ug/L	ND	5.0	06/25/14 13:36	
2,4,6-Tribromophenol (S)	%	91	39-120	06/25/14 13:36	
2-Fluorobiphenyl (S)	%	88	39-120	06/25/14 13:36	
2-Fluorophenol (S)	%	47	17-120	06/25/14 13:36	
Nitrobenzene-d5 (S)	%	95	33-120	06/25/14 13:36	
Phenol-d6 (S)	%	30	11-120	06/25/14 13:36	
Terphenyl-d14 (S)	%	92	45-120	06/25/14 13:36	

LABORATORY CONTROL SAMPLE: 1399643

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	39.2	78	46-120	
2,4,6-Trichlorophenol	ug/L	50	41.5	83	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	33.4	67	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	30.3	61	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	49.0	98	40-133	
Hexachloro-1,3-butadiene	ug/L	50	37.2	74	44-116	
Hexachlorocyclopentadiene	ug/L	100	64.0	64	24-120	
Hexachloroethane	ug/L	50	36.9	74	43-113	
Naphthalene	ug/L	50	38.9	78	48-120	
Nitrobenzene	ug/L	50	43.5	87	48-120	
Pentachlorophenol	ug/L	50	46.7	93	47-120	
Phenol	ug/L	50	15.8	32	16-112	
2,4,6-Tribromophenol (S)	%			92	39-120	
2-Fluorobiphenyl (S)	%			83	39-120	
2-Fluorophenol (S)	%			46	17-120	
Nitrobenzene-d5 (S)	%			89	33-120	
Phenol-d6 (S)	%			30	11-120	
Terphenyl-d14 (S)	%			89	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-338

Pace Project No.: 60172159

MATRIX SPIKE SAMPLE:		1399644					
Parameter	Units	60172159001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3560	71	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4440	89	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	5000	3760	75	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	6770	5000	8730	39	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	5380	108	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3550	71	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	1810	18	11-120	
Hexachloroethane	ug/L	ND	5000	3200	64	40-113	
Naphthalene	ug/L	ND	5000	4440	69	45-120	
Nitrobenzene	ug/L	ND	5000	3890	78	38-120	
Pentachlorophenol	ug/L	ND	5000	4750	95	43-135	
Phenol	ug/L	9860	5000	9930	1	13-112	M1
2,4,6-Tribromophenol (S)	%				104	39-120	
2-Fluorobiphenyl (S)	%				83	39-120	
2-Fluorophenol (S)	%				43	17-120	
Nitrobenzene-d5 (S)	%				106	33-120	
Phenol-d6 (S)	%				32	11-120	
Terphenyl-d14 (S)	%				95	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-338

Pace Project No.: 60172159

QC Batch:	WET/48699	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60172159001		

METHOD BLANK: 1401054 Matrix: Water

Associated Lab Samples: 60172159001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	06/25/14 16:50	

LABORATORY CONTROL SAMPLE: 1401055

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	33.1	83	78-114	

MATRIX SPIKE SAMPLE: 1401056

Parameter	Units	60171861004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	8.0	41.7	52.1	106	78-114	

SAMPLE DUPLICATE: 1401057

Parameter	Units	60171862004 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	6.8	5.9	14	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-338

Pace Project No.: 60172159

QC Batch:	WET/48798	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60172159003		

METHOD BLANK: 1404276 Matrix: Water
Associated Lab Samples: 60172159003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	07/01/14 16:28	

LABORATORY CONTROL SAMPLE: 1404277

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	34.2	85	78-114	

MATRIX SPIKE SAMPLE: 1404279

Parameter	Units	60172705001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	410	41.7	411	3	78-114	M1

SAMPLE DUPLICATE: 1404278

Parameter	Units	60172704001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-338

Pace Project No.: 60172159

QC Batch: WET/48701

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60172159001

METHOD BLANK: 1401059

Matrix: Water

Associated Lab Samples: 60172159001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	06/25/14 16:56	

LABORATORY CONTROL SAMPLE: 1401060

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	24.3	122	64-132	

MATRIX SPIKE SAMPLE: 1401061

Parameter	Units	60171861004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	20.8	19.3	84	64-132	

SAMPLE DUPLICATE: 1401062

Parameter	Units	60171862004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	3.3J		34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-338

Pace Project No.: 60172159

QC Batch: WET/48660

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60172159001

METHOD BLANK: 1400063

Matrix: Water

Associated Lab Samples: 60172159001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	06/24/14 13:49	

SAMPLE DUPLICATE: 1400064

Parameter	Units	60172037001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	640	640	0	10	

SAMPLE DUPLICATE: 1400065

Parameter	Units	60172160001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	4240	4560	7	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-338

Pace Project No.: 60172159

QC Batch: WET/48674 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60172159001

SAMPLE DUPLICATE: 1400386

Parameter	Units	60171965001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.9	6.9	1	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-338

Pace Project No.: 60172159

QC Batch:	WET/48634	Analysis Method:	SM 5210B
QC Batch Method:	SM 5210B	Analysis Description:	5210B BOD, 5 day
Associated Lab Samples:	60172159001		

METHOD BLANK: 1399509 Matrix: Water
Associated Lab Samples: 60172159001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	06/28/14 08:15	

LABORATORY CONTROL SAMPLE: 1399510

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	183	93	85-115	

SAMPLE DUPLICATE: 1399511

Parameter	Units	60172160001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	26800	27200	1	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-338

Pace Project No.: 60172159

QC Batch:	WETA/30011	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60172159001		

METHOD BLANK: 1401323 Matrix: Water
Associated Lab Samples: 60172159001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	06/26/14 11:34	

LABORATORY CONTROL SAMPLE: 1401324

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	101	90-110	

MATRIX SPIKE SAMPLE: 1401325

Parameter	Units	60172214001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.4	70	90-110	M1

MATRIX SPIKE SAMPLE: 1401326

Parameter	Units	60172228006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.1	104	90-110	

SAMPLE DUPLICATE: 1401332

Parameter	Units	60172276001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	576	584	1	18	

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-338

Pace Project No.: 60172159

QC Batch:	WETA/30005	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60172159001		

METHOD BLANK: 1401245 Matrix: Water
Associated Lab Samples: 60172159001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	06/27/14 10:33	

LABORATORY CONTROL SAMPLE: 1401246

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	52.1	104	90-110	

MATRIX SPIKE SAMPLE: 1401247

Parameter	Units	60172158001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	51100	25000	73500	90	90-110	

MATRIX SPIKE SAMPLE: 1401249

Parameter	Units	60171781002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	41700	50000	90100	97	90-110	

SAMPLE DUPLICATE: 1401248

Parameter	Units	60172160001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	50900	51400	1	25	

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QUALIFIERS

Project: BRIDGETON LF 316-338

Pace Project No.: 60172159

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.

PQL - Practical Quantitation 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.

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

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

TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 60172159001

[1] The samples were received with headspace. Analysis was completed upon client approval.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

H6 Analysis initiated outside of the 15 minute EPA recommended holding time.

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

N2 The lab does not hold TNI accreditation for this parameter.

S0 Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-338

Pace Project No.: 60172159

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60172159001	316-338	EPA 200.7	MPRP/27804	EPA 200.7	ICP/21020
60172159001	316-338	EPA 200.7	MPRP/27818	EPA 200.7	ICP/21032
60172159001	316-338	EPA 245.1	MERP/8534	EPA 245.1	MERC/8489
60172159001	316-338	EPA 245.1	MERP/8529	EPA 245.1	MERC/8484
60172159001	316-338	EPA 625	OEXT/44806	EPA 625	MSSV/14346
60172159001	316-338	EPA 624 Low	MSV/62571		
60172159002	TRIP BLANK	EPA 624 Low	MSV/62571		
60172159001	316-338	EPA 1664A	WET/48699		
60172159003	316-338 RE	EPA 1664A	WET/48798		
60172159001	316-338	EPA 1664A	WET/48701		
60172159001	316-338	SM 2540D	WET/48660		
60172159001	316-338	SM 4500-H+B	WET/48674		
60172159001	316-338	SM 5210B	WET/48634	SM 5210B	WET/48744
60172159001	316-338	EPA 350.1	WETA/30011		
60172159001	316-338	EPA 410.4	WETA/30005		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60172159



Client Name: Republic Barr

Courier: Fed Ex [] UPS [] USPS [] Client [] Commercial [X] Pace [] Other [X] Road

Tracking #: Pace Shipping Label Used? Yes [] No [X]

Custody Seal on Cooler/Box Present: Yes [X] No [] Seals intact: Yes [X] No []

Packing Material: Bubble Wrap [X] Bubble Bags [] Foam [X] None [] Other []

Thermometer Used: T-239 / T-194 Type of Ice: Wet [X] Blue [] None [] Samples received on ice, cooling process has begun.

Cooler Temperature: 2-6 (circle one)

Date and initials of person examining contents: JS 6/23/14 1325

Temperature should be above freezing to 6°C

Table with 17 rows of inspection items and checkboxes. Includes handwritten notes like 'BOD expired off', 'BOD', 'BPN + BSS unable to be preserved', and 'headspace in all sample vials sat 5 - FOOTING / HISTORICAL INSTRUCTIONS'.

Client Notification/ Resolution: Copy COC to Client? Y [] N [X] Field Data Required? Y [] N [X]

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Date:

June 30, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-339
Pace Project No.: 60172160

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 23, 2014. 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,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Bill Abernathy, Feezor Engineering
Kelly Caddy, Barr Engineering
DAN FEEZOR, FEEZOR ENGINEERING
Dana B. Pasi, Barr Engineering Co.
Brian Power, Republic Services
Brian Sehie, Republic Services
Margaret Treanor, Barr Engineering Company



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CERTIFICATIONS

Project: BRIDGETON LF 316-339

Pace Project No.: 60172160

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-13-4

Utah Certification #: KS000212013-3

Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-339

Pace Project No.: 60172160

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60172160001	316-339	Water	06/23/14 08:06	06/23/14 13:00
60172160002	TRIP BLANK	Water	06/23/14 08:06	06/23/14 13:00

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-339

Pace Project No.: 60172160

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60172160001	316-339	EPA 200.7	NDJ	15
		EPA 200.7	JGP	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	CRT	1
		EPA 1664A	CRT	1
		SM 2540D	ESM	1
		SM 4500-H+B	NDL	1
		SM 5210B	DJR	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC1	1
		60172160002	TRIP BLANK	EPA 624 Low

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-339

Pace Project No.: 60172160

Sample: 316-339		Lab ID: 60172160001	Collected: 06/23/14 08:06	Received: 06/23/14 13:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	9840 ug/L		750	2	06/25/14 09:10	06/26/14 12:04	7429-90-5	
Antimony	69.4 ug/L		50.0	1	06/25/14 09:10	06/26/14 12:02	7440-36-0	
Arsenic	1400 ug/L		50.0	1	06/25/14 09:10	06/26/14 12:02	7440-38-2	
Beryllium	ND ug/L		5.0	1	06/25/14 09:10	06/26/14 12:02	7440-41-7	
Cadmium	ND ug/L		25.0	1	06/25/14 09:10	06/26/14 12:02	7440-43-9	
Chromium	278 ug/L		25.0	1	06/25/14 09:10	06/26/14 12:02	7440-47-3	
Cobalt	44.9 ug/L		25.0	1	06/25/14 09:10	06/26/14 12:02	7440-48-4	
Copper	ND ug/L		50.0	1	06/25/14 09:10	06/26/14 12:02	7440-50-8	
Iron	842000 ug/L		250	1	06/25/14 09:10	06/26/14 12:02	7439-89-6	
Lead	122 ug/L		25.0	1	06/25/14 09:10	06/26/14 12:02	7439-92-1	
Nickel	162 ug/L		25.0	1	06/25/14 09:10	06/26/14 12:02	7440-02-0	
Selenium	ND ug/L		75.0	1	06/25/14 09:10	06/26/14 12:02	7782-49-2	
Silver	ND ug/L		35.0	1	06/25/14 09:10	06/26/14 12:02	7440-22-4	
Thallium	ND ug/L		100	1	06/25/14 09:10	06/26/14 12:02	7440-28-0	
Zinc	5450 ug/L		500	2	06/25/14 09:10	06/26/14 12:04	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	ND ug/L		750	2	06/26/14 10:10	06/26/14 15:44	7429-90-5	
Antimony, Dissolved	ND ug/L		100	2	06/26/14 10:10	06/26/14 15:44	7440-36-0	D3
Arsenic, Dissolved	874 ug/L		50.0	1	06/26/14 10:10	06/26/14 15:40	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	06/26/14 10:10	06/26/14 15:40	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	06/26/14 10:10	06/26/14 15:40	7440-43-9	
Chromium, Dissolved	157 ug/L		25.0	1	06/26/14 10:10	06/26/14 15:40	7440-47-3	
Cobalt, Dissolved	ND ug/L		25.0	1	06/26/14 10:10	06/26/14 15:40	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	06/26/14 10:10	06/26/14 15:40	7440-50-8	
Iron, Dissolved	259000 ug/L		250	1	06/26/14 10:10	06/26/14 15:40	7439-89-6	
Lead, Dissolved	41.3 ug/L		25.0	1	06/26/14 10:10	06/26/14 15:40	7439-92-1	
Nickel, Dissolved	90.0 ug/L		25.0	1	06/26/14 10:10	06/26/14 15:40	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	06/26/14 10:10	06/26/14 15:40	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	06/26/14 10:10	06/26/14 15:40	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	06/26/14 10:10	06/26/14 15:40	7440-28-0	
Zinc, Dissolved	3780 ug/L		500	2	06/26/14 10:10	06/26/14 15:44	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	21.6 ug/L		6.0	1	06/26/14 08:45	06/26/14 14:22	7439-97-6	
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND ug/L		6.0	1	06/25/14 10:30	06/25/14 14:23	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	06/24/14 00:00	06/27/14 15:00	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	06/24/14 00:00	06/27/14 15:00	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	06/24/14 00:00	06/27/14 15:00	77-47-4	
Hexachloroethane	ND ug/L		1000	2	06/24/14 00:00	06/27/14 15:00	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	2	06/24/14 00:00	06/27/14 15:00	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	7040 ug/L		4000	2	06/24/14 00:00	06/27/14 15:00		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-339

Pace Project No.: 60172160

Sample: 316-339 **Lab ID: 60172160001** Collected: 06/23/14 08:06 Received: 06/23/14 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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625 MSSV

Analytical Method: EPA 625 Preparation Method: EPA 625

Naphthalene	1140 ug/L		1000	2	06/24/14 00:00	06/27/14 15:00	91-20-3	
Nitrobenzene	ND ug/L		1000	2	06/24/14 00:00	06/27/14 15:00	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	06/24/14 00:00	06/27/14 15:00	87-86-5	
Phenol	9970 ug/L		1000	2	06/24/14 00:00	06/27/14 15:00	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	06/24/14 00:00	06/27/14 15:00	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	06/24/14 00:00	06/27/14 15:00	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	148 %		33-120	2	06/24/14 00:00	06/27/14 15:00	4165-60-0	S0
2-Fluorobiphenyl (S)	83 %		39-120	2	06/24/14 00:00	06/27/14 15:00	321-60-8	
Terphenyl-d14 (S)	88 %		45-120	2	06/24/14 00:00	06/27/14 15:00	1718-51-0	
Phenol-d6 (S)	32 %		11-120	2	06/24/14 00:00	06/27/14 15:00	13127-88-3	
2-Fluorophenol (S)	45 %		17-120	2	06/24/14 00:00	06/27/14 15:00	367-12-4	
2,4,6-Tribromophenol (S)	99 %		39-120	2	06/24/14 00:00	06/27/14 15:00	118-79-6	

624 Volatile Organics

Analytical Method: EPA 624 Low

Acetone	86400 ug/L		2500	250		06/25/14 18:07	67-64-1	N2
Benzene	ND ug/L		250	250		06/25/14 18:07	71-43-2	
Bromodichloromethane	ND ug/L		250	250		06/25/14 18:07	75-27-4	
Bromoform	ND ug/L		250	250		06/25/14 18:07	75-25-2	
Bromomethane	ND ug/L		1250	250		06/25/14 18:07	74-83-9	
2-Butanone (MEK)	36800 ug/L		2500	250		06/25/14 18:07	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		06/25/14 18:07	56-23-5	
Chloroethane	ND ug/L		250	250		06/25/14 18:07	75-00-3	
Chloroform	ND ug/L		250	250		06/25/14 18:07	67-66-3	
1,4-Dichlorobenzene	ND ug/L		250	250		06/25/14 18:07	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		06/25/14 18:07	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		06/25/14 18:07	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		06/25/14 18:07	156-60-5	
Ethylbenzene	ND ug/L		250	250		06/25/14 18:07	100-41-4	
Methylene chloride	ND ug/L		250	250		06/25/14 18:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		06/25/14 18:07	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		06/25/14 18:07	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		06/25/14 18:07	127-18-4	
Toluene	ND ug/L		250	250		06/25/14 18:07	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		06/25/14 18:07	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		06/25/14 18:07	79-00-5	
Trichloroethene	ND ug/L		250	250		06/25/14 18:07	79-01-6	
Vinyl chloride	ND ug/L		250	250		06/25/14 18:07	75-01-4	
Xylene (Total)	ND ug/L		750	250		06/25/14 18:07	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	94 %		80-120	250		06/25/14 18:07	460-00-4	
Toluene-d8 (S)	93 %		80-120	250		06/25/14 18:07	2037-26-5	
1,2-Dichloroethane-d4 (S)	91 %		80-120	250		06/25/14 18:07	17060-07-0	
Preservation pH	6.0		1.0	250		06/25/14 18:07		

HEM, Oil and Grease

Analytical Method: EPA 1664A

Oil and Grease	974 mg/L		5.0	1		06/25/14 16:51		
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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-339

Pace Project No.: 60172160

Sample: 316-339		Lab ID: 60172160001	Collected: 06/23/14 08:06	Received: 06/23/14 13:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	14.4	mg/L	5.0	1		06/25/14 16:57		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	4240	mg/L	5.0	1		06/24/14 13:52		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.5	Std. Units	0.10	1		06/25/14 12:10		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	26800	mg/L	2.0	1	06/23/14 16:19	06/28/14 08:41		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	565	mg/L	20.0	200		06/26/14 11:40	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	50900	mg/L	5000	500		06/27/14 10:35		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-339

Pace Project No.: 60172160

Sample: TRIP BLANK		Lab ID: 60172160002	Collected: 06/23/14 08:06	Received: 06/23/14 13:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		06/25/14 16:34	67-64-1	N2
Benzene	ND ug/L		1.0	1		06/25/14 16:34	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		06/25/14 16:34	75-27-4	
Bromoform	ND ug/L		1.0	1		06/25/14 16:34	75-25-2	
Bromomethane	ND ug/L		5.0	1		06/25/14 16:34	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/25/14 16:34	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		06/25/14 16:34	56-23-5	
Chloroethane	ND ug/L		1.0	1		06/25/14 16:34	75-00-3	
Chloroform	ND ug/L		1.0	1		06/25/14 16:34	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		06/25/14 16:34	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		06/25/14 16:34	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		06/25/14 16:34	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		06/25/14 16:34	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		06/25/14 16:34	100-41-4	
Methylene chloride	ND ug/L		1.0	1		06/25/14 16:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/25/14 16:34	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		06/25/14 16:34	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		06/25/14 16:34	127-18-4	
Toluene	ND ug/L		1.0	1		06/25/14 16:34	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		06/25/14 16:34	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		06/25/14 16:34	79-00-5	
Trichloroethene	ND ug/L		1.0	1		06/25/14 16:34	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		06/25/14 16:34	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		06/25/14 16:34	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	98 %		80-120	1		06/25/14 16:34	460-00-4	
Toluene-d8 (S)	96 %		80-120	1		06/25/14 16:34	2037-26-5	
1,2-Dichloroethane-d4 (S)	89 %		80-120	1		06/25/14 16:34	17060-07-0	
Preservation pH	6.0		1.0	1		06/25/14 16:34		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-339

Pace Project No.: 60172160

QC Batch:	MERP/8534	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
Associated Lab Samples:	60172160001		

METHOD BLANK: 1401318 Matrix: Water
Associated Lab Samples: 60172160001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	06/26/14 14:11	

LABORATORY CONTROL SAMPLE: 1401319

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	99	85-115	

MATRIX SPIKE SAMPLE: 1401320

Parameter	Units	60172072002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	4.4	88	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1401321 1401322

Parameter	Units	60172276001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	150	150	141	145	93	96	70-130	3	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-339

Pace Project No.: 60172160

QC Batch:	MERP/8529	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury - Dissolved
Associated Lab Samples:	60172160001		

METHOD BLANK: 1400587 Matrix: Water
Associated Lab Samples: 60172160001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	06/25/14 13:57	

LABORATORY CONTROL SAMPLE: 1400588

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.6	93	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1400589 1400590

Parameter	Units	60171807001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Mercury, Dissolved	ug/L	ND	150	150	126	128	84	85	70-130	2	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-339

Pace Project No.: 60172160

QC Batch: MPRP/27804

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Total

Associated Lab Samples: 60172160001

METHOD BLANK: 1400543

Matrix: Water

Associated Lab Samples: 60172160001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	06/26/14 11:35	
Antimony	ug/L	ND	10.0	06/26/14 11:35	
Arsenic	ug/L	ND	10.0	06/26/14 11:35	
Beryllium	ug/L	ND	1.0	06/26/14 11:35	
Cadmium	ug/L	ND	5.0	06/26/14 11:35	
Chromium	ug/L	ND	5.0	06/26/14 11:35	
Cobalt	ug/L	ND	5.0	06/26/14 11:35	
Copper	ug/L	ND	10.0	06/26/14 11:35	
Iron	ug/L	ND	50.0	06/26/14 11:35	
Lead	ug/L	ND	5.0	06/26/14 11:35	
Nickel	ug/L	ND	5.0	06/26/14 11:35	
Selenium	ug/L	ND	15.0	06/26/14 11:35	
Silver	ug/L	ND	7.0	06/26/14 11:35	
Thallium	ug/L	ND	20.0	06/26/14 11:35	
Zinc	ug/L	ND	50.0	06/26/14 11:35	

LABORATORY CONTROL SAMPLE: 1400544

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10900	109	85-115	
Antimony	ug/L	1000	1080	108	85-115	
Arsenic	ug/L	1000	1050	105	85-115	
Beryllium	ug/L	1000	1120	112	85-115	
Cadmium	ug/L	1000	1080	108	85-115	
Chromium	ug/L	1000	1120	112	85-115	
Cobalt	ug/L	1000	1110	111	85-115	
Copper	ug/L	1000	1060	106	85-115	
Iron	ug/L	10000	11100	111	85-115	
Lead	ug/L	1000	1120	112	85-115	
Nickel	ug/L	1000	1130	113	85-115	
Selenium	ug/L	1000	1070	107	85-115	
Silver	ug/L	500	538	108	85-115	
Thallium	ug/L	1000	1100	110	85-115	
Zinc	ug/L	1000	1120	112	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-339

Pace Project No.: 60172160

Parameter	Units	60172158001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec							
Aluminum	ug/L	10200	50000	50000	50000	72600	74100	125	128	70-130	2	8				
Antimony	ug/L	85.2	5000	5000	5000	5820	5940	115	117	70-130	2	7				
Arsenic	ug/L	1320	5000	5000	5000	7530	7610	124	126	70-130	1	10				
Beryllium	ug/L	ND	5000	5000	5000	5420	5480	108	110	70-130	1	7				
Cadmium	ug/L	ND	5000	5000	5000	5780	5840	115	117	70-130	1	10				
Chromium	ug/L	262	5000	5000	5000	5650	5730	108	109	70-130	1	10				
Cobalt	ug/L	42.0	5000	5000	5000	5360	5420	106	107	70-130	1	6				
Copper	ug/L	ND	5000	5000	5000	5820	5890	116	117	70-130	1	11				
Iron	ug/L	793000	50000	50000	50000	866000	874000	145	162	70-130	1	10 M1				
Lead	ug/L	120	5000	5000	5000	5120	5200	100	102	70-130	1	10				
Nickel	ug/L	150	5000	5000	5000	5460	5540	106	108	70-130	1	10				
Selenium	ug/L	ND	5000	5000	5000	6590	6680	132	134	70-130	1	10 M1				
Silver	ug/L	ND	2500	2500	2500	2910	2940	116	117	70-130	1	10				
Thallium	ug/L	ND	5000	5000	5000	4610	4660	92	93	70-130	1	6				
Zinc	ug/L	5290	5000	5000	5000	10600	10800	106	111	70-130	2	11				

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-339
Pace Project No.: 60172160

QC Batch: MPRP/27818 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60172160001

METHOD BLANK: 1401357 Matrix: Water
Associated Lab Samples: 60172160001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	06/26/14 14:58	
Antimony, Dissolved	ug/L	ND	10.0	06/26/14 14:58	
Arsenic, Dissolved	ug/L	ND	10.0	06/26/14 14:58	
Beryllium, Dissolved	ug/L	ND	1.0	06/26/14 14:58	
Cadmium, Dissolved	ug/L	ND	5.0	06/26/14 14:58	
Chromium, Dissolved	ug/L	ND	5.0	06/26/14 14:58	
Cobalt, Dissolved	ug/L	ND	5.0	06/26/14 14:58	
Copper, Dissolved	ug/L	ND	10.0	06/26/14 14:58	
Iron, Dissolved	ug/L	ND	50.0	06/26/14 14:58	
Lead, Dissolved	ug/L	ND	5.0	06/26/14 14:58	
Nickel, Dissolved	ug/L	ND	5.0	06/26/14 14:58	
Selenium, Dissolved	ug/L	ND	15.0	06/26/14 14:58	
Silver, Dissolved	ug/L	ND	7.0	06/26/14 14:58	
Thallium, Dissolved	ug/L	ND	20.0	06/26/14 14:58	
Zinc, Dissolved	ug/L	ND	50.0	06/26/14 14:58	

LABORATORY CONTROL SAMPLE: 1401358

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9550	95	85-115	
Antimony, Dissolved	ug/L	1000	1010	101	85-115	
Arsenic, Dissolved	ug/L	1000	971	97	85-115	
Beryllium, Dissolved	ug/L	1000	1000	100	85-115	
Cadmium, Dissolved	ug/L	1000	1010	101	85-115	
Chromium, Dissolved	ug/L	1000	972	97	85-115	
Cobalt, Dissolved	ug/L	1000	1020	102	85-115	
Copper, Dissolved	ug/L	1000	968	97	85-115	
Iron, Dissolved	ug/L	10000	9610	96	85-115	
Lead, Dissolved	ug/L	1000	1050	105	85-115	
Nickel, Dissolved	ug/L	1000	1050	105	85-115	
Selenium, Dissolved	ug/L	1000	1020	102	85-115	
Silver, Dissolved	ug/L	500	482	96	85-115	
Thallium, Dissolved	ug/L	1000	1030	103	85-115	
Zinc, Dissolved	ug/L	1000	1020	102	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-339

Pace Project No.: 60172160

Parameter	Units	60172158001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max	RPD	Qual
		Result	Conc.	Spike	Conc.	Result	Conc.	% Rec	% Rec								
Aluminum, Dissolved	ug/L	1020	50000	50000	47500	46500	93	91	70-130	2	8						
Antimony, Dissolved	ug/L	ND	5000	5000	5210	5220	103	104	70-130	0	7						
Arsenic, Dissolved	ug/L	938	5000	5000	6230	6230	106	106	70-130	0	10						
Beryllium, Dissolved	ug/L	ND	5000	5000	5080	4790	102	96	70-130	6	7						
Cadmium, Dissolved	ug/L	ND	5000	5000	5220	5240	104	105	70-130	0	10						
Chromium, Dissolved	ug/L	169	5000	5000	4900	4910	95	95	70-130	0	10						
Cobalt, Dissolved	ug/L	ND	5000	5000	4860	4890	97	97	70-130	0	6						
Copper, Dissolved	ug/L	ND	5000	5000	4880	4900	97	98	70-130	0	11						
Iron, Dissolved	ug/L	270000	50000	50000	333000	309000	126	79	70-130	7	10						
Lead, Dissolved	ug/L	46.0	5000	5000	4810	4820	95	96	70-130	0	10						
Nickel, Dissolved	ug/L	95.2	5000	5000	5040	5060	99	99	70-130	0	10						
Selenium, Dissolved	ug/L	ND	5000	5000	5860	5820	117	116	70-130	1	10						
Silver, Dissolved	ug/L	ND	2500	2500	2530	2540	101	102	70-130	1	10						
Thallium, Dissolved	ug/L	ND	5000	5000	4400	4430	88	89	70-130	1	6						
Zinc, Dissolved	ug/L	4200	5000	5000	9150	9120	99	98	70-130	0	11						

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-339

Pace Project No.: 60172160

QC Batch: MSV/62571 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60172160001, 60172160002

METHOD BLANK: 1400773 Matrix: Water

Associated Lab Samples: 60172160001, 60172160002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/25/14 12:41	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/25/14 12:41	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	06/25/14 12:41	
1,2-Dichloroethane	ug/L	ND	1.0	06/25/14 12:41	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/25/14 12:41	
2-Butanone (MEK)	ug/L	ND	10.0	06/25/14 12:41	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/25/14 12:41	N2
Acetone	ug/L	ND	10.0	06/25/14 12:41	N2
Benzene	ug/L	ND	1.0	06/25/14 12:41	
Bromodichloromethane	ug/L	ND	1.0	06/25/14 12:41	
Bromoform	ug/L	ND	1.0	06/25/14 12:41	
Bromomethane	ug/L	ND	5.0	06/25/14 12:41	
Carbon tetrachloride	ug/L	ND	1.0	06/25/14 12:41	
Chloroethane	ug/L	ND	1.0	06/25/14 12:41	
Chloroform	ug/L	ND	1.0	06/25/14 12:41	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/25/14 12:41	N2
Ethylbenzene	ug/L	ND	1.0	06/25/14 12:41	
Methylene chloride	ug/L	ND	1.0	06/25/14 12:41	
Tetrachloroethene	ug/L	ND	1.0	06/25/14 12:41	
Toluene	ug/L	ND	1.0	06/25/14 12:41	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/25/14 12:41	
Trichloroethene	ug/L	ND	1.0	06/25/14 12:41	
Vinyl chloride	ug/L	ND	1.0	06/25/14 12:41	
Xylene (Total)	ug/L	ND	3.0	06/25/14 12:41	N2
1,2-Dichloroethane-d4 (S)	%	97	80-120	06/25/14 12:41	
4-Bromofluorobenzene (S)	%	99	80-120	06/25/14 12:41	
Toluene-d8 (S)	%	98	80-120	06/25/14 12:41	

LABORATORY CONTROL SAMPLE: 1400774

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.5	102	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	22.4	112	67-127	N2
1,1,2-Trichloroethane	ug/L	20	23.2	116	67-124	
1,2-Dichloroethane	ug/L	20	20.0	100	70-126	
1,4-Dichlorobenzene	ug/L	20	21.5	108	74-120	
2-Butanone (MEK)	ug/L	100	105	105	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	113	113	59-131	N2
Acetone	ug/L	100	96.7	97	38-134	N2
Benzene	ug/L	20	21.3	106	75-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-339

Pace Project No.: 60172160

LABORATORY CONTROL SAMPLE: 1400774

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	20	22.5	113	68-125	
Bromoform	ug/L	20	23.3	116	65-127	
Bromomethane	ug/L	20	11.7	59	13-157	
Carbon tetrachloride	ug/L	20	20.0	100	70-131	
Chloroethane	ug/L	20	23.4	117	47-133	
Chloroform	ug/L	20	20.4	102	65-127	
cis-1,2-Dichloroethene	ug/L	20	21.9	109	68-127	N2
Ethylbenzene	ug/L	20	22.0	110	74-122	
Methylene chloride	ug/L	20	19.7	98	64-129	
Tetrachloroethene	ug/L	20	22.6	113	73-125	
Toluene	ug/L	20	20.8	104	69-126	
trans-1,2-Dichloroethene	ug/L	20	20.6	103	66-129	
Trichloroethene	ug/L	20	21.8	109	71-123	
Vinyl chloride	ug/L	20	20.5	102	43-129	
Xylene (Total)	ug/L	60	65.5	109	75-121	N2
1,2-Dichloroethane-d4 (S)	%			92	80-120	
4-Bromofluorobenzene (S)	%			98	80-120	
Toluene-d8 (S)	%			96	80-120	

MATRIX SPIKE SAMPLE: 1400775

Parameter	Units	60171928001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	4750	95	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	5240	105	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	5280	106	52-143	
1,2-Dichloroethane	ug/L	ND	5000	4360	87	49-144	
1,4-Dichlorobenzene	ug/L	301	5000	5170	97	33-140	
2-Butanone (MEK)	ug/L	37800	25000	61200	94	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	25500	100	40-160	N2
Acetone	ug/L	84100	25000	108000	97	10-160	N2
Benzene	ug/L	ND	5000	4830	95	37-151	
Bromodichloromethane	ug/L	ND	5000	4890	98	35-142	
Bromoform	ug/L	ND	5000	5380	108	45-142	
Bromomethane	ug/L	ND	5000	2010	40	10-158	
Carbon tetrachloride	ug/L	ND	5000	5010	100	70-140	
Chloroethane	ug/L	ND	5000	5060	101	19-152	
Chloroform	ug/L	ND	5000	4630	93	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	4800	96	34-147	N2
Ethylbenzene	ug/L	ND	5000	5100	102	40-142	
Methylene chloride	ug/L	ND	5000	4380	87	31-144	
Tetrachloroethene	ug/L	ND	5000	5410	108	64-148	
Toluene	ug/L	ND	5000	4730	92	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	4620	92	54-151	
Trichloroethene	ug/L	ND	5000	4640	93	71-149	
Vinyl chloride	ug/L	ND	5000	4850	97	22-146	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-339

Pace Project No.: 60172160

MATRIX SPIKE SAMPLE:		1400775					
Parameter	Units	60171928001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	ND	15000	15600	104	37-144	N2
1,2-Dichloroethane-d4 (S)	%				90	80-120	
4-Bromofluorobenzene (S)	%				99	80-120	HS
Toluene-d8 (S)	%				95	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-339

Pace Project No.: 60172160

QC Batch: OEXT/44806 Analysis Method: EPA 625
 QC Batch Method: EPA 625 Analysis Description: 625 MSS
 Associated Lab Samples: 60172160001

METHOD BLANK: 1399642 Matrix: Water

Associated Lab Samples: 60172160001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/25/14 13:36	
2,4,6-Trichlorophenol	ug/L	ND	5.0	06/25/14 13:36	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	06/25/14 13:36	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	06/25/14 13:36	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	06/25/14 13:36	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/25/14 13:36	
Hexachlorocyclopentadiene	ug/L	ND	5.0	06/25/14 13:36	
Hexachloroethane	ug/L	ND	5.0	06/25/14 13:36	
Naphthalene	ug/L	ND	5.0	06/25/14 13:36	
Nitrobenzene	ug/L	ND	5.0	06/25/14 13:36	
Pentachlorophenol	ug/L	ND	5.0	06/25/14 13:36	
Phenol	ug/L	ND	5.0	06/25/14 13:36	
2,4,6-Tribromophenol (S)	%	91	39-120	06/25/14 13:36	
2-Fluorobiphenyl (S)	%	88	39-120	06/25/14 13:36	
2-Fluorophenol (S)	%	47	17-120	06/25/14 13:36	
Nitrobenzene-d5 (S)	%	95	33-120	06/25/14 13:36	
Phenol-d6 (S)	%	30	11-120	06/25/14 13:36	
Terphenyl-d14 (S)	%	92	45-120	06/25/14 13:36	

LABORATORY CONTROL SAMPLE: 1399643

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	39.2	78	46-120	
2,4,6-Trichlorophenol	ug/L	50	41.5	83	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	33.4	67	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	30.3	61	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	49.0	98	40-133	
Hexachloro-1,3-butadiene	ug/L	50	37.2	74	44-116	
Hexachlorocyclopentadiene	ug/L	100	64.0	64	24-120	
Hexachloroethane	ug/L	50	36.9	74	43-113	
Naphthalene	ug/L	50	38.9	78	48-120	
Nitrobenzene	ug/L	50	43.5	87	48-120	
Pentachlorophenol	ug/L	50	46.7	93	47-120	
Phenol	ug/L	50	15.8	32	16-112	
2,4,6-Tribromophenol (S)	%			92	39-120	
2-Fluorobiphenyl (S)	%			83	39-120	
2-Fluorophenol (S)	%			46	17-120	
Nitrobenzene-d5 (S)	%			89	33-120	
Phenol-d6 (S)	%			30	11-120	
Terphenyl-d14 (S)	%			89	45-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-339

Pace Project No.: 60172160

MATRIX SPIKE SAMPLE: 1399644		60172159001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3560	71	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4440	89	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	5000	3760	75	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	6770	5000	8730	39	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	5380	108	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3550	71	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	1810	18	11-120	
Hexachloroethane	ug/L	ND	5000	3200	64	40-113	
Naphthalene	ug/L	ND	5000	4440	69	45-120	
Nitrobenzene	ug/L	ND	5000	3890	78	38-120	
Pentachlorophenol	ug/L	ND	5000	4750	95	43-135	
Phenol	ug/L	9860	5000	9930	1	13-112	M1
2,4,6-Tribromophenol (S)	%				104	39-120	
2-Fluorobiphenyl (S)	%				83	39-120	
2-Fluorophenol (S)	%				43	17-120	
Nitrobenzene-d5 (S)	%				106	33-120	
Phenol-d6 (S)	%				32	11-120	
Terphenyl-d14 (S)	%				95	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-339

Pace Project No.: 60172160

QC Batch:	WET/48699	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60172160001		

METHOD BLANK: 1401054 Matrix: Water
Associated Lab Samples: 60172160001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	06/25/14 16:50	

LABORATORY CONTROL SAMPLE: 1401055

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	33.1	83	78-114	

MATRIX SPIKE SAMPLE: 1401056

Parameter	Units	60171861004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	8.0	41.7	52.1	106	78-114	

SAMPLE DUPLICATE: 1401057

Parameter	Units	60171862004 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	6.8	5.9	14	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-339

Pace Project No.: 60172160

QC Batch:	WET/48701	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60172160001		

METHOD BLANK: 1401059 Matrix: Water
Associated Lab Samples: 60172160001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	06/25/14 16:56	

LABORATORY CONTROL SAMPLE: 1401060

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	24.3	122	64-132	

MATRIX SPIKE SAMPLE: 1401061

Parameter	Units	60171861004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	20.8	19.3	84	64-132	

SAMPLE DUPLICATE: 1401062

Parameter	Units	60171862004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	3.3J		34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-339

Pace Project No.: 60172160

QC Batch: WET/48660

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60172160001

METHOD BLANK: 1400063

Matrix: Water

Associated Lab Samples: 60172160001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	06/24/14 13:49	

SAMPLE DUPLICATE: 1400064

Parameter	Units	60172037001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	640	640	0	10	

SAMPLE DUPLICATE: 1400065

Parameter	Units	60172160001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	4240	4560	7	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-339

Pace Project No.: 60172160

QC Batch: WET/48674 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60172160001

SAMPLE DUPLICATE: 1400386

Parameter	Units	60171965001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.9	6.9	1	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-339

Pace Project No.: 60172160

QC Batch: WET/48634

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60172160001

METHOD BLANK: 1399509

Matrix: Water

Associated Lab Samples: 60172160001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	06/28/14 08:15	

LABORATORY CONTROL SAMPLE: 1399510

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	183	93	85-115	

SAMPLE DUPLICATE: 1399511

Parameter	Units	60172160001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	26800	27200	1	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-339

Pace Project No.: 60172160

QC Batch: WETA/30011

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 60172160001

METHOD BLANK: 1401323

Matrix: Water

Associated Lab Samples: 60172160001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	06/26/14 11:34	

LABORATORY CONTROL SAMPLE: 1401324

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	101	90-110	

MATRIX SPIKE SAMPLE: 1401325

Parameter	Units	60172214001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.4	70	90-110	M1

MATRIX SPIKE SAMPLE: 1401326

Parameter	Units	60172228006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.1	104	90-110	

SAMPLE DUPLICATE: 1401332

Parameter	Units	60172276001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	576	584	1	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-339

Pace Project No.: 60172160

QC Batch:	WETA/30005	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60172160001		

METHOD BLANK: 1401245 Matrix: Water
Associated Lab Samples: 60172160001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	06/27/14 10:33	

LABORATORY CONTROL SAMPLE: 1401246

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	52.1	104	90-110	

MATRIX SPIKE SAMPLE: 1401247

Parameter	Units	60172158001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	51100	25000	73500	90	90-110	

MATRIX SPIKE SAMPLE: 1401249

Parameter	Units	60171781002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	41700	50000	90100	97	90-110	

SAMPLE DUPLICATE: 1401248

Parameter	Units	60172160001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	50900	51400	1	25	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 316-339

Pace Project No.: 60172160

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.

PQL - Practical Quantitation 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.

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

H6 Analysis initiated outside of the 15 minute EPA recommended holding time.

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

N2 The lab does not hold TNI accreditation for this parameter.

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-339

Pace Project No.: 60172160

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60172160001	316-339	EPA 200.7	MPRP/27804	EPA 200.7	ICP/21020
60172160001	316-339	EPA 200.7	MPRP/27818	EPA 200.7	ICP/21032
60172160001	316-339	EPA 245.1	MERP/8534	EPA 245.1	MERC/8489
60172160001	316-339	EPA 245.1	MERP/8529	EPA 245.1	MERC/8484
60172160001	316-339	EPA 625	OEXT/44806	EPA 625	MSSV/14346
60172160001	316-339	EPA 624 Low	MSV/62571		
60172160002	TRIP BLANK	EPA 624 Low	MSV/62571		
60172160001	316-339	EPA 1664A	WET/48699		
60172160001	316-339	EPA 1664A	WET/48701		
60172160001	316-339	SM 2540D	WET/48660		
60172160001	316-339	SM 4500-H+B	WET/48674		
60172160001	316-339	SM 5210B	WET/48634	SM 5210B	WET/48744
60172160001	316-339	EPA 350.1	WETA/30011		
60172160001	316-339	EPA 410.4	WETA/30005		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60172160



60172160

Client Name: Barr

Optional
Proj Due Date:
Proj Name:

Courier: Fed Ex [] UPS [] USPS [] Client [] Commercial [] Pace [] Other [X] X Road

Tracking #: Pace Shipping Label Used? Yes [] No []

Custody Seal on Cooler/Box Present: Yes [X] No [] Seals intact: Yes [X] No []

Packing Material: Bubble Wrap [] Bubble Bags [X] Foam [X] None [] Other [X] ZPLC

Thermometer Used: T-239 / T-194 Type of Ice: Wet Blue None [X] Samples received on ice, cooling process has begun.

Cooler Temperature: 11.2

Date and initials of person examining contents: JO 6/23

Temperature should be above freezing to 6°C

Table with 17 rows and 2 columns. Row 1: Chain of Custody present: [X] Yes [] No [] N/A. Row 2: Chain of Custody filled out: [X] Yes [] No [] N/A. Row 3: Chain of Custody relinquished: [X] Yes [] No [] N/A. Row 4: Sampler name & signature on COC: [X] Yes [] No [] N/A. Row 5: Samples arrived within holding time: [X] Yes [] No [] N/A. Row 6: Short Hold Time analyses (<72hr): [X] Yes [] No [] N/A. Row 7: Rush Turn Around Time requested: [] Yes [X] No [] N/A. Row 8: Sufficient volume: [X] Yes [] No [] N/A. Row 9: Correct containers used: [X] Yes [] No [] N/A. Row 10: Pace containers used: [X] Yes [] No [] N/A. Row 11: Containers intact: [X] Yes [] No [] N/A. Row 12: Unpreserved 5035A soils frozen w/in 48hrs? [] Yes [] No [X] N/A. Row 13: Filtered volume received for dissolved tests? [] Yes [] No [X] N/A. Row 14: Sample labels match COC: [X] Yes [] No [] N/A. Row 15: Includes date/time/ID/analyses Matrix: ST. Row 16: All containers needing preservation have been checked. [X] Yes [] No [] N/A. Row 17: All containers needing preservation are found to be in compliance with EPA recommendation. [] Yes [] No [] N/A. Row 18: Exceptions: VOA, coliform, TOC, [X] WI-DRO (water), Phenolics. [X] Yes [] No. Row 19: Trip Blank present: [X] Yes [] No [] N/A. Row 20: Pace Trip Blank lot # (if purchased): 6/6/14. Row 21: Headspace in VOA vials (>6mm): [] Yes [X] No [] N/A. Row 22: Project sampled in USDA Regulated Area: [] Yes [] No [X] N/A. List State: []

Client Notification/ Resolution: Copy COC to Client? Y [] N [X] Field Data Required? Y [] N [X]

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Date: 6/23/14

July 02, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-340
Pace Project No.: 60172276

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 25, 2014. 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,



Emily Webb
emily.webb@pacelabs.com
Project Manager

Enclosures

cc: Bill Abernathy, Feezor Engineering
Kelly Caddy, Barr Engineering
DAN FEEZOR, FEEZOR ENGINEERING
Dana B. Pasi, Barr Engineering Co.
Brian Power, Republic Services
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-340

Pace Project No.: 60172276

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-13-4

Utah Certification #: KS000212013-3

Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-340

Pace Project No.: 60172276

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60172276001	316-340	Water	06/24/14 07:45	06/25/14 02:15
60172276002	TRIP BLANK	Water	06/24/14 07:45	06/25/14 02:15

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-340

Pace Project No.: 60172276

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60172276001	316-340	EPA 200.7	JGP	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	CRT	1
		EPA 1664A	CRT	1
		SM 2540D	ESM	1
		SM 4500-H+B	NDL	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC1	1
		60172276002	TRIP BLANK	EPA 624 Low

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-340

Pace Project No.: 60172276

Sample: 316-340 Lab ID: 60172276001 Collected: 06/24/14 07:45 Received: 06/25/14 02:15 Matrix: Water								
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Aluminum	1940	ug/L	750	2	06/26/14 12:50	06/27/14 18:18	7429-90-5	
Antimony	ND	ug/L	100	2	06/26/14 12:50	06/27/14 18:18	7440-36-0	D3
Arsenic	905	ug/L	50.0	1	06/26/14 12:50	06/27/14 18:14	7440-38-2	
Beryllium	ND	ug/L	5.0	1	06/26/14 12:50	06/27/14 18:14	7440-41-7	
Cadmium	ND	ug/L	25.0	1	06/26/14 12:50	06/27/14 18:14	7440-43-9	
Chromium	176	ug/L	25.0	1	06/26/14 12:50	06/27/14 18:14	7440-47-3	
Cobalt	ND	ug/L	25.0	1	06/26/14 12:50	06/27/14 18:14	7440-48-4	
Copper	ND	ug/L	50.0	1	06/26/14 12:50	06/27/14 18:14	7440-50-8	
Iron	343000	ug/L	250	1	06/26/14 12:50	06/27/14 18:14	7439-89-6	M1
Lead	51.0	ug/L	25.0	1	06/26/14 12:50	06/27/14 18:14	7439-92-1	
Nickel	93.2	ug/L	25.0	1	06/26/14 12:50	06/27/14 18:14	7440-02-0	
Selenium	ND	ug/L	75.0	1	06/26/14 12:50	06/27/14 18:14	7782-49-2	
Silver	ND	ug/L	35.0	1	06/26/14 12:50	06/27/14 18:14	7440-22-4	
Thallium	ND	ug/L	100	1	06/26/14 12:50	06/27/14 18:14	7440-28-0	
Zinc	3710	ug/L	500	2	06/26/14 12:50	06/27/14 18:18	7440-66-6	
200.7 Metals, Dissolved (LF) Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Aluminum, Dissolved	1420	ug/L	750	2	06/30/14 10:50	07/01/14 14:13	7429-90-5	
Antimony, Dissolved	62.0	ug/L	50.0	1	06/30/14 10:50	07/01/14 14:11	7440-36-0	D9
Arsenic, Dissolved	1100	ug/L	50.0	1	06/30/14 10:50	07/01/14 14:11	7440-38-2	D9
Beryllium, Dissolved	ND	ug/L	5.0	1	06/30/14 10:50	07/01/14 14:11	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	06/30/14 10:50	07/01/14 14:11	7440-43-9	
Chromium, Dissolved	185	ug/L	25.0	1	06/30/14 10:50	07/01/14 14:11	7440-47-3	D9
Cobalt, Dissolved	26.8	ug/L	25.0	1	06/30/14 10:50	07/01/14 14:11	7440-48-4	D9
Copper, Dissolved	ND	ug/L	50.0	1	06/30/14 10:50	07/01/14 14:11	7440-50-8	
Iron, Dissolved	316000	ug/L	250	1	06/30/14 10:50	07/01/14 14:11	7439-89-6	
Lead, Dissolved	30.4	ug/L	25.0	1	06/30/14 10:50	07/01/14 14:11	7439-92-1	
Nickel, Dissolved	105	ug/L	25.0	1	06/30/14 10:50	07/01/14 14:11	7440-02-0	D9
Selenium, Dissolved	ND	ug/L	75.0	1	06/30/14 10:50	07/01/14 14:11	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	06/30/14 10:50	07/01/14 14:11	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	06/30/14 10:50	07/01/14 14:11	7440-28-0	
Zinc, Dissolved	4140	ug/L	500	2	06/30/14 10:50	07/01/14 14:13	7440-66-6	D9
245.1 Mercury Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Mercury	ND	ug/L	6.0	1	06/26/14 08:45	06/26/14 14:38	7439-97-6	
245.1 Mercury, Dissolved (LF) Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Mercury, Dissolved	ND	ug/L	6.0	1	07/02/14 10:15	07/02/14 14:01	7439-97-6	
625 MSSV Analytical Method: EPA 625 Preparation Method: EPA 625								
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	06/27/14 00:00	06/28/14 17:23	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	06/27/14 00:00	06/28/14 17:23	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	06/27/14 00:00	06/28/14 17:23	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	06/27/14 00:00	06/28/14 17:23	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	2000	2	06/27/14 00:00	06/28/14 17:23	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	5990	ug/L	4000	2	06/27/14 00:00	06/28/14 17:23		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-340

Pace Project No.: 60172276

Sample: 316-340		Lab ID: 60172276001	Collected: 06/24/14 07:45	Received: 06/25/14 02:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	ND ug/L		1000	2	06/27/14 00:00	06/28/14 17:23	91-20-3	
Nitrobenzene	ND ug/L		1000	2	06/27/14 00:00	06/28/14 17:23	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	06/27/14 00:00	06/28/14 17:23	87-86-5	
Phenol	8650 ug/L		1000	2	06/27/14 00:00	06/28/14 17:23	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	06/27/14 00:00	06/28/14 17:23	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	06/27/14 00:00	06/28/14 17:23	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	81 %		33-120	2	06/27/14 00:00	06/28/14 17:23	4165-60-0	
2-Fluorobiphenyl (S)	74 %		39-120	2	06/27/14 00:00	06/28/14 17:23	321-60-8	
Terphenyl-d14 (S)	83 %		45-120	2	06/27/14 00:00	06/28/14 17:23	1718-51-0	
Phenol-d6 (S)	28 %		11-120	2	06/27/14 00:00	06/28/14 17:23	13127-88-3	
2-Fluorophenol (S)	38 %		17-120	2	06/27/14 00:00	06/28/14 17:23	367-12-4	
2,4,6-Tribromophenol (S)	70 %		39-120	2	06/27/14 00:00	06/28/14 17:23	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	94600 ug/L		2500	250		06/30/14 04:50	67-64-1	N2
Benzene	ND ug/L		250	250		06/30/14 04:50	71-43-2	
Bromodichloromethane	ND ug/L		250	250		06/30/14 04:50	75-27-4	
Bromoform	ND ug/L		250	250		06/30/14 04:50	75-25-2	
Bromomethane	ND ug/L		1250	250		06/30/14 04:50	74-83-9	
2-Butanone (MEK)	41200 ug/L		2500	250		06/30/14 04:50	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		06/30/14 04:50	56-23-5	
Chloroethane	ND ug/L		250	250		06/30/14 04:50	75-00-3	
Chloroform	ND ug/L		250	250		06/30/14 04:50	67-66-3	
1,4-Dichlorobenzene	ND ug/L		250	250		06/30/14 04:50	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		06/30/14 04:50	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		06/30/14 04:50	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		06/30/14 04:50	156-60-5	
Ethylbenzene	ND ug/L		250	250		06/30/14 04:50	100-41-4	
Methylene chloride	434 ug/L		250	250		06/30/14 04:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		06/30/14 04:50	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		06/30/14 04:50	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		06/30/14 04:50	127-18-4	
Toluene	ND ug/L		250	250		06/30/14 04:50	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		06/30/14 04:50	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		06/30/14 04:50	79-00-5	
Trichloroethene	ND ug/L		250	250		06/30/14 04:50	79-01-6	
Vinyl chloride	ND ug/L		250	250		06/30/14 04:50	75-01-4	
Xylene (Total)	ND ug/L		750	250		06/30/14 04:50	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100 %		80-120	250		06/30/14 04:50	460-00-4	
Toluene-d8 (S)	100 %		80-120	250		06/30/14 04:50	2037-26-5	
1,2-Dichloroethane-d4 (S)	101 %		80-120	250		06/30/14 04:50	17060-07-0	
Preservation pH	6.0		1.0	250		06/30/14 04:50		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	926 mg/L		5.0	1		06/30/14 09:25		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-340

Pace Project No.: 60172276

Sample: 316-340		Lab ID: 60172276001	Collected: 06/24/14 07:45	Received: 06/25/14 02:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	10.8	mg/L	5.0	1		06/30/14 09:33		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	4120	mg/L	5.0	1		06/25/14 13:31		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.5	Std. Units	0.10	1		06/30/14 14:30		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	32700	mg/L	2.0	1	06/25/14 15:21	06/30/14 12:17		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	576	mg/L	20.0	200		06/26/14 12:02	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	50300	mg/L	5000	500		06/30/14 09:38		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-340

Pace Project No.: 60172276

Sample: TRIP BLANK		Lab ID: 60172276002	Collected: 06/24/14 07:45	Received: 06/25/14 02:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		06/30/14 03:48	67-64-1	N2
Benzene	ND ug/L		1.0	1		06/30/14 03:48	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		06/30/14 03:48	75-27-4	
Bromoform	ND ug/L		1.0	1		06/30/14 03:48	75-25-2	
Bromomethane	ND ug/L		5.0	1		06/30/14 03:48	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/30/14 03:48	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		06/30/14 03:48	56-23-5	
Chloroethane	ND ug/L		1.0	1		06/30/14 03:48	75-00-3	
Chloroform	ND ug/L		1.0	1		06/30/14 03:48	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		06/30/14 03:48	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		06/30/14 03:48	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		06/30/14 03:48	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		06/30/14 03:48	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		06/30/14 03:48	100-41-4	
Methylene chloride	ND ug/L		1.0	1		06/30/14 03:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/30/14 03:48	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		06/30/14 03:48	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		06/30/14 03:48	127-18-4	
Toluene	ND ug/L		1.0	1		06/30/14 03:48	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		06/30/14 03:48	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		06/30/14 03:48	79-00-5	
Trichloroethene	ND ug/L		1.0	1		06/30/14 03:48	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		06/30/14 03:48	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		06/30/14 03:48	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	101 %		80-120	1		06/30/14 03:48	460-00-4	
Toluene-d8 (S)	101 %		80-120	1		06/30/14 03:48	2037-26-5	
1,2-Dichloroethane-d4 (S)	101 %		80-120	1		06/30/14 03:48	17060-07-0	
Preservation pH	6.0		1.0	1		06/30/14 03:48		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-340

Pace Project No.: 60172276

QC Batch:	MERP/8534	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
Associated Lab Samples:	60172276001		

METHOD BLANK: 1401318 Matrix: Water
Associated Lab Samples: 60172276001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	06/26/14 14:11	

LABORATORY CONTROL SAMPLE: 1401319

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	99	85-115	

MATRIX SPIKE SAMPLE: 1401320

Parameter	Units	60172072002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	4.4	88	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1401321 1401322

Parameter	Units	60172276001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	150	150	141	145	93	96	70-130	3	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-340
Pace Project No.: 60172276

QC Batch: MERP/8551 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60172276001

METHOD BLANK: 1404801 Matrix: Water
Associated Lab Samples: 60172276001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	07/02/14 13:57	

LABORATORY CONTROL SAMPLE: 1404802

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.6	111	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1404803 1404804

Parameter	Units	60172276001		MS	MSD	MS	MSD	MS	MSD	% Rec	Max		
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	150	158	156	105	104	70-130	1	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-340
Pace Project No.: 60172276

QC Batch: MPRP/27813 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60172276001

METHOD BLANK: 1401106 Matrix: Water
Associated Lab Samples: 60172276001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	06/27/14 17:20	
Antimony	ug/L	ND	10.0	06/27/14 17:20	
Arsenic	ug/L	ND	10.0	06/27/14 17:20	
Beryllium	ug/L	ND	1.0	06/27/14 17:20	
Cadmium	ug/L	ND	5.0	06/27/14 17:20	
Chromium	ug/L	ND	5.0	06/27/14 17:20	
Cobalt	ug/L	ND	5.0	06/27/14 17:20	
Copper	ug/L	ND	10.0	06/27/14 17:20	
Iron	ug/L	ND	50.0	06/27/14 17:20	
Lead	ug/L	ND	5.0	06/27/14 17:20	
Nickel	ug/L	ND	5.0	06/27/14 17:20	
Selenium	ug/L	ND	15.0	06/27/14 17:20	
Silver	ug/L	ND	7.0	06/27/14 17:20	
Thallium	ug/L	ND	20.0	06/27/14 17:20	
Zinc	ug/L	ND	50.0	06/27/14 17:20	

LABORATORY CONTROL SAMPLE: 1401107

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9320	93	85-115	
Antimony	ug/L	1000	941	94	85-115	
Arsenic	ug/L	1000	904	90	85-115	
Beryllium	ug/L	1000	935	93	85-115	
Cadmium	ug/L	1000	938	94	85-115	
Chromium	ug/L	1000	947	95	85-115	
Cobalt	ug/L	1000	959	96	85-115	
Copper	ug/L	1000	953	95	85-115	
Iron	ug/L	10000	9400	94	85-115	
Lead	ug/L	1000	934	93	85-115	
Nickel	ug/L	1000	949	95	85-115	
Selenium	ug/L	1000	904	90	85-115	
Silver	ug/L	500	484	97	85-115	
Thallium	ug/L	1000	970	97	85-115	
Zinc	ug/L	1000	920	92	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-340

Pace Project No.: 60172276

MATRIX SPIKE SAMPLE:		1401108		60171774001		Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Result	% Rec	Limits	Qualifiers	
Aluminum	ug/L	323	10000	10200	99			70-130		
Antimony	ug/L	ND	1000	956	96			70-130		
Arsenic	ug/L	ND	1000	935	93			70-130		
Beryllium	ug/L	ND	1000	955	96			70-130		
Cadmium	ug/L	ND	1000	948	95			70-130		
Chromium	ug/L	ND	1000	963	96			70-130		
Cobalt	ug/L	ND	1000	962	96			70-130		
Copper	ug/L	12.0	1000	975	96			70-130		
Iron	ug/L	446	10000	10100	97			70-130		
Lead	ug/L	ND	1000	917	91			70-130		
Nickel	ug/L	ND	1000	947	94			70-130		
Selenium	ug/L	ND	1000	911	91			70-130		
Silver	ug/L	ND	500	492	98			70-130		
Thallium	ug/L	ND	1000	946	95			70-130		
Zinc	ug/L	ND	1000	926	93			70-130		

MATRIX SPIKE SAMPLE:		1401109		60172276001		Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Result	% Rec	Limits	Qualifiers	
Aluminum	ug/L	1940	50000	53900	104			70-130		
Antimony	ug/L	ND	5000	5210	103			70-130		
Arsenic	ug/L	905	5000	6240	107			70-130		
Beryllium	ug/L	ND	5000	4810	96			70-130		
Cadmium	ug/L	ND	5000	5100	102			70-130		
Chromium	ug/L	176	5000	5310	103			70-130		
Cobalt	ug/L	ND	5000	4780	95			70-130		
Copper	ug/L	ND	5000	5260	105			70-130		
Iron	ug/L	343000	50000	425000	164			70-130 M1		
Lead	ug/L	51.0	5000	4480	89			70-130		
Nickel	ug/L	93.2	5000	4830	95			70-130		
Selenium	ug/L	ND	5000	5460	109			70-130		
Silver	ug/L	ND	2500	2730	109			70-130		
Thallium	ug/L	ND	5000	4260	85			70-130		
Zinc	ug/L	3710	5000	9090	108			70-130		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-340

Pace Project No.: 60172276

QC Batch:	MPRP/27851	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
Associated Lab Samples:	60172276001		

METHOD BLANK: 1403271 Matrix: Water

Associated Lab Samples: 60172276001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	07/01/14 14:06	
Antimony, Dissolved	ug/L	ND	10.0	07/01/14 14:06	
Arsenic, Dissolved	ug/L	ND	10.0	07/01/14 14:06	
Beryllium, Dissolved	ug/L	ND	1.0	07/01/14 14:06	
Cadmium, Dissolved	ug/L	ND	5.0	07/01/14 14:06	
Chromium, Dissolved	ug/L	ND	5.0	07/01/14 14:06	
Cobalt, Dissolved	ug/L	ND	5.0	07/01/14 14:06	
Copper, Dissolved	ug/L	ND	10.0	07/01/14 14:06	
Iron, Dissolved	ug/L	ND	50.0	07/01/14 14:06	
Lead, Dissolved	ug/L	ND	5.0	07/01/14 14:06	
Nickel, Dissolved	ug/L	ND	5.0	07/01/14 14:06	
Selenium, Dissolved	ug/L	ND	15.0	07/01/14 14:06	
Silver, Dissolved	ug/L	ND	7.0	07/01/14 14:06	
Thallium, Dissolved	ug/L	ND	20.0	07/01/14 14:06	
Zinc, Dissolved	ug/L	ND	50.0	07/01/14 14:06	

LABORATORY CONTROL SAMPLE: 1403272

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10200	102	85-115	
Antimony, Dissolved	ug/L	1000	1020	102	85-115	
Arsenic, Dissolved	ug/L	1000	1010	101	85-115	
Beryllium, Dissolved	ug/L	1000	1040	104	85-115	
Cadmium, Dissolved	ug/L	1000	1020	102	85-115	
Chromium, Dissolved	ug/L	1000	1030	103	85-115	
Cobalt, Dissolved	ug/L	1000	1060	106	85-115	
Copper, Dissolved	ug/L	1000	1020	102	85-115	
Iron, Dissolved	ug/L	10000	10600	106	85-115	
Lead, Dissolved	ug/L	1000	1050	105	85-115	
Nickel, Dissolved	ug/L	1000	1060	106	85-115	
Selenium, Dissolved	ug/L	1000	1010	101	85-115	
Silver, Dissolved	ug/L	500	508	102	85-115	
Thallium, Dissolved	ug/L	1000	1040	104	85-115	
Zinc, Dissolved	ug/L	1000	1050	105	85-115	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-340

Pace Project No.: 60172276

Parameter	Units	60172276001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max	RPD	Qual
		Result	Conc.	Spike	Conc.	Result	Conc.	% Rec	% Rec								
Aluminum, Dissolved	ug/L	1420	50000	50000	52300	52800	102	103	70-130	1	8						
Antimony, Dissolved	ug/L	62.0	5000	5000	5500	5470	109	108	70-130	1	7						
Arsenic, Dissolved	ug/L	1100	5000	5000	6720	6820	113	114	70-130	1	10						
Beryllium, Dissolved	ug/L	ND	5000	5000	4860	4880	97	98	70-130	0	7						
Cadmium, Dissolved	ug/L	ND	5000	5000	5360	5360	107	107	70-130	0	10						
Chromium, Dissolved	ug/L	185	5000	5000	4960	4960	96	96	70-130	0	10						
Cobalt, Dissolved	ug/L	26.8	5000	5000	4990	4970	99	99	70-130	0	6						
Copper, Dissolved	ug/L	ND	5000	5000	5380	5420	107	108	70-130	1	11						
Iron, Dissolved	ug/L	316000	50000	50000	352000	375000	71	118	70-130	6	10						
Lead, Dissolved	ug/L	30.4	5000	5000	4720	4690	94	93	70-130	1	10						
Nickel, Dissolved	ug/L	105	5000	5000	5000	4970	98	97	70-130	1	10						
Selenium, Dissolved	ug/L	ND	5000	5000	6020	6080	120	122	70-130	1	10						
Silver, Dissolved	ug/L	ND	2500	2500	2630	2660	105	106	70-130	1	10						
Thallium, Dissolved	ug/L	ND	5000	5000	4360	4330	87	87	70-130	1	6						
Zinc, Dissolved	ug/L	4140	5000	5000	8900	9150	95	100	70-130	3	11						

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-340

Pace Project No.: 60172276

QC Batch: MSV/62654 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60172276001, 60172276002

METHOD BLANK: 1402437 Matrix: Water

Associated Lab Samples: 60172276001, 60172276002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/30/14 03:17	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/30/14 03:17	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	06/30/14 03:17	
1,2-Dichloroethane	ug/L	ND	1.0	06/30/14 03:17	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/30/14 03:17	
2-Butanone (MEK)	ug/L	ND	10.0	06/30/14 03:17	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/30/14 03:17	N2
Acetone	ug/L	ND	10.0	06/30/14 03:17	N2
Benzene	ug/L	ND	1.0	06/30/14 03:17	
Bromodichloromethane	ug/L	ND	1.0	06/30/14 03:17	
Bromoform	ug/L	ND	1.0	06/30/14 03:17	
Bromomethane	ug/L	ND	5.0	06/30/14 03:17	
Carbon tetrachloride	ug/L	ND	1.0	06/30/14 03:17	
Chloroethane	ug/L	ND	1.0	06/30/14 03:17	
Chloroform	ug/L	ND	1.0	06/30/14 03:17	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/30/14 03:17	N2
Ethylbenzene	ug/L	ND	1.0	06/30/14 03:17	
Methylene chloride	ug/L	ND	1.0	06/30/14 03:17	
Tetrachloroethene	ug/L	ND	1.0	06/30/14 03:17	
Toluene	ug/L	ND	1.0	06/30/14 03:17	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/30/14 03:17	
Trichloroethene	ug/L	ND	1.0	06/30/14 03:17	
Vinyl chloride	ug/L	ND	1.0	06/30/14 03:17	
Xylene (Total)	ug/L	ND	3.0	06/30/14 03:17	N2
1,2-Dichloroethane-d4 (S)	%	105	80-120	06/30/14 03:17	
4-Bromofluorobenzene (S)	%	104	80-120	06/30/14 03:17	
Toluene-d8 (S)	%	103	80-120	06/30/14 03:17	

LABORATORY CONTROL SAMPLE: 1402438

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.6	98	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	21.0	105	67-127	N2
1,1,2-Trichloroethane	ug/L	20	21.2	106	67-124	
1,2-Dichloroethane	ug/L	20	20.3	102	70-126	
1,4-Dichlorobenzene	ug/L	20	20.2	101	74-120	
2-Butanone (MEK)	ug/L	100	101	101	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	112	112	59-131	N2
Acetone	ug/L	100	89.6	90	38-134	N2
Benzene	ug/L	20	19.5	98	75-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-340

Pace Project No.: 60172276

LABORATORY CONTROL SAMPLE: 1402438

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	20	20.9	105	68-125	
Bromoform	ug/L	20	19.9	100	65-127	
Bromomethane	ug/L	20	13.2	66	13-157	
Carbon tetrachloride	ug/L	20	19.0	95	70-131	
Chloroethane	ug/L	20	18.2	91	47-133	
Chloroform	ug/L	20	19.8	99	65-127	
cis-1,2-Dichloroethene	ug/L	20	20.0	100	68-127	N2
Ethylbenzene	ug/L	20	19.8	99	74-122	
Methylene chloride	ug/L	20	18.0	90	64-129	
Tetrachloroethene	ug/L	20	19.0	95	73-125	
Toluene	ug/L	20	18.3	92	69-126	
trans-1,2-Dichloroethene	ug/L	20	18.8	94	66-129	
Trichloroethene	ug/L	20	19.9	99	71-123	
Vinyl chloride	ug/L	20	18.6	93	43-129	
Xylene (Total)	ug/L	60	59.9	100	75-121	N2
1,2-Dichloroethane-d4 (S)	%			102	80-120	
4-Bromofluorobenzene (S)	%			104	80-120	
Toluene-d8 (S)	%			97	80-120	

MATRIX SPIKE SAMPLE: 1402439

Parameter	Units	60172276001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	4840	97	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	5430	109	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	4930	99	52-143	
1,2-Dichloroethane	ug/L	ND	5000	4560	91	49-144	
1,4-Dichlorobenzene	ug/L	ND	5000	4920	96	33-140	
2-Butanone (MEK)	ug/L	41200	25000	59900	75	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	27300	107	40-160	N2
Acetone	ug/L	94600	25000	106000	46	10-160	N2
Benzene	ug/L	ND	5000	4490	90	37-151	
Bromodichloromethane	ug/L	ND	5000	4880	98	35-142	
Bromoform	ug/L	ND	5000	4630	93	45-142	
Bromomethane	ug/L	ND	5000	3480	70	10-158	
Carbon tetrachloride	ug/L	ND	5000	4890	98	70-140	
Chloroethane	ug/L	ND	5000	4590	92	19-152	
Chloroform	ug/L	ND	5000	4560	91	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	4600	92	34-147	N2
Ethylbenzene	ug/L	ND	5000	4790	96	40-142	
Methylene chloride	ug/L	434	5000	4350	78	31-144	
Tetrachloroethene	ug/L	ND	5000	4770	95	64-148	
Toluene	ug/L	ND	5000	4230	85	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	4580	92	54-151	
Trichloroethene	ug/L	ND	5000	4730	95	71-149	
Vinyl chloride	ug/L	ND	5000	4710	94	22-146	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-340

Pace Project No.: 60172276

MATRIX SPIKE SAMPLE:		1402439		60172276001		Spike Conc.		MS Result		MS % Rec		% Rec Limits		Qualifiers	
Parameter	Units	Result	Conc.	Result	% Rec	Limit	Qualifier								
Xylene (Total)	ug/L	ND	15000	13900	92	37-144	N2								
1,2-Dichloroethane-d4 (S)	%				99	80-120									
4-Bromofluorobenzene (S)	%				103	80-120									
Toluene-d8 (S)	%				99	80-120									
Preservation pH		6.0		6.0											

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-340
Pace Project No.: 60172276

QC Batch: OEXT/44868 Analysis Method: EPA 625
QC Batch Method: EPA 625 Analysis Description: 625 MSS
Associated Lab Samples: 60172276001

METHOD BLANK: 1401938 Matrix: Water
Associated Lab Samples: 60172276001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/28/14 12:54	
2,4,6-Trichlorophenol	ug/L	ND	5.0	06/28/14 12:54	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	06/28/14 12:54	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	06/28/14 12:54	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	06/28/14 12:54	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/28/14 12:54	
Hexachlorocyclopentadiene	ug/L	ND	5.0	06/28/14 12:54	
Hexachloroethane	ug/L	ND	5.0	06/28/14 12:54	
Naphthalene	ug/L	ND	5.0	06/28/14 12:54	
Nitrobenzene	ug/L	ND	5.0	06/28/14 12:54	
Pentachlorophenol	ug/L	ND	5.0	06/28/14 12:54	
Phenol	ug/L	ND	5.0	06/28/14 12:54	
2,4,6-Tribromophenol (S)	%	81	39-120	06/28/14 12:54	
2-Fluorobiphenyl (S)	%	91	39-120	06/28/14 12:54	
2-Fluorophenol (S)	%	48	17-120	06/28/14 12:54	
Nitrobenzene-d5 (S)	%	96	33-120	06/28/14 12:54	
Phenol-d6 (S)	%	31	11-120	06/28/14 12:54	
Terphenyl-d14 (S)	%	85	45-120	06/28/14 12:54	

LABORATORY CONTROL SAMPLE: 1401939

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	43.0	86	46-120	
2,4,6-Trichlorophenol	ug/L	50	44.1	88	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	34.5	69	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	31.3	63	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	49.4	99	40-133	
Hexachloro-1,3-butadiene	ug/L	50	38.9	78	44-116	
Hexachlorocyclopentadiene	ug/L	100	89.3	89	24-120	
Hexachloroethane	ug/L	50	38.8	78	43-113	
Naphthalene	ug/L	50	44.7	89	48-120	
Nitrobenzene	ug/L	50	43.7	87	48-120	
Pentachlorophenol	ug/L	50	45.2	90	47-120	
Phenol	ug/L	50	16.8	34	16-112	
2,4,6-Tribromophenol (S)	%			86	39-120	
2-Fluorobiphenyl (S)	%			89	39-120	
2-Fluorophenol (S)	%			48	17-120	
Nitrobenzene-d5 (S)	%			83	33-120	
Phenol-d6 (S)	%			32	11-120	
Terphenyl-d14 (S)	%			94	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-340

Pace Project No.: 60172276

MATRIX SPIKE SAMPLE:	1401940	60172276001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3700	74	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4390	88	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	5000	4020	80	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	5990	5000	9330	67	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	1260J	25	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3510	70	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	2100	21	11-120	
Hexachloroethane	ug/L	ND	5000	3120	62	40-113	
Naphthalene	ug/L	ND	5000	4580	76	45-120	
Nitrobenzene	ug/L	ND	5000	4090	82	38-120	
Pentachlorophenol	ug/L	ND	5000	4520	90	43-135	
Phenol	ug/L	8650	5000	10900	46	13-112	
2,4,6-Tribromophenol (S)	%				83	39-120	
2-Fluorobiphenyl (S)	%				84	39-120	
2-Fluorophenol (S)	%				44	17-120	
Nitrobenzene-d5 (S)	%				128	33-120	SO
Phenol-d6 (S)	%				32	11-120	
Terphenyl-d14 (S)	%				95	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-340

Pace Project No.: 60172276

QC Batch:	WET/48748	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60172276001		

METHOD BLANK: 1403376 Matrix: Water
Associated Lab Samples: 60172276001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	06/30/14 09:21	

LABORATORY CONTROL SAMPLE: 1403377

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	36.5	91	78-114	

MATRIX SPIKE SAMPLE: 1403384

Parameter	Units	60172024002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	8.0	47.6	56.1	101	78-114	

SAMPLE DUPLICATE: 1403379

Parameter	Units	60172276001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	926	928	0	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-340

Pace Project No.: 60172276

QC Batch:	WET/48749	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60172276001		

METHOD BLANK: 1403392 Matrix: Water
Associated Lab Samples: 60172276001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	06/30/14 09:31	

LABORATORY CONTROL SAMPLE: 1403393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	23.7	118	64-132	

MATRIX SPIKE SAMPLE: 1403394

Parameter	Units	60172024002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	6.2	23.8	23.5	72	64-132	

SAMPLE DUPLICATE: 1403395

Parameter	Units	60172276001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	10.8	9.6	12	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-340

Pace Project No.: 60172276

QC Batch: WET/48689

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60172276001

METHOD BLANK: 1400829

Matrix: Water

Associated Lab Samples: 60172276001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	06/25/14 13:30	

SAMPLE DUPLICATE: 1400830

Parameter	Units	60172238001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	7380	7260	2	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-340

Pace Project No.: 60172276

QC Batch: WET/48758 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60172276001

SAMPLE DUPLICATE: 1403567

Parameter	Units	60172274001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.2	8.2	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-340

Pace Project No.: 60172276

QC Batch:	WET/48694	Analysis Method:	SM 5210B
QC Batch Method:	SM 5210B	Analysis Description:	5210B BOD, 5 day
Associated Lab Samples:	60172276001		

METHOD BLANK: 1400900 Matrix: Water

Associated Lab Samples: 60172276001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	06/30/14 12:11	

LABORATORY CONTROL SAMPLE: 1400901

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	222	112	85-115	

SAMPLE DUPLICATE: 1400902

Parameter	Units	60172293001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	1450	1480	2	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-340

Pace Project No.: 60172276

QC Batch:	WETA/30011	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60172276001		

METHOD BLANK: 1401323 Matrix: Water
Associated Lab Samples: 60172276001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	06/26/14 11:34	

LABORATORY CONTROL SAMPLE: 1401324

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	101	90-110	

MATRIX SPIKE SAMPLE: 1401325

Parameter	Units	60172214001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.4	70	90-110	M1

MATRIX SPIKE SAMPLE: 1401326

Parameter	Units	60172228006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.1	104	90-110	

SAMPLE DUPLICATE: 1401332

Parameter	Units	60172276001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	576	584	1	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-340

Pace Project No.: 60172276

QC Batch: WETA/30017 Analysis Method: EPA 410.4
 QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
 Associated Lab Samples: 60172276001

METHOD BLANK: 1401914 Matrix: Water
 Associated Lab Samples: 60172276001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	06/30/14 09:23	

LABORATORY CONTROL SAMPLE: 1401915

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	52.8	106	90-110	

MATRIX SPIKE SAMPLE: 1401916

Parameter	Units	60172138006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	5260	2500	7310	82	90-110	M1

MATRIX SPIKE SAMPLE: 1401919

Parameter	Units	60172276001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50300	25000	73000	91	90-110	

SAMPLE DUPLICATE: 1401917

Parameter	Units	60172138008 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	6280	6230	1	25	

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.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 316-340

Pace Project No.: 60172276

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.

PQL - Practical Quantitation 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.

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

- | | |
|----|-------------------------------------------------------------------------------------------------------------|
| D3 | Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference. |
| D9 | Dissolved result is greater than the total. Data is within laboratory control limits. |
| 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. |
| N2 | The lab does not hold TNI accreditation for this parameter. |
| S0 | Surrogate recovery outside laboratory control limits. |

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-340

Pace Project No.: 60172276

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60172276001	316-340	EPA 200.7	MPRP/27813	EPA 200.7	ICP/21034
60172276001	316-340	EPA 200.7	MPRP/27851	EPA 200.7	ICP/21056
60172276001	316-340	EPA 245.1	MERP/8534	EPA 245.1	MERC/8489
60172276001	316-340	EPA 245.1	MERP/8551	EPA 245.1	MERC/8502
60172276001	316-340	EPA 625	OEXT/44868	EPA 625	MSSV/14370
60172276001	316-340	EPA 624 Low	MSV/62654		
60172276002	TRIP BLANK	EPA 624 Low	MSV/62654		
60172276001	316-340	EPA 1664A	WET/48748		
60172276001	316-340	EPA 1664A	WET/48749		
60172276001	316-340	SM 2540D	WET/48689		
60172276001	316-340	SM 4500-H+B	WET/48758		
60172276001	316-340	SM 5210B	WET/48694	SM 5210B	WET/48768
60172276001	316-340	EPA 350.1	WETA/30011		
60172276001	316-340	EPA 410.4	WETA/30017		

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Sample Condition Upon Receipt

WO#: 60172276



60172276

Client Name: Barr

Courier: Fed Ex UPS USPS Client Commercial Pace Other Xroad

Tracking #: _____ Pace Shipping Label Used? Yes No

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other 2 PIC

Thermometer Used: T-239 / T-194 Type of Ice: Wet Blue None Samples received on ice, cooling process has begun.

Cooler Temperature: 9.0

Date and initials of person examining contents: pv 6/25/14

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1. <u>not enough ice in cooler</u>
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>and all ice melted.</u>
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>BGD PH</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix:	<u>WT</u>	13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>Added 2.5 mL of HNO3 to BP3N. PH 6.0/4.0</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<u>Added 2.0 mL of H2SO4 to BP3S. PH 6.0/1.5</u>
Exceptions: <u>VOA</u> , coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>pv</u> Lot # of added preservative <u>12513</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank lot # (if purchased): <u>COVER</u>		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State <u>MD</u>

Client Notification/ Resolution: Copy COC to Client? Y N Field Data Required? Y N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: [Signature]

July 03, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-341
Pace Project No.: 60172403

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 26, 2014. 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,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Bill Abernathy, Feezor Engineering
Kelly Caddy, Barr Engineering
DAN FEEZOR, FEEZOR ENGINEERING
Dana B. Pasi, Barr Engineering Co.
Brian Power, Republic Services
Margaret Treanor, Barr Engineering Company



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CERTIFICATIONS

Project: BRIDGETON LF 316-341

Pace Project No.: 60172403

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-13-4

Utah Certification #: KS000212013-3

Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-341

Pace Project No.: 60172403

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60172403001	316-341	Water	06/25/14 07:46	06/26/14 01:55
60172403002	TRIP BLANK	Water	06/25/14 07:46	06/26/14 01:55

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-341

Pace Project No.: 60172403

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60172403001	316-341	EPA 200.7	NDJ	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	CRT	1
		EPA 1664A	CRT	1
		SM 2540D	ESM	1
		SM 4500-H+B	NDL	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC1	1
		60172403002	TRIP BLANK	EPA 624 Low

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-341

Pace Project No.: 60172403

Sample: 316-341		Lab ID: 60172403001	Collected: 06/25/14 07:46	Received: 06/26/14 01:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	6280 ug/L		750	2	06/30/14 17:05	07/01/14 16:31	7429-90-5	
Antimony	62.4 ug/L		50.0	1	06/30/14 17:05	07/01/14 16:29	7440-36-0	
Arsenic	1250 ug/L		50.0	1	06/30/14 17:05	07/01/14 16:29	7440-38-2	
Beryllium	ND ug/L		5.0	1	06/30/14 17:05	07/01/14 16:29	7440-41-7	
Cadmium	ND ug/L		25.0	1	06/30/14 17:05	07/01/14 16:29	7440-43-9	
Chromium	238 ug/L		25.0	1	06/30/14 17:05	07/01/14 16:29	7440-47-3	
Cobalt	34.0 ug/L		25.0	1	06/30/14 17:05	07/01/14 16:29	7440-48-4	
Copper	ND ug/L		50.0	1	06/30/14 17:05	07/01/14 16:29	7440-50-8	
Iron	668000 ug/L		250	1	06/30/14 17:05	07/01/14 16:29	7439-89-6	M1
Lead	69.9 ug/L		25.0	1	06/30/14 17:05	07/01/14 16:29	7439-92-1	
Nickel	122 ug/L		25.0	1	06/30/14 17:05	07/01/14 16:29	7440-02-0	
Selenium	ND ug/L		75.0	1	06/30/14 17:05	07/01/14 16:29	7782-49-2	
Silver	ND ug/L		35.0	1	06/30/14 17:05	07/01/14 16:29	7440-22-4	
Thallium	ND ug/L		100	1	06/30/14 17:05	07/01/14 16:29	7440-28-0	
Zinc	4430 ug/L		500	2	06/30/14 17:05	07/01/14 16:31	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	1540 ug/L		750	2	06/30/14 10:50	07/01/14 14:32	7429-90-5	
Antimony, Dissolved	56.9 ug/L		50.0	1	06/30/14 10:50	07/01/14 14:30	7440-36-0	
Arsenic, Dissolved	1060 ug/L		50.0	1	06/30/14 10:50	07/01/14 14:30	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	06/30/14 10:50	07/01/14 14:30	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	06/30/14 10:50	07/01/14 14:30	7440-43-9	
Chromium, Dissolved	188 ug/L		25.0	1	06/30/14 10:50	07/01/14 14:30	7440-47-3	
Cobalt, Dissolved	27.6 ug/L		25.0	1	06/30/14 10:50	07/01/14 14:30	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	06/30/14 10:50	07/01/14 14:30	7440-50-8	
Iron, Dissolved	338000 ug/L		250	1	06/30/14 10:50	07/01/14 14:30	7439-89-6	
Lead, Dissolved	ND ug/L		25.0	1	06/30/14 10:50	07/01/14 14:30	7439-92-1	
Nickel, Dissolved	93.9 ug/L		25.0	1	06/30/14 10:50	07/01/14 14:30	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	06/30/14 10:50	07/01/14 14:30	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	06/30/14 10:50	07/01/14 14:30	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	06/30/14 10:50	07/01/14 14:30	7440-28-0	
Zinc, Dissolved	3960 ug/L		500	2	06/30/14 10:50	07/01/14 14:32	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	17.5 ug/L		6.0	1	07/02/14 10:15	07/02/14 13:19	7439-97-6	
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND ug/L		6.0	1	07/02/14 10:15	07/02/14 14:13	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	06/27/14 00:00	06/28/14 17:44	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	06/27/14 00:00	06/28/14 17:44	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	06/27/14 00:00	06/28/14 17:44	77-47-4	
Hexachloroethane	ND ug/L		1000	2	06/27/14 00:00	06/28/14 17:44	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	2	06/27/14 00:00	06/28/14 17:44	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	7170 ug/L		4000	2	06/27/14 00:00	06/28/14 17:44		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-341

Pace Project No.: 60172403

Sample: 316-341 **Lab ID: 60172403001** Collected: 06/25/14 07:46 Received: 06/26/14 01:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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625 MSSV

Analytical Method: EPA 625 Preparation Method: EPA 625

Naphthalene	ND ug/L		1000	2	06/27/14 00:00	06/28/14 17:44	91-20-3	
Nitrobenzene	ND ug/L		1000	2	06/27/14 00:00	06/28/14 17:44	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	06/27/14 00:00	06/28/14 17:44	87-86-5	
Phenol	10600 ug/L		1000	2	06/27/14 00:00	06/28/14 17:44	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	06/27/14 00:00	06/28/14 17:44	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	06/27/14 00:00	06/28/14 17:44	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	147 %		33-120	2	06/27/14 00:00	06/28/14 17:44	4165-60-0	S0
2-Fluorobiphenyl (S)	92 %		39-120	2	06/27/14 00:00	06/28/14 17:44	321-60-8	
Terphenyl-d14 (S)	99 %		45-120	2	06/27/14 00:00	06/28/14 17:44	1718-51-0	
Phenol-d6 (S)	31 %		11-120	2	06/27/14 00:00	06/28/14 17:44	13127-88-3	
2-Fluorophenol (S)	42 %		17-120	2	06/27/14 00:00	06/28/14 17:44	367-12-4	
2,4,6-Tribromophenol (S)	92 %		39-120	2	06/27/14 00:00	06/28/14 17:44	118-79-6	

624 Volatile Organics

Analytical Method: EPA 624 Low

Acetone	89100 ug/L		2500	250		06/30/14 05:22	67-64-1	N2
Benzene	ND ug/L		250	250		06/30/14 05:22	71-43-2	
Bromodichloromethane	ND ug/L		250	250		06/30/14 05:22	75-27-4	
Bromoform	ND ug/L		250	250		06/30/14 05:22	75-25-2	
Bromomethane	ND ug/L		1250	250		06/30/14 05:22	74-83-9	
2-Butanone (MEK)	39400 ug/L		2500	250		06/30/14 05:22	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		06/30/14 05:22	56-23-5	
Chloroethane	ND ug/L		250	250		06/30/14 05:22	75-00-3	
Chloroform	ND ug/L		250	250		06/30/14 05:22	67-66-3	
1,4-Dichlorobenzene	ND ug/L		250	250		06/30/14 05:22	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		06/30/14 05:22	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		06/30/14 05:22	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		06/30/14 05:22	156-60-5	
Ethylbenzene	ND ug/L		250	250		06/30/14 05:22	100-41-4	
Methylene chloride	459 ug/L		250	250		06/30/14 05:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		06/30/14 05:22	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		06/30/14 05:22	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		06/30/14 05:22	127-18-4	
Toluene	ND ug/L		250	250		06/30/14 05:22	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		06/30/14 05:22	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		06/30/14 05:22	79-00-5	
Trichloroethene	ND ug/L		250	250		06/30/14 05:22	79-01-6	
Vinyl chloride	ND ug/L		250	250		06/30/14 05:22	75-01-4	
Xylene (Total)	ND ug/L		750	250		06/30/14 05:22	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	101 %		80-120	250		06/30/14 05:22	460-00-4	
Toluene-d8 (S)	98 %		80-120	250		06/30/14 05:22	2037-26-5	
1,2-Dichloroethane-d4 (S)	98 %		80-120	250		06/30/14 05:22	17060-07-0	
Preservation pH	6.0		1.0	250		06/30/14 05:22		

HEM, Oil and Grease

Analytical Method: EPA 1664A

Oil and Grease	1080 mg/L		5.0	1		06/30/14 09:28		
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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-341

Pace Project No.: 60172403

Sample: 316-341		Lab ID: 60172403001	Collected: 06/25/14 07:46	Received: 06/26/14 01:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	9.6	mg/L	5.0	1		06/30/14 09:34		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	4160	mg/L	5.0	1		06/26/14 15:51		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.5	Std. Units	0.10	1		06/30/14 14:30		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	26300	mg/L	2.0	1	06/26/14 18:31	07/01/14 13:29		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	620	mg/L	20.0	200		07/01/14 11:59	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	50500	mg/L	5000	500		07/02/14 09:18		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-341

Pace Project No.: 60172403

Sample: TRIP BLANK		Lab ID: 60172403002	Collected: 06/25/14 07:46	Received: 06/26/14 01:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		06/30/14 04:04	67-64-1	N2
Benzene	ND ug/L		1.0	1		06/30/14 04:04	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		06/30/14 04:04	75-27-4	
Bromoform	ND ug/L		1.0	1		06/30/14 04:04	75-25-2	
Bromomethane	ND ug/L		5.0	1		06/30/14 04:04	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/30/14 04:04	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		06/30/14 04:04	56-23-5	
Chloroethane	ND ug/L		1.0	1		06/30/14 04:04	75-00-3	
Chloroform	ND ug/L		1.0	1		06/30/14 04:04	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		06/30/14 04:04	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		06/30/14 04:04	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		06/30/14 04:04	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		06/30/14 04:04	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		06/30/14 04:04	100-41-4	
Methylene chloride	ND ug/L		1.0	1		06/30/14 04:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/30/14 04:04	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		06/30/14 04:04	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		06/30/14 04:04	127-18-4	
Toluene	ND ug/L		1.0	1		06/30/14 04:04	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		06/30/14 04:04	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		06/30/14 04:04	79-00-5	
Trichloroethene	ND ug/L		1.0	1		06/30/14 04:04	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		06/30/14 04:04	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		06/30/14 04:04	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100 %		80-120	1		06/30/14 04:04	460-00-4	
Toluene-d8 (S)	100 %		80-120	1		06/30/14 04:04	2037-26-5	
1,2-Dichloroethane-d4 (S)	99 %		80-120	1		06/30/14 04:04	17060-07-0	
Preservation pH	6.0		1.0	1		06/30/14 04:04		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-341

Pace Project No.: 60172403

QC Batch:	MERP/8550	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
Associated Lab Samples:	60172403001		

METHOD BLANK: 1404770 Matrix: Water
Associated Lab Samples: 60172403001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	07/02/14 13:15	

LABORATORY CONTROL SAMPLE: 1404771

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.5	111	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1404772 1404773

Parameter	Units	60172403001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Mercury	ug/L	17.5	150	150	170	169	102	101	70-130	1	20		

MATRIX SPIKE SAMPLE: 1404774

Parameter	Units	60172697001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	5.2	104	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-341

Pace Project No.: 60172403

QC Batch: MERP/8551

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60172403001

METHOD BLANK: 1404801

Matrix: Water

Associated Lab Samples: 60172403001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	07/02/14 13:57	

LABORATORY CONTROL SAMPLE: 1404802

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.6	111	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1404803 1404804

Parameter	Units	60172276001		MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.								
Mercury, Dissolved	ug/L	ND	150	150	150	158	156	105	104	70-130	1	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-341
Pace Project No.: 60172403

QC Batch: MPRP/27857 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60172403001

METHOD BLANK: 1403681 Matrix: Water
Associated Lab Samples: 60172403001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	07/01/14 16:26	
Antimony	ug/L	ND	10.0	07/01/14 16:26	
Arsenic	ug/L	ND	10.0	07/01/14 16:26	
Beryllium	ug/L	ND	1.0	07/01/14 16:26	
Cadmium	ug/L	ND	5.0	07/01/14 16:26	
Chromium	ug/L	ND	5.0	07/01/14 16:26	
Cobalt	ug/L	ND	5.0	07/01/14 16:26	
Copper	ug/L	ND	10.0	07/01/14 16:26	
Iron	ug/L	ND	50.0	07/01/14 16:26	
Lead	ug/L	ND	5.0	07/01/14 16:26	
Nickel	ug/L	ND	5.0	07/01/14 16:26	
Selenium	ug/L	ND	15.0	07/01/14 16:26	
Silver	ug/L	ND	7.0	07/01/14 16:26	
Thallium	ug/L	ND	20.0	07/01/14 16:26	
Zinc	ug/L	ND	50.0	07/01/14 16:26	

LABORATORY CONTROL SAMPLE: 1403682

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10200	102	85-115	
Antimony	ug/L	1000	1030	103	85-115	
Arsenic	ug/L	1000	995	99	85-115	
Beryllium	ug/L	1000	1020	102	85-115	
Cadmium	ug/L	1000	1010	101	85-115	
Chromium	ug/L	1000	1010	101	85-115	
Cobalt	ug/L	1000	1040	104	85-115	
Copper	ug/L	1000	1020	102	85-115	
Iron	ug/L	10000	10200	102	85-115	
Lead	ug/L	1000	1040	104	85-115	
Nickel	ug/L	1000	1050	105	85-115	
Selenium	ug/L	1000	1010	101	85-115	
Silver	ug/L	500	503	101	85-115	
Thallium	ug/L	1000	1030	103	85-115	
Zinc	ug/L	1000	1020	102	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-341

Pace Project No.: 60172403

Parameter	Units	60172403001		MS		MSD		MS		MSD		% Rec	% Rec	Limits	RPD	RPD	Max	Qual
		Result	Conc.	Spike	Conc.	Result	Conc.	Result	Conc.	Result	Conc.							
Aluminum	ug/L	6280	50000	50000	50000	61100	58900	110	105	70-130	4	8						
Antimony	ug/L	62.4	5000	5000	5000	5520	5320	109	105	70-130	4	7						
Arsenic	ug/L	1250	5000	5000	5000	6930	6680	114	109	70-130	4	10						
Beryllium	ug/L	ND	5000	5000	5000	4820	4720	96	94	70-130	2	7						
Cadmium	ug/L	ND	5000	5000	5000	5420	5220	108	104	70-130	4	10						
Chromium	ug/L	238	5000	5000	5000	4990	4900	95	93	70-130	2	10						
Cobalt	ug/L	34.0	5000	5000	5000	4960	4830	99	96	70-130	3	6						
Copper	ug/L	ND	5000	5000	5000	5540	5380	110	107	70-130	3	11						
Iron	ug/L	668000	50000	50000	50000	742000	702000	147	67	70-130	6	10 M1						
Lead	ug/L	69.9	5000	5000	5000	4770	4660	94	92	70-130	2	10						
Nickel	ug/L	122	5000	5000	5000	5020	4880	98	95	70-130	3	10						
Selenium	ug/L	ND	5000	5000	5000	6170	5910	123	118	70-130	4	10						
Silver	ug/L	ND	2500	2500	2500	2690	2610	107	104	70-130	3	10						
Thallium	ug/L	ND	5000	5000	5000	4300	4220	86	84	70-130	2	6						
Zinc	ug/L	4430	5000	5000	5000	9150	8780	94	87	70-130	4	11						

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-341

Pace Project No.: 60172403

QC Batch: MPRP/27851

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Dissolved

Associated Lab Samples: 60172403001

METHOD BLANK: 1403271

Matrix: Water

Associated Lab Samples: 60172403001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	07/01/14 14:06	
Antimony, Dissolved	ug/L	ND	10.0	07/01/14 14:06	
Arsenic, Dissolved	ug/L	ND	10.0	07/01/14 14:06	
Beryllium, Dissolved	ug/L	ND	1.0	07/01/14 14:06	
Cadmium, Dissolved	ug/L	ND	5.0	07/01/14 14:06	
Chromium, Dissolved	ug/L	ND	5.0	07/01/14 14:06	
Cobalt, Dissolved	ug/L	ND	5.0	07/01/14 14:06	
Copper, Dissolved	ug/L	ND	10.0	07/01/14 14:06	
Iron, Dissolved	ug/L	ND	50.0	07/01/14 14:06	
Lead, Dissolved	ug/L	ND	5.0	07/01/14 14:06	
Nickel, Dissolved	ug/L	ND	5.0	07/01/14 14:06	
Selenium, Dissolved	ug/L	ND	15.0	07/01/14 14:06	
Silver, Dissolved	ug/L	ND	7.0	07/01/14 14:06	
Thallium, Dissolved	ug/L	ND	20.0	07/01/14 14:06	
Zinc, Dissolved	ug/L	ND	50.0	07/01/14 14:06	

LABORATORY CONTROL SAMPLE: 1403272

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10200	102	85-115	
Antimony, Dissolved	ug/L	1000	1020	102	85-115	
Arsenic, Dissolved	ug/L	1000	1010	101	85-115	
Beryllium, Dissolved	ug/L	1000	1040	104	85-115	
Cadmium, Dissolved	ug/L	1000	1020	102	85-115	
Chromium, Dissolved	ug/L	1000	1030	103	85-115	
Cobalt, Dissolved	ug/L	1000	1060	106	85-115	
Copper, Dissolved	ug/L	1000	1020	102	85-115	
Iron, Dissolved	ug/L	10000	10600	106	85-115	
Lead, Dissolved	ug/L	1000	1050	105	85-115	
Nickel, Dissolved	ug/L	1000	1060	106	85-115	
Selenium, Dissolved	ug/L	1000	1010	101	85-115	
Silver, Dissolved	ug/L	500	508	102	85-115	
Thallium, Dissolved	ug/L	1000	1040	104	85-115	
Zinc, Dissolved	ug/L	1000	1050	105	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-341

Pace Project No.: 60172403

Parameter	Units	60172276001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max	RPD	Qual
		Result	Conc.	Spike	Conc.	Result	Result	% Rec	% Rec								
Aluminum, Dissolved	ug/L	1420	50000	50000	52300	52800	102	103	70-130	1	8						
Antimony, Dissolved	ug/L	62.0	5000	5000	5500	5470	109	108	70-130	1	7						
Arsenic, Dissolved	ug/L	1100	5000	5000	6720	6820	113	114	70-130	1	10						
Beryllium, Dissolved	ug/L	ND	5000	5000	4860	4880	97	98	70-130	0	7						
Cadmium, Dissolved	ug/L	ND	5000	5000	5360	5360	107	107	70-130	0	10						
Chromium, Dissolved	ug/L	185	5000	5000	4960	4960	96	96	70-130	0	10						
Cobalt, Dissolved	ug/L	26.8	5000	5000	4990	4970	99	99	70-130	0	6						
Copper, Dissolved	ug/L	ND	5000	5000	5380	5420	107	108	70-130	1	11						
Iron, Dissolved	ug/L	316000	50000	50000	352000	375000	71	118	70-130	6	10						
Lead, Dissolved	ug/L	30.4	5000	5000	4720	4690	94	93	70-130	1	10						
Nickel, Dissolved	ug/L	105	5000	5000	5000	4970	98	97	70-130	1	10						
Selenium, Dissolved	ug/L	ND	5000	5000	6020	6080	120	122	70-130	1	10						
Silver, Dissolved	ug/L	ND	2500	2500	2630	2660	105	106	70-130	1	10						
Thallium, Dissolved	ug/L	ND	5000	5000	4360	4330	87	87	70-130	1	6						
Zinc, Dissolved	ug/L	4140	5000	5000	8900	9150	95	100	70-130	3	11						

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-341

Pace Project No.: 60172403

QC Batch: MSV/62654 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60172403001, 60172403002

METHOD BLANK: 1402437 Matrix: Water

Associated Lab Samples: 60172403001, 60172403002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/30/14 03:17	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/30/14 03:17	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	06/30/14 03:17	
1,2-Dichloroethane	ug/L	ND	1.0	06/30/14 03:17	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/30/14 03:17	
2-Butanone (MEK)	ug/L	ND	10.0	06/30/14 03:17	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/30/14 03:17	N2
Acetone	ug/L	ND	10.0	06/30/14 03:17	N2
Benzene	ug/L	ND	1.0	06/30/14 03:17	
Bromodichloromethane	ug/L	ND	1.0	06/30/14 03:17	
Bromoform	ug/L	ND	1.0	06/30/14 03:17	
Bromomethane	ug/L	ND	5.0	06/30/14 03:17	
Carbon tetrachloride	ug/L	ND	1.0	06/30/14 03:17	
Chloroethane	ug/L	ND	1.0	06/30/14 03:17	
Chloroform	ug/L	ND	1.0	06/30/14 03:17	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/30/14 03:17	N2
Ethylbenzene	ug/L	ND	1.0	06/30/14 03:17	
Methylene chloride	ug/L	ND	1.0	06/30/14 03:17	
Tetrachloroethene	ug/L	ND	1.0	06/30/14 03:17	
Toluene	ug/L	ND	1.0	06/30/14 03:17	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/30/14 03:17	
Trichloroethene	ug/L	ND	1.0	06/30/14 03:17	
Vinyl chloride	ug/L	ND	1.0	06/30/14 03:17	
Xylene (Total)	ug/L	ND	3.0	06/30/14 03:17	N2
1,2-Dichloroethane-d4 (S)	%	105	80-120	06/30/14 03:17	
4-Bromofluorobenzene (S)	%	104	80-120	06/30/14 03:17	
Toluene-d8 (S)	%	103	80-120	06/30/14 03:17	

LABORATORY CONTROL SAMPLE: 1402438

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.6	98	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	21.0	105	67-127	N2
1,1,2-Trichloroethane	ug/L	20	21.2	106	67-124	
1,2-Dichloroethane	ug/L	20	20.3	102	70-126	
1,4-Dichlorobenzene	ug/L	20	20.2	101	74-120	
2-Butanone (MEK)	ug/L	100	101	101	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	112	112	59-131	N2
Acetone	ug/L	100	89.6	90	38-134	N2
Benzene	ug/L	20	19.5	98	75-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-341

Pace Project No.: 60172403

LABORATORY CONTROL SAMPLE: 1402438

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	20	20.9	105	68-125	
Bromoform	ug/L	20	19.9	100	65-127	
Bromomethane	ug/L	20	13.2	66	13-157	
Carbon tetrachloride	ug/L	20	19.0	95	70-131	
Chloroethane	ug/L	20	18.2	91	47-133	
Chloroform	ug/L	20	19.8	99	65-127	
cis-1,2-Dichloroethene	ug/L	20	20.0	100	68-127	N2
Ethylbenzene	ug/L	20	19.8	99	74-122	
Methylene chloride	ug/L	20	18.0	90	64-129	
Tetrachloroethene	ug/L	20	19.0	95	73-125	
Toluene	ug/L	20	18.3	92	69-126	
trans-1,2-Dichloroethene	ug/L	20	18.8	94	66-129	
Trichloroethene	ug/L	20	19.9	99	71-123	
Vinyl chloride	ug/L	20	18.6	93	43-129	
Xylene (Total)	ug/L	60	59.9	100	75-121	N2
1,2-Dichloroethane-d4 (S)	%			102	80-120	
4-Bromofluorobenzene (S)	%			104	80-120	
Toluene-d8 (S)	%			97	80-120	

MATRIX SPIKE SAMPLE: 1402439

Parameter	Units	60172276001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	4840	97	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	5430	109	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	4930	99	52-143	
1,2-Dichloroethane	ug/L	ND	5000	4560	91	49-144	
1,4-Dichlorobenzene	ug/L	ND	5000	4920	96	33-140	
2-Butanone (MEK)	ug/L	41200	25000	59900	75	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	27300	107	40-160	N2
Acetone	ug/L	94600	25000	106000	46	10-160	N2
Benzene	ug/L	ND	5000	4490	90	37-151	
Bromodichloromethane	ug/L	ND	5000	4880	98	35-142	
Bromoform	ug/L	ND	5000	4630	93	45-142	
Bromomethane	ug/L	ND	5000	3480	70	10-158	
Carbon tetrachloride	ug/L	ND	5000	4890	98	70-140	
Chloroethane	ug/L	ND	5000	4590	92	19-152	
Chloroform	ug/L	ND	5000	4560	91	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	4600	92	34-147	N2
Ethylbenzene	ug/L	ND	5000	4790	96	40-142	
Methylene chloride	ug/L	434	5000	4350	78	31-144	
Tetrachloroethene	ug/L	ND	5000	4770	95	64-148	
Toluene	ug/L	ND	5000	4230	85	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	4580	92	54-151	
Trichloroethene	ug/L	ND	5000	4730	95	71-149	
Vinyl chloride	ug/L	ND	5000	4710	94	22-146	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-341

Pace Project No.: 60172403

MATRIX SPIKE SAMPLE:		1402439					
Parameter	Units	60172276001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	ND	15000	13900	92	37-144	N2
1,2-Dichloroethane-d4 (S)	%				99	80-120	
4-Bromofluorobenzene (S)	%				103	80-120	
Toluene-d8 (S)	%				99	80-120	
Preservation pH		6.0		6.0			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-341

Pace Project No.: 60172403

QC Batch:	OEXT/44868	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60172403001		

METHOD BLANK: 1401938 Matrix: Water

Associated Lab Samples: 60172403001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/28/14 12:54	
2,4,6-Trichlorophenol	ug/L	ND	5.0	06/28/14 12:54	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	06/28/14 12:54	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	06/28/14 12:54	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	06/28/14 12:54	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/28/14 12:54	
Hexachlorocyclopentadiene	ug/L	ND	5.0	06/28/14 12:54	
Hexachloroethane	ug/L	ND	5.0	06/28/14 12:54	
Naphthalene	ug/L	ND	5.0	06/28/14 12:54	
Nitrobenzene	ug/L	ND	5.0	06/28/14 12:54	
Pentachlorophenol	ug/L	ND	5.0	06/28/14 12:54	
Phenol	ug/L	ND	5.0	06/28/14 12:54	
2,4,6-Tribromophenol (S)	%	81	39-120	06/28/14 12:54	
2-Fluorobiphenyl (S)	%	91	39-120	06/28/14 12:54	
2-Fluorophenol (S)	%	48	17-120	06/28/14 12:54	
Nitrobenzene-d5 (S)	%	96	33-120	06/28/14 12:54	
Phenol-d6 (S)	%	31	11-120	06/28/14 12:54	
Terphenyl-d14 (S)	%	85	45-120	06/28/14 12:54	

LABORATORY CONTROL SAMPLE: 1401939

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	43.0	86	46-120	
2,4,6-Trichlorophenol	ug/L	50	44.1	88	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	34.5	69	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	31.3	63	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	49.4	99	40-133	
Hexachloro-1,3-butadiene	ug/L	50	38.9	78	44-116	
Hexachlorocyclopentadiene	ug/L	100	89.3	89	24-120	
Hexachloroethane	ug/L	50	38.8	78	43-113	
Naphthalene	ug/L	50	44.7	89	48-120	
Nitrobenzene	ug/L	50	43.7	87	48-120	
Pentachlorophenol	ug/L	50	45.2	90	47-120	
Phenol	ug/L	50	16.8	34	16-112	
2,4,6-Tribromophenol (S)	%			86	39-120	
2-Fluorobiphenyl (S)	%			89	39-120	
2-Fluorophenol (S)	%			48	17-120	
Nitrobenzene-d5 (S)	%			83	33-120	
Phenol-d6 (S)	%			32	11-120	
Terphenyl-d14 (S)	%			94	45-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-341

Pace Project No.: 60172403

MATRIX SPIKE SAMPLE:	1401940	60172276001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3700	74	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4390	88	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	5000	4020	80	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	5990	5000	9330	67	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	1260J	25	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3510	70	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	2100	21	11-120	
Hexachloroethane	ug/L	ND	5000	3120	62	40-113	
Naphthalene	ug/L	ND	5000	4580	76	45-120	
Nitrobenzene	ug/L	ND	5000	4090	82	38-120	
Pentachlorophenol	ug/L	ND	5000	4520	90	43-135	
Phenol	ug/L	8650	5000	10900	46	13-112	
2,4,6-Tribromophenol (S)	%				83	39-120	
2-Fluorobiphenyl (S)	%				84	39-120	
2-Fluorophenol (S)	%				44	17-120	
Nitrobenzene-d5 (S)	%				128	33-120	SO
Phenol-d6 (S)	%				32	11-120	
Terphenyl-d14 (S)	%				95	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-341

Pace Project No.: 60172403

QC Batch:	WET/48748	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60172403001		

METHOD BLANK: 1403376 Matrix: Water

Associated Lab Samples: 60172403001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	06/30/14 09:21	

LABORATORY CONTROL SAMPLE: 1403377

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	36.5	91	78-114	

MATRIX SPIKE SAMPLE: 1403384

Parameter	Units	60172024002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	8.0	47.6	56.1	101	78-114	

SAMPLE DUPLICATE: 1403379

Parameter	Units	60172276001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	926	928	0	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-341

Pace Project No.: 60172403

QC Batch: WET/48749

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60172403001

METHOD BLANK: 1403392

Matrix: Water

Associated Lab Samples: 60172403001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	06/30/14 09:31	

LABORATORY CONTROL SAMPLE: 1403393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	23.7	118	64-132	

MATRIX SPIKE SAMPLE: 1403394

Parameter	Units	60172024002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	6.2	23.8	23.5	72	64-132	

SAMPLE DUPLICATE: 1403395

Parameter	Units	60172276001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	10.8	9.6	12	34	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-341

Pace Project No.: 60172403

QC Batch: WET/48714

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60172403001

METHOD BLANK: 1401609

Matrix: Water

Associated Lab Samples: 60172403001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	06/26/14 15:50	

SAMPLE DUPLICATE: 1401610

Parameter	Units	60172394001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	ND		10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-341

Pace Project No.: 60172403

QC Batch: WET/48758 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60172403001

SAMPLE DUPLICATE: 1403567

Parameter	Units	60172274001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.2	8.2	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-341

Pace Project No.: 60172403

QC Batch: WET/48725

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60172403001

METHOD BLANK: 1401896

Matrix: Water

Associated Lab Samples: 60172403001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	07/01/14 13:27	

LABORATORY CONTROL SAMPLE: 1401897

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	193	97	85-115	

SAMPLE DUPLICATE: 1401898

Parameter	Units	60172407001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	148	130	13	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-341

Pace Project No.: 60172403

QC Batch: WETA/30064

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 60172403001

METHOD BLANK: 1404059

Matrix: Water

Associated Lab Samples: 60172403001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	07/01/14 11:45	

LABORATORY CONTROL SAMPLE: 1404060

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	105	90-110	

MATRIX SPIKE SAMPLE: 1404061

Parameter	Units	60172395001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	3.8	4	7.1	83	90-110	M1

MATRIX SPIKE SAMPLE: 1404062

Parameter	Units	60172399001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.7	83	90-110	M1

SAMPLE DUPLICATE: 1404063

Parameter	Units	60172400001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-341

Pace Project No.: 60172403

QC Batch:	WETA/30057	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60172403001		

METHOD BLANK: 1403910 Matrix: Water
Associated Lab Samples: 60172403001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	07/02/14 08:56	

LABORATORY CONTROL SAMPLE: 1403911

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	53.6	107	90-110	

MATRIX SPIKE SAMPLE: 1403912

Parameter	Units	60172125004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	ND	50	55.1	105	90-110	

MATRIX SPIKE SAMPLE: 1403914

Parameter	Units	60172262007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	7480	2500	9380	76	90-110	M1

SAMPLE DUPLICATE: 1403913

Parameter	Units	60172238002 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	6200	6160	1	25	

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QUALIFIERS

Project: BRIDGETON LF 316-341

Pace Project No.: 60172403

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.

PQL - Practical Quantitation 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.

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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.

N2 The lab does not hold TNI accreditation for this parameter.

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-341

Pace Project No.: 60172403

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60172403001	316-341	EPA 200.7	MPRP/27857	EPA 200.7	ICP/21066
60172403001	316-341	EPA 200.7	MPRP/27851	EPA 200.7	ICP/21056
60172403001	316-341	EPA 245.1	MERP/8550	EPA 245.1	MERC/8501
60172403001	316-341	EPA 245.1	MERP/8551	EPA 245.1	MERC/8502
60172403001	316-341	EPA 625	OEXT/44868	EPA 625	MSSV/14370
60172403001	316-341	EPA 624 Low	MSV/62654		
60172403002	TRIP BLANK	EPA 624 Low	MSV/62654		
60172403001	316-341	EPA 1664A	WET/48748		
60172403001	316-341	EPA 1664A	WET/48749		
60172403001	316-341	SM 2540D	WET/48714		
60172403001	316-341	SM 4500-H+B	WET/48758		
60172403001	316-341	SM 5210B	WET/48725	SM 5210B	WET/48803
60172403001	316-341	EPA 350.1	WETA/30064		
60172403001	316-341	EPA 410.4	WETA/30057		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60172403



60172403

Client Name: Bar Engineering

Courier: Fed Ex UPS USPS Client Commercial Pace Other Overseas

Tracking #: _____ Pace Shipping Label Used? Yes No

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other Zip

Thermometer Used: T-239 T-194 Type of Ice: Wet Blue None Samples received on ice, cooling process has begun. (circle one)

Cooler Temperature: 7.6

Date and initials of person examining contents: OH 6/26

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1. <u>Not enough Ice</u>
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>pH, ROD</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix: <u>WT</u>		13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Sample <u>0830</u> initial pH 4.5 added 4.5mL HNO ₃ final pH 4.0 Sample <u>0835</u> initial pH 4.5 added 2.0L H ₂ SO ₄ final pH 2.5
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: <u>VOA</u> , <u>coliform</u> , <u>TOC</u> , <u>O&G</u> , <u>WI-DRO</u> (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>OH</u> Lot # of added preservative <u>12513-2-3-2</u> <u>12522-2-7</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank lot # (if purchased): <u>covered</u>		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <u>MO</u>

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 6/26/14

July 07, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-342
Pace Project No.: 60172477

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 27, 2014. 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,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Bill Abernathy, Feezor Engineering
Kelly Caddy, Barr Engineering
DAN FEEZOR, FEEZOR ENGINEERING
Dana B. Pasi, Barr Engineering Co.
Brian Power, Republic Services
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-342

Pace Project No.: 60172477

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-13-4

Utah Certification #: KS000212013-3

Illinois Certification #: 003097

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-342

Pace Project No.: 60172477

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60172477001	316-342	Water	06/26/14 13:30	06/27/14 01:30
60172477002	TRIP BLANK	Water	06/26/14 13:30	06/27/14 01:30

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-342

Pace Project No.: 60172477

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60172477001	316-342	EPA 200.7	NDJ	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	CRT	1
		EPA 1664A	CRT	1
		SM 2540D	ESM	1
		SM 4500-H+B	NDL	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC1	1
		60172477002	TRIP BLANK	EPA 624 Low

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PROJECT NARRATIVE

Project: BRIDGETON LF 316-342

Pace Project No.: 60172477

Date: July 07, 2014

The samples were received outside of required temperature range. Analysis was completed upon client approval.

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-342

Pace Project No.: 60172477

Sample: 316-342 **Lab ID: 60172477001** Collected: 06/26/14 13:30 Received: 06/27/14 01:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
------------	---------	-------	--------------	----	----------	----------	---------	------

200.7 Metals, Total

Analytical Method: EPA 200.7 Preparation Method: EPA 200.7

Aluminum	5900	ug/L	750	2	06/30/14 17:05	07/01/14 16:53	7429-90-5	
Antimony	63.6	ug/L	50.0	1	06/30/14 17:05	07/01/14 16:50	7440-36-0	
Arsenic	1340	ug/L	50.0	1	06/30/14 17:05	07/01/14 16:50	7440-38-2	
Beryllium	ND	ug/L	5.0	1	06/30/14 17:05	07/01/14 16:50	7440-41-7	
Cadmium	ND	ug/L	25.0	1	06/30/14 17:05	07/01/14 16:50	7440-43-9	
Chromium	247	ug/L	25.0	1	06/30/14 17:05	07/01/14 16:50	7440-47-3	
Cobalt	39.1	ug/L	25.0	1	06/30/14 17:05	07/01/14 16:50	7440-48-4	
Copper	ND	ug/L	50.0	1	06/30/14 17:05	07/01/14 16:50	7440-50-8	
Iron	642000	ug/L	250	1	06/30/14 17:05	07/01/14 16:50	7439-89-6	
Lead	67.8	ug/L	25.0	1	06/30/14 17:05	07/01/14 16:50	7439-92-1	
Nickel	132	ug/L	25.0	1	06/30/14 17:05	07/01/14 16:50	7440-02-0	
Selenium	ND	ug/L	75.0	1	06/30/14 17:05	07/01/14 16:50	7782-49-2	
Silver	ND	ug/L	35.0	1	06/30/14 17:05	07/01/14 16:50	7440-22-4	
Thallium	ND	ug/L	100	1	06/30/14 17:05	07/01/14 16:50	7440-28-0	
Zinc	4980	ug/L	500	2	06/30/14 17:05	07/01/14 16:53	7440-66-6	

200.7 Metals, Dissolved (LF)

Analytical Method: EPA 200.7 Preparation Method: EPA 200.7

Aluminum, Dissolved	1340	ug/L	750	2	06/30/14 10:50	07/01/14 14:37	7429-90-5	
Antimony, Dissolved	54.4	ug/L	50.0	1	06/30/14 10:50	07/01/14 14:34	7440-36-0	
Arsenic, Dissolved	1100	ug/L	50.0	1	06/30/14 10:50	07/01/14 14:34	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	06/30/14 10:50	07/01/14 14:34	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	06/30/14 10:50	07/01/14 14:34	7440-43-9	
Chromium, Dissolved	185	ug/L	25.0	1	06/30/14 10:50	07/01/14 14:34	7440-47-3	
Cobalt, Dissolved	28.8	ug/L	25.0	1	06/30/14 10:50	07/01/14 14:34	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	06/30/14 10:50	07/01/14 14:34	7440-50-8	
Iron, Dissolved	308000	ug/L	250	1	06/30/14 10:50	07/01/14 14:34	7439-89-6	
Lead, Dissolved	ND	ug/L	25.0	1	06/30/14 10:50	07/01/14 14:34	7439-92-1	
Nickel, Dissolved	100	ug/L	25.0	1	06/30/14 10:50	07/01/14 14:34	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	06/30/14 10:50	07/01/14 14:34	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	06/30/14 10:50	07/01/14 14:34	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	06/30/14 10:50	07/01/14 14:34	7440-28-0	
Zinc, Dissolved	4040	ug/L	500	2	06/30/14 10:50	07/01/14 14:37	7440-66-6	

245.1 Mercury

Analytical Method: EPA 245.1 Preparation Method: EPA 245.1

Mercury	19.9	ug/L	6.0	1	07/02/14 10:15	07/02/14 13:28	7439-97-6	
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245.1 Mercury, Dissolved (LF)

Analytical Method: EPA 245.1 Preparation Method: EPA 245.1

Mercury, Dissolved	ND	ug/L	6.0	1	07/02/14 10:15	07/02/14 14:15	7439-97-6	
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625 MSSV

Analytical Method: EPA 625 Preparation Method: EPA 625

4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	07/02/14 00:00	07/03/14 13:20	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	07/02/14 00:00	07/03/14 13:20	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	07/02/14 00:00	07/03/14 13:20	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	07/02/14 00:00	07/03/14 13:20	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	2000	2	07/02/14 00:00	07/03/14 13:20	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	6410	ug/L	4000	2	07/02/14 00:00	07/03/14 13:20		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-342

Pace Project No.: 60172477

Sample: 316-342 **Lab ID: 60172477001** Collected: 06/26/14 13:30 Received: 06/27/14 01:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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625 MSSV

Analytical Method: EPA 625 Preparation Method: EPA 625

Naphthalene	ND ug/L		1000	2	07/02/14 00:00	07/03/14 13:20	91-20-3	
Nitrobenzene	ND ug/L		1000	2	07/02/14 00:00	07/03/14 13:20	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	07/02/14 00:00	07/03/14 13:20	87-86-5	
Phenol	9200 ug/L		1000	2	07/02/14 00:00	07/03/14 13:20	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	07/02/14 00:00	07/03/14 13:20	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	07/02/14 00:00	07/03/14 13:20	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	120 %		33-120	2	07/02/14 00:00	07/03/14 13:20	4165-60-0	
2-Fluorobiphenyl (S)	80 %		39-120	2	07/02/14 00:00	07/03/14 13:20	321-60-8	
Terphenyl-d14 (S)	80 %		45-120	2	07/02/14 00:00	07/03/14 13:20	1718-51-0	
Phenol-d6 (S)	32 %		11-120	2	07/02/14 00:00	07/03/14 13:20	13127-88-3	
2-Fluorophenol (S)	43 %		17-120	2	07/02/14 00:00	07/03/14 13:20	367-12-4	
2,4,6-Tribromophenol (S)	89 %		39-120	2	07/02/14 00:00	07/03/14 13:20	118-79-6	

624 Volatile Organics

Analytical Method: EPA 624 Low

Acetone	89100 ug/L		2500	250		06/30/14 05:37	67-64-1	N2
Benzene	ND ug/L		250	250		06/30/14 05:37	71-43-2	
Bromodichloromethane	ND ug/L		250	250		06/30/14 05:37	75-27-4	
Bromoform	ND ug/L		250	250		06/30/14 05:37	75-25-2	
Bromomethane	ND ug/L		1250	250		06/30/14 05:37	74-83-9	
2-Butanone (MEK)	37700 ug/L		2500	250		06/30/14 05:37	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		06/30/14 05:37	56-23-5	
Chloroethane	ND ug/L		250	250		06/30/14 05:37	75-00-3	
Chloroform	ND ug/L		250	250		06/30/14 05:37	67-66-3	
1,4-Dichlorobenzene	ND ug/L		250	250		06/30/14 05:37	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		06/30/14 05:37	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		06/30/14 05:37	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		06/30/14 05:37	156-60-5	
Ethylbenzene	ND ug/L		250	250		06/30/14 05:37	100-41-4	
Methylene chloride	514 ug/L		250	250		06/30/14 05:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		06/30/14 05:37	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		06/30/14 05:37	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		06/30/14 05:37	127-18-4	
Toluene	ND ug/L		250	250		06/30/14 05:37	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		06/30/14 05:37	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		06/30/14 05:37	79-00-5	
Trichloroethene	ND ug/L		250	250		06/30/14 05:37	79-01-6	
Vinyl chloride	ND ug/L		250	250		06/30/14 05:37	75-01-4	
Xylene (Total)	ND ug/L		750	250		06/30/14 05:37	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	102 %		80-120	250		06/30/14 05:37	460-00-4	
Toluene-d8 (S)	99 %		80-120	250		06/30/14 05:37	2037-26-5	
1,2-Dichloroethane-d4 (S)	102 %		80-120	250		06/30/14 05:37	17060-07-0	
Preservation pH	6.0		1.0	250		06/30/14 05:37		

HEM, Oil and Grease

Analytical Method: EPA 1664A

Oil and Grease	555 mg/L		5.0	1		07/01/14 18:30		
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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-342

Pace Project No.: 60172477

Sample: 316-342		Lab ID: 60172477001	Collected: 06/26/14 13:30	Received: 06/27/14 01:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	22.5	mg/L	5.0	1		07/01/14 18:37		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	4100	mg/L	5.0	1		06/27/14 10:08		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.4	Std. Units	0.10	1		07/01/14 14:30		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	27300	mg/L	2.0	1	06/27/14 14:38	07/02/14 16:54		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	600	mg/L	20.0	200		07/01/14 12:09	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	47600	mg/L	5000	500		07/04/14 07:41		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-342

Pace Project No.: 60172477

Sample: TRIP BLANK		Lab ID: 60172477002	Collected: 06/26/14 13:30	Received: 06/27/14 01:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		06/30/14 04:35	67-64-1	N2
Benzene	ND ug/L		1.0	1		06/30/14 04:35	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		06/30/14 04:35	75-27-4	
Bromoform	ND ug/L		1.0	1		06/30/14 04:35	75-25-2	
Bromomethane	ND ug/L		5.0	1		06/30/14 04:35	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/30/14 04:35	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		06/30/14 04:35	56-23-5	
Chloroethane	ND ug/L		1.0	1		06/30/14 04:35	75-00-3	
Chloroform	ND ug/L		1.0	1		06/30/14 04:35	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		06/30/14 04:35	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		06/30/14 04:35	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		06/30/14 04:35	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		06/30/14 04:35	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		06/30/14 04:35	100-41-4	
Methylene chloride	ND ug/L		1.0	1		06/30/14 04:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/30/14 04:35	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		06/30/14 04:35	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		06/30/14 04:35	127-18-4	
Toluene	ND ug/L		1.0	1		06/30/14 04:35	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		06/30/14 04:35	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		06/30/14 04:35	79-00-5	
Trichloroethene	ND ug/L		1.0	1		06/30/14 04:35	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		06/30/14 04:35	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		06/30/14 04:35	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	102 %		80-120	1		06/30/14 04:35	460-00-4	
Toluene-d8 (S)	101 %		80-120	1		06/30/14 04:35	2037-26-5	
1,2-Dichloroethane-d4 (S)	101 %		80-120	1		06/30/14 04:35	17060-07-0	
Preservation pH	6.0		1.0	1		06/30/14 04:35		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-342

Pace Project No.: 60172477

QC Batch:	MERP/8550	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
Associated Lab Samples:	60172477001		

METHOD BLANK: 1404770 Matrix: Water
Associated Lab Samples: 60172477001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	07/02/14 13:15	

LABORATORY CONTROL SAMPLE: 1404771

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.5	111	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1404772 1404773

Parameter	Units	60172403001		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
Mercury	ug/L	17.5	150	150	170	169	102	101	70-130	1	20				

MATRIX SPIKE SAMPLE: 1404774

Parameter	Units	60172697001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	5.2	104	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-342

Pace Project No.: 60172477

QC Batch: MERP/8551

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60172477001

METHOD BLANK: 1404801

Matrix: Water

Associated Lab Samples: 60172477001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	07/02/14 13:57	

LABORATORY CONTROL SAMPLE: 1404802

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.6	111	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1404803 1404804

Parameter	Units	60172276001		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	ND	Spike Conc.	Conc.	Result	Result	% Rec	% Rec						
Mercury, Dissolved	ug/L	ND	150	150	158	156	105	104	70-130	1	20				

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-342

Pace Project No.: 60172477

QC Batch: MPRP/27857

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Total

Associated Lab Samples: 60172477001

METHOD BLANK: 1403681

Matrix: Water

Associated Lab Samples: 60172477001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	07/01/14 16:26	
Antimony	ug/L	ND	10.0	07/01/14 16:26	
Arsenic	ug/L	ND	10.0	07/01/14 16:26	
Beryllium	ug/L	ND	1.0	07/01/14 16:26	
Cadmium	ug/L	ND	5.0	07/01/14 16:26	
Chromium	ug/L	ND	5.0	07/01/14 16:26	
Cobalt	ug/L	ND	5.0	07/01/14 16:26	
Copper	ug/L	ND	10.0	07/01/14 16:26	
Iron	ug/L	ND	50.0	07/01/14 16:26	
Lead	ug/L	ND	5.0	07/01/14 16:26	
Nickel	ug/L	ND	5.0	07/01/14 16:26	
Selenium	ug/L	ND	15.0	07/01/14 16:26	
Silver	ug/L	ND	7.0	07/01/14 16:26	
Thallium	ug/L	ND	20.0	07/01/14 16:26	
Zinc	ug/L	ND	50.0	07/01/14 16:26	

LABORATORY CONTROL SAMPLE: 1403682

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10200	102	85-115	
Antimony	ug/L	1000	1030	103	85-115	
Arsenic	ug/L	1000	995	99	85-115	
Beryllium	ug/L	1000	1020	102	85-115	
Cadmium	ug/L	1000	1010	101	85-115	
Chromium	ug/L	1000	1010	101	85-115	
Cobalt	ug/L	1000	1040	104	85-115	
Copper	ug/L	1000	1020	102	85-115	
Iron	ug/L	10000	10200	102	85-115	
Lead	ug/L	1000	1040	104	85-115	
Nickel	ug/L	1000	1050	105	85-115	
Selenium	ug/L	1000	1010	101	85-115	
Silver	ug/L	500	503	101	85-115	
Thallium	ug/L	1000	1030	103	85-115	
Zinc	ug/L	1000	1020	102	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-342

Pace Project No.: 60172477

Parameter	Units	60172403001		MS		MSD		MS		MSD		% Rec	% Rec	Limits	RPD	RPD	Max	Qual
		Result	Conc.	Spike	Conc.	Result	Conc.	Result	Conc.	Result	Conc.							
Aluminum	ug/L	6280	50000	50000	50000	61100	58900	110	105	70-130	4	8						
Antimony	ug/L	62.4	5000	5000	5000	5520	5320	109	105	70-130	4	7						
Arsenic	ug/L	1250	5000	5000	5000	6930	6680	114	109	70-130	4	10						
Beryllium	ug/L	ND	5000	5000	5000	4820	4720	96	94	70-130	2	7						
Cadmium	ug/L	ND	5000	5000	5000	5420	5220	108	104	70-130	4	10						
Chromium	ug/L	238	5000	5000	5000	4990	4900	95	93	70-130	2	10						
Cobalt	ug/L	34.0	5000	5000	5000	4960	4830	99	96	70-130	3	6						
Copper	ug/L	ND	5000	5000	5000	5540	5380	110	107	70-130	3	11						
Iron	ug/L	668000	50000	50000	50000	742000	702000	147	67	70-130	6	10	M1					
Lead	ug/L	69.9	5000	5000	5000	4770	4660	94	92	70-130	2	10						
Nickel	ug/L	122	5000	5000	5000	5020	4880	98	95	70-130	3	10						
Selenium	ug/L	ND	5000	5000	5000	6170	5910	123	118	70-130	4	10						
Silver	ug/L	ND	2500	2500	2500	2690	2610	107	104	70-130	3	10						
Thallium	ug/L	ND	5000	5000	5000	4300	4220	86	84	70-130	2	6						
Zinc	ug/L	4430	5000	5000	5000	9150	8780	94	87	70-130	4	11						

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-342

Pace Project No.: 60172477

QC Batch:	MPRP/27851	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
Associated Lab Samples:	60172477001		

METHOD BLANK: 1403271 Matrix: Water

Associated Lab Samples: 60172477001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	07/01/14 14:06	
Antimony, Dissolved	ug/L	ND	10.0	07/01/14 14:06	
Arsenic, Dissolved	ug/L	ND	10.0	07/01/14 14:06	
Beryllium, Dissolved	ug/L	ND	1.0	07/01/14 14:06	
Cadmium, Dissolved	ug/L	ND	5.0	07/01/14 14:06	
Chromium, Dissolved	ug/L	ND	5.0	07/01/14 14:06	
Cobalt, Dissolved	ug/L	ND	5.0	07/01/14 14:06	
Copper, Dissolved	ug/L	ND	10.0	07/01/14 14:06	
Iron, Dissolved	ug/L	ND	50.0	07/01/14 14:06	
Lead, Dissolved	ug/L	ND	5.0	07/01/14 14:06	
Nickel, Dissolved	ug/L	ND	5.0	07/01/14 14:06	
Selenium, Dissolved	ug/L	ND	15.0	07/01/14 14:06	
Silver, Dissolved	ug/L	ND	7.0	07/01/14 14:06	
Thallium, Dissolved	ug/L	ND	20.0	07/01/14 14:06	
Zinc, Dissolved	ug/L	ND	50.0	07/01/14 14:06	

LABORATORY CONTROL SAMPLE: 1403272

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10200	102	85-115	
Antimony, Dissolved	ug/L	1000	1020	102	85-115	
Arsenic, Dissolved	ug/L	1000	1010	101	85-115	
Beryllium, Dissolved	ug/L	1000	1040	104	85-115	
Cadmium, Dissolved	ug/L	1000	1020	102	85-115	
Chromium, Dissolved	ug/L	1000	1030	103	85-115	
Cobalt, Dissolved	ug/L	1000	1060	106	85-115	
Copper, Dissolved	ug/L	1000	1020	102	85-115	
Iron, Dissolved	ug/L	10000	10600	106	85-115	
Lead, Dissolved	ug/L	1000	1050	105	85-115	
Nickel, Dissolved	ug/L	1000	1060	106	85-115	
Selenium, Dissolved	ug/L	1000	1010	101	85-115	
Silver, Dissolved	ug/L	500	508	102	85-115	
Thallium, Dissolved	ug/L	1000	1040	104	85-115	
Zinc, Dissolved	ug/L	1000	1050	105	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-342

Pace Project No.: 60172477

Parameter	Units	60172276001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max	RPD	Qual
		Result	Conc.	Spike	Conc.	Result	Result	% Rec	% Rec								
Aluminum, Dissolved	ug/L	1420	50000	50000	52300	52800	102	103	70-130	1	8						
Antimony, Dissolved	ug/L	62.0	5000	5000	5500	5470	109	108	70-130	1	7						
Arsenic, Dissolved	ug/L	1100	5000	5000	6720	6820	113	114	70-130	1	10						
Beryllium, Dissolved	ug/L	ND	5000	5000	4860	4880	97	98	70-130	0	7						
Cadmium, Dissolved	ug/L	ND	5000	5000	5360	5360	107	107	70-130	0	10						
Chromium, Dissolved	ug/L	185	5000	5000	4960	4960	96	96	70-130	0	10						
Cobalt, Dissolved	ug/L	26.8	5000	5000	4990	4970	99	99	70-130	0	6						
Copper, Dissolved	ug/L	ND	5000	5000	5380	5420	107	108	70-130	1	11						
Iron, Dissolved	ug/L	316000	50000	50000	352000	375000	71	118	70-130	6	10						
Lead, Dissolved	ug/L	30.4	5000	5000	4720	4690	94	93	70-130	1	10						
Nickel, Dissolved	ug/L	105	5000	5000	5000	4970	98	97	70-130	1	10						
Selenium, Dissolved	ug/L	ND	5000	5000	6020	6080	120	122	70-130	1	10						
Silver, Dissolved	ug/L	ND	2500	2500	2630	2660	105	106	70-130	1	10						
Thallium, Dissolved	ug/L	ND	5000	5000	4360	4330	87	87	70-130	1	6						
Zinc, Dissolved	ug/L	4140	5000	5000	8900	9150	95	100	70-130	3	11						

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-342

Pace Project No.: 60172477

QC Batch: MSV/62654 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60172477001, 60172477002

METHOD BLANK: 1402437 Matrix: Water

Associated Lab Samples: 60172477001, 60172477002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/30/14 03:17	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/30/14 03:17	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	06/30/14 03:17	
1,2-Dichloroethane	ug/L	ND	1.0	06/30/14 03:17	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/30/14 03:17	
2-Butanone (MEK)	ug/L	ND	10.0	06/30/14 03:17	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/30/14 03:17	N2
Acetone	ug/L	ND	10.0	06/30/14 03:17	N2
Benzene	ug/L	ND	1.0	06/30/14 03:17	
Bromodichloromethane	ug/L	ND	1.0	06/30/14 03:17	
Bromoform	ug/L	ND	1.0	06/30/14 03:17	
Bromomethane	ug/L	ND	5.0	06/30/14 03:17	
Carbon tetrachloride	ug/L	ND	1.0	06/30/14 03:17	
Chloroethane	ug/L	ND	1.0	06/30/14 03:17	
Chloroform	ug/L	ND	1.0	06/30/14 03:17	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/30/14 03:17	N2
Ethylbenzene	ug/L	ND	1.0	06/30/14 03:17	
Methylene chloride	ug/L	ND	1.0	06/30/14 03:17	
Tetrachloroethene	ug/L	ND	1.0	06/30/14 03:17	
Toluene	ug/L	ND	1.0	06/30/14 03:17	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/30/14 03:17	
Trichloroethene	ug/L	ND	1.0	06/30/14 03:17	
Vinyl chloride	ug/L	ND	1.0	06/30/14 03:17	
Xylene (Total)	ug/L	ND	3.0	06/30/14 03:17	N2
1,2-Dichloroethane-d4 (S)	%	105	80-120	06/30/14 03:17	
4-Bromofluorobenzene (S)	%	104	80-120	06/30/14 03:17	
Toluene-d8 (S)	%	103	80-120	06/30/14 03:17	

LABORATORY CONTROL SAMPLE: 1402438

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.6	98	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	21.0	105	67-127	N2
1,1,2-Trichloroethane	ug/L	20	21.2	106	67-124	
1,2-Dichloroethane	ug/L	20	20.3	102	70-126	
1,4-Dichlorobenzene	ug/L	20	20.2	101	74-120	
2-Butanone (MEK)	ug/L	100	101	101	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	112	112	59-131	N2
Acetone	ug/L	100	89.6	90	38-134	N2
Benzene	ug/L	20	19.5	98	75-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-342

Pace Project No.: 60172477

LABORATORY CONTROL SAMPLE: 1402438

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	20	20.9	105	68-125	
Bromoform	ug/L	20	19.9	100	65-127	
Bromomethane	ug/L	20	13.2	66	13-157	
Carbon tetrachloride	ug/L	20	19.0	95	70-131	
Chloroethane	ug/L	20	18.2	91	47-133	
Chloroform	ug/L	20	19.8	99	65-127	
cis-1,2-Dichloroethene	ug/L	20	20.0	100	68-127	N2
Ethylbenzene	ug/L	20	19.8	99	74-122	
Methylene chloride	ug/L	20	18.0	90	64-129	
Tetrachloroethene	ug/L	20	19.0	95	73-125	
Toluene	ug/L	20	18.3	92	69-126	
trans-1,2-Dichloroethene	ug/L	20	18.8	94	66-129	
Trichloroethene	ug/L	20	19.9	99	71-123	
Vinyl chloride	ug/L	20	18.6	93	43-129	
Xylene (Total)	ug/L	60	59.9	100	75-121	N2
1,2-Dichloroethane-d4 (S)	%			102	80-120	
4-Bromofluorobenzene (S)	%			104	80-120	
Toluene-d8 (S)	%			97	80-120	

MATRIX SPIKE SAMPLE: 1402439

Parameter	Units	60172276001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L		ND	5000	4840	97	52-155
1,1,2,2-Tetrachloroethane	ug/L		ND	5000	5430	109	46-146 N2
1,1,2-Trichloroethane	ug/L		ND	5000	4930	99	52-143
1,2-Dichloroethane	ug/L		ND	5000	4560	91	49-144
1,4-Dichlorobenzene	ug/L		ND	5000	4920	96	33-140
2-Butanone (MEK)	ug/L	41200	25000	59900	75	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L		ND	25000	27300	107	40-160 N2
Acetone	ug/L	94600	25000	106000	46	10-160	N2
Benzene	ug/L		ND	5000	4490	90	37-151
Bromodichloromethane	ug/L		ND	5000	4880	98	35-142
Bromoform	ug/L		ND	5000	4630	93	45-142
Bromomethane	ug/L		ND	5000	3480	70	10-158
Carbon tetrachloride	ug/L		ND	5000	4890	98	70-140
Chloroethane	ug/L		ND	5000	4590	92	19-152
Chloroform	ug/L		ND	5000	4560	91	51-138
cis-1,2-Dichloroethene	ug/L		ND	5000	4600	92	34-147 N2
Ethylbenzene	ug/L		ND	5000	4790	96	40-142
Methylene chloride	ug/L	434	5000	4350	78	31-144	
Tetrachloroethene	ug/L		ND	5000	4770	95	64-148
Toluene	ug/L		ND	5000	4230	85	47-150
trans-1,2-Dichloroethene	ug/L		ND	5000	4580	92	54-151
Trichloroethene	ug/L		ND	5000	4730	95	71-149
Vinyl chloride	ug/L		ND	5000	4710	94	22-146

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-342

Pace Project No.: 60172477

MATRIX SPIKE SAMPLE:		1402439		60172276001		Spike		MS		MS		% Rec		Qualifiers	
Parameter	Units	Result	Conc.	Result	Conc.	% Rec	Conc.	Result	% Rec	Limits	Conc.	Result	% Rec	Limits	Qualifiers
Xylene (Total)	ug/L	ND	15000			92		13900		37-144					N2
1,2-Dichloroethane-d4 (S)	%					99				80-120					
4-Bromofluorobenzene (S)	%					103				80-120					
Toluene-d8 (S)	%					99				80-120					
Preservation pH		6.0						6.0							

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-342

Pace Project No.: 60172477

QC Batch: OEXT/44932 Analysis Method: EPA 625
 QC Batch Method: EPA 625 Analysis Description: 625 MSS
 Associated Lab Samples: 60172477001

METHOD BLANK: 1404630 Matrix: Water

Associated Lab Samples: 60172477001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	07/03/14 12:18	
2,4,6-Trichlorophenol	ug/L	ND	5.0	07/03/14 12:18	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	07/03/14 12:18	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	07/03/14 12:18	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	07/03/14 12:18	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	07/03/14 12:18	
Hexachlorocyclopentadiene	ug/L	ND	5.0	07/03/14 12:18	
Hexachloroethane	ug/L	ND	5.0	07/03/14 12:18	
Naphthalene	ug/L	ND	5.0	07/03/14 12:18	
Nitrobenzene	ug/L	ND	5.0	07/03/14 12:18	
Pentachlorophenol	ug/L	ND	5.0	07/03/14 12:18	
Phenol	ug/L	ND	5.0	07/03/14 12:18	
2,4,6-Tribromophenol (S)	%	78	39-120	07/03/14 12:18	
2-Fluorobiphenyl (S)	%	82	39-120	07/03/14 12:18	
2-Fluorophenol (S)	%	43	17-120	07/03/14 12:18	
Nitrobenzene-d5 (S)	%	83	33-120	07/03/14 12:18	
Phenol-d6 (S)	%	28	11-120	07/03/14 12:18	
Terphenyl-d14 (S)	%	88	45-120	07/03/14 12:18	

LABORATORY CONTROL SAMPLE: 1404631

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	37.8	76	46-120	
2,4,6-Trichlorophenol	ug/L	50	41.3	83	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	30.8	62	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	27.0	54	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	39.3	79	40-133	
Hexachloro-1,3-butadiene	ug/L	50	36.5	73	44-116	
Hexachlorocyclopentadiene	ug/L	100	65.9	66	24-120	
Hexachloroethane	ug/L	50	34.2	68	43-113	
Naphthalene	ug/L	50	37.6	75	48-120	
Nitrobenzene	ug/L	50	39.8	80	48-120	
Pentachlorophenol	ug/L	50	44.1	88	47-120	
Phenol	ug/L	50	13.9	28	16-112	
2,4,6-Tribromophenol (S)	%			89	39-120	
2-Fluorobiphenyl (S)	%			84	39-120	
2-Fluorophenol (S)	%			40	17-120	
Nitrobenzene-d5 (S)	%			79	33-120	
Phenol-d6 (S)	%			27	11-120	
Terphenyl-d14 (S)	%			92	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-342

Pace Project No.: 60172477

MATRIX SPIKE SAMPLE:	1404632	60172477001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3310	66	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4090	82	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	5000	3760	75	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	6410	5000	9480	61	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	3240J	65	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3110	62	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	5440	54	11-120	
Hexachloroethane	ug/L	ND	5000	3000	60	40-113	
Naphthalene	ug/L	ND	5000	3940	67	45-120	
Nitrobenzene	ug/L	ND	5000	3850	77	38-120	
Pentachlorophenol	ug/L	ND	5000	4440	89	43-135	
Phenol	ug/L	9200	5000	11100	38	13-112	
2,4,6-Tribromophenol (S)	%				85	39-120	
2-Fluorobiphenyl (S)	%				76	39-120	
2-Fluorophenol (S)	%				40	17-120	
Nitrobenzene-d5 (S)	%				121	33-120	SO
Phenol-d6 (S)	%				31	11-120	
Terphenyl-d14 (S)	%				81	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-342

Pace Project No.: 60172477

QC Batch: WET/48807

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 HEM, Oil and Grease

Associated Lab Samples: 60172477001

METHOD BLANK: 1404475

Matrix: Water

Associated Lab Samples: 60172477001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	07/01/14 18:28	

LABORATORY CONTROL SAMPLE: 1404476

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	33.0	82	78-114	

MATRIX SPIKE SAMPLE: 1404477

Parameter	Units	60172173003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	44.4	42.0	93	78-114	

SAMPLE DUPLICATE: 1404478

Parameter	Units	60172173004 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	1.6J		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-342

Pace Project No.: 60172477

QC Batch:	WET/48806	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60172477001		

METHOD BLANK: 1404463 Matrix: Water
Associated Lab Samples: 60172477001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	07/01/14 18:36	

LABORATORY CONTROL SAMPLE: 1404464

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	23.8	119	64-132	

MATRIX SPIKE SAMPLE: 1404465

Parameter	Units	60172173003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	22.2	17.9	76	64-132	

SAMPLE DUPLICATE: 1404466

Parameter	Units	60172173004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	1.6J		34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-342

Pace Project No.: 60172477

QC Batch:	WET/48729	Analysis Method:	SM 2540D
QC Batch Method:	SM 2540D	Analysis Description:	2540D Total Suspended Solids
Associated Lab Samples:	60172477001		

METHOD BLANK: 1402071 Matrix: Water

Associated Lab Samples: 60172477001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	06/27/14 10:05	

SAMPLE DUPLICATE: 1402072

Parameter	Units	60172404001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	15.0	10	40	10	D6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-342

Pace Project No.: 60172477

QC Batch: WET/48760 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60172477001

SAMPLE DUPLICATE: 1403571

Parameter	Units	60172448001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.3	8.3	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-342

Pace Project No.: 60172477

QC Batch: WET/48735

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60172477001

METHOD BLANK: 1402315

Matrix: Water

Associated Lab Samples: 60172477001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	07/02/14 16:06	

LABORATORY CONTROL SAMPLE: 1402316

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	200	101	85-115	

SAMPLE DUPLICATE: 1402317

Parameter	Units	60172503001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	1170	1170	0	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-342

Pace Project No.: 60172477

QC Batch: WETA/30064

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 60172477001

METHOD BLANK: 1404059

Matrix: Water

Associated Lab Samples: 60172477001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	07/01/14 11:45	

LABORATORY CONTROL SAMPLE: 1404060

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	105	90-110	

MATRIX SPIKE SAMPLE: 1404061

Parameter	Units	60172395001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	3.8	4	7.1	83	90-110	M1

MATRIX SPIKE SAMPLE: 1404062

Parameter	Units	60172399001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.7	83	90-110	M1

SAMPLE DUPLICATE: 1404063

Parameter	Units	60172400001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

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: BRIDGETON LF 316-342
Pace Project No.: 60172477

QC Batch: WETA/30098 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 60172477001

METHOD BLANK: 1404868 Matrix: Water
Associated Lab Samples: 60172477001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	07/04/14 07:33	

LABORATORY CONTROL SAMPLE: 1404869

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	50.3	101	90-110	

MATRIX SPIKE SAMPLE: 1404870

Parameter	Units	60171947001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	648	250	825	71	90-110	M1

MATRIX SPIKE SAMPLE: 1404872

Parameter	Units	60172477001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	47600	25000	70900	93	90-110	

SAMPLE DUPLICATE: 1404871

Parameter	Units	60172183001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	10800	11400	6	25	

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QUALIFIERS

Project: BRIDGETON LF 316-342

Pace Project No.: 60172477

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.

PQL - Practical Quantitation 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.

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D6 The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

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.

N2 The lab does not hold TNI accreditation for this parameter.

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-342

Pace Project No.: 60172477

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60172477001	316-342	EPA 200.7	MPRP/27857	EPA 200.7	ICP/21066
60172477001	316-342	EPA 200.7	MPRP/27851	EPA 200.7	ICP/21056
60172477001	316-342	EPA 245.1	MERP/8550	EPA 245.1	MERC/8501
60172477001	316-342	EPA 245.1	MERP/8551	EPA 245.1	MERC/8502
60172477001	316-342	EPA 625	OEXT/44932	EPA 625	MSSV/14397
60172477001	316-342	EPA 624 Low	MSV/62654		
60172477002	TRIP BLANK	EPA 624 Low	MSV/62654		
60172477001	316-342	EPA 1664A	WET/48807		
60172477001	316-342	EPA 1664A	WET/48806		
60172477001	316-342	SM 2540D	WET/48729		
60172477001	316-342	SM 4500-H+B	WET/48760		
60172477001	316-342	SM 5210B	WET/48735	SM 5210B	WET/48836
60172477001	316-342	EPA 350.1	WETA/30064		
60172477001	316-342	EPA 410.4	WETA/30098		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60172477



Client Name: Barr En9

Courier: Fed Ex [] UPS [] USPS [] Client [] Commercial [] Pace [] Other [x] road

Tracking #: Pace Shipping Label Used? Yes [] No [x]

Custody Seal on Cooler/Box Present: Yes [x] No [] Seals intact: Yes [x] No []

Packing Material: Bubble Wrap [] Bubble Bags [x] Foam [x] None [] Other [x] 2 PIC

Thermometer Used: T-239 / T-194 Type of Ice: [x] Wet Blue None [] Samples received on ice, cooling process has begun.

Cooler Temperature: 8.6

Date and initials of person examining contents: PV 6/27/14

Temperature should be above freezing to 6°C

Table with 17 rows of inspection items and checkboxes. Includes handwritten notes like 'Sample was not in temp range...' and 'Added 2.5 ml of HNO3 to BPSN...'.

Client Notification/ Resolution: Copy COC to Client? Y [] N [x] Field Data Required? Y [] N [x]

Person Contacted: Date/Time:

Comments/ Resolution: FOOTNOTE TEMP BASED ON HISTORICAL INSTRUCTIONS

Project Manager Review: Date: 6/27/14

July 07, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-343
Pace Project No.: 60172589

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 28, 2014. 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,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Bill Abernathy, Feezor Engineering
Kelly Caddy, Barr Engineering
DAN FEEZOR, FEEZOR ENGINEERING
Dana B. Pasi, Barr Engineering Co.
Brian Power, Republic Services
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-343

Pace Project No.: 60172589

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-13-4

Utah Certification #: KS000212013-3

Illinois Certification #: 003097

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-343

Pace Project No.: 60172589

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60172589001	316-343	Water	06/27/14 13:30	06/28/14 01:20
60172589002	TRIP BLANK	Water	06/27/14 13:30	06/28/14 01:20

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-343

Pace Project No.: 60172589

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60172589001	316-343	EPA 200.7	NDJ	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	CRT	1
		EPA 1664A	CRT	1
		SM 2540D	ESM	1
		SM 4500-H+B	NDL	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC1	1
		60172589002	TRIP BLANK	EPA 624 Low

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-343

Pace Project No.: 60172589

Sample: 316-343		Lab ID: 60172589001	Collected: 06/27/14 13:30	Received: 06/28/14 01:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	2020 ug/L		750	2	07/01/14 18:00	07/02/14 12:51	7429-90-5	
Antimony	ND ug/L		50.0	1	07/01/14 18:00	07/02/14 12:49	7440-36-0	
Arsenic	1080 ug/L		50.0	1	07/01/14 18:00	07/02/14 12:49	7440-38-2	
Beryllium	ND ug/L		5.0	1	07/01/14 18:00	07/02/14 12:49	7440-41-7	
Cadmium	ND ug/L		25.0	1	07/01/14 18:00	07/02/14 12:49	7440-43-9	
Chromium	187 ug/L		25.0	1	07/01/14 18:00	07/02/14 12:49	7440-47-3	
Cobalt	30.6 ug/L		25.0	1	07/01/14 18:00	07/02/14 12:49	7440-48-4	
Copper	ND ug/L		50.0	1	07/01/14 18:00	07/02/14 12:49	7440-50-8	
Iron	317000 ug/L		250	1	07/01/14 18:00	07/02/14 12:49	7439-89-6	
Lead	25.9 ug/L		25.0	1	07/01/14 18:00	07/02/14 12:49	7439-92-1	
Nickel	107 ug/L		25.0	1	07/01/14 18:00	07/02/14 12:49	7440-02-0	
Selenium	ND ug/L		75.0	1	07/01/14 18:00	07/02/14 12:49	7782-49-2	
Silver	ND ug/L		35.0	1	07/01/14 18:00	07/02/14 12:49	7440-22-4	
Thallium	ND ug/L		100	1	07/01/14 18:00	07/02/14 12:49	7440-28-0	
Zinc	4580 ug/L		500	2	07/01/14 18:00	07/02/14 12:51	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	1520 ug/L		750	2	07/02/14 17:00	07/03/14 16:01	7429-90-5	
Antimony, Dissolved	53.3 ug/L		50.0	1	07/02/14 17:00	07/03/14 15:55	7440-36-0	D9
Arsenic, Dissolved	1060 ug/L		50.0	1	07/02/14 17:00	07/03/14 15:55	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	07/02/14 17:00	07/03/14 15:55	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	07/02/14 17:00	07/03/14 15:55	7440-43-9	
Chromium, Dissolved	183 ug/L		25.0	1	07/02/14 17:00	07/03/14 15:55	7440-47-3	
Cobalt, Dissolved	30.9 ug/L		25.0	1	07/02/14 17:00	07/03/14 15:55	7440-48-4	D9
Copper, Dissolved	ND ug/L		50.0	1	07/02/14 17:00	07/03/14 15:55	7440-50-8	
Iron, Dissolved	302000 ug/L		250	1	07/02/14 17:00	07/03/14 15:55	7439-89-6	
Lead, Dissolved	ND ug/L		25.0	1	07/02/14 17:00	07/03/14 15:55	7439-92-1	
Nickel, Dissolved	105 ug/L		25.0	1	07/02/14 17:00	07/03/14 15:55	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	07/02/14 17:00	07/03/14 15:55	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	07/02/14 17:00	07/03/14 15:55	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	07/02/14 17:00	07/03/14 15:55	7440-28-0	
Zinc, Dissolved	4340 ug/L		500	2	07/02/14 17:00	07/03/14 16:01	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	21.9 ug/L		6.0	1	07/02/14 10:15	07/02/14 13:35	7439-97-6	
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND ug/L		6.0	1	07/02/14 10:15	07/02/14 14:17	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	07/02/14 00:00	07/03/14 13:40	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	07/02/14 00:00	07/03/14 13:40	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	07/02/14 00:00	07/03/14 13:40	77-47-4	
Hexachloroethane	ND ug/L		1000	2	07/02/14 00:00	07/03/14 13:40	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	2	07/02/14 00:00	07/03/14 13:40	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	8410 ug/L		4000	2	07/02/14 00:00	07/03/14 13:40		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-343

Pace Project No.: 60172589

Sample: 316-343		Lab ID: 60172589001	Collected: 06/27/14 13:30	Received: 06/28/14 01:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	ND ug/L		1000	2	07/02/14 00:00	07/03/14 13:40	91-20-3	
Nitrobenzene	ND ug/L		1000	2	07/02/14 00:00	07/03/14 13:40	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	07/02/14 00:00	07/03/14 13:40	87-86-5	
Phenol	12300 ug/L		1000	2	07/02/14 00:00	07/03/14 13:40	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	07/02/14 00:00	07/03/14 13:40	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	07/02/14 00:00	07/03/14 13:40	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	136 %		33-120	2	07/02/14 00:00	07/03/14 13:40	4165-60-0	S0
2-Fluorobiphenyl (S)	84 %		39-120	2	07/02/14 00:00	07/03/14 13:40	321-60-8	
Terphenyl-d14 (S)	87 %		45-120	2	07/02/14 00:00	07/03/14 13:40	1718-51-0	
Phenol-d6 (S)	34 %		11-120	2	07/02/14 00:00	07/03/14 13:40	13127-88-3	
2-Fluorophenol (S)	46 %		17-120	2	07/02/14 00:00	07/03/14 13:40	367-12-4	
2,4,6-Tribromophenol (S)	94 %		39-120	2	07/02/14 00:00	07/03/14 13:40	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	85800 ug/L		2500	250		07/02/14 07:06	67-64-1	N2
Benzene	ND ug/L		250	250		07/02/14 07:06	71-43-2	
Bromodichloromethane	ND ug/L		250	250		07/02/14 07:06	75-27-4	
Bromoform	ND ug/L		250	250		07/02/14 07:06	75-25-2	
Bromomethane	ND ug/L		1250	250		07/02/14 07:06	74-83-9	
2-Butanone (MEK)	36200 ug/L		2500	250		07/02/14 07:06	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		07/02/14 07:06	56-23-5	
Chloroethane	ND ug/L		250	250		07/02/14 07:06	75-00-3	
Chloroform	ND ug/L		250	250		07/02/14 07:06	67-66-3	
1,4-Dichlorobenzene	ND ug/L		250	250		07/02/14 07:06	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		07/02/14 07:06	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		07/02/14 07:06	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		07/02/14 07:06	156-60-5	
Ethylbenzene	ND ug/L		250	250		07/02/14 07:06	100-41-4	
Methylene chloride	ND ug/L		250	250		07/02/14 07:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		07/02/14 07:06	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		07/02/14 07:06	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		07/02/14 07:06	127-18-4	
Toluene	ND ug/L		250	250		07/02/14 07:06	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		07/02/14 07:06	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		07/02/14 07:06	79-00-5	
Trichloroethene	ND ug/L		250	250		07/02/14 07:06	79-01-6	
Vinyl chloride	ND ug/L		250	250		07/02/14 07:06	75-01-4	
Xylene (Total)	ND ug/L		750	250		07/02/14 07:06	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	97 %		80-120	250		07/02/14 07:06	460-00-4	HS
Toluene-d8 (S)	97 %		80-120	250		07/02/14 07:06	2037-26-5	
1,2-Dichloroethane-d4 (S)	101 %		80-120	250		07/02/14 07:06	17060-07-0	
Preservation pH	6.0		1.0	250		07/02/14 07:06		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	690 mg/L		5.0	1		07/01/14 18:31		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-343

Pace Project No.: 60172589

Sample: 316-343		Lab ID: 60172589001	Collected: 06/27/14 13:30	Received: 06/28/14 01:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	16.5	mg/L	5.0	1		07/01/14 18:37		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	4200	mg/L	5.0	1		06/30/14 11:54		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.4	Std. Units	0.10	1		07/05/14 11:15		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	26900	mg/L	2.0	1	06/28/14 11:26	07/03/14 16:19		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	634	mg/L	20.0	200		07/01/14 12:12	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	48900	mg/L	5000	500		07/04/14 07:42		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-343

Pace Project No.: 60172589

Sample: TRIP BLANK		Lab ID: 60172589002	Collected: 06/27/14 13:30	Received: 06/28/14 01:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		07/02/14 05:48	67-64-1	N2
Benzene	ND ug/L		1.0	1		07/02/14 05:48	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		07/02/14 05:48	75-27-4	
Bromoform	ND ug/L		1.0	1		07/02/14 05:48	75-25-2	
Bromomethane	ND ug/L		5.0	1		07/02/14 05:48	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		07/02/14 05:48	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		07/02/14 05:48	56-23-5	
Chloroethane	ND ug/L		1.0	1		07/02/14 05:48	75-00-3	
Chloroform	ND ug/L		1.0	1		07/02/14 05:48	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		07/02/14 05:48	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		07/02/14 05:48	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		07/02/14 05:48	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		07/02/14 05:48	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		07/02/14 05:48	100-41-4	
Methylene chloride	ND ug/L		1.0	1		07/02/14 05:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		07/02/14 05:48	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		07/02/14 05:48	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		07/02/14 05:48	127-18-4	
Toluene	ND ug/L		1.0	1		07/02/14 05:48	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		07/02/14 05:48	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		07/02/14 05:48	79-00-5	
Trichloroethene	ND ug/L		1.0	1		07/02/14 05:48	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		07/02/14 05:48	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		07/02/14 05:48	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100 %		80-120	1		07/02/14 05:48	460-00-4	
Toluene-d8 (S)	97 %		80-120	1		07/02/14 05:48	2037-26-5	
1,2-Dichloroethane-d4 (S)	101 %		80-120	1		07/02/14 05:48	17060-07-0	
Preservation pH	6.0		1.0	1		07/02/14 05:48		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-343

Pace Project No.: 60172589

QC Batch:	MERP/8550	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
Associated Lab Samples:	60172589001		

METHOD BLANK: 1404770 Matrix: Water
Associated Lab Samples: 60172589001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	07/02/14 13:15	

LABORATORY CONTROL SAMPLE: 1404771

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.5	111	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1404772 1404773

Parameter	Units	60172403001		MS		MSD		MS		MSD		% Rec		Max		Qual
		Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD				
Mercury	ug/L		17.5	150	150	170	169	102	101	70-130	1	20				

MATRIX SPIKE SAMPLE: 1404774

Parameter	Units	60172697001	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L		ND	5	5.2	104	70-130

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-343

Pace Project No.: 60172589

QC Batch: MERP/8551

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60172589001

METHOD BLANK: 1404801

Matrix: Water

Associated Lab Samples: 60172589001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	07/02/14 13:57	

LABORATORY CONTROL SAMPLE: 1404802

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.6	111	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1404803 1404804

Parameter	Units	60172276001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Mercury, Dissolved	ug/L	ND	150	150	158	156	105	104	70-130	1	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-343

Pace Project No.: 60172589

QC Batch:	MPRP/27877	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
Associated Lab Samples:	60172589001		

METHOD BLANK: 1404364 Matrix: Water

Associated Lab Samples: 60172589001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	07/02/14 12:39	
Antimony	ug/L	ND	10.0	07/02/14 12:39	
Arsenic	ug/L	ND	10.0	07/02/14 12:39	
Beryllium	ug/L	ND	1.0	07/02/14 12:39	
Cadmium	ug/L	ND	5.0	07/02/14 12:39	
Chromium	ug/L	ND	5.0	07/02/14 12:39	
Cobalt	ug/L	ND	5.0	07/02/14 12:39	
Copper	ug/L	ND	10.0	07/02/14 12:39	
Iron	ug/L	ND	50.0	07/02/14 12:39	
Lead	ug/L	ND	5.0	07/02/14 12:39	
Nickel	ug/L	ND	5.0	07/02/14 12:39	
Selenium	ug/L	ND	15.0	07/02/14 12:39	
Silver	ug/L	ND	7.0	07/02/14 12:39	
Thallium	ug/L	ND	20.0	07/02/14 12:39	
Zinc	ug/L	ND	50.0	07/02/14 12:39	

LABORATORY CONTROL SAMPLE: 1404365

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9720	97	85-115	
Antimony	ug/L	1000	1010	101	85-115	
Arsenic	ug/L	1000	993	99	85-115	
Beryllium	ug/L	1000	980	98	85-115	
Cadmium	ug/L	1000	999	100	85-115	
Chromium	ug/L	1000	982	98	85-115	
Cobalt	ug/L	1000	1030	103	85-115	
Copper	ug/L	1000	993	99	85-115	
Iron	ug/L	10000	10100	101	85-115	
Lead	ug/L	1000	1000	100	85-115	
Nickel	ug/L	1000	1020	102	85-115	
Selenium	ug/L	1000	986	99	85-115	
Silver	ug/L	500	485	97	85-115	
Thallium	ug/L	1000	1020	102	85-115	
Zinc	ug/L	1000	1000	100	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-343

Pace Project No.: 60172589

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1404366												1404367											
Parameter	Units	60172589001		MS	MSD	MS		MSD		% Rec		Max											
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual											
Aluminum	ug/L	2020	50000	50000	51200	53300	98	103	70-130	4	8												
Antimony	ug/L	ND	5000	5000	5380	5510	107	109	70-130	2	7												
Arsenic	ug/L	1080	5000	5000	6690	6900	112	116	70-130	3	10												
Beryllium	ug/L	ND	5000	5000	4710	4730	94	95	70-130	0	7												
Cadmium	ug/L	ND	5000	5000	5260	5380	105	108	70-130	2	10												
Chromium	ug/L	187	5000	5000	4840	4930	93	95	70-130	2	10												
Cobalt	ug/L	30.6	5000	5000	4910	5000	98	99	70-130	2	6												
Copper	ug/L	ND	5000	5000	5400	5520	108	110	70-130	2	11												
Iron	ug/L	317000	50000	50000	365000	375000	96	117	70-130	3	10												
Lead	ug/L	25.9	5000	5000	4570	4670	91	93	70-130	2	10												
Nickel	ug/L	107	5000	5000	4850	4940	95	97	70-130	2	10												
Selenium	ug/L	ND	5000	5000	5900	6080	118	122	70-130	3	10												
Silver	ug/L	ND	2500	2500	2620	2670	105	107	70-130	2	10												
Thallium	ug/L	ND	5000	5000	4300	4380	86	88	70-130	2	6												
Zinc	ug/L	4580	5000	5000	9280	9690	94	102	70-130	4	11												

MATRIX SPIKE SAMPLE: 1404368											
Parameter	Units	60172688001		Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers			
		Result	Spike Conc.								
Aluminum	ug/L		3000	50000	54100	102	70-130				
Antimony	ug/L		55.0	5000	5510	109	70-130				
Arsenic	ug/L		1180	5000	6930	115	70-130				
Beryllium	ug/L		ND	5000	4730	95	70-130				
Cadmium	ug/L		ND	5000	5380	107	70-130				
Chromium	ug/L		206	5000	4940	95	70-130				
Cobalt	ug/L		36.2	5000	5000	99	70-130				
Copper	ug/L		ND	5000	5440	108	70-130				
Iron	ug/L		419000	50000	465000	93	70-130				
Lead	ug/L		36.8	5000	4650	92	70-130				
Nickel	ug/L		114	5000	4940	96	70-130				
Selenium	ug/L		ND	5000	6020	120	70-130				
Silver	ug/L		ND	2500	2630	105	70-130				
Thallium	ug/L		ND	5000	4380	88	70-130				
Zinc	ug/L		5440	5000	10300	96	70-130				

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-343

Pace Project No.: 60172589

QC Batch: MPRP/27889

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Dissolved

Associated Lab Samples: 60172589001

METHOD BLANK: 1405013

Matrix: Water

Associated Lab Samples: 60172589001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	07/03/14 15:52	
Antimony, Dissolved	ug/L	ND	10.0	07/03/14 15:52	
Arsenic, Dissolved	ug/L	ND	10.0	07/03/14 15:52	
Beryllium, Dissolved	ug/L	ND	1.0	07/03/14 15:52	
Cadmium, Dissolved	ug/L	ND	5.0	07/03/14 15:52	
Chromium, Dissolved	ug/L	ND	5.0	07/03/14 15:52	
Cobalt, Dissolved	ug/L	ND	5.0	07/03/14 15:52	
Copper, Dissolved	ug/L	ND	10.0	07/03/14 15:52	
Iron, Dissolved	ug/L	ND	50.0	07/03/14 15:52	
Lead, Dissolved	ug/L	ND	5.0	07/03/14 15:52	
Nickel, Dissolved	ug/L	ND	5.0	07/03/14 15:52	
Selenium, Dissolved	ug/L	ND	15.0	07/03/14 15:52	
Silver, Dissolved	ug/L	ND	7.0	07/03/14 15:52	
Thallium, Dissolved	ug/L	ND	20.0	07/03/14 15:52	
Zinc, Dissolved	ug/L	ND	50.0	07/03/14 15:52	

LABORATORY CONTROL SAMPLE: 1405014

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10300	103	85-115	
Antimony, Dissolved	ug/L	1000	1030	103	85-115	
Arsenic, Dissolved	ug/L	1000	993	99	85-115	
Beryllium, Dissolved	ug/L	1000	1040	104	85-115	
Cadmium, Dissolved	ug/L	1000	1010	101	85-115	
Chromium, Dissolved	ug/L	1000	993	99	85-115	
Cobalt, Dissolved	ug/L	1000	1030	103	85-115	
Copper, Dissolved	ug/L	1000	1010	101	85-115	
Iron, Dissolved	ug/L	10000	10200	102	85-115	
Lead, Dissolved	ug/L	1000	1030	103	85-115	
Nickel, Dissolved	ug/L	1000	1040	104	85-115	
Selenium, Dissolved	ug/L	1000	1010	101	85-115	
Silver, Dissolved	ug/L	500	493	99	85-115	
Thallium, Dissolved	ug/L	1000	1030	103	85-115	
Zinc, Dissolved	ug/L	1000	998	100	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-343

Pace Project No.: 60172589

Parameter	Units	60172589001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec							
Aluminum, Dissolved	ug/L	1520	50000	50000	53400	53500	104	104	70-130	0	8					
Antimony, Dissolved	ug/L	53.3	5000	5000	5580	5660	110	112	70-130	2	7					
Arsenic, Dissolved	ug/L	1060	5000	5000	6780	6740	114	114	70-130	1	10					
Beryllium, Dissolved	ug/L	ND	5000	5000	4870	4980	97	100	70-130	2	7					
Cadmium, Dissolved	ug/L	ND	5000	5000	5360	5470	107	109	70-130	2	10					
Chromium, Dissolved	ug/L	183	5000	5000	4900	4980	94	96	70-130	2	10					
Cobalt, Dissolved	ug/L	30.9	5000	5000	4980	5080	99	101	70-130	2	6					
Copper, Dissolved	ug/L	ND	5000	5000	5440	5520	109	110	70-130	1	11					
Iron, Dissolved	ug/L	302000	50000	50000	362000	350000	119	96	70-130	3	10					
Lead, Dissolved	ug/L	ND	5000	5000	4690	4790	93	95	70-130	2	10					
Nickel, Dissolved	ug/L	105	5000	5000	4990	5080	98	100	70-130	2	10					
Selenium, Dissolved	ug/L	ND	5000	5000	6120	6140	122	123	70-130	0	10					
Silver, Dissolved	ug/L	ND	2500	2500	2630	2670	105	106	70-130	2	10					
Thallium, Dissolved	ug/L	ND	5000	5000	4390	4520	88	90	70-130	3	6					
Zinc, Dissolved	ug/L	4340	5000	5000	9200	9000	97	93	70-130	2	11					

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-343

Pace Project No.: 60172589

QC Batch: MSV/62746 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60172589001, 60172589002

METHOD BLANK: 1404394 Matrix: Water

Associated Lab Samples: 60172589001, 60172589002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	07/02/14 05:01	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	07/02/14 05:01	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	07/02/14 05:01	
1,2-Dichloroethane	ug/L	ND	1.0	07/02/14 05:01	
1,4-Dichlorobenzene	ug/L	ND	1.0	07/02/14 05:01	
2-Butanone (MEK)	ug/L	ND	10.0	07/02/14 05:01	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	07/02/14 05:01	N2
Acetone	ug/L	ND	10.0	07/02/14 05:01	N2
Benzene	ug/L	ND	1.0	07/02/14 05:01	
Bromodichloromethane	ug/L	ND	1.0	07/02/14 05:01	
Bromoform	ug/L	ND	1.0	07/02/14 05:01	
Bromomethane	ug/L	ND	5.0	07/02/14 05:01	
Carbon tetrachloride	ug/L	ND	1.0	07/02/14 05:01	
Chloroethane	ug/L	ND	1.0	07/02/14 05:01	
Chloroform	ug/L	ND	1.0	07/02/14 05:01	
cis-1,2-Dichloroethene	ug/L	ND	1.0	07/02/14 05:01	N2
Ethylbenzene	ug/L	ND	1.0	07/02/14 05:01	
Methylene chloride	ug/L	ND	1.0	07/02/14 05:01	
Tetrachloroethene	ug/L	ND	1.0	07/02/14 05:01	
Toluene	ug/L	ND	1.0	07/02/14 05:01	
trans-1,2-Dichloroethene	ug/L	ND	1.0	07/02/14 05:01	
Trichloroethene	ug/L	ND	1.0	07/02/14 05:01	
Vinyl chloride	ug/L	ND	1.0	07/02/14 05:01	
Xylene (Total)	ug/L	ND	3.0	07/02/14 05:01	N2
1,2-Dichloroethane-d4 (S)	%	106	80-120	07/02/14 05:01	
4-Bromofluorobenzene (S)	%	100	80-120	07/02/14 05:01	
Toluene-d8 (S)	%	100	80-120	07/02/14 05:01	

LABORATORY CONTROL SAMPLE: 1404395

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.7	108	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	19.8	99	67-127	N2
1,1,2-Trichloroethane	ug/L	20	23.8	119	67-124	
1,2-Dichloroethane	ug/L	20	22.2	111	70-126	
1,4-Dichlorobenzene	ug/L	20	21.6	108	74-120	
2-Butanone (MEK)	ug/L	100	109	109	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	128	128	59-131	N2
Acetone	ug/L	100	98.2	98	38-134	N2
Benzene	ug/L	20	21.2	106	75-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-343

Pace Project No.: 60172589

LABORATORY CONTROL SAMPLE: 1404395

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	20	22.9	115	68-125	
Bromoform	ug/L	20	21.5	108	65-127	
Bromomethane	ug/L	20	21.7	108	13-157	
Carbon tetrachloride	ug/L	20	20.9	104	70-131	
Chloroethane	ug/L	20	22.2	111	47-133	
Chloroform	ug/L	20	21.1	106	65-127	
cis-1,2-Dichloroethene	ug/L	20	21.6	108	68-127	N2
Ethylbenzene	ug/L	20	21.2	106	74-122	
Methylene chloride	ug/L	20	19.9	99	64-129	
Tetrachloroethene	ug/L	20	20.3	102	73-125	
Toluene	ug/L	20	19.6	98	69-126	
trans-1,2-Dichloroethene	ug/L	20	20.7	103	66-129	
Trichloroethene	ug/L	20	23.7	118	71-123	
Vinyl chloride	ug/L	20	23.8	119	43-129	
Xylene (Total)	ug/L	60	63.6	106	75-121	N2
1,2-Dichloroethane-d4 (S)	%			105	80-120	
4-Bromofluorobenzene (S)	%			98	80-120	
Toluene-d8 (S)	%			99	80-120	

MATRIX SPIKE SAMPLE: 1404396

Parameter	Units	60172688001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	4740	95	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	4950	99	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	4630	93	52-143	
1,2-Dichloroethane	ug/L	ND	5000	4460	89	49-144	
1,4-Dichlorobenzene	ug/L	ND	5000	4520	90	33-140	
2-Butanone (MEK)	ug/L	27600	25000	45600	72	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	23700	94	40-160	N2
Acetone	ug/L	72100	25000	82300	41	10-160	N2
Benzene	ug/L	ND	5000	4370	87	37-151	
Bromodichloromethane	ug/L	ND	5000	4550	91	35-142	
Bromoform	ug/L	ND	5000	4150	83	45-142	
Bromomethane	ug/L	ND	5000	4470	89	10-158	
Carbon tetrachloride	ug/L	ND	5000	4650	93	70-140	
Chloroethane	ug/L	ND	5000	4270	85	19-152	
Chloroform	ug/L	ND	5000	4400	88	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	4300	86	34-147	N2
Ethylbenzene	ug/L	ND	5000	4670	93	40-142	
Methylene chloride	ug/L	256	5000	4110	77	31-144	
Tetrachloroethene	ug/L	ND	5000	4490	90	64-148	
Toluene	ug/L	ND	5000	4150	83	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	4340	87	54-151	
Trichloroethene	ug/L	ND	5000	4500	90	71-149	
Vinyl chloride	ug/L	ND	5000	4070	81	22-146	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-343

Pace Project No.: 60172589

MATRIX SPIKE SAMPLE:		1404396							
Parameter	Units	60172688001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers		
Xylene (Total)	ug/L	ND	15000	13500	90	37-144	N2		
1,2-Dichloroethane-d4 (S)	%				101	80-120			
4-Bromofluorobenzene (S)	%				100	80-120			
Toluene-d8 (S)	%				100	80-120			
Preservation pH		6.0		6.0					

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-343
Pace Project No.: 60172589

QC Batch: OEXT/44932 Analysis Method: EPA 625
QC Batch Method: EPA 625 Analysis Description: 625 MSS
Associated Lab Samples: 60172589001

METHOD BLANK: 1404630 Matrix: Water
Associated Lab Samples: 60172589001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	07/03/14 12:18	
2,4,6-Trichlorophenol	ug/L	ND	5.0	07/03/14 12:18	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	07/03/14 12:18	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	07/03/14 12:18	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	07/03/14 12:18	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	07/03/14 12:18	
Hexachlorocyclopentadiene	ug/L	ND	5.0	07/03/14 12:18	
Hexachloroethane	ug/L	ND	5.0	07/03/14 12:18	
Naphthalene	ug/L	ND	5.0	07/03/14 12:18	
Nitrobenzene	ug/L	ND	5.0	07/03/14 12:18	
Pentachlorophenol	ug/L	ND	5.0	07/03/14 12:18	
Phenol	ug/L	ND	5.0	07/03/14 12:18	
2,4,6-Tribromophenol (S)	%	78	39-120	07/03/14 12:18	
2-Fluorobiphenyl (S)	%	82	39-120	07/03/14 12:18	
2-Fluorophenol (S)	%	43	17-120	07/03/14 12:18	
Nitrobenzene-d5 (S)	%	83	33-120	07/03/14 12:18	
Phenol-d6 (S)	%	28	11-120	07/03/14 12:18	
Terphenyl-d14 (S)	%	88	45-120	07/03/14 12:18	

LABORATORY CONTROL SAMPLE: 1404631

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	37.8	76	46-120	
2,4,6-Trichlorophenol	ug/L	50	41.3	83	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	30.8	62	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	27.0	54	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	39.3	79	40-133	
Hexachloro-1,3-butadiene	ug/L	50	36.5	73	44-116	
Hexachlorocyclopentadiene	ug/L	100	65.9	66	24-120	
Hexachloroethane	ug/L	50	34.2	68	43-113	
Naphthalene	ug/L	50	37.6	75	48-120	
Nitrobenzene	ug/L	50	39.8	80	48-120	
Pentachlorophenol	ug/L	50	44.1	88	47-120	
Phenol	ug/L	50	13.9	28	16-112	
2,4,6-Tribromophenol (S)	%			89	39-120	
2-Fluorobiphenyl (S)	%			84	39-120	
2-Fluorophenol (S)	%			40	17-120	
Nitrobenzene-d5 (S)	%			79	33-120	
Phenol-d6 (S)	%			27	11-120	
Terphenyl-d14 (S)	%			92	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-343

Pace Project No.: 60172589

MATRIX SPIKE SAMPLE:	1404632	60172477001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3310	66	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4090	82	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	5000	3760	75	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	6410	5000	9480	61	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	3240J	65	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3110	62	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	5440	54	11-120	
Hexachloroethane	ug/L	ND	5000	3000	60	40-113	
Naphthalene	ug/L	ND	5000	3940	67	45-120	
Nitrobenzene	ug/L	ND	5000	3850	77	38-120	
Pentachlorophenol	ug/L	ND	5000	4440	89	43-135	
Phenol	ug/L	9200	5000	11100	38	13-112	
2,4,6-Tribromophenol (S)	%				85	39-120	
2-Fluorobiphenyl (S)	%				76	39-120	
2-Fluorophenol (S)	%				40	17-120	
Nitrobenzene-d5 (S)	%				121	33-120	SO
Phenol-d6 (S)	%				31	11-120	
Terphenyl-d14 (S)	%				81	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-343

Pace Project No.: 60172589

QC Batch:	WET/48807	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60172589001		

METHOD BLANK: 1404475 Matrix: Water
Associated Lab Samples: 60172589001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	07/01/14 18:28	

LABORATORY CONTROL SAMPLE: 1404476

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	33.0	82	78-114	

MATRIX SPIKE SAMPLE: 1404477

Parameter	Units	60172173003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	44.4	42.0	93	78-114	

SAMPLE DUPLICATE: 1404478

Parameter	Units	60172173004 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	1.6J		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-343

Pace Project No.: 60172589

QC Batch:	WET/48806	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60172589001		

METHOD BLANK: 1404463 Matrix: Water
Associated Lab Samples: 60172589001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	07/01/14 18:36	

LABORATORY CONTROL SAMPLE: 1404464

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	23.8	119	64-132	

MATRIX SPIKE SAMPLE: 1404465

Parameter	Units	60172173003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	22.2	17.9	76	64-132	

SAMPLE DUPLICATE: 1404466

Parameter	Units	60172173004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	1.6J		34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-343

Pace Project No.: 60172589

QC Batch: WET/48756

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60172589001

METHOD BLANK: 1403485

Matrix: Water

Associated Lab Samples: 60172589001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	06/30/14 11:50	

SAMPLE DUPLICATE: 1403486

Parameter	Units	60172474001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 1403654

Parameter	Units	60172523001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	67.8	66.7	2	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-343

Pace Project No.: 60172589

QC Batch: WET/48861 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60172589001

SAMPLE DUPLICATE: 1406356

Parameter	Units	60172589001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.4	5.4	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-343

Pace Project No.: 60172589

QC Batch: WET/48745

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60172589001

METHOD BLANK: 1402849

Matrix: Water

Associated Lab Samples: 60172589001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	07/03/14 15:57	

LABORATORY CONTROL SAMPLE: 1402850

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	189	95	85-115	

SAMPLE DUPLICATE: 1402851

Parameter	Units	60172559002 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	3570	3270	9	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-343

Pace Project No.: 60172589

QC Batch:	WETA/30064	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60172589001		

METHOD BLANK: 1404059 Matrix: Water
Associated Lab Samples: 60172589001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	07/01/14 11:45	

LABORATORY CONTROL SAMPLE: 1404060

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	105	90-110	

MATRIX SPIKE SAMPLE: 1404061

Parameter	Units	60172395001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	3.8	4	7.1	83	90-110	M1

MATRIX SPIKE SAMPLE: 1404062

Parameter	Units	60172399001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.7	83	90-110	M1

SAMPLE DUPLICATE: 1404063

Parameter	Units	60172400001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-343

Pace Project No.: 60172589

QC Batch:	WETA/30098	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60172589001		

METHOD BLANK: 1404868 Matrix: Water
Associated Lab Samples: 60172589001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	07/04/14 07:33	

LABORATORY CONTROL SAMPLE: 1404869

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	50.3	101	90-110	

MATRIX SPIKE SAMPLE: 1404870

Parameter	Units	60171947001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	648	250	825	71	90-110	M1

MATRIX SPIKE SAMPLE: 1404872

Parameter	Units	60172477001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	47600	25000	70900	93	90-110	

SAMPLE DUPLICATE: 1404871

Parameter	Units	60172183001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	10800	11400	6	25	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 316-343

Pace Project No.: 60172589

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.

PQL - Practical Quantitation 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.

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D9 Dissolved result is greater than the total. Data is within laboratory control limits.

H6 Analysis initiated outside of the 15 minute EPA recommended holding time.

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

N2 The lab does not hold TNI accreditation for this parameter.

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-343

Pace Project No.: 60172589

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60172589001	316-343	EPA 200.7	MPRP/27877	EPA 200.7	ICP/21076
60172589001	316-343	EPA 200.7	MPRP/27889	EPA 200.7	ICP/21092
60172589001	316-343	EPA 245.1	MERP/8550	EPA 245.1	MERC/8501
60172589001	316-343	EPA 245.1	MERP/8551	EPA 245.1	MERC/8502
60172589001	316-343	EPA 625	OEXT/44932	EPA 625	MSSV/14397
60172589001	316-343	EPA 624 Low	MSV/62746		
60172589002	TRIP BLANK	EPA 624 Low	MSV/62746		
60172589001	316-343	EPA 1664A	WET/48807		
60172589001	316-343	EPA 1664A	WET/48806		
60172589001	316-343	SM 2540D	WET/48756		
60172589001	316-343	SM 4500-H+B	WET/48861		
60172589001	316-343	SM 5210B	WET/48745	SM 5210B	WET/48850
60172589001	316-343	EPA 350.1	WETA/30064		
60172589001	316-343	EPA 410.4	WETA/30098		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO# : 60172589

 60172589

Client Name: Rarr

Courier: Fed Ex UPS USPS Client Commercial Pace Other Xroad

Tracking #: _____ Pace Shipping Label Used? Yes No

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other 12PIC

Thermometer Used: T-239 / T-194 Type of Ice: Wet Blue None Samples received on ice, cooling process has begun.

Cooler Temperature: 5.8

Optional
Proj Due Date:
Proj Name:

Date and initials of person examining contents: 12/6/2014

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<u>12/6/2014</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>BOD PH</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix:	<u>WT</u>	13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>Added 2.5ml of HNO3 to BPSN. PH 6.0/4.0</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<u>Added 2.0ml of H2SO4 to BPS. PH 5.0/3.0</u>
Exceptions: <u>VOA</u> coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>pv</u> Lot # of added preservative <u>12513</u> <u>12522</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank lot # (if purchased):	<u>040714-3</u>	15.
Headspace in VOA vials (>6mm):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>5 of 5 - 26m - D694</u> <u>12/6/2014</u>
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <u>MD</u>

Client Notification/ Resolution: Copy COC to Client? Y N Field Data Required? Y N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 12/6/2014

July 07, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-344
Pace Project No.: 60172688

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 30, 2014. 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,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Bill Abernathy, Feezor Engineering
Kelly Caddy, Barr Engineering
DAN FEEZOR, FEEZOR ENGINEERING
Dana B. Pasi, Barr Engineering Co.
Brian Power, Republic Services
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-344

Pace Project No.: 60172688

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-13-4

Utah Certification #: KS000212013-3

Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-344

Pace Project No.: 60172688

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60172688001	316-344	Water	06/28/14 17:30	06/30/14 13:05
60172688002	TRIP BLANK	Water	06/28/14 17:30	06/30/14 13:05

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-344

Pace Project No.: 60172688

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60172688001	316-344	EPA 200.7	NDJ	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	CRT	1
		EPA 1664A	CRT	1
		SM 2540D	ESM	1
		SM 4500-H+B	NDL	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC1	1
		60172688002	TRIP BLANK	EPA 624 Low

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-344

Pace Project No.: 60172688

Sample: 316-344		Lab ID: 60172688001	Collected: 06/28/14 17:30	Received: 06/30/14 13:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	3000 ug/L		750	2	07/01/14 18:00	07/02/14 13:12	7429-90-5	
Antimony	55.0 ug/L		50.0	1	07/01/14 18:00	07/02/14 13:10	7440-36-0	
Arsenic	1180 ug/L		50.0	1	07/01/14 18:00	07/02/14 13:10	7440-38-2	
Beryllium	ND ug/L		5.0	1	07/01/14 18:00	07/02/14 13:10	7440-41-7	
Cadmium	ND ug/L		25.0	1	07/01/14 18:00	07/02/14 13:10	7440-43-9	
Chromium	206 ug/L		25.0	1	07/01/14 18:00	07/02/14 13:10	7440-47-3	
Cobalt	36.2 ug/L		25.0	1	07/01/14 18:00	07/02/14 13:10	7440-48-4	
Copper	ND ug/L		50.0	1	07/01/14 18:00	07/02/14 13:10	7440-50-8	
Iron	419000 ug/L		250	1	07/01/14 18:00	07/02/14 13:10	7439-89-6	
Lead	36.8 ug/L		25.0	1	07/01/14 18:00	07/02/14 13:10	7439-92-1	
Nickel	114 ug/L		25.0	1	07/01/14 18:00	07/02/14 13:10	7440-02-0	
Selenium	ND ug/L		75.0	1	07/01/14 18:00	07/02/14 13:10	7782-49-2	
Silver	ND ug/L		35.0	1	07/01/14 18:00	07/02/14 13:10	7440-22-4	
Thallium	ND ug/L		100	1	07/01/14 18:00	07/02/14 13:10	7440-28-0	
Zinc	5440 ug/L		500	2	07/01/14 18:00	07/02/14 13:12	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	2080 ug/L		750	2	07/02/14 17:00	07/03/14 16:16	7429-90-5	
Antimony, Dissolved	59.0 ug/L		50.0	1	07/02/14 17:00	07/03/14 16:13	7440-36-0	D9
Arsenic, Dissolved	1010 ug/L		50.0	1	07/02/14 17:00	07/03/14 16:13	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	07/02/14 17:00	07/03/14 16:13	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	07/02/14 17:00	07/03/14 16:13	7440-43-9	
Chromium, Dissolved	174 ug/L		25.0	1	07/02/14 17:00	07/03/14 16:13	7440-47-3	
Cobalt, Dissolved	27.9 ug/L		25.0	1	07/02/14 17:00	07/03/14 16:13	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	07/02/14 17:00	07/03/14 16:13	7440-50-8	
Iron, Dissolved	294000 ug/L		250	1	07/02/14 17:00	07/03/14 16:13	7439-89-6	
Lead, Dissolved	ND ug/L		25.0	1	07/02/14 17:00	07/03/14 16:13	7439-92-1	
Nickel, Dissolved	104 ug/L		25.0	1	07/02/14 17:00	07/03/14 16:13	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	07/02/14 17:00	07/03/14 16:13	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	07/02/14 17:00	07/03/14 16:13	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	07/02/14 17:00	07/03/14 16:13	7440-28-0	
Zinc, Dissolved	4740 ug/L		500	2	07/02/14 17:00	07/03/14 16:16	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	33.3 ug/L		6.0	1	07/02/14 10:15	07/02/14 13:41	7439-97-6	
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND ug/L		6.0	1	07/02/14 10:15	07/02/14 14:19	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	07/02/14 00:00	07/03/14 14:01	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	07/02/14 00:00	07/03/14 14:01	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	07/02/14 00:00	07/03/14 14:01	77-47-4	
Hexachloroethane	ND ug/L		1000	2	07/02/14 00:00	07/03/14 14:01	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	2	07/02/14 00:00	07/03/14 14:01	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	7200 ug/L		4000	2	07/02/14 00:00	07/03/14 14:01		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-344

Pace Project No.: 60172688

Sample: 316-344		Lab ID: 60172688001	Collected: 06/28/14 17:30	Received: 06/30/14 13:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	ND ug/L		1000	2	07/02/14 00:00	07/03/14 14:01	91-20-3	
Nitrobenzene	ND ug/L		1000	2	07/02/14 00:00	07/03/14 14:01	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	07/02/14 00:00	07/03/14 14:01	87-86-5	
Phenol	11100 ug/L		1000	2	07/02/14 00:00	07/03/14 14:01	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	07/02/14 00:00	07/03/14 14:01	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	07/02/14 00:00	07/03/14 14:01	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	134 %		33-120	2	07/02/14 00:00	07/03/14 14:01	4165-60-0	S0
2-Fluorobiphenyl (S)	93 %		39-120	2	07/02/14 00:00	07/03/14 14:01	321-60-8	
Terphenyl-d14 (S)	98 %		45-120	2	07/02/14 00:00	07/03/14 14:01	1718-51-0	
Phenol-d6 (S)	38 %		11-120	2	07/02/14 00:00	07/03/14 14:01	13127-88-3	
2-Fluorophenol (S)	52 %		17-120	2	07/02/14 00:00	07/03/14 14:01	367-12-4	
2,4,6-Tribromophenol (S)	105 %		39-120	2	07/02/14 00:00	07/03/14 14:01	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	72100 ug/L		2500	250		07/02/14 07:21	67-64-1	N2
Benzene	ND ug/L		250	250		07/02/14 07:21	71-43-2	
Bromodichloromethane	ND ug/L		250	250		07/02/14 07:21	75-27-4	
Bromoform	ND ug/L		250	250		07/02/14 07:21	75-25-2	
Bromomethane	ND ug/L		1250	250		07/02/14 07:21	74-83-9	
2-Butanone (MEK)	27600 ug/L		2500	250		07/02/14 07:21	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		07/02/14 07:21	56-23-5	
Chloroethane	ND ug/L		250	250		07/02/14 07:21	75-00-3	
Chloroform	ND ug/L		250	250		07/02/14 07:21	67-66-3	
1,4-Dichlorobenzene	ND ug/L		250	250		07/02/14 07:21	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		07/02/14 07:21	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		07/02/14 07:21	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		07/02/14 07:21	156-60-5	
Ethylbenzene	ND ug/L		250	250		07/02/14 07:21	100-41-4	
Methylene chloride	256 ug/L		250	250		07/02/14 07:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		07/02/14 07:21	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		07/02/14 07:21	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		07/02/14 07:21	127-18-4	
Toluene	ND ug/L		250	250		07/02/14 07:21	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		07/02/14 07:21	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		07/02/14 07:21	79-00-5	
Trichloroethene	ND ug/L		250	250		07/02/14 07:21	79-01-6	
Vinyl chloride	ND ug/L		250	250		07/02/14 07:21	75-01-4	
Xylene (Total)	ND ug/L		750	250		07/02/14 07:21	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100 %		80-120	250		07/02/14 07:21	460-00-4	
Toluene-d8 (S)	98 %		80-120	250		07/02/14 07:21	2037-26-5	
1,2-Dichloroethane-d4 (S)	99 %		80-120	250		07/02/14 07:21	17060-07-0	
Preservation pH	6.0		1.0	250		07/02/14 07:21		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	404 mg/L		5.0	1		07/02/14 17:15		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-344

Pace Project No.: 60172688

Sample: 316-344		Lab ID: 60172688001	Collected: 06/28/14 17:30	Received: 06/30/14 13:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	13.2	mg/L	5.0	1		07/02/14 17:27		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	4540	mg/L	5.0	1		07/01/14 10:26		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.4	Std. Units	0.10	1		07/05/14 11:15		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	25100	mg/L	2.0	1	06/30/14 16:39	07/05/14 08:12		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	613	mg/L	20.0	200		07/01/14 12:14	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	49900	mg/L	5000	500		07/04/14 08:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-344

Pace Project No.: 60172688

Sample: TRIP BLANK		Lab ID: 60172688002	Collected: 06/28/14 17:30	Received: 06/30/14 13:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		07/02/14 06:03	67-64-1	N2
Benzene	ND ug/L		1.0	1		07/02/14 06:03	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		07/02/14 06:03	75-27-4	
Bromoform	ND ug/L		1.0	1		07/02/14 06:03	75-25-2	
Bromomethane	ND ug/L		5.0	1		07/02/14 06:03	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		07/02/14 06:03	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		07/02/14 06:03	56-23-5	
Chloroethane	ND ug/L		1.0	1		07/02/14 06:03	75-00-3	
Chloroform	ND ug/L		1.0	1		07/02/14 06:03	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		07/02/14 06:03	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		07/02/14 06:03	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		07/02/14 06:03	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		07/02/14 06:03	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		07/02/14 06:03	100-41-4	
Methylene chloride	ND ug/L		1.0	1		07/02/14 06:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		07/02/14 06:03	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		07/02/14 06:03	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		07/02/14 06:03	127-18-4	
Toluene	ND ug/L		1.0	1		07/02/14 06:03	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		07/02/14 06:03	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		07/02/14 06:03	79-00-5	
Trichloroethene	ND ug/L		1.0	1		07/02/14 06:03	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		07/02/14 06:03	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		07/02/14 06:03	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	99 %		80-120	1		07/02/14 06:03	460-00-4	
Toluene-d8 (S)	99 %		80-120	1		07/02/14 06:03	2037-26-5	
1,2-Dichloroethane-d4 (S)	100 %		80-120	1		07/02/14 06:03	17060-07-0	
Preservation pH	6.0		1.0	1		07/02/14 06:03		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-344

Pace Project No.: 60172688

QC Batch: MERP/8550

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60172688001

METHOD BLANK: 1404770

Matrix: Water

Associated Lab Samples: 60172688001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	07/02/14 13:15	

LABORATORY CONTROL SAMPLE: 1404771

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.5	111	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1404772 1404773

Parameter	Units	60172403001		MS		MSD		MS		MSD		% Rec		Max		Qual
		Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD				
Mercury	ug/L		17.5	150	150	170	169	102	101	70-130	1	20				

MATRIX SPIKE SAMPLE: 1404774

Parameter	Units	60172697001	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L		ND	5	5.2	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-344

Pace Project No.: 60172688

QC Batch: MERP/8551

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60172688001

METHOD BLANK: 1404801

Matrix: Water

Associated Lab Samples: 60172688001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	07/02/14 13:57	

LABORATORY CONTROL SAMPLE: 1404802

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.6	111	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1404803 1404804

Parameter	Units	60172276001		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	ND	Spike Conc.	Conc.	Result	Result	% Rec	% Rec						
Mercury, Dissolved	ug/L	ND	150	150	158	156	105	104	70-130	1	20				

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-344

Pace Project No.: 60172688

QC Batch: MPRP/27877

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Total

Associated Lab Samples: 60172688001

METHOD BLANK: 1404364

Matrix: Water

Associated Lab Samples: 60172688001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	07/02/14 12:39	
Antimony	ug/L	ND	10.0	07/02/14 12:39	
Arsenic	ug/L	ND	10.0	07/02/14 12:39	
Beryllium	ug/L	ND	1.0	07/02/14 12:39	
Cadmium	ug/L	ND	5.0	07/02/14 12:39	
Chromium	ug/L	ND	5.0	07/02/14 12:39	
Cobalt	ug/L	ND	5.0	07/02/14 12:39	
Copper	ug/L	ND	10.0	07/02/14 12:39	
Iron	ug/L	ND	50.0	07/02/14 12:39	
Lead	ug/L	ND	5.0	07/02/14 12:39	
Nickel	ug/L	ND	5.0	07/02/14 12:39	
Selenium	ug/L	ND	15.0	07/02/14 12:39	
Silver	ug/L	ND	7.0	07/02/14 12:39	
Thallium	ug/L	ND	20.0	07/02/14 12:39	
Zinc	ug/L	ND	50.0	07/02/14 12:39	

LABORATORY CONTROL SAMPLE: 1404365

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9720	97	85-115	
Antimony	ug/L	1000	1010	101	85-115	
Arsenic	ug/L	1000	993	99	85-115	
Beryllium	ug/L	1000	980	98	85-115	
Cadmium	ug/L	1000	999	100	85-115	
Chromium	ug/L	1000	982	98	85-115	
Cobalt	ug/L	1000	1030	103	85-115	
Copper	ug/L	1000	993	99	85-115	
Iron	ug/L	10000	10100	101	85-115	
Lead	ug/L	1000	1000	100	85-115	
Nickel	ug/L	1000	1020	102	85-115	
Selenium	ug/L	1000	986	99	85-115	
Silver	ug/L	500	485	97	85-115	
Thallium	ug/L	1000	1020	102	85-115	
Zinc	ug/L	1000	1000	100	85-115	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-344

Pace Project No.: 60172688

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1404366												1404367											
Parameter	Units	60172589001		MS	MSD	MS		MSD		% Rec		Max											
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual											
Aluminum	ug/L	2020	50000	50000	51200	53300	98	103	70-130	4	8												
Antimony	ug/L	ND	5000	5000	5380	5510	107	109	70-130	2	7												
Arsenic	ug/L	1080	5000	5000	6690	6900	112	116	70-130	3	10												
Beryllium	ug/L	ND	5000	5000	4710	4730	94	95	70-130	0	7												
Cadmium	ug/L	ND	5000	5000	5260	5380	105	108	70-130	2	10												
Chromium	ug/L	187	5000	5000	4840	4930	93	95	70-130	2	10												
Cobalt	ug/L	30.6	5000	5000	4910	5000	98	99	70-130	2	6												
Copper	ug/L	ND	5000	5000	5400	5520	108	110	70-130	2	11												
Iron	ug/L	317000	50000	50000	365000	375000	96	117	70-130	3	10												
Lead	ug/L	25.9	5000	5000	4570	4670	91	93	70-130	2	10												
Nickel	ug/L	107	5000	5000	4850	4940	95	97	70-130	2	10												
Selenium	ug/L	ND	5000	5000	5900	6080	118	122	70-130	3	10												
Silver	ug/L	ND	2500	2500	2620	2670	105	107	70-130	2	10												
Thallium	ug/L	ND	5000	5000	4300	4380	86	88	70-130	2	6												
Zinc	ug/L	4580	5000	5000	9280	9690	94	102	70-130	4	11												

MATRIX SPIKE SAMPLE: 1404368											
Parameter	Units	60172688001		Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers			
		Result	Spike Conc.								
Aluminum	ug/L		3000	50000	54100	102	70-130				
Antimony	ug/L		55.0	5000	5510	109	70-130				
Arsenic	ug/L		1180	5000	6930	115	70-130				
Beryllium	ug/L		ND	5000	4730	95	70-130				
Cadmium	ug/L		ND	5000	5380	107	70-130				
Chromium	ug/L		206	5000	4940	95	70-130				
Cobalt	ug/L		36.2	5000	5000	99	70-130				
Copper	ug/L		ND	5000	5440	108	70-130				
Iron	ug/L		419000	50000	465000	93	70-130				
Lead	ug/L		36.8	5000	4650	92	70-130				
Nickel	ug/L		114	5000	4940	96	70-130				
Selenium	ug/L		ND	5000	6020	120	70-130				
Silver	ug/L		ND	2500	2630	105	70-130				
Thallium	ug/L		ND	5000	4380	88	70-130				
Zinc	ug/L		5440	5000	10300	96	70-130				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-344
Pace Project No.: 60172688

QC Batch: MPRP/27889 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60172688001

METHOD BLANK: 1405013 Matrix: Water
Associated Lab Samples: 60172688001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	07/03/14 15:52	
Antimony, Dissolved	ug/L	ND	10.0	07/03/14 15:52	
Arsenic, Dissolved	ug/L	ND	10.0	07/03/14 15:52	
Beryllium, Dissolved	ug/L	ND	1.0	07/03/14 15:52	
Cadmium, Dissolved	ug/L	ND	5.0	07/03/14 15:52	
Chromium, Dissolved	ug/L	ND	5.0	07/03/14 15:52	
Cobalt, Dissolved	ug/L	ND	5.0	07/03/14 15:52	
Copper, Dissolved	ug/L	ND	10.0	07/03/14 15:52	
Iron, Dissolved	ug/L	ND	50.0	07/03/14 15:52	
Lead, Dissolved	ug/L	ND	5.0	07/03/14 15:52	
Nickel, Dissolved	ug/L	ND	5.0	07/03/14 15:52	
Selenium, Dissolved	ug/L	ND	15.0	07/03/14 15:52	
Silver, Dissolved	ug/L	ND	7.0	07/03/14 15:52	
Thallium, Dissolved	ug/L	ND	20.0	07/03/14 15:52	
Zinc, Dissolved	ug/L	ND	50.0	07/03/14 15:52	

LABORATORY CONTROL SAMPLE: 1405014

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10300	103	85-115	
Antimony, Dissolved	ug/L	1000	1030	103	85-115	
Arsenic, Dissolved	ug/L	1000	993	99	85-115	
Beryllium, Dissolved	ug/L	1000	1040	104	85-115	
Cadmium, Dissolved	ug/L	1000	1010	101	85-115	
Chromium, Dissolved	ug/L	1000	993	99	85-115	
Cobalt, Dissolved	ug/L	1000	1030	103	85-115	
Copper, Dissolved	ug/L	1000	1010	101	85-115	
Iron, Dissolved	ug/L	10000	10200	102	85-115	
Lead, Dissolved	ug/L	1000	1030	103	85-115	
Nickel, Dissolved	ug/L	1000	1040	104	85-115	
Selenium, Dissolved	ug/L	1000	1010	101	85-115	
Silver, Dissolved	ug/L	500	493	99	85-115	
Thallium, Dissolved	ug/L	1000	1030	103	85-115	
Zinc, Dissolved	ug/L	1000	998	100	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-344

Pace Project No.: 60172688

Parameter	Units	60172589001		MS		MSD		MS		MSD		% Rec	% Rec	Limits	RPD	RPD	Max	Qual
		Result	Conc.	Spike	Conc.	Result	Conc.	Result	Conc.	Result	Conc.							
Aluminum, Dissolved	ug/L	1520	50000	50000	53400	53500	104	104	70-130	0	8							
Antimony, Dissolved	ug/L	53.3	5000	5000	5580	5660	110	112	70-130	2	7							
Arsenic, Dissolved	ug/L	1060	5000	5000	6780	6740	114	114	70-130	1	10							
Beryllium, Dissolved	ug/L	ND	5000	5000	4870	4980	97	100	70-130	2	7							
Cadmium, Dissolved	ug/L	ND	5000	5000	5360	5470	107	109	70-130	2	10							
Chromium, Dissolved	ug/L	183	5000	5000	4900	4980	94	96	70-130	2	10							
Cobalt, Dissolved	ug/L	30.9	5000	5000	4980	5080	99	101	70-130	2	6							
Copper, Dissolved	ug/L	ND	5000	5000	5440	5520	109	110	70-130	1	11							
Iron, Dissolved	ug/L	302000	50000	50000	362000	350000	119	96	70-130	3	10							
Lead, Dissolved	ug/L	ND	5000	5000	4690	4790	93	95	70-130	2	10							
Nickel, Dissolved	ug/L	105	5000	5000	4990	5080	98	100	70-130	2	10							
Selenium, Dissolved	ug/L	ND	5000	5000	6120	6140	122	123	70-130	0	10							
Silver, Dissolved	ug/L	ND	2500	2500	2630	2670	105	106	70-130	2	10							
Thallium, Dissolved	ug/L	ND	5000	5000	4390	4520	88	90	70-130	3	6							
Zinc, Dissolved	ug/L	4340	5000	5000	9200	9000	97	93	70-130	2	11							

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-344

Pace Project No.: 60172688

QC Batch: MSV/62746 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60172688001, 60172688002

METHOD BLANK: 1404394 Matrix: Water

Associated Lab Samples: 60172688001, 60172688002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	07/02/14 05:01	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	07/02/14 05:01	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	07/02/14 05:01	
1,2-Dichloroethane	ug/L	ND	1.0	07/02/14 05:01	
1,4-Dichlorobenzene	ug/L	ND	1.0	07/02/14 05:01	
2-Butanone (MEK)	ug/L	ND	10.0	07/02/14 05:01	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	07/02/14 05:01	N2
Acetone	ug/L	ND	10.0	07/02/14 05:01	N2
Benzene	ug/L	ND	1.0	07/02/14 05:01	
Bromodichloromethane	ug/L	ND	1.0	07/02/14 05:01	
Bromoform	ug/L	ND	1.0	07/02/14 05:01	
Bromomethane	ug/L	ND	5.0	07/02/14 05:01	
Carbon tetrachloride	ug/L	ND	1.0	07/02/14 05:01	
Chloroethane	ug/L	ND	1.0	07/02/14 05:01	
Chloroform	ug/L	ND	1.0	07/02/14 05:01	
cis-1,2-Dichloroethene	ug/L	ND	1.0	07/02/14 05:01	N2
Ethylbenzene	ug/L	ND	1.0	07/02/14 05:01	
Methylene chloride	ug/L	ND	1.0	07/02/14 05:01	
Tetrachloroethene	ug/L	ND	1.0	07/02/14 05:01	
Toluene	ug/L	ND	1.0	07/02/14 05:01	
trans-1,2-Dichloroethene	ug/L	ND	1.0	07/02/14 05:01	
Trichloroethene	ug/L	ND	1.0	07/02/14 05:01	
Vinyl chloride	ug/L	ND	1.0	07/02/14 05:01	
Xylene (Total)	ug/L	ND	3.0	07/02/14 05:01	N2
1,2-Dichloroethane-d4 (S)	%	106	80-120	07/02/14 05:01	
4-Bromofluorobenzene (S)	%	100	80-120	07/02/14 05:01	
Toluene-d8 (S)	%	100	80-120	07/02/14 05:01	

LABORATORY CONTROL SAMPLE: 1404395

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.7	108	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	19.8	99	67-127	N2
1,1,2-Trichloroethane	ug/L	20	23.8	119	67-124	
1,2-Dichloroethane	ug/L	20	22.2	111	70-126	
1,4-Dichlorobenzene	ug/L	20	21.6	108	74-120	
2-Butanone (MEK)	ug/L	100	109	109	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	128	128	59-131	N2
Acetone	ug/L	100	98.2	98	38-134	N2
Benzene	ug/L	20	21.2	106	75-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-344

Pace Project No.: 60172688

LABORATORY CONTROL SAMPLE: 1404395

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	20	22.9	115	68-125	
Bromoform	ug/L	20	21.5	108	65-127	
Bromomethane	ug/L	20	21.7	108	13-157	
Carbon tetrachloride	ug/L	20	20.9	104	70-131	
Chloroethane	ug/L	20	22.2	111	47-133	
Chloroform	ug/L	20	21.1	106	65-127	
cis-1,2-Dichloroethene	ug/L	20	21.6	108	68-127	N2
Ethylbenzene	ug/L	20	21.2	106	74-122	
Methylene chloride	ug/L	20	19.9	99	64-129	
Tetrachloroethene	ug/L	20	20.3	102	73-125	
Toluene	ug/L	20	19.6	98	69-126	
trans-1,2-Dichloroethene	ug/L	20	20.7	103	66-129	
Trichloroethene	ug/L	20	23.7	118	71-123	
Vinyl chloride	ug/L	20	23.8	119	43-129	
Xylene (Total)	ug/L	60	63.6	106	75-121	N2
1,2-Dichloroethane-d4 (S)	%			105	80-120	
4-Bromofluorobenzene (S)	%			98	80-120	
Toluene-d8 (S)	%			99	80-120	

MATRIX SPIKE SAMPLE: 1404396

Parameter	Units	60172688001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	4740	95	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	4950	99	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	4630	93	52-143	
1,2-Dichloroethane	ug/L	ND	5000	4460	89	49-144	
1,4-Dichlorobenzene	ug/L	ND	5000	4520	90	33-140	
2-Butanone (MEK)	ug/L	27600	25000	45600	72	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	23700	94	40-160	N2
Acetone	ug/L	72100	25000	82300	41	10-160	N2
Benzene	ug/L	ND	5000	4370	87	37-151	
Bromodichloromethane	ug/L	ND	5000	4550	91	35-142	
Bromoform	ug/L	ND	5000	4150	83	45-142	
Bromomethane	ug/L	ND	5000	4470	89	10-158	
Carbon tetrachloride	ug/L	ND	5000	4650	93	70-140	
Chloroethane	ug/L	ND	5000	4270	85	19-152	
Chloroform	ug/L	ND	5000	4400	88	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	4300	86	34-147	N2
Ethylbenzene	ug/L	ND	5000	4670	93	40-142	
Methylene chloride	ug/L	256	5000	4110	77	31-144	
Tetrachloroethene	ug/L	ND	5000	4490	90	64-148	
Toluene	ug/L	ND	5000	4150	83	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	4340	87	54-151	
Trichloroethene	ug/L	ND	5000	4500	90	71-149	
Vinyl chloride	ug/L	ND	5000	4070	81	22-146	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-344

Pace Project No.: 60172688

MATRIX SPIKE SAMPLE:		1404396					
Parameter	Units	60172688001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	ND	15000	13500	90	37-144	N2
1,2-Dichloroethane-d4 (S)	%				101	80-120	
4-Bromofluorobenzene (S)	%				100	80-120	
Toluene-d8 (S)	%				100	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-344
Pace Project No.: 60172688

QC Batch: OEXT/44932 Analysis Method: EPA 625
QC Batch Method: EPA 625 Analysis Description: 625 MSS
Associated Lab Samples: 60172688001

METHOD BLANK: 1404630 Matrix: Water
Associated Lab Samples: 60172688001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	07/03/14 12:18	
2,4,6-Trichlorophenol	ug/L	ND	5.0	07/03/14 12:18	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	07/03/14 12:18	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	07/03/14 12:18	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	07/03/14 12:18	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	07/03/14 12:18	
Hexachlorocyclopentadiene	ug/L	ND	5.0	07/03/14 12:18	
Hexachloroethane	ug/L	ND	5.0	07/03/14 12:18	
Naphthalene	ug/L	ND	5.0	07/03/14 12:18	
Nitrobenzene	ug/L	ND	5.0	07/03/14 12:18	
Pentachlorophenol	ug/L	ND	5.0	07/03/14 12:18	
Phenol	ug/L	ND	5.0	07/03/14 12:18	
2,4,6-Tribromophenol (S)	%	78	39-120	07/03/14 12:18	
2-Fluorobiphenyl (S)	%	82	39-120	07/03/14 12:18	
2-Fluorophenol (S)	%	43	17-120	07/03/14 12:18	
Nitrobenzene-d5 (S)	%	83	33-120	07/03/14 12:18	
Phenol-d6 (S)	%	28	11-120	07/03/14 12:18	
Terphenyl-d14 (S)	%	88	45-120	07/03/14 12:18	

LABORATORY CONTROL SAMPLE: 1404631

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	37.8	76	46-120	
2,4,6-Trichlorophenol	ug/L	50	41.3	83	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	30.8	62	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	27.0	54	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	39.3	79	40-133	
Hexachloro-1,3-butadiene	ug/L	50	36.5	73	44-116	
Hexachlorocyclopentadiene	ug/L	100	65.9	66	24-120	
Hexachloroethane	ug/L	50	34.2	68	43-113	
Naphthalene	ug/L	50	37.6	75	48-120	
Nitrobenzene	ug/L	50	39.8	80	48-120	
Pentachlorophenol	ug/L	50	44.1	88	47-120	
Phenol	ug/L	50	13.9	28	16-112	
2,4,6-Tribromophenol (S)	%			89	39-120	
2-Fluorobiphenyl (S)	%			84	39-120	
2-Fluorophenol (S)	%			40	17-120	
Nitrobenzene-d5 (S)	%			79	33-120	
Phenol-d6 (S)	%			27	11-120	
Terphenyl-d14 (S)	%			92	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-344

Pace Project No.: 60172688

MATRIX SPIKE SAMPLE:		1404632					
Parameter	Units	60172477001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3310	66	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4090	82	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	5000	3760	75	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	6410	5000	9480	61	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	3240J	65	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3110	62	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	5440	54	11-120	
Hexachloroethane	ug/L	ND	5000	3000	60	40-113	
Naphthalene	ug/L	ND	5000	3940	67	45-120	
Nitrobenzene	ug/L	ND	5000	3850	77	38-120	
Pentachlorophenol	ug/L	ND	5000	4440	89	43-135	
Phenol	ug/L	9200	5000	11100	38	13-112	
2,4,6-Tribromophenol (S)	%				85	39-120	
2-Fluorobiphenyl (S)	%				76	39-120	
2-Fluorophenol (S)	%				40	17-120	
Nitrobenzene-d5 (S)	%				121	33-120	SO
Phenol-d6 (S)	%				31	11-120	
Terphenyl-d14 (S)	%				81	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-344

Pace Project No.: 60172688

QC Batch:	WET/48830	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60172688001		

METHOD BLANK: 1405280 Matrix: Water

Associated Lab Samples: 60172688001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	07/02/14 17:14	

LABORATORY CONTROL SAMPLE: 1405281

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	32.9	82	78-114	

MATRIX SPIKE SAMPLE: 1405282

Parameter	Units	60172258001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	44	39.1	87	78-114	

SAMPLE DUPLICATE: 1405283

Parameter	Units	60172258002 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-344

Pace Project No.: 60172688

QC Batch:	WET/48831	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60172688001		

METHOD BLANK: 1405294 Matrix: Water
Associated Lab Samples: 60172688001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	07/02/14 17:26	

LABORATORY CONTROL SAMPLE: 1405295

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	22.7	114	64-132	

MATRIX SPIKE SAMPLE: 1405296

Parameter	Units	60172258001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	22	15.4	67	64-132	

SAMPLE DUPLICATE: 1405297

Parameter	Units	60172258002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	ND		34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-344

Pace Project No.: 60172688

QC Batch: WET/48785

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60172688001

METHOD BLANK: 1404008

Matrix: Water

Associated Lab Samples: 60172688001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	07/01/14 10:24	

SAMPLE DUPLICATE: 1404009

Parameter	Units	60172586001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	2840	2860	1	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-344

Pace Project No.: 60172688

QC Batch: WET/48861 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60172688001

SAMPLE DUPLICATE: 1406356

Parameter	Units	60172589001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.4	5.4	0	5	H6

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-344

Pace Project No.: 60172688

QC Batch: WET/48775

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60172688001

METHOD BLANK: 1403834

Matrix: Water

Associated Lab Samples: 60172688001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	07/05/14 08:10	

LABORATORY CONTROL SAMPLE: 1403835

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	198	100	85-115	

SAMPLE DUPLICATE: 1403836

Parameter	Units	60172688001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	25100	30000	18	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-344

Pace Project No.: 60172688

QC Batch:	WETA/30064	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60172688001		

METHOD BLANK: 1404059 Matrix: Water
Associated Lab Samples: 60172688001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	07/01/14 11:45	

LABORATORY CONTROL SAMPLE: 1404060

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	105	90-110	

MATRIX SPIKE SAMPLE: 1404061

Parameter	Units	60172395001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	3.8	4	7.1	83	90-110	M1

MATRIX SPIKE SAMPLE: 1404062

Parameter	Units	60172399001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.7	83	90-110	M1

SAMPLE DUPLICATE: 1404063

Parameter	Units	60172400001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-344

Pace Project No.: 60172688

QC Batch:	WETA/30112	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60172688001		

METHOD BLANK: 1405609 Matrix: Water
Associated Lab Samples: 60172688001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	07/04/14 07:50	

LABORATORY CONTROL SAMPLE: 1405610

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	49.4	99	90-110	

MATRIX SPIKE SAMPLE: 1405611

Parameter	Units	60172572007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	9230	5000	13600	88	90-110	M1

MATRIX SPIKE SAMPLE: 1405613

Parameter	Units	60172666001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	28.4	50	76.7	97	90-110	

SAMPLE DUPLICATE: 1405612

Parameter	Units	60172572009 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	2800	2770	1	25	

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QUALIFIERS

Project: BRIDGETON LF 316-344

Pace Project No.: 60172688

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.

PQL - Practical Quantitation 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.

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D9 Dissolved result is greater than the total. Data is within laboratory control limits.

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.

N2 The lab does not hold TNI accreditation for this parameter.

S0 Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-344

Pace Project No.: 60172688

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60172688001	316-344	EPA 200.7	MPRP/27877	EPA 200.7	ICP/21076
60172688001	316-344	EPA 200.7	MPRP/27889	EPA 200.7	ICP/21092
60172688001	316-344	EPA 245.1	MERP/8550	EPA 245.1	MERC/8501
60172688001	316-344	EPA 245.1	MERP/8551	EPA 245.1	MERC/8502
60172688001	316-344	EPA 625	OEXT/44932	EPA 625	MSSV/14397
60172688001	316-344	EPA 624 Low	MSV/62746		
60172688002	TRIP BLANK	EPA 624 Low	MSV/62746		
60172688001	316-344	EPA 1664A	WET/48830		
60172688001	316-344	EPA 1664A	WET/48831		
60172688001	316-344	SM 2540D	WET/48785		
60172688001	316-344	SM 4500-H+B	WET/48861		
60172688001	316-344	SM 5210B	WET/48775	SM 5210B	WET/48864
60172688001	316-344	EPA 350.1	WETA/30064		
60172688001	316-344	EPA 410.4	WETA/30112		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60172688
Barcode
60172688

Client Name: Barr Engineering

Courier: Fed Ex [] UPS [] USPS [] Client [] Commercial [] Pace [] Other [x] unmarked

Tracking #: Pace Shipping Label Used? Yes [] No [x]

Custody Seal on Cooler/Box Present: Yes [x] No [] Seals intact: Yes [x] No []

Packing Material: Bubble Wrap [] Bubble Bags [x] Foam [x] None [] Other [x] zoll

Thermometer Used: T-239 / T-194 Type of Ice: Wet Blue None [] Samples received on ice, cooling process has begun.

Cooler Temperature: 2.8

Date and initials of person examining contents: [signature] 11/30

Temperature should be above freezing to 6°C

Table with 17 rows of inspection items and checkboxes. Items include Chain of Custody, Short Hold Time analyses, Rush Turn Around Time, etc.

Client Notification/ Resolution: Copy COC to Client? Y / [N] Field Data Required? Y / [N]

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: [signature] Date: 7/1/14

July 07, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-346
Pace Project No.: 60172694

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 30, 2014. 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,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Bill Abernathy, Feezor Engineering
Kelly Caddy, Barr Engineering
DAN FEEZOR, FEEZOR ENGINEERING
Dana B. Pasi, Barr Engineering Co.
Brian Power, Republic Services
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-346

Pace Project No.: 60172694

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-13-4

Utah Certification #: KS000212013-3

Illinois Certification #: 003097

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-346

Pace Project No.: 60172694

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60172694001	316-346	Water	06/30/14 07:17	06/30/14 13:05
60172694002	TRIP BLANK	Water	06/30/14 07:17	06/30/14 13:05

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-346

Pace Project No.: 60172694

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60172694001	316-346	EPA 200.7	NDJ	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	CRT	1
		EPA 1664A	CRT	1
		SM 2540D	ESM	1
		SM 4500-H+B	NDL	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC1	1
		60172694002	TRIP BLANK	EPA 624 Low

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-346

Pace Project No.: 60172694

Sample: 316-346		Lab ID: 60172694001	Collected: 06/30/14 07:17	Received: 06/30/14 13:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	2540 ug/L		750	2	07/01/14 18:00	07/02/14 13:22	7429-90-5	
Antimony	61.6 ug/L		50.0	1	07/01/14 18:00	07/02/14 13:20	7440-36-0	
Arsenic	1280 ug/L		50.0	1	07/01/14 18:00	07/02/14 13:20	7440-38-2	
Beryllium	ND ug/L		5.0	1	07/01/14 18:00	07/02/14 13:20	7440-41-7	
Cadmium	ND ug/L		25.0	1	07/01/14 18:00	07/02/14 13:20	7440-43-9	
Chromium	208 ug/L		25.0	1	07/01/14 18:00	07/02/14 13:20	7440-47-3	
Cobalt	32.7 ug/L		25.0	1	07/01/14 18:00	07/02/14 13:20	7440-48-4	
Copper	ND ug/L		50.0	1	07/01/14 18:00	07/02/14 13:20	7440-50-8	
Iron	448000 ug/L		250	1	07/01/14 18:00	07/02/14 13:20	7439-89-6	
Lead	36.3 ug/L		25.0	1	07/01/14 18:00	07/02/14 13:20	7439-92-1	
Nickel	113 ug/L		25.0	1	07/01/14 18:00	07/02/14 13:20	7440-02-0	
Selenium	ND ug/L		75.0	1	07/01/14 18:00	07/02/14 13:20	7782-49-2	
Silver	ND ug/L		35.0	1	07/01/14 18:00	07/02/14 13:20	7440-22-4	
Thallium	ND ug/L		100	1	07/01/14 18:00	07/02/14 13:20	7440-28-0	
Zinc	6280 ug/L		500	2	07/01/14 18:00	07/02/14 13:22	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	1740 ug/L		750	2	07/02/14 17:00	07/03/14 16:21	7429-90-5	
Antimony, Dissolved	ND ug/L		50.0	1	07/02/14 17:00	07/03/14 16:18	7440-36-0	
Arsenic, Dissolved	1020 ug/L		50.0	1	07/02/14 17:00	07/03/14 16:18	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	07/02/14 17:00	07/03/14 16:18	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	07/02/14 17:00	07/03/14 16:18	7440-43-9	
Chromium, Dissolved	172 ug/L		25.0	1	07/02/14 17:00	07/03/14 16:18	7440-47-3	
Cobalt, Dissolved	25.8 ug/L		25.0	1	07/02/14 17:00	07/03/14 16:18	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	07/02/14 17:00	07/03/14 16:18	7440-50-8	
Iron, Dissolved	337000 ug/L		250	1	07/02/14 17:00	07/03/14 16:18	7439-89-6	
Lead, Dissolved	32.9 ug/L		25.0	1	07/02/14 17:00	07/03/14 16:18	7439-92-1	
Nickel, Dissolved	96.9 ug/L		25.0	1	07/02/14 17:00	07/03/14 16:18	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	07/02/14 17:00	07/03/14 16:18	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	07/02/14 17:00	07/03/14 16:18	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	07/02/14 17:00	07/03/14 16:18	7440-28-0	
Zinc, Dissolved	5090 ug/L		500	2	07/02/14 17:00	07/03/14 16:21	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	ND ug/L		6.0	1	07/02/14 10:15	07/02/14 13:44	7439-97-6	
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND ug/L		6.0	1	07/02/14 10:15	07/02/14 14:21	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	07/02/14 00:00	07/03/14 14:21	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	07/02/14 00:00	07/03/14 14:21	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	07/02/14 00:00	07/03/14 14:21	77-47-4	
Hexachloroethane	ND ug/L		1000	2	07/02/14 00:00	07/03/14 14:21	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	2	07/02/14 00:00	07/03/14 14:21	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	6840 ug/L		4000	2	07/02/14 00:00	07/03/14 14:21		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-346

Pace Project No.: 60172694

Sample: 316-346 **Lab ID: 60172694001** Collected: 06/30/14 07:17 Received: 06/30/14 13:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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625 MSSV

Analytical Method: EPA 625 Preparation Method: EPA 625

Naphthalene	ND ug/L		1000	2	07/02/14 00:00	07/03/14 14:21	91-20-3	
Nitrobenzene	ND ug/L		1000	2	07/02/14 00:00	07/03/14 14:21	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	07/02/14 00:00	07/03/14 14:21	87-86-5	
Phenol	10300 ug/L		1000	2	07/02/14 00:00	07/03/14 14:21	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	07/02/14 00:00	07/03/14 14:21	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	07/02/14 00:00	07/03/14 14:21	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	125 %		33-120	2	07/02/14 00:00	07/03/14 14:21	4165-60-0	S0
2-Fluorobiphenyl (S)	82 %		39-120	2	07/02/14 00:00	07/03/14 14:21	321-60-8	
Terphenyl-d14 (S)	85 %		45-120	2	07/02/14 00:00	07/03/14 14:21	1718-51-0	
Phenol-d6 (S)	31 %		11-120	2	07/02/14 00:00	07/03/14 14:21	13127-88-3	
2-Fluorophenol (S)	43 %		17-120	2	07/02/14 00:00	07/03/14 14:21	367-12-4	
2,4,6-Tribromophenol (S)	88 %		39-120	2	07/02/14 00:00	07/03/14 14:21	118-79-6	

624 Volatile Organics

Analytical Method: EPA 624 Low

Acetone	78500 ug/L		2000	200		07/02/14 08:08	67-64-1	N2
Benzene	ND ug/L		200	200		07/02/14 08:08	71-43-2	
Bromodichloromethane	ND ug/L		200	200		07/02/14 08:08	75-27-4	
Bromoform	ND ug/L		200	200		07/02/14 08:08	75-25-2	
Bromomethane	ND ug/L		1000	200		07/02/14 08:08	74-83-9	
2-Butanone (MEK)	31900 ug/L		2000	200		07/02/14 08:08	78-93-3	N2
Carbon tetrachloride	ND ug/L		200	200		07/02/14 08:08	56-23-5	
Chloroethane	ND ug/L		200	200		07/02/14 08:08	75-00-3	
Chloroform	ND ug/L		200	200		07/02/14 08:08	67-66-3	
1,4-Dichlorobenzene	ND ug/L		200	200		07/02/14 08:08	106-46-7	
1,2-Dichloroethane	ND ug/L		200	200		07/02/14 08:08	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		200	200		07/02/14 08:08	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		200	200		07/02/14 08:08	156-60-5	
Ethylbenzene	ND ug/L		200	200		07/02/14 08:08	100-41-4	
Methylene chloride	202 ug/L		200	200		07/02/14 08:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2000	200		07/02/14 08:08	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		07/02/14 08:08	79-34-5	N2
Tetrachloroethene	ND ug/L		200	200		07/02/14 08:08	127-18-4	
Toluene	ND ug/L		200	200		07/02/14 08:08	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		07/02/14 08:08	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		07/02/14 08:08	79-00-5	
Trichloroethene	ND ug/L		200	200		07/02/14 08:08	79-01-6	
Vinyl chloride	ND ug/L		200	200		07/02/14 08:08	75-01-4	
Xylene (Total)	ND ug/L		600	200		07/02/14 08:08	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100 %		80-120	200		07/02/14 08:08	460-00-4	
Toluene-d8 (S)	97 %		80-120	200		07/02/14 08:08	2037-26-5	
1,2-Dichloroethane-d4 (S)	101 %		80-120	200		07/02/14 08:08	17060-07-0	
Preservation pH	6.0		1.0	200		07/02/14 08:08		

HEM, Oil and Grease

Analytical Method: EPA 1664A

Oil and Grease	380 mg/L		5.0	1		07/02/14 17:15		
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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-346

Pace Project No.: 60172694

Sample: 316-346		Lab ID: 60172694001	Collected: 06/30/14 07:17	Received: 06/30/14 13:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	9.2	mg/L	5.0	1		07/02/14 17:28		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	4380	mg/L	5.0	1		07/01/14 10:26		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.4	Std. Units	0.10	1		07/05/14 11:15		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	28300	mg/L	2.0	1	06/30/14 16:47	07/05/14 08:24		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	643	mg/L	20.0	200		07/01/14 12:16	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	50500	mg/L	5000	500		07/04/14 08:01		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-346

Pace Project No.: 60172694

Sample: TRIP BLANK		Lab ID: 60172694002	Collected: 06/30/14 07:17	Received: 06/30/14 13:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		07/02/14 06:34	67-64-1	N2
Benzene	ND ug/L		1.0	1		07/02/14 06:34	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		07/02/14 06:34	75-27-4	
Bromoform	ND ug/L		1.0	1		07/02/14 06:34	75-25-2	
Bromomethane	ND ug/L		5.0	1		07/02/14 06:34	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		07/02/14 06:34	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		07/02/14 06:34	56-23-5	
Chloroethane	ND ug/L		1.0	1		07/02/14 06:34	75-00-3	
Chloroform	ND ug/L		1.0	1		07/02/14 06:34	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		07/02/14 06:34	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		07/02/14 06:34	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		07/02/14 06:34	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		07/02/14 06:34	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		07/02/14 06:34	100-41-4	
Methylene chloride	ND ug/L		1.0	1		07/02/14 06:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		07/02/14 06:34	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		07/02/14 06:34	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		07/02/14 06:34	127-18-4	
Toluene	ND ug/L		1.0	1		07/02/14 06:34	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		07/02/14 06:34	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		07/02/14 06:34	79-00-5	
Trichloroethene	ND ug/L		1.0	1		07/02/14 06:34	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		07/02/14 06:34	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		07/02/14 06:34	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100 %		80-120	1		07/02/14 06:34	460-00-4	
Toluene-d8 (S)	97 %		80-120	1		07/02/14 06:34	2037-26-5	
1,2-Dichloroethane-d4 (S)	101 %		80-120	1		07/02/14 06:34	17060-07-0	
Preservation pH	6.0		1.0	1		07/02/14 06:34		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-346

Pace Project No.: 60172694

QC Batch:	MERP/8550	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
Associated Lab Samples:	60172694001		

METHOD BLANK: 1404770 Matrix: Water
Associated Lab Samples: 60172694001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	07/02/14 13:15	

LABORATORY CONTROL SAMPLE: 1404771

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.5	111	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1404772 1404773

Parameter	Units	60172403001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Mercury	ug/L	17.5	150	150	170	169	102	101	70-130	1	20		

MATRIX SPIKE SAMPLE: 1404774

Parameter	Units	60172697001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	5.2	104	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-346

Pace Project No.: 60172694

QC Batch: MERP/8551

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60172694001

METHOD BLANK: 1404801

Matrix: Water

Associated Lab Samples: 60172694001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	07/02/14 13:57	

LABORATORY CONTROL SAMPLE: 1404802

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.6	111	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1404803 1404804

Parameter	Units	60172276001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Mercury, Dissolved	ug/L	ND	150	150	158	156	105	104	70-130	1	20		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-346
Pace Project No.: 60172694

QC Batch: MPRP/27877 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60172694001

METHOD BLANK: 1404364 Matrix: Water
Associated Lab Samples: 60172694001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	07/02/14 12:39	
Antimony	ug/L	ND	10.0	07/02/14 12:39	
Arsenic	ug/L	ND	10.0	07/02/14 12:39	
Beryllium	ug/L	ND	1.0	07/02/14 12:39	
Cadmium	ug/L	ND	5.0	07/02/14 12:39	
Chromium	ug/L	ND	5.0	07/02/14 12:39	
Cobalt	ug/L	ND	5.0	07/02/14 12:39	
Copper	ug/L	ND	10.0	07/02/14 12:39	
Iron	ug/L	ND	50.0	07/02/14 12:39	
Lead	ug/L	ND	5.0	07/02/14 12:39	
Nickel	ug/L	ND	5.0	07/02/14 12:39	
Selenium	ug/L	ND	15.0	07/02/14 12:39	
Silver	ug/L	ND	7.0	07/02/14 12:39	
Thallium	ug/L	ND	20.0	07/02/14 12:39	
Zinc	ug/L	ND	50.0	07/02/14 12:39	

LABORATORY CONTROL SAMPLE: 1404365

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9720	97	85-115	
Antimony	ug/L	1000	1010	101	85-115	
Arsenic	ug/L	1000	993	99	85-115	
Beryllium	ug/L	1000	980	98	85-115	
Cadmium	ug/L	1000	999	100	85-115	
Chromium	ug/L	1000	982	98	85-115	
Cobalt	ug/L	1000	1030	103	85-115	
Copper	ug/L	1000	993	99	85-115	
Iron	ug/L	10000	10100	101	85-115	
Lead	ug/L	1000	1000	100	85-115	
Nickel	ug/L	1000	1020	102	85-115	
Selenium	ug/L	1000	986	99	85-115	
Silver	ug/L	500	485	97	85-115	
Thallium	ug/L	1000	1020	102	85-115	
Zinc	ug/L	1000	1000	100	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-346

Pace Project No.: 60172694

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1404366												1404367	
Parameter	Units	60172589001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual		
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD			
Aluminum	ug/L	2020	50000	50000	51200	53300	98	103	70-130	4	8		
Antimony	ug/L	ND	5000	5000	5380	5510	107	109	70-130	2	7		
Arsenic	ug/L	1080	5000	5000	6690	6900	112	116	70-130	3	10		
Beryllium	ug/L	ND	5000	5000	4710	4730	94	95	70-130	0	7		
Cadmium	ug/L	ND	5000	5000	5260	5380	105	108	70-130	2	10		
Chromium	ug/L	187	5000	5000	4840	4930	93	95	70-130	2	10		
Cobalt	ug/L	30.6	5000	5000	4910	5000	98	99	70-130	2	6		
Copper	ug/L	ND	5000	5000	5400	5520	108	110	70-130	2	11		
Iron	ug/L	317000	50000	50000	365000	375000	96	117	70-130	3	10		
Lead	ug/L	25.9	5000	5000	4570	4670	91	93	70-130	2	10		
Nickel	ug/L	107	5000	5000	4850	4940	95	97	70-130	2	10		
Selenium	ug/L	ND	5000	5000	5900	6080	118	122	70-130	3	10		
Silver	ug/L	ND	2500	2500	2620	2670	105	107	70-130	2	10		
Thallium	ug/L	ND	5000	5000	4300	4380	86	88	70-130	2	6		
Zinc	ug/L	4580	5000	5000	9280	9690	94	102	70-130	4	11		

MATRIX SPIKE SAMPLE: 1404368											
Parameter	Units	60172688001 Result	Spike	MS	MS	% Rec	Qualifiers				
			Conc.	Result	% Rec	Limits					
Aluminum	ug/L	3000	50000	54100	102	70-130					
Antimony	ug/L	55.0	5000	5510	109	70-130					
Arsenic	ug/L	1180	5000	6930	115	70-130					
Beryllium	ug/L	ND	5000	4730	95	70-130					
Cadmium	ug/L	ND	5000	5380	107	70-130					
Chromium	ug/L	206	5000	4940	95	70-130					
Cobalt	ug/L	36.2	5000	5000	99	70-130					
Copper	ug/L	ND	5000	5440	108	70-130					
Iron	ug/L	419000	50000	465000	93	70-130					
Lead	ug/L	36.8	5000	4650	92	70-130					
Nickel	ug/L	114	5000	4940	96	70-130					
Selenium	ug/L	ND	5000	6020	120	70-130					
Silver	ug/L	ND	2500	2630	105	70-130					
Thallium	ug/L	ND	5000	4380	88	70-130					
Zinc	ug/L	5440	5000	10300	96	70-130					

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-346
Pace Project No.: 60172694

QC Batch: MPRP/27889 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60172694001

METHOD BLANK: 1405013 Matrix: Water
Associated Lab Samples: 60172694001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	07/03/14 15:52	
Antimony, Dissolved	ug/L	ND	10.0	07/03/14 15:52	
Arsenic, Dissolved	ug/L	ND	10.0	07/03/14 15:52	
Beryllium, Dissolved	ug/L	ND	1.0	07/03/14 15:52	
Cadmium, Dissolved	ug/L	ND	5.0	07/03/14 15:52	
Chromium, Dissolved	ug/L	ND	5.0	07/03/14 15:52	
Cobalt, Dissolved	ug/L	ND	5.0	07/03/14 15:52	
Copper, Dissolved	ug/L	ND	10.0	07/03/14 15:52	
Iron, Dissolved	ug/L	ND	50.0	07/03/14 15:52	
Lead, Dissolved	ug/L	ND	5.0	07/03/14 15:52	
Nickel, Dissolved	ug/L	ND	5.0	07/03/14 15:52	
Selenium, Dissolved	ug/L	ND	15.0	07/03/14 15:52	
Silver, Dissolved	ug/L	ND	7.0	07/03/14 15:52	
Thallium, Dissolved	ug/L	ND	20.0	07/03/14 15:52	
Zinc, Dissolved	ug/L	ND	50.0	07/03/14 15:52	

LABORATORY CONTROL SAMPLE: 1405014

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10300	103	85-115	
Antimony, Dissolved	ug/L	1000	1030	103	85-115	
Arsenic, Dissolved	ug/L	1000	993	99	85-115	
Beryllium, Dissolved	ug/L	1000	1040	104	85-115	
Cadmium, Dissolved	ug/L	1000	1010	101	85-115	
Chromium, Dissolved	ug/L	1000	993	99	85-115	
Cobalt, Dissolved	ug/L	1000	1030	103	85-115	
Copper, Dissolved	ug/L	1000	1010	101	85-115	
Iron, Dissolved	ug/L	10000	10200	102	85-115	
Lead, Dissolved	ug/L	1000	1030	103	85-115	
Nickel, Dissolved	ug/L	1000	1040	104	85-115	
Selenium, Dissolved	ug/L	1000	1010	101	85-115	
Silver, Dissolved	ug/L	500	493	99	85-115	
Thallium, Dissolved	ug/L	1000	1030	103	85-115	
Zinc, Dissolved	ug/L	1000	998	100	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-346

Pace Project No.: 60172694

Parameter	Units	60172589001		1405015		1405016		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Aluminum, Dissolved	ug/L	1520	50000	50000	53400	53500	104	104	70-130	0	8			
Antimony, Dissolved	ug/L	53.3	5000	5000	5580	5660	110	112	70-130	2	7			
Arsenic, Dissolved	ug/L	1060	5000	5000	6780	6740	114	114	70-130	1	10			
Beryllium, Dissolved	ug/L	ND	5000	5000	4870	4980	97	100	70-130	2	7			
Cadmium, Dissolved	ug/L	ND	5000	5000	5360	5470	107	109	70-130	2	10			
Chromium, Dissolved	ug/L	183	5000	5000	4900	4980	94	96	70-130	2	10			
Cobalt, Dissolved	ug/L	30.9	5000	5000	4980	5080	99	101	70-130	2	6			
Copper, Dissolved	ug/L	ND	5000	5000	5440	5520	109	110	70-130	1	11			
Iron, Dissolved	ug/L	302000	50000	50000	362000	350000	119	96	70-130	3	10			
Lead, Dissolved	ug/L	ND	5000	5000	4690	4790	93	95	70-130	2	10			
Nickel, Dissolved	ug/L	105	5000	5000	4990	5080	98	100	70-130	2	10			
Selenium, Dissolved	ug/L	ND	5000	5000	6120	6140	122	123	70-130	0	10			
Silver, Dissolved	ug/L	ND	2500	2500	2630	2670	105	106	70-130	2	10			
Thallium, Dissolved	ug/L	ND	5000	5000	4390	4520	88	90	70-130	3	6			
Zinc, Dissolved	ug/L	4340	5000	5000	9200	9000	97	93	70-130	2	11			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-346

Pace Project No.: 60172694

QC Batch: MSV/62746 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60172694001, 60172694002

METHOD BLANK: 1404394 Matrix: Water

Associated Lab Samples: 60172694001, 60172694002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	07/02/14 05:01	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	07/02/14 05:01	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	07/02/14 05:01	
1,2-Dichloroethane	ug/L	ND	1.0	07/02/14 05:01	
1,4-Dichlorobenzene	ug/L	ND	1.0	07/02/14 05:01	
2-Butanone (MEK)	ug/L	ND	10.0	07/02/14 05:01	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	07/02/14 05:01	N2
Acetone	ug/L	ND	10.0	07/02/14 05:01	N2
Benzene	ug/L	ND	1.0	07/02/14 05:01	
Bromodichloromethane	ug/L	ND	1.0	07/02/14 05:01	
Bromoform	ug/L	ND	1.0	07/02/14 05:01	
Bromomethane	ug/L	ND	5.0	07/02/14 05:01	
Carbon tetrachloride	ug/L	ND	1.0	07/02/14 05:01	
Chloroethane	ug/L	ND	1.0	07/02/14 05:01	
Chloroform	ug/L	ND	1.0	07/02/14 05:01	
cis-1,2-Dichloroethene	ug/L	ND	1.0	07/02/14 05:01	N2
Ethylbenzene	ug/L	ND	1.0	07/02/14 05:01	
Methylene chloride	ug/L	ND	1.0	07/02/14 05:01	
Tetrachloroethene	ug/L	ND	1.0	07/02/14 05:01	
Toluene	ug/L	ND	1.0	07/02/14 05:01	
trans-1,2-Dichloroethene	ug/L	ND	1.0	07/02/14 05:01	
Trichloroethene	ug/L	ND	1.0	07/02/14 05:01	
Vinyl chloride	ug/L	ND	1.0	07/02/14 05:01	
Xylene (Total)	ug/L	ND	3.0	07/02/14 05:01	N2
1,2-Dichloroethane-d4 (S)	%	106	80-120	07/02/14 05:01	
4-Bromofluorobenzene (S)	%	100	80-120	07/02/14 05:01	
Toluene-d8 (S)	%	100	80-120	07/02/14 05:01	

LABORATORY CONTROL SAMPLE: 1404395

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.7	108	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	19.8	99	67-127	N2
1,1,2-Trichloroethane	ug/L	20	23.8	119	67-124	
1,2-Dichloroethane	ug/L	20	22.2	111	70-126	
1,4-Dichlorobenzene	ug/L	20	21.6	108	74-120	
2-Butanone (MEK)	ug/L	100	109	109	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	128	128	59-131	N2
Acetone	ug/L	100	98.2	98	38-134	N2
Benzene	ug/L	20	21.2	106	75-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-346

Pace Project No.: 60172694

LABORATORY CONTROL SAMPLE: 1404395

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	20	22.9	115	68-125	
Bromoform	ug/L	20	21.5	108	65-127	
Bromomethane	ug/L	20	21.7	108	13-157	
Carbon tetrachloride	ug/L	20	20.9	104	70-131	
Chloroethane	ug/L	20	22.2	111	47-133	
Chloroform	ug/L	20	21.1	106	65-127	
cis-1,2-Dichloroethene	ug/L	20	21.6	108	68-127	N2
Ethylbenzene	ug/L	20	21.2	106	74-122	
Methylene chloride	ug/L	20	19.9	99	64-129	
Tetrachloroethene	ug/L	20	20.3	102	73-125	
Toluene	ug/L	20	19.6	98	69-126	
trans-1,2-Dichloroethene	ug/L	20	20.7	103	66-129	
Trichloroethene	ug/L	20	23.7	118	71-123	
Vinyl chloride	ug/L	20	23.8	119	43-129	
Xylene (Total)	ug/L	60	63.6	106	75-121	N2
1,2-Dichloroethane-d4 (S)	%			105	80-120	
4-Bromofluorobenzene (S)	%			98	80-120	
Toluene-d8 (S)	%			99	80-120	

MATRIX SPIKE SAMPLE: 1404396

Parameter	Units	60172688001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	4740	95	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	4950	99	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	4630	93	52-143	
1,2-Dichloroethane	ug/L	ND	5000	4460	89	49-144	
1,4-Dichlorobenzene	ug/L	ND	5000	4520	90	33-140	
2-Butanone (MEK)	ug/L	27600	25000	45600	72	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	23700	94	40-160	N2
Acetone	ug/L	72100	25000	82300	41	10-160	N2
Benzene	ug/L	ND	5000	4370	87	37-151	
Bromodichloromethane	ug/L	ND	5000	4550	91	35-142	
Bromoform	ug/L	ND	5000	4150	83	45-142	
Bromomethane	ug/L	ND	5000	4470	89	10-158	
Carbon tetrachloride	ug/L	ND	5000	4650	93	70-140	
Chloroethane	ug/L	ND	5000	4270	85	19-152	
Chloroform	ug/L	ND	5000	4400	88	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	4300	86	34-147	N2
Ethylbenzene	ug/L	ND	5000	4670	93	40-142	
Methylene chloride	ug/L	256	5000	4110	77	31-144	
Tetrachloroethene	ug/L	ND	5000	4490	90	64-148	
Toluene	ug/L	ND	5000	4150	83	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	4340	87	54-151	
Trichloroethene	ug/L	ND	5000	4500	90	71-149	
Vinyl chloride	ug/L	ND	5000	4070	81	22-146	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-346

Pace Project No.: 60172694

MATRIX SPIKE SAMPLE:		1404396					
Parameter	Units	60172688001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	ND	15000	13500	90	37-144	N2
1,2-Dichloroethane-d4 (S)	%				101	80-120	
4-Bromofluorobenzene (S)	%				100	80-120	
Toluene-d8 (S)	%				100	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-346
Pace Project No.: 60172694

QC Batch: OEXT/44932 Analysis Method: EPA 625
QC Batch Method: EPA 625 Analysis Description: 625 MSS
Associated Lab Samples: 60172694001

METHOD BLANK: 1404630 Matrix: Water
Associated Lab Samples: 60172694001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	07/03/14 12:18	
2,4,6-Trichlorophenol	ug/L	ND	5.0	07/03/14 12:18	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	07/03/14 12:18	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	07/03/14 12:18	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	07/03/14 12:18	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	07/03/14 12:18	
Hexachlorocyclopentadiene	ug/L	ND	5.0	07/03/14 12:18	
Hexachloroethane	ug/L	ND	5.0	07/03/14 12:18	
Naphthalene	ug/L	ND	5.0	07/03/14 12:18	
Nitrobenzene	ug/L	ND	5.0	07/03/14 12:18	
Pentachlorophenol	ug/L	ND	5.0	07/03/14 12:18	
Phenol	ug/L	ND	5.0	07/03/14 12:18	
2,4,6-Tribromophenol (S)	%	78	39-120	07/03/14 12:18	
2-Fluorobiphenyl (S)	%	82	39-120	07/03/14 12:18	
2-Fluorophenol (S)	%	43	17-120	07/03/14 12:18	
Nitrobenzene-d5 (S)	%	83	33-120	07/03/14 12:18	
Phenol-d6 (S)	%	28	11-120	07/03/14 12:18	
Terphenyl-d14 (S)	%	88	45-120	07/03/14 12:18	

LABORATORY CONTROL SAMPLE: 1404631

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	37.8	76	46-120	
2,4,6-Trichlorophenol	ug/L	50	41.3	83	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	30.8	62	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	27.0	54	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	39.3	79	40-133	
Hexachloro-1,3-butadiene	ug/L	50	36.5	73	44-116	
Hexachlorocyclopentadiene	ug/L	100	65.9	66	24-120	
Hexachloroethane	ug/L	50	34.2	68	43-113	
Naphthalene	ug/L	50	37.6	75	48-120	
Nitrobenzene	ug/L	50	39.8	80	48-120	
Pentachlorophenol	ug/L	50	44.1	88	47-120	
Phenol	ug/L	50	13.9	28	16-112	
2,4,6-Tribromophenol (S)	%			89	39-120	
2-Fluorobiphenyl (S)	%			84	39-120	
2-Fluorophenol (S)	%			40	17-120	
Nitrobenzene-d5 (S)	%			79	33-120	
Phenol-d6 (S)	%			27	11-120	
Terphenyl-d14 (S)	%			92	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-346

Pace Project No.: 60172694

MATRIX SPIKE SAMPLE:	1404632	60172477001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3310	66	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4090	82	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	5000	3760	75	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	6410	5000	9480	61	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	3240J	65	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3110	62	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	5440	54	11-120	
Hexachloroethane	ug/L	ND	5000	3000	60	40-113	
Naphthalene	ug/L	ND	5000	3940	67	45-120	
Nitrobenzene	ug/L	ND	5000	3850	77	38-120	
Pentachlorophenol	ug/L	ND	5000	4440	89	43-135	
Phenol	ug/L	9200	5000	11100	38	13-112	
2,4,6-Tribromophenol (S)	%				85	39-120	
2-Fluorobiphenyl (S)	%				76	39-120	
2-Fluorophenol (S)	%				40	17-120	
Nitrobenzene-d5 (S)	%				121	33-120	SO
Phenol-d6 (S)	%				31	11-120	
Terphenyl-d14 (S)	%				81	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-346

Pace Project No.: 60172694

QC Batch:	WET/48830	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60172694001		

METHOD BLANK: 1405280 Matrix: Water
Associated Lab Samples: 60172694001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	07/02/14 17:14	

LABORATORY CONTROL SAMPLE: 1405281

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	32.9	82	78-114	

MATRIX SPIKE SAMPLE: 1405282

Parameter	Units	60172258001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	44	39.1	87	78-114	

SAMPLE DUPLICATE: 1405283

Parameter	Units	60172258002 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-346

Pace Project No.: 60172694

QC Batch:	WET/48831	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60172694001		

METHOD BLANK: 1405294 Matrix: Water
Associated Lab Samples: 60172694001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	07/02/14 17:26	

LABORATORY CONTROL SAMPLE: 1405295

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	22.7	114	64-132	

MATRIX SPIKE SAMPLE: 1405296

Parameter	Units	60172258001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	22	15.4	67	64-132	

SAMPLE DUPLICATE: 1405297

Parameter	Units	60172258002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	ND		34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-346

Pace Project No.: 60172694

QC Batch: WET/48785

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60172694001

METHOD BLANK: 1404008

Matrix: Water

Associated Lab Samples: 60172694001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	07/01/14 10:24	

SAMPLE DUPLICATE: 1404009

Parameter	Units	60172586001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	2840	2860	1	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-346

Pace Project No.: 60172694

QC Batch: WET/48861 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60172694001

SAMPLE DUPLICATE: 1406356

Parameter	Units	60172589001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.4	5.4	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-346

Pace Project No.: 60172694

QC Batch: WET/48775

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60172694001

METHOD BLANK: 1403834

Matrix: Water

Associated Lab Samples: 60172694001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	07/05/14 08:10	

LABORATORY CONTROL SAMPLE: 1403835

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	198	100	85-115	

SAMPLE DUPLICATE: 1403836

Parameter	Units	60172688001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	25100	30000	18	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-346

Pace Project No.: 60172694

QC Batch: WETA/30064

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 60172694001

METHOD BLANK: 1404059

Matrix: Water

Associated Lab Samples: 60172694001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	07/01/14 11:45	

LABORATORY CONTROL SAMPLE: 1404060

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	105	90-110	

MATRIX SPIKE SAMPLE: 1404061

Parameter	Units	60172395001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	3.8	4	7.1	83	90-110	M1

MATRIX SPIKE SAMPLE: 1404062

Parameter	Units	60172399001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.7	83	90-110	M1

SAMPLE DUPLICATE: 1404063

Parameter	Units	60172400001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-346

Pace Project No.: 60172694

QC Batch:	WETA/30112	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60172694001		

METHOD BLANK: 1405609 Matrix: Water
Associated Lab Samples: 60172694001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	07/04/14 07:50	

LABORATORY CONTROL SAMPLE: 1405610

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	49.4	99	90-110	

MATRIX SPIKE SAMPLE: 1405611

Parameter	Units	60172572007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	9230	5000	13600	88	90-110	M1

MATRIX SPIKE SAMPLE: 1405613

Parameter	Units	60172666001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	28.4	50	76.7	97	90-110	

SAMPLE DUPLICATE: 1405612

Parameter	Units	60172572009 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	2800	2770	1	25	

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QUALIFIERS

Project: BRIDGETON LF 316-346

Pace Project No.: 60172694

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.

PQL - Practical Quantitation 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.

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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.

N2 The lab does not hold TNI accreditation for this parameter.

S0 Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-346

Pace Project No.: 60172694

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60172694001	316-346	EPA 200.7	MPRP/27877	EPA 200.7	ICP/21076
60172694001	316-346	EPA 200.7	MPRP/27889	EPA 200.7	ICP/21092
60172694001	316-346	EPA 245.1	MERP/8550	EPA 245.1	MERC/8501
60172694001	316-346	EPA 245.1	MERP/8551	EPA 245.1	MERC/8502
60172694001	316-346	EPA 625	OEXT/44932	EPA 625	MSSV/14397
60172694001	316-346	EPA 624 Low	MSV/62746		
60172694002	TRIP BLANK	EPA 624 Low	MSV/62746		
60172694001	316-346	EPA 1664A	WET/48830		
60172694001	316-346	EPA 1664A	WET/48831		
60172694001	316-346	SM 2540D	WET/48785		
60172694001	316-346	SM 4500-H+B	WET/48861		
60172694001	316-346	SM 5210B	WET/48775	SM 5210B	WET/48864
60172694001	316-346	EPA 350.1	WETA/30064		
60172694001	316-346	EPA 410.4	WETA/30112		

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Sample Condition Upon Receipt

WO#: 60172694



60172694

Client Name: Barr Engineering

Courier: Fed Ex [] UPS [] USPS [x] Client [] Commercial [] Pace [] Other [x] usamedia

Tracking #: Pace Shipping Label Used? Yes [] No [x]

Custody Seal on Cooler/Box Present: Yes [x] No [] Seals intact: Yes [x] No []

Packing Material: Bubble Wrap [] Bubble Bags [x] Foam [x] None [] Other [x] zpc

Thermometer Used: T-239 T-194 Type of Ice: Wet Blue None [] Samples received on ice, cooling process has begun. (circle one)

Cooler Temperature: 16.0 Temperature should be above freezing to 6°C

Date and initials of person examining contents:

Table with 17 rows of checkboxes and handwritten notes regarding chain of custody, sample volume, and analysis details.

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Date:

July 07, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-345
Pace Project No.: 60172695

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 30, 2014. 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,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Bill Abernathy, Feezor Engineering
Kelly Caddy, Barr Engineering
DAN FEEZOR, FEEZOR ENGINEERING
Dana B. Pasi, Barr Engineering Co.
Brian Power, Republic Services
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-345

Pace Project No.: 60172695

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-13-4

Utah Certification #: KS000212013-3

Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-345

Pace Project No.: 60172695

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60172695001	316-345	Water	06/29/14 13:15	06/30/14 13:05
60172695002	TRIP BLANK	Water	06/29/14 13:15	06/30/14 13:05

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-345

Pace Project No.: 60172695

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60172695001	316-345	EPA 200.7	NDJ	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	CRT	1
		EPA 1664A	CRT	1
		SM 2540D	ESM	1
		SM 4500-H+B	NDL	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC1	1
		60172695002	TRIP BLANK	EPA 624 Low

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-345

Pace Project No.: 60172695

Sample: 316-345		Lab ID: 60172695001	Collected: 06/29/14 13:15	Received: 06/30/14 13:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	4210 ug/L		750	2	07/01/14 18:00	07/02/14 13:27	7429-90-5	
Antimony	63.5 ug/L		50.0	1	07/01/14 18:00	07/02/14 13:25	7440-36-0	
Arsenic	1170 ug/L		50.0	1	07/01/14 18:00	07/02/14 13:25	7440-38-2	
Beryllium	ND ug/L		5.0	1	07/01/14 18:00	07/02/14 13:25	7440-41-7	
Cadmium	ND ug/L		25.0	1	07/01/14 18:00	07/02/14 13:25	7440-43-9	
Chromium	210 ug/L		25.0	1	07/01/14 18:00	07/02/14 13:25	7440-47-3	
Cobalt	35.4 ug/L		25.0	1	07/01/14 18:00	07/02/14 13:25	7440-48-4	
Copper	ND ug/L		50.0	1	07/01/14 18:00	07/02/14 13:25	7440-50-8	
Iron	579000 ug/L		250	1	07/01/14 18:00	07/02/14 13:25	7439-89-6	
Lead	65.3 ug/L		25.0	1	07/01/14 18:00	07/02/14 13:25	7439-92-1	
Nickel	116 ug/L		25.0	1	07/01/14 18:00	07/02/14 13:25	7440-02-0	
Selenium	ND ug/L		75.0	1	07/01/14 18:00	07/02/14 13:25	7782-49-2	
Silver	ND ug/L		35.0	1	07/01/14 18:00	07/02/14 13:25	7440-22-4	
Thallium	ND ug/L		100	1	07/01/14 18:00	07/02/14 13:25	7440-28-0	
Zinc	5410 ug/L		500	2	07/01/14 18:00	07/02/14 13:27	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	1670 ug/L		750	2	07/02/14 17:00	07/03/14 16:30	7429-90-5	
Antimony, Dissolved	57.8 ug/L		50.0	1	07/02/14 17:00	07/03/14 16:23	7440-36-0	
Arsenic, Dissolved	1000 ug/L		50.0	1	07/02/14 17:00	07/03/14 16:23	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	07/02/14 17:00	07/03/14 16:23	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	07/02/14 17:00	07/03/14 16:23	7440-43-9	
Chromium, Dissolved	172 ug/L		25.0	1	07/02/14 17:00	07/03/14 16:23	7440-47-3	
Cobalt, Dissolved	26.1 ug/L		25.0	1	07/02/14 17:00	07/03/14 16:23	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	07/02/14 17:00	07/03/14 16:23	7440-50-8	
Iron, Dissolved	321000 ug/L		250	1	07/02/14 17:00	07/03/14 16:23	7439-89-6	
Lead, Dissolved	29.7 ug/L		25.0	1	07/02/14 17:00	07/03/14 16:23	7439-92-1	
Nickel, Dissolved	99.0 ug/L		25.0	1	07/02/14 17:00	07/03/14 16:23	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	07/02/14 17:00	07/03/14 16:23	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	07/02/14 17:00	07/03/14 16:23	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	07/02/14 17:00	07/03/14 16:23	7440-28-0	
Zinc, Dissolved	4880 ug/L		500	2	07/02/14 17:00	07/03/14 16:30	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	ND ug/L		6.0	1	07/02/14 10:15	07/02/14 13:46	7439-97-6	
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND ug/L		6.0	1	07/02/14 10:15	07/02/14 14:24	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	07/02/14 00:00	07/03/14 14:42	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	07/02/14 00:00	07/03/14 14:42	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	07/02/14 00:00	07/03/14 14:42	77-47-4	
Hexachloroethane	ND ug/L		1000	2	07/02/14 00:00	07/03/14 14:42	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	2	07/02/14 00:00	07/03/14 14:42	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	6370 ug/L		4000	2	07/02/14 00:00	07/03/14 14:42		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-345

Pace Project No.: 60172695

Sample: 316-345		Lab ID: 60172695001	Collected: 06/29/14 13:15	Received: 06/30/14 13:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	ND ug/L		1000	2	07/02/14 00:00	07/03/14 14:42	91-20-3	
Nitrobenzene	ND ug/L		1000	2	07/02/14 00:00	07/03/14 14:42	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	07/02/14 00:00	07/03/14 14:42	87-86-5	
Phenol	9510 ug/L		1000	2	07/02/14 00:00	07/03/14 14:42	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	07/02/14 00:00	07/03/14 14:42	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	07/02/14 00:00	07/03/14 14:42	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	128 %		33-120	2	07/02/14 00:00	07/03/14 14:42	4165-60-0	S0
2-Fluorobiphenyl (S)	86 %		39-120	2	07/02/14 00:00	07/03/14 14:42	321-60-8	
Terphenyl-d14 (S)	88 %		45-120	2	07/02/14 00:00	07/03/14 14:42	1718-51-0	
Phenol-d6 (S)	34 %		11-120	2	07/02/14 00:00	07/03/14 14:42	13127-88-3	
2-Fluorophenol (S)	46 %		17-120	2	07/02/14 00:00	07/03/14 14:42	367-12-4	
2,4,6-Tribromophenol (S)	95 %		39-120	2	07/02/14 00:00	07/03/14 14:42	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	76400 ug/L		2000	200		07/02/14 07:52	67-64-1	N2
Benzene	ND ug/L		200	200		07/02/14 07:52	71-43-2	
Bromodichloromethane	ND ug/L		200	200		07/02/14 07:52	75-27-4	
Bromoform	ND ug/L		200	200		07/02/14 07:52	75-25-2	
Bromomethane	ND ug/L		1000	200		07/02/14 07:52	74-83-9	
2-Butanone (MEK)	31200 ug/L		2000	200		07/02/14 07:52	78-93-3	N2
Carbon tetrachloride	ND ug/L		200	200		07/02/14 07:52	56-23-5	
Chloroethane	ND ug/L		200	200		07/02/14 07:52	75-00-3	
Chloroform	ND ug/L		200	200		07/02/14 07:52	67-66-3	
1,4-Dichlorobenzene	ND ug/L		200	200		07/02/14 07:52	106-46-7	
1,2-Dichloroethane	ND ug/L		200	200		07/02/14 07:52	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		200	200		07/02/14 07:52	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		200	200		07/02/14 07:52	156-60-5	
Ethylbenzene	ND ug/L		200	200		07/02/14 07:52	100-41-4	
Methylene chloride	ND ug/L		200	200		07/02/14 07:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2000	200		07/02/14 07:52	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		07/02/14 07:52	79-34-5	N2
Tetrachloroethene	ND ug/L		200	200		07/02/14 07:52	127-18-4	
Toluene	ND ug/L		200	200		07/02/14 07:52	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		07/02/14 07:52	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		07/02/14 07:52	79-00-5	
Trichloroethene	ND ug/L		200	200		07/02/14 07:52	79-01-6	
Vinyl chloride	ND ug/L		200	200		07/02/14 07:52	75-01-4	
Xylene (Total)	ND ug/L		600	200		07/02/14 07:52	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	97 %		80-120	200		07/02/14 07:52	460-00-4	
Toluene-d8 (S)	98 %		80-120	200		07/02/14 07:52	2037-26-5	
1,2-Dichloroethane-d4 (S)	98 %		80-120	200		07/02/14 07:52	17060-07-0	
Preservation pH	6.0		1.0	200		07/02/14 07:52		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	416 mg/L		5.0	1		07/02/14 17:16		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-345

Pace Project No.: 60172695

Sample: 316-345		Lab ID: 60172695001	Collected: 06/29/14 13:15	Received: 06/30/14 13:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	12.2	mg/L	5.0	1		07/02/14 17:28		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	5120	mg/L	5.0	1		07/01/14 10:26		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.4	Std. Units	0.10	1		07/05/14 11:15		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	31000	mg/L	2.0	1	06/30/14 16:44	07/05/14 08:21		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	626	mg/L	20.0	200		07/01/14 12:17	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	51200	mg/L	5000	500		07/04/14 08:01		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-345

Pace Project No.: 60172695

Sample: TRIP BLANK		Lab ID: 60172695002	Collected: 06/29/14 13:15	Received: 06/30/14 13:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		07/02/14 06:19	67-64-1	N2
Benzene	ND ug/L		1.0	1		07/02/14 06:19	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		07/02/14 06:19	75-27-4	
Bromoform	ND ug/L		1.0	1		07/02/14 06:19	75-25-2	
Bromomethane	ND ug/L		5.0	1		07/02/14 06:19	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		07/02/14 06:19	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		07/02/14 06:19	56-23-5	
Chloroethane	ND ug/L		1.0	1		07/02/14 06:19	75-00-3	
Chloroform	ND ug/L		1.0	1		07/02/14 06:19	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		07/02/14 06:19	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		07/02/14 06:19	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		07/02/14 06:19	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		07/02/14 06:19	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		07/02/14 06:19	100-41-4	
Methylene chloride	ND ug/L		1.0	1		07/02/14 06:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		07/02/14 06:19	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		07/02/14 06:19	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		07/02/14 06:19	127-18-4	
Toluene	ND ug/L		1.0	1		07/02/14 06:19	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		07/02/14 06:19	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		07/02/14 06:19	79-00-5	
Trichloroethene	ND ug/L		1.0	1		07/02/14 06:19	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		07/02/14 06:19	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		07/02/14 06:19	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100 %		80-120	1		07/02/14 06:19	460-00-4	
Toluene-d8 (S)	98 %		80-120	1		07/02/14 06:19	2037-26-5	
1,2-Dichloroethane-d4 (S)	100 %		80-120	1		07/02/14 06:19	17060-07-0	
Preservation pH	6.0		1.0	1		07/02/14 06:19		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-345
Pace Project No.: 60172695

QC Batch: MERP/8550 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
Associated Lab Samples: 60172695001

METHOD BLANK: 1404770 Matrix: Water
Associated Lab Samples: 60172695001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	07/02/14 13:15	

LABORATORY CONTROL SAMPLE: 1404771

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.5	111	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1404772 1404773

Parameter	Units	60172403001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Mercury	ug/L	17.5	150	150	170	169	102	101	70-130	1	20		

MATRIX SPIKE SAMPLE: 1404774

Parameter	Units	60172697001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	5.2	104	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-345

Pace Project No.: 60172695

QC Batch: MERP/8551

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60172695001

METHOD BLANK: 1404801

Matrix: Water

Associated Lab Samples: 60172695001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	07/02/14 13:57	

LABORATORY CONTROL SAMPLE: 1404802

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.6	111	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1404803 1404804

Parameter	Units	60172276001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Mercury, Dissolved	ug/L	ND	150	150	158	156	105	104	70-130	1	20		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-345

Pace Project No.: 60172695

QC Batch:	MPRP/27877	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
Associated Lab Samples:	60172695001		

METHOD BLANK: 1404364 Matrix: Water

Associated Lab Samples: 60172695001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	07/02/14 12:39	
Antimony	ug/L	ND	10.0	07/02/14 12:39	
Arsenic	ug/L	ND	10.0	07/02/14 12:39	
Beryllium	ug/L	ND	1.0	07/02/14 12:39	
Cadmium	ug/L	ND	5.0	07/02/14 12:39	
Chromium	ug/L	ND	5.0	07/02/14 12:39	
Cobalt	ug/L	ND	5.0	07/02/14 12:39	
Copper	ug/L	ND	10.0	07/02/14 12:39	
Iron	ug/L	ND	50.0	07/02/14 12:39	
Lead	ug/L	ND	5.0	07/02/14 12:39	
Nickel	ug/L	ND	5.0	07/02/14 12:39	
Selenium	ug/L	ND	15.0	07/02/14 12:39	
Silver	ug/L	ND	7.0	07/02/14 12:39	
Thallium	ug/L	ND	20.0	07/02/14 12:39	
Zinc	ug/L	ND	50.0	07/02/14 12:39	

LABORATORY CONTROL SAMPLE: 1404365

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9720	97	85-115	
Antimony	ug/L	1000	1010	101	85-115	
Arsenic	ug/L	1000	993	99	85-115	
Beryllium	ug/L	1000	980	98	85-115	
Cadmium	ug/L	1000	999	100	85-115	
Chromium	ug/L	1000	982	98	85-115	
Cobalt	ug/L	1000	1030	103	85-115	
Copper	ug/L	1000	993	99	85-115	
Iron	ug/L	10000	10100	101	85-115	
Lead	ug/L	1000	1000	100	85-115	
Nickel	ug/L	1000	1020	102	85-115	
Selenium	ug/L	1000	986	99	85-115	
Silver	ug/L	500	485	97	85-115	
Thallium	ug/L	1000	1020	102	85-115	
Zinc	ug/L	1000	1000	100	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-345

Pace Project No.: 60172695

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1404366												1404367											
Parameter	Units	60172589001		MS	MSD	MS		MSD		% Rec		Max		Qual									
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD												
Aluminum	ug/L	2020	50000	50000	51200	53300	98	103	70-130	4	8												
Antimony	ug/L	ND	5000	5000	5380	5510	107	109	70-130	2	7												
Arsenic	ug/L	1080	5000	5000	6690	6900	112	116	70-130	3	10												
Beryllium	ug/L	ND	5000	5000	4710	4730	94	95	70-130	0	7												
Cadmium	ug/L	ND	5000	5000	5260	5380	105	108	70-130	2	10												
Chromium	ug/L	187	5000	5000	4840	4930	93	95	70-130	2	10												
Cobalt	ug/L	30.6	5000	5000	4910	5000	98	99	70-130	2	6												
Copper	ug/L	ND	5000	5000	5400	5520	108	110	70-130	2	11												
Iron	ug/L	317000	50000	50000	365000	375000	96	117	70-130	3	10												
Lead	ug/L	25.9	5000	5000	4570	4670	91	93	70-130	2	10												
Nickel	ug/L	107	5000	5000	4850	4940	95	97	70-130	2	10												
Selenium	ug/L	ND	5000	5000	5900	6080	118	122	70-130	3	10												
Silver	ug/L	ND	2500	2500	2620	2670	105	107	70-130	2	10												
Thallium	ug/L	ND	5000	5000	4300	4380	86	88	70-130	2	6												
Zinc	ug/L	4580	5000	5000	9280	9690	94	102	70-130	4	11												

MATRIX SPIKE SAMPLE: 1404368											
Parameter	Units	60172688001		Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers			
		Result	Spike Conc.								
Aluminum	ug/L		3000	50000	54100	102	70-130				
Antimony	ug/L		55.0	5000	5510	109	70-130				
Arsenic	ug/L		1180	5000	6930	115	70-130				
Beryllium	ug/L		ND	5000	4730	95	70-130				
Cadmium	ug/L		ND	5000	5380	107	70-130				
Chromium	ug/L		206	5000	4940	95	70-130				
Cobalt	ug/L		36.2	5000	5000	99	70-130				
Copper	ug/L		ND	5000	5440	108	70-130				
Iron	ug/L		419000	50000	465000	93	70-130				
Lead	ug/L		36.8	5000	4650	92	70-130				
Nickel	ug/L		114	5000	4940	96	70-130				
Selenium	ug/L		ND	5000	6020	120	70-130				
Silver	ug/L		ND	2500	2630	105	70-130				
Thallium	ug/L		ND	5000	4380	88	70-130				
Zinc	ug/L		5440	5000	10300	96	70-130				

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-345
Pace Project No.: 60172695

QC Batch: MPRP/27889 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60172695001

METHOD BLANK: 1405013 Matrix: Water
Associated Lab Samples: 60172695001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	07/03/14 15:52	
Antimony, Dissolved	ug/L	ND	10.0	07/03/14 15:52	
Arsenic, Dissolved	ug/L	ND	10.0	07/03/14 15:52	
Beryllium, Dissolved	ug/L	ND	1.0	07/03/14 15:52	
Cadmium, Dissolved	ug/L	ND	5.0	07/03/14 15:52	
Chromium, Dissolved	ug/L	ND	5.0	07/03/14 15:52	
Cobalt, Dissolved	ug/L	ND	5.0	07/03/14 15:52	
Copper, Dissolved	ug/L	ND	10.0	07/03/14 15:52	
Iron, Dissolved	ug/L	ND	50.0	07/03/14 15:52	
Lead, Dissolved	ug/L	ND	5.0	07/03/14 15:52	
Nickel, Dissolved	ug/L	ND	5.0	07/03/14 15:52	
Selenium, Dissolved	ug/L	ND	15.0	07/03/14 15:52	
Silver, Dissolved	ug/L	ND	7.0	07/03/14 15:52	
Thallium, Dissolved	ug/L	ND	20.0	07/03/14 15:52	
Zinc, Dissolved	ug/L	ND	50.0	07/03/14 15:52	

LABORATORY CONTROL SAMPLE: 1405014

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10300	103	85-115	
Antimony, Dissolved	ug/L	1000	1030	103	85-115	
Arsenic, Dissolved	ug/L	1000	993	99	85-115	
Beryllium, Dissolved	ug/L	1000	1040	104	85-115	
Cadmium, Dissolved	ug/L	1000	1010	101	85-115	
Chromium, Dissolved	ug/L	1000	993	99	85-115	
Cobalt, Dissolved	ug/L	1000	1030	103	85-115	
Copper, Dissolved	ug/L	1000	1010	101	85-115	
Iron, Dissolved	ug/L	10000	10200	102	85-115	
Lead, Dissolved	ug/L	1000	1030	103	85-115	
Nickel, Dissolved	ug/L	1000	1040	104	85-115	
Selenium, Dissolved	ug/L	1000	1010	101	85-115	
Silver, Dissolved	ug/L	500	493	99	85-115	
Thallium, Dissolved	ug/L	1000	1030	103	85-115	
Zinc, Dissolved	ug/L	1000	998	100	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-345

Pace Project No.: 60172695

Parameter	Units	60172589001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max	RPD	Qual
		Result	Conc.	Spike	Conc.	Result	Conc.	Result	Conc.	% Rec	% Rec						
Aluminum, Dissolved	ug/L	1520	50000	50000	50000	53400	53500	104	104	70-130	0	8					
Antimony, Dissolved	ug/L	53.3	5000	5000	5000	5580	5660	110	112	70-130	2	7					
Arsenic, Dissolved	ug/L	1060	5000	5000	5000	6780	6740	114	114	70-130	1	10					
Beryllium, Dissolved	ug/L	ND	5000	5000	5000	4870	4980	97	100	70-130	2	7					
Cadmium, Dissolved	ug/L	ND	5000	5000	5000	5360	5470	107	109	70-130	2	10					
Chromium, Dissolved	ug/L	183	5000	5000	5000	4900	4980	94	96	70-130	2	10					
Cobalt, Dissolved	ug/L	30.9	5000	5000	5000	4980	5080	99	101	70-130	2	6					
Copper, Dissolved	ug/L	ND	5000	5000	5000	5440	5520	109	110	70-130	1	11					
Iron, Dissolved	ug/L	302000	50000	50000	50000	362000	350000	119	96	70-130	3	10					
Lead, Dissolved	ug/L	ND	5000	5000	5000	4690	4790	93	95	70-130	2	10					
Nickel, Dissolved	ug/L	105	5000	5000	5000	4990	5080	98	100	70-130	2	10					
Selenium, Dissolved	ug/L	ND	5000	5000	5000	6120	6140	122	123	70-130	0	10					
Silver, Dissolved	ug/L	ND	2500	2500	2500	2630	2670	105	106	70-130	2	10					
Thallium, Dissolved	ug/L	ND	5000	5000	5000	4390	4520	88	90	70-130	3	6					
Zinc, Dissolved	ug/L	4340	5000	5000	5000	9200	9000	97	93	70-130	2	11					

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-345

Pace Project No.: 60172695

QC Batch: MSV/62746 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60172695001, 60172695002

METHOD BLANK: 1404394 Matrix: Water

Associated Lab Samples: 60172695001, 60172695002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	07/02/14 05:01	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	07/02/14 05:01	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	07/02/14 05:01	
1,2-Dichloroethane	ug/L	ND	1.0	07/02/14 05:01	
1,4-Dichlorobenzene	ug/L	ND	1.0	07/02/14 05:01	
2-Butanone (MEK)	ug/L	ND	10.0	07/02/14 05:01	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	07/02/14 05:01	N2
Acetone	ug/L	ND	10.0	07/02/14 05:01	N2
Benzene	ug/L	ND	1.0	07/02/14 05:01	
Bromodichloromethane	ug/L	ND	1.0	07/02/14 05:01	
Bromoform	ug/L	ND	1.0	07/02/14 05:01	
Bromomethane	ug/L	ND	5.0	07/02/14 05:01	
Carbon tetrachloride	ug/L	ND	1.0	07/02/14 05:01	
Chloroethane	ug/L	ND	1.0	07/02/14 05:01	
Chloroform	ug/L	ND	1.0	07/02/14 05:01	
cis-1,2-Dichloroethene	ug/L	ND	1.0	07/02/14 05:01	N2
Ethylbenzene	ug/L	ND	1.0	07/02/14 05:01	
Methylene chloride	ug/L	ND	1.0	07/02/14 05:01	
Tetrachloroethene	ug/L	ND	1.0	07/02/14 05:01	
Toluene	ug/L	ND	1.0	07/02/14 05:01	
trans-1,2-Dichloroethene	ug/L	ND	1.0	07/02/14 05:01	
Trichloroethene	ug/L	ND	1.0	07/02/14 05:01	
Vinyl chloride	ug/L	ND	1.0	07/02/14 05:01	
Xylene (Total)	ug/L	ND	3.0	07/02/14 05:01	N2
1,2-Dichloroethane-d4 (S)	%	106	80-120	07/02/14 05:01	
4-Bromofluorobenzene (S)	%	100	80-120	07/02/14 05:01	
Toluene-d8 (S)	%	100	80-120	07/02/14 05:01	

LABORATORY CONTROL SAMPLE: 1404395

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.7	108	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	19.8	99	67-127	N2
1,1,2-Trichloroethane	ug/L	20	23.8	119	67-124	
1,2-Dichloroethane	ug/L	20	22.2	111	70-126	
1,4-Dichlorobenzene	ug/L	20	21.6	108	74-120	
2-Butanone (MEK)	ug/L	100	109	109	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	128	128	59-131	N2
Acetone	ug/L	100	98.2	98	38-134	N2
Benzene	ug/L	20	21.2	106	75-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-345

Pace Project No.: 60172695

LABORATORY CONTROL SAMPLE: 1404395

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	20	22.9	115	68-125	
Bromoform	ug/L	20	21.5	108	65-127	
Bromomethane	ug/L	20	21.7	108	13-157	
Carbon tetrachloride	ug/L	20	20.9	104	70-131	
Chloroethane	ug/L	20	22.2	111	47-133	
Chloroform	ug/L	20	21.1	106	65-127	
cis-1,2-Dichloroethene	ug/L	20	21.6	108	68-127	N2
Ethylbenzene	ug/L	20	21.2	106	74-122	
Methylene chloride	ug/L	20	19.9	99	64-129	
Tetrachloroethene	ug/L	20	20.3	102	73-125	
Toluene	ug/L	20	19.6	98	69-126	
trans-1,2-Dichloroethene	ug/L	20	20.7	103	66-129	
Trichloroethene	ug/L	20	23.7	118	71-123	
Vinyl chloride	ug/L	20	23.8	119	43-129	
Xylene (Total)	ug/L	60	63.6	106	75-121	N2
1,2-Dichloroethane-d4 (S)	%			105	80-120	
4-Bromofluorobenzene (S)	%			98	80-120	
Toluene-d8 (S)	%			99	80-120	

MATRIX SPIKE SAMPLE: 1404396

Parameter	Units	60172688001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	4740	95	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	4950	99	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	4630	93	52-143	
1,2-Dichloroethane	ug/L	ND	5000	4460	89	49-144	
1,4-Dichlorobenzene	ug/L	ND	5000	4520	90	33-140	
2-Butanone (MEK)	ug/L	27600	25000	45600	72	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	23700	94	40-160	N2
Acetone	ug/L	72100	25000	82300	41	10-160	N2
Benzene	ug/L	ND	5000	4370	87	37-151	
Bromodichloromethane	ug/L	ND	5000	4550	91	35-142	
Bromoform	ug/L	ND	5000	4150	83	45-142	
Bromomethane	ug/L	ND	5000	4470	89	10-158	
Carbon tetrachloride	ug/L	ND	5000	4650	93	70-140	
Chloroethane	ug/L	ND	5000	4270	85	19-152	
Chloroform	ug/L	ND	5000	4400	88	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	4300	86	34-147	N2
Ethylbenzene	ug/L	ND	5000	4670	93	40-142	
Methylene chloride	ug/L	256	5000	4110	77	31-144	
Tetrachloroethene	ug/L	ND	5000	4490	90	64-148	
Toluene	ug/L	ND	5000	4150	83	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	4340	87	54-151	
Trichloroethene	ug/L	ND	5000	4500	90	71-149	
Vinyl chloride	ug/L	ND	5000	4070	81	22-146	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-345

Pace Project No.: 60172695

MATRIX SPIKE SAMPLE:		1404396					
Parameter	Units	60172688001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	ND	15000	13500	90	37-144	N2
1,2-Dichloroethane-d4 (S)	%				101	80-120	
4-Bromofluorobenzene (S)	%				100	80-120	
Toluene-d8 (S)	%				100	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-345

Pace Project No.: 60172695

QC Batch:	OEXT/44932	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60172695001		

METHOD BLANK: 1404630 Matrix: Water

Associated Lab Samples: 60172695001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	07/03/14 12:18	
2,4,6-Trichlorophenol	ug/L	ND	5.0	07/03/14 12:18	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	07/03/14 12:18	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	07/03/14 12:18	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	07/03/14 12:18	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	07/03/14 12:18	
Hexachlorocyclopentadiene	ug/L	ND	5.0	07/03/14 12:18	
Hexachloroethane	ug/L	ND	5.0	07/03/14 12:18	
Naphthalene	ug/L	ND	5.0	07/03/14 12:18	
Nitrobenzene	ug/L	ND	5.0	07/03/14 12:18	
Pentachlorophenol	ug/L	ND	5.0	07/03/14 12:18	
Phenol	ug/L	ND	5.0	07/03/14 12:18	
2,4,6-Tribromophenol (S)	%	78	39-120	07/03/14 12:18	
2-Fluorobiphenyl (S)	%	82	39-120	07/03/14 12:18	
2-Fluorophenol (S)	%	43	17-120	07/03/14 12:18	
Nitrobenzene-d5 (S)	%	83	33-120	07/03/14 12:18	
Phenol-d6 (S)	%	28	11-120	07/03/14 12:18	
Terphenyl-d14 (S)	%	88	45-120	07/03/14 12:18	

LABORATORY CONTROL SAMPLE: 1404631

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	37.8	76	46-120	
2,4,6-Trichlorophenol	ug/L	50	41.3	83	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	30.8	62	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	27.0	54	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	39.3	79	40-133	
Hexachloro-1,3-butadiene	ug/L	50	36.5	73	44-116	
Hexachlorocyclopentadiene	ug/L	100	65.9	66	24-120	
Hexachloroethane	ug/L	50	34.2	68	43-113	
Naphthalene	ug/L	50	37.6	75	48-120	
Nitrobenzene	ug/L	50	39.8	80	48-120	
Pentachlorophenol	ug/L	50	44.1	88	47-120	
Phenol	ug/L	50	13.9	28	16-112	
2,4,6-Tribromophenol (S)	%			89	39-120	
2-Fluorobiphenyl (S)	%			84	39-120	
2-Fluorophenol (S)	%			40	17-120	
Nitrobenzene-d5 (S)	%			79	33-120	
Phenol-d6 (S)	%			27	11-120	
Terphenyl-d14 (S)	%			92	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-345

Pace Project No.: 60172695

MATRIX SPIKE SAMPLE:		1404632					
Parameter	Units	60172477001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3310	66	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4090	82	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	5000	3760	75	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	6410	5000	9480	61	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	3240J	65	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3110	62	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	5440	54	11-120	
Hexachloroethane	ug/L	ND	5000	3000	60	40-113	
Naphthalene	ug/L	ND	5000	3940	67	45-120	
Nitrobenzene	ug/L	ND	5000	3850	77	38-120	
Pentachlorophenol	ug/L	ND	5000	4440	89	43-135	
Phenol	ug/L	9200	5000	11100	38	13-112	
2,4,6-Tribromophenol (S)	%				85	39-120	
2-Fluorobiphenyl (S)	%				76	39-120	
2-Fluorophenol (S)	%				40	17-120	
Nitrobenzene-d5 (S)	%				121	33-120	SO
Phenol-d6 (S)	%				31	11-120	
Terphenyl-d14 (S)	%				81	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-345

Pace Project No.: 60172695

QC Batch:	WET/48830	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60172695001		

METHOD BLANK: 1405280 Matrix: Water
Associated Lab Samples: 60172695001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	07/02/14 17:14	

LABORATORY CONTROL SAMPLE: 1405281

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	32.9	82	78-114	

MATRIX SPIKE SAMPLE: 1405282

Parameter	Units	60172258001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	44	39.1	87	78-114	

SAMPLE DUPLICATE: 1405283

Parameter	Units	60172258002 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-345

Pace Project No.: 60172695

QC Batch: WET/48831

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60172695001

METHOD BLANK: 1405294

Matrix: Water

Associated Lab Samples: 60172695001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	07/02/14 17:26	

LABORATORY CONTROL SAMPLE: 1405295

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	22.7	114	64-132	

MATRIX SPIKE SAMPLE: 1405296

Parameter	Units	60172258001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	22	15.4	67	64-132	

SAMPLE DUPLICATE: 1405297

Parameter	Units	60172258002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	ND		34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-345

Pace Project No.: 60172695

QC Batch:	WET/48785	Analysis Method:	SM 2540D
QC Batch Method:	SM 2540D	Analysis Description:	2540D Total Suspended Solids
Associated Lab Samples:	60172695001		

METHOD BLANK: 1404008 Matrix: Water

Associated Lab Samples: 60172695001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	07/01/14 10:24	

SAMPLE DUPLICATE: 1404009

Parameter	Units	60172586001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	2840	2860	1	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-345

Pace Project No.: 60172695

QC Batch: WET/48861 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60172695001

SAMPLE DUPLICATE: 1406356

Parameter	Units	60172589001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.4	5.4	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-345

Pace Project No.: 60172695

QC Batch: WET/48775

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60172695001

METHOD BLANK: 1403834

Matrix: Water

Associated Lab Samples: 60172695001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	07/05/14 08:10	

LABORATORY CONTROL SAMPLE: 1403835

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	198	100	85-115	

SAMPLE DUPLICATE: 1403836

Parameter	Units	60172688001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	25100	30000	18	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-345

Pace Project No.: 60172695

QC Batch: WETA/30064

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 60172695001

METHOD BLANK: 1404059

Matrix: Water

Associated Lab Samples: 60172695001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	07/01/14 11:45	

LABORATORY CONTROL SAMPLE: 1404060

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	105	90-110	

MATRIX SPIKE SAMPLE: 1404061

Parameter	Units	60172395001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	3.8	4	7.1	83	90-110	M1

MATRIX SPIKE SAMPLE: 1404062

Parameter	Units	60172399001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.7	83	90-110	M1

SAMPLE DUPLICATE: 1404063

Parameter	Units	60172400001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-345
Pace Project No.: 60172695

QC Batch: WETA/30112 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 60172695001

METHOD BLANK: 1405609 Matrix: Water
Associated Lab Samples: 60172695001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	07/04/14 07:50	

LABORATORY CONTROL SAMPLE: 1405610

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	49.4	99	90-110	

MATRIX SPIKE SAMPLE: 1405611

Parameter	Units	60172572007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	9230	5000	13600	88	90-110	M1

MATRIX SPIKE SAMPLE: 1405613

Parameter	Units	60172666001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	28.4	50	76.7	97	90-110	

SAMPLE DUPLICATE: 1405612

Parameter	Units	60172572009 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	2800	2770	1	25	

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QUALIFIERS

Project: BRIDGETON LF 316-345

Pace Project No.: 60172695

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.

PQL - Practical Quantitation 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.

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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.

N2 The lab does not hold TNI accreditation for this parameter.

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-345

Pace Project No.: 60172695

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60172695001	316-345	EPA 200.7	MPRP/27877	EPA 200.7	ICP/21076
60172695001	316-345	EPA 200.7	MPRP/27889	EPA 200.7	ICP/21092
60172695001	316-345	EPA 245.1	MERP/8550	EPA 245.1	MERC/8501
60172695001	316-345	EPA 245.1	MERP/8551	EPA 245.1	MERC/8502
60172695001	316-345	EPA 625	OEXT/44932	EPA 625	MSSV/14397
60172695001	316-345	EPA 624 Low	MSV/62746		
60172695002	TRIP BLANK	EPA 624 Low	MSV/62746		
60172695001	316-345	EPA 1664A	WET/48830		
60172695001	316-345	EPA 1664A	WET/48831		
60172695001	316-345	SM 2540D	WET/48785		
60172695001	316-345	SM 4500-H+B	WET/48861		
60172695001	316-345	SM 5210B	WET/48775	SM 5210B	WET/48864
60172695001	316-345	EPA 350.1	WETA/30064		
60172695001	316-345	EPA 410.4	WETA/30112		

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Sample Condition Upon Receipt

WO#: 60172695



60172695

Client Name: BARR Engineering

Courier: Fed Ex [] UPS [] USPS [] Client [] Commercial [] Pace [] Other [X] Road

Tracking #: _____ Pace Shipping Label Used? Yes [] No []

Custody Seal on Cooler/Box Present: Yes [X] No [] Seals intact: Yes [X] No []

Packing Material: Bubble Wrap [] Bubble Bags [X] Foam [X] None [] Other []

Thermometer Used: T-239 / T-194 Type of Ice: Wet Blue None [] Samples received on ice, cooling process has begun.

Cooler Temperature: -0.2

Date and initials of person examining contents: JB 6/30

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. pH BOD
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix: WFT		13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	BP35 initial pH 6.0 added 1ml final pH 4.0
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	BP3W initial pH 6.0 added 2.5ml final pH 4.0
Exceptions: VOA, coliform, TOC, P&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Lot # of added preservative
Pace Trip Blank lot # (if purchased): 6/17/14		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: MO

Client Notification/ Resolution: Copy COC to Client? Y [] N [X] Field Data Required? Y [] N [X]

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 7/14

July 09, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON UNTREATED COMMINGLED
Pace Project No.: 60172716

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 30, 2014. 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,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Bill Abernathy, Feezor Engineering
Kelly Caddy, Barr Engineering
DAN FEEZOR, FEEZOR ENGINEERING
Dana B. Pasi, Barr Engineering Co.
Brian Power, Republic Services
Margaret Treanor, Barr Engineering Company



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CERTIFICATIONS

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60172716

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-13-4

Utah Certification #: KS000212013-3

Illinois Certification #: 003097

Dallas Certification IDs:

400 West Bethany Dr Suite 190 75013 Allen TX 75013

Texas Certification #: T104704232-13-5

Kansas Certification #: E-10388

Arkansas Certification #: 88-0647

Oklahoma Certification #: 2012-080

Louisiana Certification #: 02007

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60172716

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60172716001	TCLP SEMI-ANNUAL	Water	06/28/14 17:45	06/30/14 13:05
60172716002	TRIP BLANK	Water	06/28/14 17:45	06/30/14 13:05

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SAMPLE ANALYTE COUNT

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60172716

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60172716001	TCLP SEMI-ANNUAL	EPA 8081	TA	9	PASI-D
		EPA 8151	PMS	3	PASI-D
		EPA 6010	NDJ	7	PASI-K
		EPA 7470	TDS	1	PASI-K
		EPA 8270	JMT	18	PASI-K
		EPA 8260	JKL	13	PASI-K
		EPA 5030B/8260	PRG	28	PASI-K
		EPA 1664A	CRT	1	PASI-K
		SM 2540B	ESM	1	PASI-K
60172716002	TRIP BLANK	EPA 5030B/8260	PRG	28	PASI-K

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60172716

Sample: TCLP SEMI-ANNUAL Lab ID: 60172716001 Collected: 06/28/14 17:45 Received: 06/30/14 13:05 Matrix: Water									
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides, TCLP									
Analytical Method: EPA 8081 Preparation Method: EPA 3510									
Leachate Method/Date: EPA 1311; 07/02/14 16:20									
gamma-BHC (Lindane)	ND mg/L		0.00020	.4	1	07/02/14 16:58	07/07/14 17:15	58-89-9	
Chlordane (Technical)	ND mg/L		0.0050	.03	1	07/02/14 16:58	07/07/14 17:15	57-74-9	
Endrin	ND mg/L		0.00020	.02	1	07/02/14 16:58	07/07/14 17:15	72-20-8	R1
Heptachlor	ND mg/L		0.00020	.008	1	07/02/14 16:58	07/07/14 17:15	76-44-8	
Heptachlor epoxide	ND mg/L		0.00050	.008	1	07/02/14 16:58	07/07/14 17:15	1024-57-3	R1
Methoxychlor	ND mg/L		0.00050	10	1	07/02/14 16:58	07/07/14 17:15	72-43-5	R1
Toxaphene	ND mg/L		0.010	.5	1	07/02/14 16:58	07/07/14 17:15	8001-35-2	
Surrogates									
Decachlorobiphenyl (S)	41 %		40-140		1	07/02/14 16:58	07/07/14 17:15	2051-24-3	
Tetrachloro-m-xylene (S)	91 %		40-140		1	07/02/14 16:58	07/07/14 17:15	877-09-8	
8151 Chlorinate Herbicide TCLP									
Analytical Method: EPA 8151 Preparation Method: EPA 8151									
Leachate Method/Date: EPA 1311; 07/02/14 16:20									
2,4-D	ND mg/L		0.0050	10	10	07/02/14 19:03	07/08/14 16:50	94-75-7	M6,R1
2,4,5-TP (Silvex)	ND mg/L		0.0050	1	10	07/02/14 19:03	07/08/14 16:50	93-72-1	M6
Surrogates									
2,4-DCAA (S)	3180 %		40-140		10	07/02/14 19:03	07/08/14 16:50	19719-28-9	S4
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 07/03/14 00:00									
Arsenic	0.88 mg/L		0.50	5	1	07/03/14 16:00	07/07/14 11:11	7440-38-2	
Barium	3.5 mg/L		2.5	100	1	07/03/14 16:00	07/07/14 11:11	7440-39-3	
Cadmium	ND mg/L		0.050	1	1	07/03/14 16:00	07/07/14 11:11	7440-43-9	
Chromium	0.15 mg/L		0.10	5	1	07/03/14 16:00	07/07/14 11:11	7440-47-3	
Lead	ND mg/L		0.50	5	1	07/03/14 16:00	07/07/14 11:11	7439-92-1	
Selenium	ND mg/L		0.50	1	1	07/03/14 16:00	07/07/14 11:11	7782-49-2	
Silver	ND mg/L		0.10	5	1	07/03/14 16:00	07/07/14 11:11	7440-22-4	
7470 Mercury, TCLP									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Leachate Method/Date: EPA 1311; 07/03/14 00:00									
Mercury	ND mg/L		0.0020	.2	1	07/03/14 16:00	07/07/14 10:18	7439-97-6	
8270 MSSV TCLP Sep Funnel									
Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Leachate Method/Date: EPA 1311; 07/03/14 14:51									
1,4-Dichlorobenzene	ND ug/L		1000	7500	1	07/07/14 00:00	07/08/14 10:31	106-46-7	
2,4-Dinitrotoluene	ND ug/L		1000	130	1	07/07/14 00:00	07/08/14 10:31	121-14-2	
Hexachloro-1,3-butadiene	ND ug/L		1000	500	1	07/07/14 00:00	07/08/14 10:31	87-68-3	
Hexachlorobenzene	ND ug/L		1000	130	1	07/07/14 00:00	07/08/14 10:31	118-74-1	
Hexachloroethane	ND ug/L		1000	3000	1	07/07/14 00:00	07/08/14 10:31	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		1000	200000	1	07/07/14 00:00	07/08/14 10:31	95-48-7	
3&4-Methylphenol(m&p Cresol)	6830 ug/L		2000	200000	1	07/07/14 00:00	07/08/14 10:31		
Nitrobenzene	ND ug/L		1000	2000	1	07/07/14 00:00	07/08/14 10:31	98-95-3	
Pentachlorophenol	ND ug/L		5000	100000	1	07/07/14 00:00	07/08/14 10:31	87-86-5	
Pyridine	ND ug/L		1000	5000	1	07/07/14 00:00	07/08/14 10:31	110-86-1	
2,4,5-Trichlorophenol	ND ug/L		5000	400000	1	07/07/14 00:00	07/08/14 10:31	95-95-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60172716

Sample: TCLP SEMI-ANNUAL **Lab ID: 60172716001** Collected: 06/28/14 17:45 Received: 06/30/14 13:05 Matrix: Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV TCLP Sep Funnel									
Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Leachate Method/Date: EPA 1311; 07/03/14 14:51									
2,4,6-Trichlorophenol	ND	ug/L	1000	2000	1	07/07/14 00:00	07/08/14 10:31	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	91	%	44-120		1	07/07/14 00:00	07/08/14 10:31	4165-60-0	
2-Fluorobiphenyl (S)	73	%	49-120		1	07/07/14 00:00	07/08/14 10:31	321-60-8	
Terphenyl-d14 (S)	74	%	52-122		1	07/07/14 00:00	07/08/14 10:31	1718-51-0	
Phenol-d6 (S)	78	%	36-120		1	07/07/14 00:00	07/08/14 10:31	13127-88-3	
2-Fluorophenol (S)	70	%	37-120		1	07/07/14 00:00	07/08/14 10:31	367-12-4	
2,4,6-Tribromophenol (S)	70	%	36-128		1	07/07/14 00:00	07/08/14 10:31	118-79-6	
8260 MSV TCLP									
Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 07/03/14 14:56									
Benzene	281	ug/L	250	500	5		07/07/14 11:18	71-43-2	
2-Butanone (MEK)	24000	ug/L	5000	200000	5		07/07/14 11:18	78-93-3	
Carbon tetrachloride	ND	ug/L	250	500	5		07/07/14 11:18	56-23-5	
Chlorobenzene	ND	ug/L	250	100000	5		07/07/14 11:18	108-90-7	
Chloroform	ND	ug/L	1000	6000	5		07/07/14 11:18	67-66-3	
1,2-Dichloroethane	ND	ug/L	250	500	5		07/07/14 11:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	250	700	5		07/07/14 11:18	75-35-4	
Tetrachloroethene	ND	ug/L	250	700	5		07/07/14 11:18	127-18-4	
Trichloroethene	ND	ug/L	250	500	5		07/07/14 11:18	79-01-6	
Vinyl chloride	ND	ug/L	100	200	5		07/07/14 11:18	75-01-4	
Surrogates									
1,2-Dichloroethane-d4 (S)	96	%	80-120		5		07/07/14 11:18	17060-07-0	
Toluene-d8 (S)	103	%	80-120		5		07/07/14 11:18	2037-26-5	
4-Bromofluorobenzene (S)	100	%	80-120		5		07/07/14 11:18	460-00-4	
8260 MSV									
Analytical Method: EPA 5030B/8260									
Acetone	68900	ug/L	2500		250		07/02/14 15:05	67-64-1	
Benzene	395	ug/L	250		250		07/02/14 15:05	71-43-2	
Bromodichloromethane	ND	ug/L	250		250		07/02/14 15:05	75-27-4	
Bromoform	ND	ug/L	250		250		07/02/14 15:05	75-25-2	
Bromomethane	ND	ug/L	1250		250		07/02/14 15:05	74-83-9	
2-Butanone (MEK)	30400	ug/L	2500		250		07/02/14 15:05	78-93-3	
Carbon tetrachloride	ND	ug/L	250		250		07/02/14 15:05	56-23-5	
Chloroethane	ND	ug/L	250		250		07/02/14 15:05	75-00-3	
Chloroform	ND	ug/L	250		250		07/02/14 15:05	67-66-3	
1,4-Dichlorobenzene	427	ug/L	250		250		07/02/14 15:05	106-46-7	
1,2-Dichloroethane	ND	ug/L	250		250		07/02/14 15:05	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	250		250		07/02/14 15:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	250		250		07/02/14 15:05	156-60-5	
Ethylbenzene	ND	ug/L	250		250		07/02/14 15:05	100-41-4	
Methylene chloride	ND	ug/L	250		250		07/02/14 15:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2500		250		07/02/14 15:05	108-10-1	
1,1,1,2-Tetrachloroethane	ND	ug/L	250		250		07/02/14 15:05	79-34-5	
Tetrachloroethene	ND	ug/L	250		250		07/02/14 15:05	127-18-4	
Toluene	611	ug/L	250		250		07/02/14 15:05	108-88-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60172716

Sample: TCLP SEMI-ANNUAL		Lab ID: 60172716001	Collected: 06/28/14 17:45	Received: 06/30/14 13:05	Matrix: Water				
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260							
1,1,1-Trichloroethane	ND	ug/L	250		250		07/02/14 15:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	250		250		07/02/14 15:05	79-00-5	
Trichloroethene	ND	ug/L	250		250		07/02/14 15:05	79-01-6	
Vinyl chloride	ND	ug/L	250		250		07/02/14 15:05	75-01-4	
Xylene (Total)	ND	ug/L	750		250		07/02/14 15:05	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99 %		80-120		250		07/02/14 15:05	460-00-4	HS
1,2-Dichloroethane-d4 (S)	105 %		80-120		250		07/02/14 15:05	17060-07-0	
Toluene-d8 (S)	101 %		80-120		250		07/02/14 15:05	2037-26-5	
Preservation pH	5.0		0.10		250		07/02/14 15:05		pH
HEM, Oil and Grease		Analytical Method: EPA 1664A							
Oil and Grease	15.8	mg/L	5.0		1		07/07/14 10:53		
2540B Total Solids		Analytical Method: SM 2540B							
Total Solids	30000	mg/L	5.0		1		07/01/14 08:47		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60172716

Sample: TRIP BLANK **Lab ID: 60172716002** Collected: 06/28/14 17:45 Received: 06/30/14 13:05 Matrix: Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 5030B/8260									
Acetone	ND	ug/L	10.0		1		07/02/14 14:51	67-64-1	
Benzene	ND	ug/L	1.0		1		07/02/14 14:51	71-43-2	
Bromodichloromethane	ND	ug/L	1.0		1		07/02/14 14:51	75-27-4	
Bromoform	ND	ug/L	1.0		1		07/02/14 14:51	75-25-2	
Bromomethane	ND	ug/L	5.0		1		07/02/14 14:51	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0		1		07/02/14 14:51	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0		1		07/02/14 14:51	56-23-5	
Chloroethane	ND	ug/L	1.0		1		07/02/14 14:51	75-00-3	
Chloroform	ND	ug/L	1.0		1		07/02/14 14:51	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	1.0		1		07/02/14 14:51	106-46-7	
1,2-Dichloroethane	ND	ug/L	1.0		1		07/02/14 14:51	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0		1		07/02/14 14:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0		1		07/02/14 14:51	156-60-5	
Ethylbenzene	ND	ug/L	1.0		1		07/02/14 14:51	100-41-4	
Methylene chloride	ND	ug/L	1.0		1		07/02/14 14:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0		1		07/02/14 14:51	108-10-1	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1		07/02/14 14:51	79-34-5	
Tetrachloroethene	ND	ug/L	1.0		1		07/02/14 14:51	127-18-4	
Toluene	ND	ug/L	1.0		1		07/02/14 14:51	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0		1		07/02/14 14:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0		1		07/02/14 14:51	79-00-5	
Trichloroethene	ND	ug/L	1.0		1		07/02/14 14:51	79-01-6	
Vinyl chloride	ND	ug/L	1.0		1		07/02/14 14:51	75-01-4	
Xylene (Total)	ND	ug/L	3.0		1		07/02/14 14:51	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	105 %		80-120		1		07/02/14 14:51	460-00-4	
1,2-Dichloroethane-d4 (S)	101 %		80-120		1		07/02/14 14:51	17060-07-0	
Toluene-d8 (S)	100 %		80-120		1		07/02/14 14:51	2037-26-5	
Preservation pH	1.0		0.10		1		07/02/14 14:51		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60172716

QC Batch:	MERP/8556	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury TCLP
Associated Lab Samples:	60172716001		

METHOD BLANK: 1406003 Matrix: Water

Associated Lab Samples: 60172716001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/L	ND	0.0020	07/07/14 09:38	

LABORATORY CONTROL SAMPLE: 1406004

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.005	0.0047	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1406005 1406006

Parameter	Units	60172142006 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Mercury	mg/L	ND	.015	.015	0.015	0.015	98	103	75-125	4	20		

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED
Pace Project No.: 60172716

QC Batch: MPRP/27915 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET TCLP
Associated Lab Samples: 60172716001

METHOD BLANK: 1405946 Matrix: Water
Associated Lab Samples: 60172716001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.50	07/07/14 10:30	
Barium	mg/L	ND	2.5	07/07/14 10:30	
Cadmium	mg/L	ND	0.050	07/07/14 10:30	
Chromium	mg/L	ND	0.10	07/07/14 10:30	
Lead	mg/L	ND	0.50	07/07/14 10:30	
Selenium	mg/L	ND	0.50	07/07/14 10:30	
Silver	mg/L	ND	0.10	07/07/14 10:30	

LABORATORY CONTROL SAMPLE: 1405948

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	1	0.95	95	80-120	
Barium	mg/L	1	1.0	101	80-120	
Cadmium	mg/L	1	0.96	96	80-120	
Chromium	mg/L	1	1.0	101	80-120	
Lead	mg/L	1	0.99	99	80-120	
Selenium	mg/L	1	0.92	92	80-120	
Silver	mg/L	.5	0.48	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1405949 1405954

Parameter	Units	60172142006		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
Arsenic	mg/L	ND	10	10	10.0	10.1	100	101	75-125	1	20		
Barium	mg/L	ND	10	10	10.4	10.3	103	102	75-125	1	20		
Cadmium	mg/L	ND	10	10	10	10.0	100	100	75-125	0	20		
Chromium	mg/L	ND	10	10	10.4	10.3	104	103	75-125	1	20		
Lead	mg/L	ND	10	10	10	10.0	100	100	75-125	1	20		
Selenium	mg/L	ND	10	10	9.8	9.8	98	98	75-125	1	20		
Silver	mg/L	ND	5	5	5.0	5.0	101	101	75-125	0	20		

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60172716

QC Batch: MSV/62817 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV TCLP
Associated Lab Samples: 60172716001

METHOD BLANK: 1405924 Matrix: Water

Associated Lab Samples: 60172716001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	50.0	07/07/14 10:01	
1,2-Dichloroethane	ug/L	ND	50.0	07/07/14 10:01	
2-Butanone (MEK)	ug/L	ND	1000	07/07/14 10:01	
Benzene	ug/L	ND	50.0	07/07/14 10:01	
Carbon tetrachloride	ug/L	ND	50.0	07/07/14 10:01	
Chlorobenzene	ug/L	ND	50.0	07/07/14 10:01	
Chloroform	ug/L	ND	200	07/07/14 10:01	
Tetrachloroethene	ug/L	ND	50.0	07/07/14 10:01	
Trichloroethene	ug/L	ND	50.0	07/07/14 10:01	
Vinyl chloride	ug/L	ND	20.0	07/07/14 10:01	
1,2-Dichloroethane-d4 (S)	%	97	80-120	07/07/14 10:01	
4-Bromofluorobenzene (S)	%	98	80-120	07/07/14 10:01	
Toluene-d8 (S)	%	101	80-120	07/07/14 10:01	

LABORATORY CONTROL SAMPLE: 1405925

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	1000	942	94	78-126	
1,2-Dichloroethane	ug/L	1000	1010	101	77-123	
2-Butanone (MEK)	ug/L	5000	4190	84	52-145	
Benzene	ug/L	1000	1020	102	80-120	
Carbon tetrachloride	ug/L	1000	1170	117	78-128	
Chlorobenzene	ug/L	1000	1010	101	80-120	
Chloroform	ug/L	1000	1040	104	79-120	
Tetrachloroethene	ug/L	1000	1010	101	80-121	
Trichloroethene	ug/L	1000	1100	110	80-120	
Vinyl chloride	ug/L	1000	657	66	59-120	
1,2-Dichloroethane-d4 (S)	%			103	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Toluene-d8 (S)	%			108	80-120	

MATRIX SPIKE SAMPLE: 1405926

Parameter	Units	60172236001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	ND	1000	915	92	60-144	
1,2-Dichloroethane	ug/L	ND	1000	985	98	49-148	
2-Butanone (MEK)	ug/L	ND	5000	3950	79	36-145	
Benzene	ug/L	ND	1000	996	100	37-157	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60172716

MATRIX SPIKE SAMPLE:		1405926		60172236001		Spike		MS		MS		% Rec		Qualifiers	
Parameter	Units	Result	Conc.	Result	% Rec	Result	% Rec	Limits							
Carbon tetrachloride	ug/L	ND	1000	1100	110	68-142									
Chlorobenzene	ug/L	ND	1000	971	97	66-133									
Chloroform	ug/L	ND	1000	1060	103	66-127									
Tetrachloroethene	ug/L	ND	1000	1020	102	69-133									
Trichloroethene	ug/L	ND	1000	1050	105	61-135									
Vinyl chloride	ug/L	ND	1000	610	61	44-128									
1,2-Dichloroethane-d4 (S)	%				94	80-120									
4-Bromofluorobenzene (S)	%				101	80-120									
Toluene-d8 (S)	%				103	80-120									

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60172716

QC Batch: MSV/62745 Analysis Method: EPA 5030B/8260
 QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
 Associated Lab Samples: 60172716001, 60172716002

METHOD BLANK: 1404335 Matrix: Water

Associated Lab Samples: 60172716001, 60172716002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	07/02/14 14:36	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	07/02/14 14:36	
1,1,2-Trichloroethane	ug/L	ND	1.0	07/02/14 14:36	
1,2-Dichloroethane	ug/L	ND	1.0	07/02/14 14:36	
1,4-Dichlorobenzene	ug/L	ND	1.0	07/02/14 14:36	
2-Butanone (MEK)	ug/L	ND	10.0	07/02/14 14:36	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	07/02/14 14:36	
Acetone	ug/L	ND	10.0	07/02/14 14:36	
Benzene	ug/L	ND	1.0	07/02/14 14:36	
Bromodichloromethane	ug/L	ND	1.0	07/02/14 14:36	
Bromoform	ug/L	ND	1.0	07/02/14 14:36	
Bromomethane	ug/L	ND	5.0	07/02/14 14:36	
Carbon tetrachloride	ug/L	ND	1.0	07/02/14 14:36	
Chloroethane	ug/L	ND	1.0	07/02/14 14:36	
Chloroform	ug/L	ND	1.0	07/02/14 14:36	
cis-1,2-Dichloroethene	ug/L	ND	1.0	07/02/14 14:36	
Ethylbenzene	ug/L	ND	1.0	07/02/14 14:36	
Methylene chloride	ug/L	ND	1.0	07/02/14 14:36	
Tetrachloroethene	ug/L	ND	1.0	07/02/14 14:36	
Toluene	ug/L	ND	1.0	07/02/14 14:36	
trans-1,2-Dichloroethene	ug/L	ND	1.0	07/02/14 14:36	
Trichloroethene	ug/L	ND	1.0	07/02/14 14:36	
Vinyl chloride	ug/L	ND	1.0	07/02/14 14:36	
Xylene (Total)	ug/L	ND	3.0	07/02/14 14:36	
1,2-Dichloroethane-d4 (S)	%	100	80-120	07/02/14 14:36	
4-Bromofluorobenzene (S)	%	101	80-120	07/02/14 14:36	
Toluene-d8 (S)	%	100	80-120	07/02/14 14:36	

LABORATORY CONTROL SAMPLE: 1404336

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.8	99	80-121	
1,1,2,2-Tetrachloroethane	ug/L	20	19.3	96	73-124	
1,1,2-Trichloroethane	ug/L	20	19.8	99	80-120	
1,2-Dichloroethane	ug/L	20	19.9	100	77-123	
1,4-Dichlorobenzene	ug/L	20	20.5	103	80-120	
2-Butanone (MEK)	ug/L	100	96.6	97	52-145	
4-Methyl-2-pentanone (MIBK)	ug/L	100	101	101	71-131	
Acetone	ug/L	100	97.8	98	32-155	
Benzene	ug/L	20	20.3	102	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60172716

LABORATORY CONTROL SAMPLE: 1404336

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	20	20.3	102	80-120	
Bromoform	ug/L	20	20.4	102	73-124	
Bromomethane	ug/L	20	21.6	108	31-144	
Carbon tetrachloride	ug/L	20	20.1	101	78-128	
Chloroethane	ug/L	20	19.3	97	55-137	
Chloroform	ug/L	20	20.0	100	79-120	
cis-1,2-Dichloroethene	ug/L	20	21.2	106	80-120	
Ethylbenzene	ug/L	20	20.6	103	80-121	
Methylene chloride	ug/L	20	20.0	100	73-126	
Tetrachloroethene	ug/L	20	21.1	105	80-121	
Toluene	ug/L	20	19.9	99	80-122	
trans-1,2-Dichloroethene	ug/L	20	19.8	99	79-121	
Trichloroethene	ug/L	20	21.5	107	80-120	
Vinyl chloride	ug/L	20	18.5	93	59-120	
Xylene (Total)	ug/L	60	63.0	105	80-121	
1,2-Dichloroethane-d4 (S)	%			98	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			99	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED
 Pace Project No.: 60172716

QC Batch: OEXT/4176 Analysis Method: EPA 8081
 QC Batch Method: EPA 3510 Analysis Description: 8081 GCS TCLP Pesticides
 Associated Lab Samples: 60172716001

METHOD BLANK: 84207 Matrix: Water
 Associated Lab Samples: 60172716001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chlordane (Technical)	mg/L	ND	0.00050	07/07/14 12:57	
Endrin	mg/L	ND	0.000020	07/07/14 12:57	
gamma-BHC (Lindane)	mg/L	ND	0.000020	07/07/14 12:57	
Heptachlor	mg/L	ND	0.000020	07/07/14 12:57	
Heptachlor epoxide	mg/L	ND	0.000050	07/07/14 12:57	
Methoxychlor	mg/L	ND	0.000050	07/07/14 12:57	
Toxaphene	mg/L	ND	0.0010	07/07/14 12:57	
Decachlorobiphenyl (S)	%	88	40-140	07/07/14 12:57	
Tetrachloro-m-xylene (S)	%	84	40-140	07/07/14 12:57	

LABORATORY CONTROL SAMPLE: 84208

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlordane (Technical)	mg/L		ND			
Endrin	mg/L	.001	0.0010	104	40-140	
gamma-BHC (Lindane)	mg/L	.001	0.0010	100	40-140	
Heptachlor	mg/L	.001	0.00094	94	40-140	
Heptachlor epoxide	mg/L	.001	0.00099	99	40-140	
Methoxychlor	mg/L	.001	0.0011	115	40-140	
Toxaphene	mg/L		ND			
Decachlorobiphenyl (S)	%			104	40-140	
Tetrachloro-m-xylene (S)	%			83	40-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 84209 84210

Parameter	Units	60172716001 Result	MS Spike Conc.	MSD Spike Conc.	84209		84210		% Rec Limits	RPD	Max RPD	Qual
					MS Result	MSD Result	MS % Rec	MSD % Rec				
Chlordane (Technical)	mg/L	ND			ND	ND					40	
Endrin	mg/L	ND	.01	.01	0.011	0.0066	106	66	40-140	46	40 R1	
gamma-BHC (Lindane)	mg/L	ND	.01	.01	0.010	0.0072	101	72	40-140	33	40	
Heptachlor	mg/L	ND	.01	.01	0.013	0.0090	129	90	40-140	35	40	
Heptachlor epoxide	mg/L	ND	.01	.01	0.0088	0.0057	88	57	40-140	43	40 R1	
Methoxychlor	mg/L	ND	.01	.01	0.0098	0.0047	98	47	40-140	70	40 R1	
Toxaphene	mg/L	ND			ND	ND					40	
Decachlorobiphenyl (S)	%						43	28	40-140			S0
Tetrachloro-m-xylene (S)	%						99	78	40-140			

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED
Pace Project No.: 60172716

QC Batch: OEXT/4175 Analysis Method: EPA 8151
QC Batch Method: EPA 8151 Analysis Description: 8151 GCS TCLP Herbicides
Associated Lab Samples: 60172716001

METHOD BLANK: 84203 Matrix: Water
Associated Lab Samples: 60172716001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-TP (Silvex)	mg/L	ND	0.000050	07/07/14 17:13	
2,4-D	mg/L	ND	0.000050	07/07/14 17:13	
2,4-DCAA (S)	%.	100	40-140	07/07/14 17:13	

LABORATORY CONTROL SAMPLE: 84204

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-TP (Silvex)	mg/L	.002	0.0023	117	10-140	
2,4-D	mg/L	.002	0.0026	131	40-140	
2,4-DCAA (S)	%.			120	40-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 84205 84206

Parameter	Units	60172716001		84206		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
2,4,5-TP (Silvex)	mg/L	ND	.02	.02	ND	0.18	0	877	10-140	40	M6
2,4-D	mg/L	ND	.02	.02	0.32	0.13	1590	633	40-140	86	40 M6, R1
2,4-DCAA (S)	%.						2870	433	40-140		S4

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60172716

QC Batch: OEXT/44972

Analysis Method: EPA 8270

QC Batch Method: EPA 3510

Analysis Description: 8270 TCLP MSSV

Associated Lab Samples: 60172716001

METHOD BLANK: 1406440

Matrix: Water

Associated Lab Samples: 60172716001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dichlorobenzene	ug/L	ND	100	07/08/14 08:46	
2,4,5-Trichlorophenol	ug/L	ND	500	07/08/14 08:46	
2,4,6-Trichlorophenol	ug/L	ND	100	07/08/14 08:46	
2,4-Dinitrotoluene	ug/L	ND	100	07/08/14 08:46	
2-Methylphenol(o-Cresol)	ug/L	ND	100	07/08/14 08:46	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	200	07/08/14 08:46	
Hexachloro-1,3-butadiene	ug/L	ND	100	07/08/14 08:46	
Hexachlorobenzene	ug/L	ND	100	07/08/14 08:46	
Hexachloroethane	ug/L	ND	100	07/08/14 08:46	
Nitrobenzene	ug/L	ND	100	07/08/14 08:46	
Pentachlorophenol	ug/L	ND	500	07/08/14 08:46	
Pyridine	ug/L	ND	100	07/08/14 08:46	
2,4,6-Tribromophenol (S)	%	65	36-128	07/08/14 08:46	
2-Fluorobiphenyl (S)	%	70	49-120	07/08/14 08:46	
2-Fluorophenol (S)	%	63	37-120	07/08/14 08:46	
Nitrobenzene-d5 (S)	%	67	44-120	07/08/14 08:46	
Phenol-d6 (S)	%	63	36-120	07/08/14 08:46	
Terphenyl-d14 (S)	%	68	52-122	07/08/14 08:46	

LABORATORY CONTROL SAMPLE: 1406441

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	500	320	64	47-120	
2,4,5-Trichlorophenol	ug/L	500	343J	69	51-124	
2,4,6-Trichlorophenol	ug/L	500	342	68	46-120	
2,4-Dinitrotoluene	ug/L	500	305	61	38-120	
2-Methylphenol(o-Cresol)	ug/L	500	311	62	46-120	
3&4-Methylphenol(m&p Cresol)	ug/L	1000	626	63	41-120	
Hexachloro-1,3-butadiene	ug/L	500	306	61	49-120	
Hexachlorobenzene	ug/L	500	342	68	50-120	
Hexachloroethane	ug/L	500	305	61	38-120	
Nitrobenzene	ug/L	500	335	67	49-120	
Pentachlorophenol	ug/L	500	324J	65	35-125	
Pyridine	ug/L	500	197	39	10-120	
2,4,6-Tribromophenol (S)	%			62	36-128	
2-Fluorobiphenyl (S)	%			67	49-120	
2-Fluorophenol (S)	%			59	37-120	
Nitrobenzene-d5 (S)	%			65	44-120	
Phenol-d6 (S)	%			60	36-120	
Terphenyl-d14 (S)	%			71	52-122	

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60172716

MATRIX SPIKE SAMPLE:	1406442	60172174001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	ND	500	325	65	48-120	
2,4,5-Trichlorophenol	ug/L	ND	500	359J	72	57-120	
2,4,6-Trichlorophenol	ug/L	ND	500	351	70	48-120	
2,4-Dinitrotoluene	ug/L	ND	500	304	61	38-120	
2-Methylphenol(o-Cresol)	ug/L	ND	500	307	61	48-120	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	1000	624	62	47-120	
Hexachloro-1,3-butadiene	ug/L	ND	500	312	62	49-120	
Hexachlorobenzene	ug/L	ND	500	323	65	53-120	
Hexachloroethane	ug/L	ND	500	307	61	38-120	
Nitrobenzene	ug/L	ND	500	328	66	51-120	
Pentachlorophenol	ug/L	ND	500	316J	63	34-131	
Pyridine	ug/L	ND	500	279	56	10-120	
2,4,6-Tribromophenol (S)	%				65	36-128	
2-Fluorobiphenyl (S)	%				69	49-120	
2-Fluorophenol (S)	%				58	37-120	
Nitrobenzene-d5 (S)	%				64	44-120	
Phenol-d6 (S)	%				59	36-120	
Terphenyl-d14 (S)	%				69	52-122	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60172716

QC Batch:	WET/48865	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60172716001		

METHOD BLANK: 1406481 Matrix: Water

Associated Lab Samples: 60172716001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	07/07/14 10:50	

LABORATORY CONTROL SAMPLE: 1406482

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	39.6	99	78-114	

MATRIX SPIKE SAMPLE: 1406547

Parameter	Units	60172326002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	121	44	161	92	78-114	

SAMPLE DUPLICATE: 1406484

Parameter	Units	60172311001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	1.3J		18	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60172716

QC Batch: WET/48784

Analysis Method: SM 2540B

QC Batch Method: SM 2540B

Analysis Description: 2540B Total Solids

Associated Lab Samples: 60172716001

METHOD BLANK: 1404004

Matrix: Water

Associated Lab Samples: 60172716001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	mg/L	ND	5.0	07/01/14 08:46	

LABORATORY CONTROL SAMPLE: 1404005

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	mg/L	1000	988	99	80-120	

SAMPLE DUPLICATE: 1404006

Parameter	Units	60172716001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	mg/L	30000	30400	1	10	

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QUALIFIERS

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60172716

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.

PQL - Practical Quantitation 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.

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

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

TNI - The NELAC Institute.

LABORATORIES

PASI-D Pace Analytical Services - Dallas

PASI-K Pace Analytical Services - Kansas City

BATCH QUALIFIERS

Batch: MSV/62745

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

ANALYTE QUALIFIERS

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

R1 RPD value was outside control limits.

S0 Surrogate recovery outside laboratory control limits.

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

pH Post-analysis pH measurement indicates insufficient VOA sample preservation.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60172716

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60172716001	TCLP SEMI-ANNUAL	EPA 3510	OEXT/4176	EPA 8081	GCSV/2715
60172716001	TCLP SEMI-ANNUAL	EPA 8151	OEXT/4175	EPA 8151	GCSV/2718
60172716001	TCLP SEMI-ANNUAL	EPA 3010	MPRP/27915	EPA 6010	ICP/21107
60172716001	TCLP SEMI-ANNUAL	EPA 7470	MERP/8556	EPA 7470	MERC/8510
60172716001	TCLP SEMI-ANNUAL	EPA 3510	OEXT/44972	EPA 8270	MSSV/14415
60172716001	TCLP SEMI-ANNUAL	EPA 8260	MSV/62817		
60172716001	TCLP SEMI-ANNUAL	EPA 5030B/8260	MSV/62745		
60172716002	TRIP BLANK	EPA 5030B/8260	MSV/62745		
60172716001	TCLP SEMI-ANNUAL	EPA 1664A	WET/48865		
60172716001	TCLP SEMI-ANNUAL	SM 2540B	WET/48784		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO# : 60172716

 60172716

Client Name: Bart Engineering

Courier: Fed Ex UPS USPS Client Commercial Pace Other Cromwell

Tracking #: _____ Pace Shipping Label Used? Yes No

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other zpc

Thermometer Used: T-239 / T-194 Type of Ice: Wet Blue None Samples received on ice, cooling process has begun. (circle one)

Cooler Temperature: 1.8

Date and initials of person examining contents: alt 11/30/11

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>only 3 O&G's received, no other test containers</u>
Includes date/time/ID/analyses	Matrix: <u>WT</u>	13.
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Exceptions: <u>VOA</u> , coliform, TOC, <u>O&G</u> , WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Lot # of added preservative
Pace Trip Blank lot # (if purchased): <u>031014-305P</u>		15.
Headspace in VOA vials (>6mm):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>3 of 3 O&G's have headspace 1 of 2 TB have headspace</u>
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____



**Sample Condition Upon Receipt
Dallas**

Client Name: Pace-Kansas Project Work order: 7516751

Courier: FedEX UPS USPS Client Courier LSO PACE Other: _____

Tracking#: 6113 5276 5039

Custody Seal on Cooler/Box: Yes No Seals Intact: Yes No NA

Packing Material: Bubble Wrap Bubble Bags Foam None Other

Thermometer Used: IR-01 Type of Ice: Wet Blue None Sample Received on ice, cooling process has begun

Cooler Temp: 4.8°C (Temp should be above freezing to 6°C)

Chain of Custody Present	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>	1
Chain of Custody filled out	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>	2
Chain of Custody relinquished	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>	3
Sampler name & signature on COC	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA <input type="checkbox"/>	4
Sample received within HT	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>	5
Short HT analyses (<72 hrs)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA <input type="checkbox"/>	6
Rush TAT requested	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>	7
Sufficient Volume received	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>	8
Correct Container used	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>	9
Pace Container used	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>	
Container Intact	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>	10
Unpreserved 5035A soil frozen within 48 hrs	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>	11
Filtered volume received for Dissolved tests	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>	12
Sample labels match COC	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>	13
Include date/time/ID/analyses Matrix: <u>Water</u>		
All containers needing preservation have been checked	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>	14a. Lot# of pH strip: _____ pH checked Yes <input type="checkbox"/> No <input type="checkbox"/> pH<2 <input type="checkbox"/> pH>9 <input type="checkbox"/> pH>12 <input type="checkbox"/> Lot# of Iodine strip: _____ Lot# of Lead Acetate strip: _____
Do containers require preservation at the lab	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>	14b. Preservation: _____ Lot#: _____
All containers needing preservation are found to be in Compliance with EPA recommendation	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>	14c.
Exception: VOA, coliform, O&G	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Trip Blank present	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>	15
Trip Blank Custody Seals Intact	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>	
Pace Trip Blank Lot# (if purchased): _____		
Headspace in VOA (>6mm)	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>	16
Project sampled in USDA Regulated Area:	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>	17. List State _____

Client Notification/Resolution/Comments:

Person Contacted: _____ Date: _____

Comments/Resolution: _____

Person Examining Contents: klw Date: 7-2-14

Sample Container Count



COC PAGE 1 of 1
 COC ID# _____

Pace Project # 7516751

Sample Line Item	BP2N	AG1U	VG9U	VG9H	BP2S	BP1U	BP2U	BG1H	AG1S	BP2O	SP5T	WGFU	WGKU	Comments
1		1												
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														

Container Codes

DG9H	40mL HCL amber vial	AF	Air Filter	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	BP3A	250mL NaOH, Asc Acid plastic	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	WGFU	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
WGKU	8oz wide jar unpreserved	SP5T	120mL Coliform Na Thiosulfate	SP5U	120mL Coliform unpreserved	GN	General unpreserved
Other	Other						

TCLP/SPLP Determination of Percent Solids
 (Only if sample is liquid or semi-liquid. Skip if sample is obviously 100% solid.)



Date: 7/2/14

Batch: 6447

Analyst: ZNA

Balance ID: 600EXTS

Reviewed by: [Signature] 7/9/14

Sample Number	A Weight of Beaker (g)	B Weight of Sample & Beaker (g)	C Weight of Filtrate Container (g)	D Weight of 142-mm TCLP Filter (g)	E Weight of Waste Beaker After Filtration (g)	F Weight of Filtrate & Container (g)	G Weight of Filter and Solid Phase After Filtration (g)	H Weight of Filtrate (g) (F-C)	I Weight of Waste Filtered (g) (E-B)	J Percent WET Solids $\left(\frac{I-H}{I \times 0.01}\right)$	K DRY Weight #1 of Solid Phase plus Filter (g)	L DRY Weight #2 of Solid Phase plus Filter (g) (1)	M Percent DRY Solids $\left(\frac{L-D}{I \times 0.01}\right)$	If Multiphase, Are Phases Compatible (2)
60172028-001	114.1	260.4	281.8	1.3	115.1	421.2	4.7	139.4	145.3	4.06	1.3	T	T	Yes / No / NA
60172716-001	118.3	246.7	284.4	1.3	119.1	404.3	3.8	119.9	127.6	6.03	1.4	NA	Ø	Yes / No / NA
60172029-001	131.0	287.2	279.0	1.3	121.7	439.0	3.5	160	165.5	3.32	1.6			Yes / No / NA
60172174-001	120.1	271.6	281.1	1.3	120.9	425.5	2.9	144.4	150.7	4.18	1.3			Yes / No / NA
60172175-001	118.4	272.3	280.4	1.3	119.3	428.3	3.3	147.9	153.0	3.33	1.3			Yes / No / NA
60172255-001	121.5	258.1	280.9	1.3	122.4	411.7	3.1	130.8	135.7	3.61	1.4			Yes / No / NA
60172275-001	116.6	216.2	282.4	1.3	118.4	349.6	27.9	62.2	97.8	31.29				Yes / No / NA
60172345-001	120.1	255.7	280.7	1.3	120.9	407.6	2.8	127.4	134.8	5.49	1.3			Yes / No / NA
60172349-001	121.6	280.6	280.6	1.3	122.5	435.4	3.2	154.8			1.8			Yes / No / NA
60172350-001	114.3	278.9	278.9	1.3	115.0	426.3	1.7	147.4	153.8	4.16	1.3			Yes / No / NA
60172349-001	116.7	195.2	279.9	1.3	117.1	354.6	2.9	74.7	78.1	4.35				Yes / No / NA
														Yes / No / NA

NOTE: If Wet Solids are ≥0.5 and <5% and a small amount of liquid is entrapped in the filter, then determine Percent Dry Solids. If the entrapped liquid is oily (non-aqueous) do not determine Percent Dry Solids. If Solids are <0.5%, tumbling is not required because the filtrate is considered to be the TCLP/SPLP extract.

- Dry Weight #1 and Dry Weight #2 must be within 1% of each other. If the weights are within 1% of each other, use Dry Weight #2 in further calculations. If not within 1%, continue drying and weighing until two successive weighings are within 1%.
- If compatible, combine the filtered liquid resulting from extraction with the initial liquid phase of sample. If the initial liquid phase is not compatible with the filtered liquid resulting from extraction, do not combine. Analyze liquids separately and combine the results mathematically.

If solids are ≥5.0 and <100%	Weight of waste to charge the ZHE = $\frac{25}{\text{Percent solids}} \times 100$
	Weight of waste to filter = $\frac{\text{mL of leachate required}}{20 \times \text{Percent solids}} \times 100$