



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

November 24, 2015

Jessica Vickers
Tetra Tech EM Inc.
1955 Evergreen Blvd.
Duluth GA 30096

TEL: (678) 775-3104
FAX: (678) 775-3138

RE: Old Barnwick Mill Fire

Dear Jessica Vickers:

Order No: 1511E55

Analytical Environmental Services, Inc. received 1 samples on 11/16/2015 7:44:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/15-06/30/16.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Dorothy deBruyn
Project Manager

Revision 11/24/2015



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

AES

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 151125Date: _____ Page 1 of 1

COMPANY: Tetra Tech EMI Jessica Vickers		ADDRESS: 1955 Evergreen Blvd. Duluth, GA 30096		ANALYSIS REQUESTED														Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers
PHONE: 662.681.5727		FAX:		<div style="display: flex; flex-wrap: wrap;"> <div>VOCs/SVOCs/metals + Hg</div> <div>TSS</div> <div>Surfactants - NPHAs</div> <div>Oil & Grease</div> <div>Ammonia-NH3</div> <div>Phosphorus</div> <div>Phenols</div> <div>Hex. Chromium</div> <div>Cyanide</div> <div>BOD/COD/TKN</div> <div>total residual chlorine</div> <div>Nitrate - as N</div> <div>Coliform</div> </div>																
SAMPLED BY: Brian Cook		SIGNATURE: <i>[Signature]</i>		PRESERVATION (See codes)														REMARKS		
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)														
1	OBM-RUNOFF-01	11/15/2015	1730	X		SW	X	X	X	X	X	X	X	X	X	X	X	X		
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
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14																				

RELINQUISHED BY: 1: <i>[Signature]</i> 2: 3:	DATE/TIME 11/16/15 7:49a	RECEIVED BY 1: <i>[Signature]</i> 2: 3:	DATE/TIME 11/16/15 7:49a	PROJECT INFORMATION		RECEIPT	
				PROJECT NAME: Old Barwick Mill Fire		Total # of Containers	
				PROJECT #:		Turnaround Time Request <input type="radio"/> Standard 5 Business Days <input type="radio"/> 2 Business Day Rush <input type="radio"/> Next Business Day Rush <input type="radio"/> Same Day Rush (auth req.) <input checked="" type="radio"/> Other ASAP	
				SITE ADDRESS: Lafayette, GA			
				SEND REPORT TO: Jessica Vickers			
SPECIAL INSTRUCTIONS/COMMENTS: - only metals have been preserved (AND) - all other bottle are is unpreserved		SHIPMENT METHOD OUT: / / VIA: IN: <input checked="" type="radio"/> CLIENT <input type="radio"/> FedEx <input type="radio"/> UPS <input type="radio"/> MAIL <input type="radio"/> COURIER <input type="radio"/> GREYHOUND <input type="radio"/> OTHER		INVOICE TO: (IF DIFFERENT FROM ABOVE)		STATE PROGRAM (if any): _____	
				QUOTE #:		E-mail? Y/N; Fax? Y/N	
				PO#:		DATA PACKAGE: I II III IV	

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.

SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Client: Tetra Tech EM Inc.
Project: Old Barnwick Mill Fire
Lab ID: 1511E55

Case Narrative

The client sent unpreserved bottles, they were preserved with the appropriate acid in the lab also the client sent improper container for COLIFORM

The samples for CHLORINE_RES and SM9222D were analyzed out of hold

Metals Analysis by Method 200.8:

LCS-215937 recovery for selenium was outside control limits biased high. Target analyte was not detected in the analytical samples and data is reportable with high bias.

Fecal Coliform Analysis by method SM9222D:

Sample 1511E55-001H was reported prior to completion of confirmation steps, to meet client's rush turnaround request.

Sample 1511E55-001H was received and extracted and/or analyzed outside holding time of 8hrs.

Analytical Environmental Services, Inc
Date: 24-Nov-15

Client: Tetra Tech EM Inc.	Client Sample ID: OBM-RUNOFF-01
Project Name: Old Barnwick Mill Fire	Collection Date: 11/15/2015 5:30:00 PM
Lab ID: 1511E55-001	Matrix: Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Trace Elements by ICP/MS E200.8				(E200.2)					
Arsenic	0.921	J	0.145	5.00	ug/L	215937	1	11/16/2015 18:11	JS
Barium	111		0.166	10.0	ug/L	215937	1	11/16/2015 18:11	JS
Cadmium	0.134	J	0.0195	0.700	ug/L	215937	1	11/16/2015 18:11	JS
Chromium	1.39	J	0.139	5.00	ug/L	215937	1	11/16/2015 18:11	JS
Lead	0.933	J	0.260	1.00	ug/L	215937	1	11/16/2015 18:11	JS
Selenium	1.82	J	0.312	5.00	ug/L	215937	1	11/16/2015 18:11	JS
Silver	BRL		0.0185	1.00	ug/L	215937	1	11/16/2015 18:11	JS
Total Residual Chlorine by SM4500-Cl-G									
Chlorine, Total Residual	BRL	H	0.0336	0.200	mg/L	R304426	1	11/16/2015 11:00	CH
Total Phosphorus E365.1				(E365.1)					
Phosphorus, Total (As P)	0.174		0.010	0.050	mg/L	215750	1	11/16/2015 17:02	FS
Total Oil and Grease (HEM) E1664B				(E1664)					
Oil and Grease	5.0	J	1.0	5.7	mg/L	215895	1	11/16/2015 08:30	GR
Total Mercury E245.1				(E245.1)					
Mercury	0.00004	J	0.00004	0.00020	mg/L	215967	1	11/16/2015 15:51	TA
Total Cyanide (SM4500 CN-C, E)				(SM4500-CN-E)					
Cyanide, Total	BRL		0.001	0.010	mg/L	215972	1	11/16/2015 15:30	PF
TCL-SEMIVOLATILE ORGANICS SW8270D				(SW3510C)					
1,1'-Biphenyl	BRL		1.5	10	ug/L	215950	1	11/16/2015 16:04	YH
2,4,5-Trichlorophenol	BRL		1.7	25	ug/L	215950	1	11/16/2015 16:04	YH
2,4,6-Trichlorophenol	BRL		1.5	10	ug/L	215950	1	11/16/2015 16:04	YH
2,4-Dichlorophenol	BRL		1.5	10	ug/L	215950	1	11/16/2015 16:04	YH
2,4-Dimethylphenol	BRL		1.2	10	ug/L	215950	1	11/16/2015 16:04	YH
2,4-Dinitrophenol	BRL		0.74	25	ug/L	215950	1	11/16/2015 16:04	YH
2,4-Dinitrotoluene	BRL		0.88	10	ug/L	215950	1	11/16/2015 16:04	YH
2,6-Dinitrotoluene	BRL		1.4	10	ug/L	215950	1	11/16/2015 16:04	YH
2-Chloronaphthalene	BRL		1.3	10	ug/L	215950	1	11/16/2015 16:04	YH
2-Chlorophenol	BRL		1.4	10	ug/L	215950	1	11/16/2015 16:04	YH
2-Methylnaphthalene	1.5	J	1.3	10	ug/L	215950	1	11/16/2015 16:04	YH
2-Methylphenol	BRL		1.2	10	ug/L	215950	1	11/16/2015 16:04	YH
2-Nitroaniline	BRL		1.3	25	ug/L	215950	1	11/16/2015 16:04	YH
2-Nitrophenol	BRL		0.95	10	ug/L	215950	1	11/16/2015 16:04	YH
3,3'-Dichlorobenzidine	BRL		1.7	10	ug/L	215950	1	11/16/2015 16:04	YH
3-Nitroaniline	BRL		1.2	25	ug/L	215950	1	11/16/2015 16:04	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
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- > Greater than Result value
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Analytical Environmental Services, Inc

Date: 24-Nov-15

Client: Tetra Tech EM Inc.	Client Sample ID: OBM-RUNOFF-01
Project Name: Old Barnwick Mill Fire	Collection Date: 11/15/2015 5:30:00 PM
Lab ID: 1511E55-001	Matrix: Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D									
4,6-Dinitro-2-methylphenol	BRL		0.89	25	ug/L	215950	1	11/16/2015 16:04	YH
4-Bromophenyl phenyl ether	BRL		1.5	10	ug/L	215950	1	11/16/2015 16:04	YH
4-Chloro-3-methylphenol	BRL		1.1	10	ug/L	215950	1	11/16/2015 16:04	YH
4-Chloroaniline	BRL		1.5	10	ug/L	215950	1	11/16/2015 16:04	YH
4-Chlorophenyl phenyl ether	BRL		1.2	10	ug/L	215950	1	11/16/2015 16:04	YH
4-Methylphenol	BRL		2.1	10	ug/L	215950	1	11/16/2015 16:04	YH
4-Nitroaniline	BRL		0.76	25	ug/L	215950	1	11/16/2015 16:04	YH
4-Nitrophenol	BRL		0.75	25	ug/L	215950	1	11/16/2015 16:04	YH
Acenaphthene	BRL		1.1	10	ug/L	215950	1	11/16/2015 16:04	YH
Acenaphthylene	BRL		1.4	10	ug/L	215950	1	11/16/2015 16:04	YH
Acetophenone	BRL		0.84	10	ug/L	215950	1	11/16/2015 16:04	YH
Anthracene	BRL		1.1	10	ug/L	215950	1	11/16/2015 16:04	YH
Atrazine	BRL		1.3	10	ug/L	215950	1	11/16/2015 16:04	YH
Benz(a)anthracene	BRL		1.2	10	ug/L	215950	1	11/16/2015 16:04	YH
Benzaldehyde	BRL		2.3	10	ug/L	215950	1	11/16/2015 16:04	YH
Benzo(a)pyrene	BRL		0.64	10	ug/L	215950	1	11/16/2015 16:04	YH
Benzo(b)fluoranthene	BRL		1.0	10	ug/L	215950	1	11/16/2015 16:04	YH
Benzo(g,h,i)perylene	BRL		0.83	10	ug/L	215950	1	11/16/2015 16:04	YH
Benzo(k)fluoranthene	BRL		1.0	10	ug/L	215950	1	11/16/2015 16:04	YH
Bis(2-chloroethoxy)methane	BRL		1.1	10	ug/L	215950	1	11/16/2015 16:04	YH
Bis(2-chloroethyl)ether	BRL		2.0	10	ug/L	215950	1	11/16/2015 16:04	YH
Bis(2-chloroisopropyl)ether	BRL		0.98	10	ug/L	215950	1	11/16/2015 16:04	YH
Bis(2-ethylhexyl)phthalate	BRL		1.1	10	ug/L	215950	1	11/16/2015 16:04	YH
Butyl benzyl phthalate	BRL		1.0	10	ug/L	215950	1	11/16/2015 16:04	YH
Caprolactam	BRL		0.92	10	ug/L	215950	1	11/16/2015 16:04	YH
Carbazole	BRL		0.99	10	ug/L	215950	1	11/16/2015 16:04	YH
Chrysene	BRL		1.2	10	ug/L	215950	1	11/16/2015 16:04	YH
Di-n-butyl phthalate	BRL		1.1	10	ug/L	215950	1	11/16/2015 16:04	YH
Di-n-octyl phthalate	BRL		1.2	10	ug/L	215950	1	11/16/2015 16:04	YH
Dibenz(a,h)anthracene	BRL		0.80	10	ug/L	215950	1	11/16/2015 16:04	YH
Dibenzofuran	BRL		1.2	10	ug/L	215950	1	11/16/2015 16:04	YH
Diethyl phthalate	BRL		0.88	10	ug/L	215950	1	11/16/2015 16:04	YH
Dimethyl phthalate	BRL		1.1	10	ug/L	215950	1	11/16/2015 16:04	YH
Fluoranthene	BRL		0.94	10	ug/L	215950	1	11/16/2015 16:04	YH
Fluorene	BRL		1.2	10	ug/L	215950	1	11/16/2015 16:04	YH
Hexachlorobenzene	BRL		1.6	10	ug/L	215950	1	11/16/2015 16:04	YH
Hexachlorobutadiene	BRL		1.3	10	ug/L	215950	1	11/16/2015 16:04	YH
Hexachlorocyclopentadiene	BRL		1.2	10	ug/L	215950	1	11/16/2015 16:04	YH
Hexachloroethane	BRL		1.4	10	ug/L	215950	1	11/16/2015 16:04	YH

Qualifiers:

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Analytical Environmental Services, Inc
Date: 24-Nov-15

Client: Tetra Tech EM Inc.	Client Sample ID: OBM-RUNOFF-01
Project Name: Old Barnwick Mill Fire	Collection Date: 11/15/2015 5:30:00 PM
Lab ID: 1511E55-001	Matrix: Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D		(SW3510C)							
Indeno(1,2,3-cd)pyrene	BRL		1.3	10	ug/L	215950	1	11/16/2015 16:04	YH
Isophorone	BRL		1.5	10	ug/L	215950	1	11/16/2015 16:04	YH
N-Nitrosodi-n-propylamine	BRL		1.2	10	ug/L	215950	1	11/16/2015 16:04	YH
N-Nitrosodiphenylamine	BRL		1.2	10	ug/L	215950	1	11/16/2015 16:04	YH
Naphthalene	2.3	J	1.2	10	ug/L	215950	1	11/16/2015 16:04	YH
Nitrobenzene	BRL		1.2	10	ug/L	215950	1	11/16/2015 16:04	YH
Pentachlorophenol	BRL		0.93	25	ug/L	215950	1	11/16/2015 16:04	YH
Phenanthrene	2.6	J	1.0	10	ug/L	215950	1	11/16/2015 16:04	YH
Phenol	12		1.1	10	ug/L	215950	1	11/16/2015 16:04	YH
Pyrene	BRL		1.1	10	ug/L	215950	1	11/16/2015 16:04	YH
Surr: 2,4,6-Tribromophenol	72.5		0	51.5-141	%REC	215950	1	11/16/2015 16:04	YH
Surr: 2-Fluorobiphenyl	75.9		0	50.8-122	%REC	215950	1	11/16/2015 16:04	YH
Surr: 2-Fluorophenol	67		0	28.1-120	%REC	215950	1	11/16/2015 16:04	YH
Surr: 4-Terphenyl-d14	80.4		0	47.2-131	%REC	215950	1	11/16/2015 16:04	YH
Surr: Nitrobenzene-d5	82.4		0	42.1-124	%REC	215950	1	11/16/2015 16:04	YH
Surr: Phenol-d5	58.4		0	16-120	%REC	215950	1	11/16/2015 16:04	YH
TCL VOLATILE ORGANICS SW8260B		(SW5030B)							
1,1,1-Trichloroethane	BRL		0.67	5.0	ug/L	215970	1	11/16/2015 12:20	MD
1,1,2,2-Tetrachloroethane	BRL		0.93	5.0	ug/L	215970	1	11/16/2015 12:20	MD
1,1,2-Trichloroethane	BRL		1.3	5.0	ug/L	215970	1	11/16/2015 12:20	MD
1,1-Dichloroethane	BRL		0.91	5.0	ug/L	215970	1	11/16/2015 12:20	MD
1,1-Dichloroethene	BRL		1.5	5.0	ug/L	215970	1	11/16/2015 12:20	MD
1,2,4-Trichlorobenzene	BRL		0.79	5.0	ug/L	215970	1	11/16/2015 12:20	MD
1,2-Dibromo-3-chloropropane	BRL		0.25	5.0	ug/L	215970	1	11/16/2015 12:20	MD
1,2-Dibromoethane	BRL		0.52	5.0	ug/L	215970	1	11/16/2015 12:20	MD
1,2-Dichlorobenzene	BRL		0.68	5.0	ug/L	215970	1	11/16/2015 12:20	MD
1,2-Dichloroethane	BRL		0.79	5.0	ug/L	215970	1	11/16/2015 12:20	MD
1,2-Dichloropropane	BRL		0.84	5.0	ug/L	215970	1	11/16/2015 12:20	MD
1,3-Dichlorobenzene	BRL		0.61	5.0	ug/L	215970	1	11/16/2015 12:20	MD
1,4-Dichlorobenzene	BRL		0.83	5.0	ug/L	215970	1	11/16/2015 12:20	MD
2-Butanone	BRL		8.1	50	ug/L	215970	1	11/16/2015 12:20	MD
2-Hexanone	BRL		3.5	10	ug/L	215970	1	11/16/2015 12:20	MD
4-Methyl-2-pentanone	BRL		1.9	10	ug/L	215970	1	11/16/2015 12:20	MD
Acetone	16	J	3.2	50	ug/L	215970	1	11/16/2015 12:20	MD
Benzene	1.1	J	0.61	5.0	ug/L	215970	1	11/16/2015 12:20	MD
Bromodichloromethane	BRL		0.78	5.0	ug/L	215970	1	11/16/2015 12:20	MD
Bromoform	BRL		0.66	5.0	ug/L	215970	1	11/16/2015 12:20	MD
Bromomethane	BRL		1.1	5.0	ug/L	215970	1	11/16/2015 12:20	MD

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Analytical Environmental Services, Inc
Date: 24-Nov-15

Client: Tetra Tech EM Inc.	Client Sample ID: OBM-RUNOFF-01
Project Name: Old Barnwick Mill Fire	Collection Date: 11/15/2015 5:30:00 PM
Lab ID: 1511E55-001	Matrix: Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)					
Carbon disulfide	BRL		1.9	5.0	ug/L	215970	1	11/16/2015 12:20	MD
Carbon tetrachloride	BRL		0.42	5.0	ug/L	215970	1	11/16/2015 12:20	MD
Chlorobenzene	BRL		0.35	5.0	ug/L	215970	1	11/16/2015 12:20	MD
Chloroethane	BRL		0.91	10	ug/L	215970	1	11/16/2015 12:20	MD
Chloroform	BRL		0.79	5.0	ug/L	215970	1	11/16/2015 12:20	MD
Chloromethane	BRL		1.3	10	ug/L	215970	1	11/16/2015 12:20	MD
cis-1,2-Dichloroethene	BRL		0.80	5.0	ug/L	215970	1	11/16/2015 12:20	MD
cis-1,3-Dichloropropene	BRL		1.1	5.0	ug/L	215970	1	11/16/2015 12:20	MD
Cyclohexane	BRL		1.2	5.0	ug/L	215970	1	11/16/2015 12:20	MD
Dibromochloromethane	BRL		0.68	5.0	ug/L	215970	1	11/16/2015 12:20	MD
Dichlorodifluoromethane	BRL		0.71	10	ug/L	215970	1	11/16/2015 12:20	MD
Ethylbenzene	BRL		0.29	5.0	ug/L	215970	1	11/16/2015 12:20	MD
Freon-113	BRL		1.0	10	ug/L	215970	1	11/16/2015 12:20	MD
Isopropylbenzene	BRL		0.72	5.0	ug/L	215970	1	11/16/2015 12:20	MD
m,p-Xylene	0.73	J	0.42	5.0	ug/L	215970	1	11/16/2015 12:20	MD
Methyl acetate	BRL		0.60	5.0	ug/L	215970	1	11/16/2015 12:20	MD
Methyl tert-butyl ether	BRL		0.62	5.0	ug/L	215970	1	11/16/2015 12:20	MD
Methylcyclohexane	BRL		0.70	5.0	ug/L	215970	1	11/16/2015 12:20	MD
Methylene chloride	BRL		0.94	5.0	ug/L	215970	1	11/16/2015 12:20	MD
o-Xylene	BRL		0.24	5.0	ug/L	215970	1	11/16/2015 12:20	MD
Styrene	47		0.57	5.0	ug/L	215970	1	11/16/2015 12:20	MD
Tetrachloroethene	2.8	J	0.93	5.0	ug/L	215970	1	11/16/2015 12:20	MD
Toluene	0.57	J	0.49	5.0	ug/L	215970	1	11/16/2015 12:20	MD
trans-1,2-Dichloroethene	BRL		0.89	5.0	ug/L	215970	1	11/16/2015 12:20	MD
trans-1,3-Dichloropropene	BRL		1.0	5.0	ug/L	215970	1	11/16/2015 12:20	MD
Trichloroethene	BRL		0.80	5.0	ug/L	215970	1	11/16/2015 12:20	MD
Trichlorofluoromethane	BRL		0.98	5.0	ug/L	215970	1	11/16/2015 12:20	MD
Vinyl chloride	BRL		0.74	2.0	ug/L	215970	1	11/16/2015 12:20	MD
Surr: 4-Bromofluorobenzene	84.7		0	70.7-125	%REC	215970	1	11/16/2015 12:20	MD
Surr: Dibromofluoromethane	105		0	82.2-120	%REC	215970	1	11/16/2015 12:20	MD
Surr: Toluene-d8	95.1		0	81.8-120	%REC	215970	1	11/16/2015 12:20	MD

Surfactants (MBAS) by SM5540C

MBAS	0.284		0.0217	0.100	mg/L-LAS	215991	1	11/16/2015 17:00	JS
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Residue, Suspended (TSS) by SM2540D

Residue, Suspended (TSS)	13.5		1.0	5.0	mg/L	215969	1	11/16/2015 13:05	JS
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Phenolics, Total Recoverable E420.1
(E420.1)

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc
Date: 24-Nov-15

Client:	Tetra Tech EM Inc.	Client Sample ID:	OBM-RUNOFF-01
Project Name:	Old Barnwick Mill Fire	Collection Date:	11/15/2015 5:30:00 PM
Lab ID:	1511E55-001	Matrix:	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Phenolics, Total Recoverable E420.1									
Phenolics, Total Recoverable	BRL		0.01	0.05	mg/L	215990	1	11/16/2015 15:00	JS
Nitrogen, total Kjeldahl (TKN) E351.2									
Nitrogen, total Kjeldahl (TKN)	1.57		0.275	0.500	mg/L	215931	1	11/16/2015 18:26	TL
Nitrogen, Ammonia (as N) E350.1									
Nitrogen, Ammonia (As N)	0.225		0.040	0.200	mg/L	215939	1	11/16/2015 16:26	FS
Inorganic Anions by IC E300.0									
Nitrogen, Nitrate (As N)	1.22		0.106	0.250	mg/L	R304465	1	11/16/2015 11:18	JW
Hexavalent Chromium in Water SW7196A									
Chromium, Hexavalent	BRL		0.00130	0.0100	mg/L	R304490	1	11/16/2015 12:45	JC
Fecal Coliform (MF) SM9222D-1997									
Fecal Coliform, (MF)	330	H	20	20	Colonies/100 ml	R304588	10	11/16/2015 15:50	MU
Chemical Oxygen Demand (COD) E410.4									
Chemical Oxygen Demand	92.6		5.29	10.0	mg/L	R304451	1	11/16/2015 10:30	CH
Biochemical Oxygen Demand (5 Day) by SM5210B									
Biochemical Oxygen Demand	15.9		5.0	5.0	mg/L	216282	1	11/16/2015 11:00	CH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Tetra tech Wm

Work Order Number 1571255

Checklist completed by Ching Delos 11/14/15
Signature Date

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? ($0^{\circ} \leq 6^{\circ}C$) * Yes ☒ No ☐

Cooler #1 4-D Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☐ No ☒

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☐ No ☒

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted ☐ Yes ☒ No ☐

Water - pH acceptable upon receipt? TD Yes ☒ No ☐ Not Applicable ☐

Adjusted? No Checked by TD
Sample Condition: Good ☒ Other(Explain) ☐

(For diffusive samples or AIHA lead) Is a known blank included? Yes ☐ No ☒

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Aes_server\\Sample Receipt\\My Documents\\COCs and pH Adjustment Sheet\\Sample_Cooler_Receipt_Checklist_Rev1.rtf

Client: Tetra Tech EM Inc.
Project Name: Old Barnwick Mill Fire
Lab Order: 1511E55

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1511E55-001A	OBM-RUNOFF-01	11/15/2015 5:30:00PM	Surface Water	TCL VOLATILE ORGANICS		11/16/2015 9:05:00 AM	11/16/2015
1511E55-001B	OBM-RUNOFF-01	11/15/2015 5:30:00PM	Surface Water	TCL-SEMIVOLATILE ORGANICS		11/16/2015 10:30:00 AM	11/16/2015
1511E55-001C	OBM-RUNOFF-01	11/15/2015 5:30:00PM	Surface Water	Trace Elements by ICP/MS		11/16/2015 12:30:00 PM	11/16/2015
1511E55-001C	OBM-RUNOFF-01	11/15/2015 5:30:00PM	Surface Water	TOTAL MERCURY		11/16/2015 12:33:00 PM	11/16/2015
1511E55-001C	OBM-RUNOFF-01	11/15/2015 5:30:00PM	Surface Water	TOTAL MERCURY		11/16/2015 12:33:00 PM	11/16/2015
1511E55-001D	OBM-RUNOFF-01	11/15/2015 5:30:00PM	Surface Water	Hexavalent Chromium			11/16/2015
1511E55-001D	OBM-RUNOFF-01	11/15/2015 5:30:00PM	Surface Water	Biochemical Oxygen Demand by SM5210		11/16/2015 11:00:00 AM	11/16/2015
1511E55-001D	OBM-RUNOFF-01	11/15/2015 5:30:00PM	Surface Water	Residue, Suspended (TSS) by SM2540D		11/16/2015 10:00:00 AM	11/16/2015
1511E55-001E	OBM-RUNOFF-01	11/15/2015 5:30:00PM	Surface Water	Oil and Grease		11/16/2015 8:30:00 AM	11/16/2015
1511E55-001F	OBM-RUNOFF-01	11/15/2015 5:30:00PM	Surface Water	Phenolics, Total Recoverable		11/16/2015 8:40:00 AM	11/16/2015
1511E55-001F	OBM-RUNOFF-01	11/15/2015 5:30:00PM	Surface Water	Surfactants (MBAS) by SM5540C		11/16/2015 4:00:00 PM	11/16/2015
1511E55-001G	OBM-RUNOFF-01	11/15/2015 5:30:00PM	Surface Water	Inorganic Anions by IC			11/16/2015
1511E55-001G	OBM-RUNOFF-01	11/15/2015 5:30:00PM	Surface Water	Nitrogen, Ammonia (as N)		11/16/2015 10:50:00 AM	11/16/2015
1511E55-001G	OBM-RUNOFF-01	11/15/2015 5:30:00PM	Surface Water	Nitrogen, total Kjeldahl (TKN)		11/16/2015 10:50:00 AM	11/16/2015
1511E55-001G	OBM-RUNOFF-01	11/15/2015 5:30:00PM	Surface Water	Phosphorus , Total		11/16/2015 11:00:00 AM	11/16/2015
1511E55-001H	OBM-RUNOFF-01	11/15/2015 5:30:00PM	Surface Water	Chemical Oxygen Demand (COD)			11/16/2015
1511E55-001H	OBM-RUNOFF-01	11/15/2015 5:30:00PM	Surface Water	Total Residual Chlorine by SM4500-Cl-G			11/16/2015
1511E55-001H	OBM-RUNOFF-01	11/15/2015 5:30:00PM	Surface Water	Total Cyanide		11/16/2015 1:30:00 PM	11/16/2015
1511E55-001H	OBM-RUNOFF-01	11/15/2015 5:30:00PM	Surface Water	FECAL COLIFORM-MF			11/16/2015

Client: Tetra Tech EM Inc.
Project Name: Old Barnwick Mill Fire
Workorder: 1511E55

ANALYTICAL QC SUMMARY REPORT

BatchID: 215750

Sample ID: MB-215750	Client ID:					Units: mg/L	Prep Date: 11/16/2015	Run No: 304442			
SampleType: MBLK	TestCode: Total Phosphorus	E365.1				BatchID: 215750	Analysis Date: 11/16/2015	Seq No: 6519398			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Phosphorus, Total (As P)	0.01920	0.050									J
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Sample ID: LCS-215750					Client ID:		Units: mg/L		Prep Date: 11/16/2015		Run No: 304442	
SampleType: LCS					TestCode: Total Phosphorus E365.1		BatchID: 215750		Analysis Date: 11/16/2015		Seq No: 6519399	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual	

Phosphorus, Total (As P)	2.130	0.050	2.000	0.01920	106	90	110				
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Sample ID: 1511C66-001AMS	Client ID:					Units: mg/L	Prep Date: 11/16/2015	Run No: 304442			
SampleType: MS	TestCode: Total Phosphorus E365.1					BatchID: 215750	Analysis Date: 11/16/2015	Seq No: 6519401			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Phosphorus, Total (As P)	2.150	0.050	2.000	0.2390	95.6	90	110				
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Sample ID: 1511C66-001AMSD	Client ID:					Units: mg/L	Prep Date: 11/16/2015	Run No: 304442			
SampleType: MSD	TestCode: Total Phosphorus	E365.1	BatchID: 215750				Analysis Date: 11/16/2015	Seq No: 6519402			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Phosphorus, Total (As P)	2.090	0.050	2.000	0.2390	92.6	90	110	2.150	2.83	20	
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Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Old Barnwick Mill Fire
Workorder: 1511E55

ANALYTICAL QC SUMMARY REPORT

BatchID: 215895

Sample ID: MB-215895	Client ID:					Units: mg/L	Prep Date: 11/16/2015	Run No: 304466			
SampleType: MBLK	TestCode: Total Oil and Grease (HEM) E1664B					BatchID: 215895	Analysis Date: 11/16/2015	Seq No: 6519197			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Oil and Grease	1.300	5.0									J
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Sample ID: LCS-215895	Client ID:					Units: mg/L	Prep Date: 11/16/2015	Run No: 304466			
SampleType: LCS	TestCode: Total Oil and Grease (HEM) E1664B					BatchID: 215895	Analysis Date: 11/16/2015	Seq No: 6519201			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Oil and Grease	36.00	5.0	40.00	1.300	86.8	78	114				
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Sample ID: LCSD-215895	Client ID:					Units: mg/L	Prep Date: 11/16/2015	Run No: 304466			
SampleType: LCSD	TestCode: Total Oil and Grease (HEM) E1664B					BatchID: 215895	Analysis Date: 11/16/2015	Seq No: 6519204			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Oil and Grease	36.50	5.0	40.00	1.300	88.0	78	114	36.00	1.38	18	
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Sample ID: 1511D27-001BMS	Client ID:					Units: mg/L	Prep Date: 11/16/2015	Run No: 304466			
SampleType: MS	TestCode: Total Oil and Grease (HEM) E1664B					BatchID: 215895	Analysis Date: 11/16/2015	Seq No: 6519193			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Oil and Grease	23.80	5.0	40.00	2.000	54.5	78	114				S
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Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Old Barnwick Mill Fire
Workorder: 1511E55

ANALYTICAL QC SUMMARY REPORT**BatchID: 215931**

Sample ID: MB-215931	Client ID:					Units: mg/L	Prep Date: 11/16/2015	Run No: 304411			
SampleType: MBLK	TestCode: Nitrogen, total Kjeldahl (TKN)	E351.2	BatchID: 215931				Analysis Date: 11/16/2015	Seq No: 6519574			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrogen, total Kjeldahl (TKN) 0.2810 0.500 J

Sample ID: LCS-215931	Client ID:					Units: mg/L	Prep Date: 11/16/2015	Run No: 304411			
SampleType: LCS	TestCode: Nitrogen, total Kjeldahl (TKN) E351.2					BatchID: 215931	Analysis Date: 11/16/2015	Seq No: 6519575			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrogen, total Kjeldahl (TKN) 10.50 0.500 10.00 0.2810 102 90 110

Sample ID: 1511B71-001AMS	Client ID:					Units: mg/L	Prep Date: 11/16/2015	Run No: 304411			
SampleType: MS	TestCode: Nitrogen, total Kjeldahl (TKN) E351.2					BatchID: 215931	Analysis Date: 11/16/2015	Seq No: 6519580			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrogen, total Kjeldahl (TKN) 2.550 0.500 10.00 25.5 90 110 S

Sample ID: 1511D27-001CMS	Client ID:					Units: mg/L	Prep Date: 11/16/2015	Run No: 304411			
SampleType: MS	TestCode: Nitrogen, total Kjeldahl (TKN) E351.2					BatchID: 215931	Analysis Date: 11/16/2015	Seq No: 6519595			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrogen, total Kjeldahl (TKN) 10.80 0.500 10.00 0.7810 100 90 110

Sample ID: 1511B71-001AMSD	Client ID:				Units: mg/L	Prep Date: 11/16/2015	Run No: 304411				
SampleType: MSD	TestCode: Nitrogen, total Kjeldahl (TKN) E351.2				BatchID: 215931	Analysis Date: 11/16/2015	Seq No: 6519581				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrogen, total Kjeldahl (TKN) 2.510 0.500 10.00 25.1 90 110 2.550 1.58 30 S

Qualifiers:

- > Greater than Result value
- BRL Below reporting limit
- J Estimated value detected below Reporting Limit
- Rpt Lim Reporting Limit

- < Less than Result value
- E Estimated (value above quantitation range)
- N Analyte not NELAC certified
- S Spike Recovery outside limits due to matrix

- B Analyte detected in the associated method blank
- H Holding times for preparation or analysis exceeded
- R RPD outside limits due to matrix

Client: Tetra Tech EM Inc.
Project Name: Old Barnwick Mill Fire
Workorder: 1511E55

ANALYTICAL QC SUMMARY REPORT**BatchID: 215937**

Sample ID: MB-215937	Client ID:					Units: ug/L	Prep Date: 11/16/2015	Run No: 304493			
SampleType: MBLK	TestCode: Trace Elements by ICP/MS E200.8					BatchID: 215937	Analysis Date: 11/16/2015	Seq No: 6519995			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic BRL 5.00
 Barium BRL 10.0
 Cadmium BRL 0.700
 Chromium BRL 5.00
 Lead BRL 1.00
 Selenium BRL 5.00
 Silver BRL 1.00

Sample ID: LCS-215937	Client ID:					Units: ug/L	Prep Date: 11/16/2015	Run No: 304493			
SampleType: LCS	TestCode: Trace Elements by ICP/MS E200.8					BatchID: 215937	Analysis Date: 11/16/2015	Seq No: 6520002			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 104.3 5.00 100.0 104 85 115
 Barium 102.8 10.0 100.0 103 85 115
 Cadmium 97.31 0.700 100.0 97.3 85 115
 Chromium 87.35 5.00 100.0 87.4 85 115
 Lead 93.62 1.00 100.0 93.6 85 115
 Selenium 116.0 5.00 100.0 116 85 115 S
 Silver 9.660 1.00 10.00 96.6 85 115

Sample ID: 1511E55-001CMS	Client ID: OBM-RUNOFF-01	Units: ug/L			Prep Date: 11/16/2015	Run No: 304493					
SampleType: MS	TestCode: Trace Elements by ICP/MS E200.8	BatchID: 215937			Analysis Date: 11/16/2015	Seq No: 6519998					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic 103.8 5.00 100.0 0.9214 103 70 130
 Barium 214.7 10.0 100.0 111.0 104 70 130
 Cadmium 94.86 0.700 100.0 0.1344 94.7 70 130
 Chromium 87.50 5.00 100.0 1.388 86.1 70 130

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Tetra Tech EM Inc.
Project Name: Old Barnwick Mill Fire
Workorder: 1511E55

ANALYTICAL QC SUMMARY REPORT

BatchID: 215937

Sample ID: 1511E55-001CMS	Client ID: OBM-RUNOFF-01	Units: ug/L	Prep Date: 11/16/2015	Run No: 304493							
SampleType: MS	TestCode: Trace Elements by ICP/MS E200.8	BatchID: 215937	Analysis Date: 11/16/2015	Seq No: 6519998							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead	90.92	1.00	100.0	0.9326	90.0	70	130				
Selenium	111.1	5.00	100.0	1.823	109	70	130				
Silver	9.325	1.00	10.00		93.3	70	130				

Sample ID: 1511E55-001CMSD	Client ID: OBM-RUNOFF-01	Units: ug/L	Prep Date: 11/16/2015	Run No: 304493							
SampleType: MSD	TestCode: Trace Elements by ICP/MS E200.8	BatchID: 215937	Analysis Date: 11/16/2015	Seq No: 6519999							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	104.5	5.00	100.0	0.9214	104	70	130	103.8	0.679	20	
Barium	216.8	10.0	100.0	111.0	106	70	130	214.7	1.00	20	
Cadmium	101.9	0.700	100.0	0.1344	102	70	130	94.86	7.13	20	
Chromium	86.88	5.00	100.0	1.388	85.5	70	130	87.50	0.709	20	
Lead	90.96	1.00	100.0	0.9326	90.0	70	130	90.92	0.042	20	
Selenium	111.5	5.00	100.0	1.823	110	70	130	111.1	0.352	20	
Silver	9.246	1.00	10.00		92.5	70	130	9.325	0.859	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Old Barnwick Mill Fire
Workorder: 1511E55

ANALYTICAL QC SUMMARY REPORT**BatchID: 215939**

Sample ID: MB-215939	Client ID:					Units: mg/L	Prep Date: 11/16/2015	Run No: 304488			
SampleType: MBLK	TestCode: Nitrogen, Ammonia (as N) E350.1					BatchID: 215939	Analysis Date: 11/16/2015	Seq No: 6519785			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrogen, Ammonia (As N) 0.06180 0.200 J

Sample ID: LCS-215939	Client ID:					Units: mg/L	Prep Date: 11/16/2015	Run No: 304488			
SampleType: LCS	TestCode: Nitrogen, Ammonia (as N) E350.1					BatchID: 215939	Analysis Date: 11/16/2015	Seq No: 6519786			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrogen, Ammonia (As N) 5.320 0.200 5.000 0.06180 105 90 110

Sample ID: 1511A93-002CMS	Client ID:					Units: mg/L	Prep Date: 11/16/2015	Run No: 304488			
SampleType: MS	TestCode: Nitrogen, Ammonia (as N) E350.1					BatchID: 215939	Analysis Date: 11/16/2015	Seq No: 6519802			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrogen, Ammonia (As N) 4.330 0.200 5.000 0.09720 84.7 90 110 S

Sample ID: 1511B19-001AMS	Client ID:					Units: mg/L	Prep Date: 11/16/2015	Run No: 304488			
SampleType: MS	TestCode: Nitrogen, Ammonia (as N) E350.1					BatchID: 215939	Analysis Date: 11/16/2015	Seq No: 6519789			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrogen, Ammonia (As N) 5.690 0.200 5.000 1.150 90.8 90 110

Sample ID: 1511B19-001AMSD		Client ID:			Units: mg/L		Prep Date: 11/16/2015		Run No: 304488			
SampleType: MSD		TestCode: Nitrogen, Ammonia (as N) E350.1			BatchID: 215939		Analysis Date: 11/16/2015		Seq No: 6519790			
Analyte		Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrogen, Ammonia (As N) 6.390 0.200 5.000 1.150 105 90 110 5.690 11.6 30

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Old Barnwick Mill Fire
Workorder: 1511E55

ANALYTICAL QC SUMMARY REPORT

BatchID: 215950

Sample ID: MB-215950	Client ID:	Units: ug/L				Prep Date: 11/16/2015	Run No: 304457				
SampleType: MBLK	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270D	BatchID: 215950				Analysis Date: 11/16/2015	Seq No: 6518993				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1'-Biphenyl	BRL	10
2,4,5-Trichlorophenol	BRL	25
2,4,6-Trichlorophenol	BRL	10
2,4-Dichlorophenol	BRL	10
2,4-Dimethylphenol	BRL	10
2,4-Dinitrophenol	BRL	25
2,4-Dinitrotoluene	BRL	10
2,6-Dinitrotoluene	BRL	10
2-Chloronaphthalene	BRL	10
2-Chlorophenol	BRL	10
2-Methylnaphthalene	BRL	10
2-Methylphenol	BRL	10
2-Nitroaniline	BRL	25
2-Nitrophenol	BRL	10
3,3'-Dichlorobenzidine	BRL	10
3-Nitroaniline	BRL	25
4,6-Dinitro-2-methylphenol	BRL	25
4-Bromophenyl phenyl ether	BRL	10
4-Chloro-3-methylphenol	BRL	10
4-Chloroaniline	BRL	10
4-Chlorophenyl phenyl ether	BRL	10
4-Methylphenol	BRL	10
4-Nitroaniline	BRL	25
4-Nitrophenol	BRL	25
Acenaphthene	BRL	10
Acenaphthylene	BRL	10
Acetophenone	BRL	10

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Old Barnwick Mill Fire
Workorder: 1511E55

ANALYTICAL QC SUMMARY REPORT

BatchID: 215950

Sample ID: MB-215950	Client ID:				Units: ug/L	Prep Date: 11/16/2015	Run No: 304457				
SampleType: MBLK	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270D				BatchID: 215950	Analysis Date: 11/16/2015	Seq No: 6518993				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Anthracene	BRL	10
Atrazine	BRL	10
Benz(a)anthracene	BRL	10
Benzaldehyde	BRL	10
Benzo(a)pyrene	BRL	10
Benzo(b)fluoranthene	BRL	10
Benzo(g,h,i)perylene	BRL	10
Benzo(k)fluoranthene	BRL	10
Bis(2-chloroethoxy)methane	BRL	10
Bis(2-chloroethyl)ether	BRL	10
Bis(2-chloroisopropyl)ether	BRL	10
Bis(2-ethylhexyl)phthalate	BRL	10
Butyl benzyl phthalate	BRL	10
Caprolactam	BRL	10
Carbazole	BRL	10
Chrysene	BRL	10
Di-n-butyl phthalate	BRL	10
Di-n-octyl phthalate	BRL	10
Dibenz(a,h)anthracene	BRL	10
Dibenzofuran	BRL	10
Diethyl phthalate	BRL	10
Dimethyl phthalate	BRL	10
Fluoranthene	BRL	10
Fluorene	BRL	10
Hexachlorobenzene	BRL	10
Hexachlorobutadiene	BRL	10
Hexachlorocyclopentadiene	BRL	10

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

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Client: Tetra Tech EM Inc.
Project Name: Old Barnwick Mill Fire
Workorder: 1511E55

ANALYTICAL QC SUMMARY REPORT**BatchID: 215950**

Sample ID: MB-215950	Client ID:					Units: ug/L	Prep Date: 11/16/2015	Run No: 304457			
SampleType: MBLK	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270D					BatchID: 215950	Analysis Date: 11/16/2015	Seq No: 6518993			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Hexachloroethane	BRL	10									
Indeno(1,2,3-cd)pyrene	BRL	10									
Isophorone	BRL	10									
N-Nitrosodi-n-propylamine	BRL	10									
N-Nitrosodiphenylamine	BRL	10									
Naphthalene	BRL	10									
Nitrobenzene	BRL	10									
Pentachlorophenol	BRL	25									
Phenanthrene	BRL	10									
Phenol	BRL	10									
Pyrene	BRL	10									
Surr: 2,4,6-Tribromophenol	70.66	0	100.0		70.7	51.5	141				
Surr: 2-Fluorobiphenyl	37.02	0	50.00		74.0	50.8	122				
Surr: 2-Fluorophenol	57.60	0	100.0		57.6	28.1	120				
Surr: 4-Terphenyl-d14	44.40	0	50.00		88.8	47.2	131				
Surr: Nitrobenzene-d5	38.47	0	50.00		76.9	42.1	124				
Surr: Phenol-d5	38.14	0	100.0		38.1	16	120				

Sample ID: LCS-215950	Client ID:					Units: ug/L	Prep Date: 11/16/2015	Run No: 304457			
SampleType: LCS	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270D					BatchID: 215950	Analysis Date: 11/16/2015	Seq No: 6519171			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2,4-Dinitrotoluene	73.30	10	100.0		73.3	71.3	129				
2-Chlorophenol	81.85	10	100.0		81.8	58.1	120				
4-Chloro-3-methylphenol	92.08	10	100.0		92.1	69.2	123				
4-Nitrophenol	41.11	25	100.0		41.1	20.2	120				
Acenaphthene	82.07	10	100.0		82.1	71.5	120				
N-Nitrosodi-n-propylamine	103.2	10	100.0		103	68.8	134				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Old Barnwick Mill Fire
Workorder: 1511E55

ANALYTICAL QC SUMMARY REPORT**BatchID: 215950**

Sample ID: LCS-215950	Client ID:					Units: ug/L	Prep Date: 11/16/2015	Run No: 304457			
SampleType: LCS	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270D					BatchID: 215950	Analysis Date: 11/16/2015	Seq No: 6519171			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Pentachlorophenol	63.38	25	100.0		63.4	50.5	130				
Phenol	32.85	10	100.0		32.8	27	120				
Pyrene	91.36	10	100.0		91.4	71.1	133				
Surr: 2,4,6-Tribromophenol	77.18	0	100.0		77.2	51.5	141				
Surr: 2-Fluorobiphenyl	41.52	0	50.00		83.0	50.8	122				
Surr: 2-Fluorophenol	46.43	0	100.0		46.4	28.1	120				
Surr: 4-Terphenyl-d14	43.05	0	50.00		86.1	47.2	131				
Surr: Nitrobenzene-d5	46.22	0	50.00		92.4	42.1	124				
Surr: Phenol-d5	36.31	0	100.0		36.3	16	120				

Sample ID: 1511E55-001BMS	Client ID: OBM-RUNOFF-01	Units: ug/L			Prep Date: 11/16/2015	Run No: 304457					
SampleType: MS	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270D	BatchID: 215950			Analysis Date: 11/16/2015	Seq No: 6521114					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2,4-Dinitrotoluene	63.40	50	100.0		63.4	51.4	126				
2-Chlorophenol	66.50	50	100.0		66.5	49.6	120				
4-Chloro-3-methylphenol	84.90	50	100.0		84.9	50.7	130				
4-Nitrophenol	57.55	130	100.0		57.6	20.2	120				J
Acenaphthene	72.45	50	100.0		72.4	49.2	123				
N-Nitrosodi-n-propylamine	86.20	50	100.0		86.2	49	135				
Pentachlorophenol	44.15	130	100.0		44.2	41.5	131				J
Phenol	59.70	50	100.0		59.7	30.6	120				
Pyrene	76.85	50	100.0		76.8	50.5	130				
Surr: 2,4,6-Tribromophenol	65.75	0	100.0		65.8	51.5	141				
Surr: 2-Fluorobiphenyl	33.90	0	50.00		67.8	50.8	122				
Surr: 2-Fluorophenol	65.05	0	100.0		65.0	28.1	120				
Surr: 4-Terphenyl-d14	35.95	0	50.00		71.9	47.2	131				
Surr: Nitrobenzene-d5	44.20	0	50.00		88.4	42.1	124				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Old Barnwick Mill Fire
Workorder: 1511E55

ANALYTICAL QC SUMMARY REPORT

BatchID: 215950

Sample ID: 1511E55-001BMS	Client ID: OBM-RUNOFF-01	Units: ug/L	Prep Date: 11/16/2015	Run No: 304457							
SampleType: MS	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270D	BatchID: 215950	Analysis Date: 11/16/2015	Seq No: 6521114							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: Phenol-d5 52.40 0 100.0 52.4 16 120

Sample ID: 1511E55-001BMSD	Client ID: OBM-RUNOFF-01	Units: ug/L	Prep Date: 11/16/2015	Run No: 304457							
SampleType: MSD	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270D	BatchID: 215950	Analysis Date: 11/16/2015	Seq No: 6521115							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2,4-Dinitrotoluene	62.55	50	100.0		62.6	51.4	126	63.40	1.35	29.2	
2-Chlorophenol	60.15	50	100.0		60.2	49.6	120	66.50	10.0	28.2	
4-Chloro-3-methylphenol	83.45	50	100.0		83.4	50.7	130	84.90	1.72	29.7	
4-Nitrophenol	59.40	130	100.0		59.4	20.2	120	57.55	0	38.6	J
Acenaphthene	67.85	50	100.0		67.8	49.2	123	72.45	6.56	29.3	
N-Nitrosodi-n-propylamine	82.75	50	100.0		82.8	49	135	86.20	4.08	37.6	
Pentachlorophenol	38.10	130	100.0		38.1	41.5	131	44.15	0	33.5	JS
Phenol	61.10	50	100.0		61.1	30.6	120	59.70	2.32	36.3	
Pyrene	75.75	50	100.0		75.8	50.5	130	76.85	1.44	27.3	
Surr: 2,4,6-Tribromophenol	53.85	0	100.0		53.8	51.5	141	65.75	0	0	
Surr: 2-Fluorobiphenyl	33.00	0	50.00		66.0	50.8	122	33.90	0	0	
Surr: 2-Fluorophenol	64.75	0	100.0		64.8	28.1	120	65.05	0	0	
Surr: 4-Terphenyl-d14	34.45	0	50.00		68.9	47.2	131	35.95	0	0	
Surr: Nitrobenzene-d5	39.80	0	50.00		79.6	42.1	124	44.20	0	0	
Surr: Phenol-d5	59.40	0	100.0		59.4	16	120	52.40	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Old Barnwick Mill Fire
Workorder: 1511E55

ANALYTICAL QC SUMMARY REPORT**BatchID: 215967**

Sample ID: MB-215967	Client ID:					Units: mg/L	Prep Date: 11/16/2015	Run No: 304434			
SampleType: MBLK	TestCode: Total Mercury E245.1					BatchID: 215967	Analysis Date: 11/16/2015	Seq No: 6519413			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury BRL 0.00020

Sample ID: LCS-215967	Client ID:					Units: mg/L	Prep Date: 11/16/2015	Run No: 304434			
SampleType: LCS	TestCode: Total Mercury E245.1					BatchID: 215967	Analysis Date: 11/16/2015	Seq No: 6519414			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.005097 0.00020 0.0050 102 85 115

Sample ID: 1511C18-009BMS	Client ID:					Units: mg/L	Prep Date: 11/17/2015	Run No: 304434			
SampleType: MS	TestCode: Total Mercury E245.1					BatchID: 215967	Analysis Date: 11/17/2015	Seq No: 6521795			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.005133 0.00020 0.0050 103 70 130

Sample ID: 1511E55-001CMS	Client ID: OBM-RUNOFF-01				Units: mg/L	Prep Date: 11/16/2015	Run No: 304434				
SampleType: MS	TestCode: Total Mercury E245.1				BatchID: 215967	Analysis Date: 11/16/2015	Seq No: 6519416				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.005531 0.00020 0.0050 0.00004310 110 70 130

Sample ID: 1511E55-001CMSD	Client ID: OBM-RUNOFF-01				Units: mg/L	Prep Date: 11/16/2015	Run No: 304434				
SampleType: MSD	TestCode: Total Mercury E245.1				BatchID: 215967	Analysis Date: 11/16/2015	Seq No: 6519417				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.005271 0.00020 0.0050 0.00004310 105 70 130 0.005531 4.81 20

Qualifiers:

- > Greater than Result value
- BRL Below reporting limit
- J Estimated value detected below Reporting Limit
- Rpt Lim Reporting Limit

- < Less than Result value
- E Estimated (value above quantitation range)
- N Analyte not NELAC certified
- S Spike Recovery outside limits due to matrix

- B Analyte detected in the associated method blank
- H Holding times for preparation or analysis exceeded
- R RPD outside limits due to matrix

Client: Tetra Tech EM Inc.
Project Name: Old Barnwick Mill Fire
Workorder: 1511E55

ANALYTICAL QC SUMMARY REPORT

BatchID: 215969

Sample ID: MB-215969	Client ID:					Units: mg/L	Prep Date: 11/16/2015	Run No: 304447			
SampleType: MBLK	TestCode: Residue, Suspended (TSS) by SM2540D					BatchID: 215969	Analysis Date: 11/16/2015	Seq No: 6518656			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Residue, Suspended (TSS) BRL 5.0

Sample ID: 1511D20-001ADUP	Client ID:					Units: mg/L	Prep Date: 11/16/2015	Run No: 304447			
SampleType: DUP	TestCode: Residue, Suspended (TSS) by SM2540D					BatchID: 215969	Analysis Date: 11/16/2015	Seq No: 6518671			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Residue, Suspended (TSS) 39.50 5.0 39.00 1.27 5

Sample ID: 1511D20-002ADUP	Client ID:					Units: mg/L	Prep Date: 11/16/2015	Run No: 304447			
SampleType: DUP	TestCode: Residue, Suspended (TSS) by SM2540D					BatchID: 215969	Analysis Date: 11/16/2015	Seq No: 6518659			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Residue, Suspended (TSS) 46.00 5.0 45.50 1.09 5

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Old Barnwick Mill Fire
Workorder: 1511E55

ANALYTICAL QC SUMMARY REPORT

BatchID: 215970

Sample ID: MB-215970	Client ID:	Units: ug/L				Prep Date: 11/16/2015	Run No: 304400				
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 215970				Analysis Date: 11/16/2015	Seq No: 6518682				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0
1,1,2,2-Tetrachloroethane	BRL	5.0
1,1,2-Trichloroethane	BRL	5.0
1,1-Dichloroethane	BRL	5.0
1,1-Dichloroethene	BRL	5.0
1,2,4-Trichlorobenzene	BRL	5.0
1,2-Dibromo-3-chloropropane	BRL	5.0
1,2-Dibromoethane	BRL	5.0
1,2-Dichlorobenzene	BRL	5.0
1,2-Dichloroethane	BRL	5.0
1,2-Dichloropropane	BRL	5.0
1,3-Dichlorobenzene	BRL	5.0
1,4-Dichlorobenzene	BRL	5.0
2-Butanone	BRL	50
2-Hexanone	BRL	10
4-Methyl-2-pentanone	BRL	10
Acetone	BRL	50
Benzene	BRL	5.0
Bromodichloromethane	BRL	5.0
Bromoform	BRL	5.0
Bromomethane	BRL	5.0
Carbon disulfide	BRL	5.0
Carbon tetrachloride	BRL	5.0
Chlorobenzene	BRL	5.0
Chloroethane	BRL	10
Chloroform	BRL	5.0
Chloromethane	BRL	10

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

ANALYTICAL QC SUMMARY REPORT

Client: Tetra Tech EM Inc.
Project Name: Old Barnwick Mill Fire
Workorder: 1511E55

BatchID: 215970

Sample ID: MB-215970		Client ID:		Units: ug/L		Prep Date: 11/16/2015		Run No: 304400			
SampleType: MBLK		TestCode: TCL VOLATILE ORGANICS SW8260B		BatchID: 215970		Analysis Date: 11/16/2015		Seq No: 6518682			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	41.89	0	50.00		83.8	70.7	125				
Surr: Dibromofluoromethane	55.14	0	50.00		110	82.2	120				
Surr: Toluene-d8	48.06	0	50.00		96.1	81.8	120				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Old Barnwick Mill Fire
Workorder: 1511E55

ANALYTICAL QC SUMMARY REPORT**BatchID: 215970**

Sample ID: LCS-215970	Client ID:					Units: ug/L	Prep Date: 11/16/2015	Run No: 304400			
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 215970	Analysis Date: 11/16/2015	Seq No: 6518681			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	51.80	5.0	50.00		104	64.2	137				
Benzene	53.88	5.0	50.00		108	72.8	128				
Chlorobenzene	56.09	5.0	50.00		112	72.3	126				
Toluene	52.90	5.0	50.00		106	74.9	127				
Trichloroethene	58.78	5.0	50.00		118	70.5	134				
Surr: 4-Bromofluorobenzene	42.61	0	50.00		85.2	70.7	125				
Surr: Dibromofluoromethane	52.48	0	50.00		105	82.2	120				
Surr: Toluene-d8	48.20	0	50.00		96.4	81.8	120				

Sample ID: 1511E55-001AMS	Client ID: OBM-RUNOFF-01	Units: ug/L			Prep Date: 11/16/2015	Run No: 304400					
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 215970			Analysis Date: 11/16/2015	Seq No: 6520174					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	52.73	5.0	50.00		105	60.5	156				
Benzene	53.79	5.0	50.00	1.090	105	70	135				
Chlorobenzene	53.49	5.0	50.00		107	70.5	132				
Toluene	51.85	5.0	50.00	0.5700	103	70.5	137				
Trichloroethene	56.36	5.0	50.00		113	71.8	139				
Surr: 4-Bromofluorobenzene	43.49	0	50.00		87.0	70.7	125				
Surr: Dibromofluoromethane	57.17	0	50.00		114	82.2	120				
Surr: Toluene-d8	48.07	0	50.00		96.1	81.8	120				

Sample ID: 1511E55-001AMSD	Client ID: OBM-RUNOFF-01	Units: ug/L			Prep Date: 11/16/2015	Run No: 304400					
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 215970			Analysis Date: 11/16/2015	Seq No: 6520175					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	47.82	5.0	50.00		95.6	60.5	156	52.73	9.77	20	
Benzene	52.56	5.0	50.00	1.090	103	70	135	53.79	2.31	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Old Barnwick Mill Fire
Workorder: 1511E55

ANALYTICAL QC SUMMARY REPORT

BatchID: 215970

Sample ID: 1511E55-001AMSD	Client ID: OBM-RUNOFF-01	Units: ug/L	Prep Date: 11/16/2015	Run No: 304400							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 215970	Analysis Date: 11/16/2015	Seq No: 6520175							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	51.71	5.0	50.00		103	70.5	132	53.49	3.38	20	
Toluene	49.97	5.0	50.00	0.5700	98.8	70.5	137	51.85	3.69	20	
Trichloroethene	54.03	5.0	50.00		108	71.8	139	56.36	4.22	20	
Surr: 4-Bromofluorobenzene	43.09	0	50.00		86.2	70.7	125	43.49	0	0	
Surr: Dibromofluoromethane	54.65	0	50.00		109	82.2	120	57.17	0	0	
Surr: Toluene-d8	48.63	0	50.00		97.3	81.8	120	48.07	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Old Barnwick Mill Fire
Workorder: 1511E55

ANALYTICAL QC SUMMARY REPORT**BatchID: 215972**

Sample ID: MB-215972	Client ID:					Units: mg/L	Prep Date: 11/16/2015	Run No: 304475			
SampleType: MBLK	TestCode: Total Cyanide (SM4500 CN-C, E)					BatchID: 215972	Analysis Date: 11/16/2015	Seq No: 6519424			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Total BRL 0.010

Sample ID: LCS-215972	Client ID:					Units: mg/L	Prep Date: 11/16/2015	Run No: 304475			
SampleType: LCS	TestCode: Total Cyanide (SM4500 CN-C, E)					BatchID: 215972	Analysis Date: 11/16/2015	Seq No: 6519425			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Total 0.2500 0.010 0.2500 100 90 110

Sample ID: 1511909-002AMS	Client ID:					Units: mg/L	Prep Date: 11/16/2015	Run No: 304475			
SampleType: MS	TestCode: Total Cyanide (SM4500 CN-C, E)					BatchID: 215972	Analysis Date: 11/16/2015	Seq No: 6519433			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Total 0.2444 0.010 0.2500 97.8 90 110

Sample ID: 1511A53-001DMS	Client ID:					Units: mg/L	Prep Date: 11/17/2015	Run No: 304475			
SampleType: MS	TestCode: Total Cyanide (SM4500 CN-C, E)					BatchID: 215972	Analysis Date: 11/17/2015	Seq No: 6522699			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Total 0.2402 0.010 0.2500 96.1 90 110

Sample ID: 1511909-002AMSD	Client ID:					Units: mg/L	Prep Date: 11/16/2015	Run No: 304475			
SampleType: MSD	TestCode: Total Cyanide (SM4500 CN-C, E)					BatchID: 215972	Analysis Date: 11/16/2015	Seq No: 6519434			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cyanide, Total 0.2464 0.010 0.2500 98.6 90 110 0.2444 0.815 20

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Old Barnwick Mill Fire
Workorder: 1511E55

ANALYTICAL QC SUMMARY REPORT

BatchID: 215990

Sample ID: MB-215990	Client ID:					Units: mg/L	Prep Date: 11/16/2015	Run No: 304481			
SampleType: MBLK	TestCode: Phenolics, Total Recoverable E420.1					BatchID: 215990	Analysis Date: 11/16/2015	Seq No: 6519643			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Phenolics, Total Recoverable BRL 0.05

Sample ID: LCS-215990		Client ID:			Units: mg/L			Prep Date: 11/16/2015		Run No: 304481	
SampleType: LCS		TestCode: Phenolics, Total Recoverable E420.1			BatchID: 215990			Analysis Date: 11/16/2015		Seq No: 6519644	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Phenolics, Total Recoverable 0.3903 0.05 0.4000 97.6 80 120

Sample ID: 1511B00-001EMS	Client ID:					Units: mg/L	Prep Date: 11/16/2015	Run No: 304481			
SampleType: MS	TestCode: Phenolics, Total Recoverable E420.1					BatchID: 215990	Analysis Date: 11/16/2015	Seq No: 6519649			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Phenolics, Total Recoverable 0.3995 0.05 0.4000 99.9 80 120

Sample ID: 1511B00-001EMSD	Client ID:					Units: mg/L	Prep Date: 11/16/2015	Run No: 304481			
SampleType: MSD	TestCode: Phenolics, Total Recoverable E420.1					BatchID: 215990	Analysis Date: 11/16/2015	Seq No: 6519650			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Phenolics, Total Recoverable 0.4086 0.05 0.4000 102 80 120 0.3995 2.25 30

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Old Barnwick Mill Fire
Workorder: 1511E55

ANALYTICAL QC SUMMARY REPORT

BatchID: 215991

Sample ID: MB-215991	Client ID:	Units: mg/L-LAS				Prep Date: 11/16/2015	Run No: 304482				
SampleType: MBLK	TestCode: Surfactants (MBAS) by SM5540C	BatchID: 215991				Analysis Date: 11/16/2015	Seq No: 6519663				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

MBAS BRL 0.100

Sample ID: LCS-215991	Client ID:	Units: mg/L-LAS				Prep Date: 11/16/2015	Run No: 304482				
SampleType: LCS	TestCode: Surfactants (MBAS) by SM5540C	BatchID: 215991				Analysis Date: 11/16/2015	Seq No: 6519664				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

MBAS 0.4809 0.100 0.5000 96.2 80 120

Sample ID: 1511E55-001FMS	Client ID: OBM-RUNOFF-01	Units: mg/L-LAS	Prep Date: 11/16/2015	Run No: 304482							
SampleType: MS	TestCode: Surfactants (MBAS) by SM5540C	BatchID: 215991	Analysis Date: 11/16/2015	Seq No: 6519671							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

MBAS 0.7040 0.100 0.5000 0.2839 84.0 70 130

Sample ID: 1511E55-001FMSD	Client ID: OBM-RUNOFF-01	Units: mg/L-LAS	Prep Date: 11/16/2015	Run No: 304482							
SampleType: MSD	TestCode: Surfactants (MBAS) by SM5540C	BatchID: 215991	Analysis Date: 11/16/2015	Seq No: 6519673							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

MBAS 0.7096 0.100 0.5000 0.2839 85.1 70 130 0.7040 0.792 30

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Old Barnwick Mill Fire
Workorder: 1511E55

ANALYTICAL QC SUMMARY REPORT

BatchID: 216282

Sample ID: MB-216282	Client ID:	Units: mg/L				Prep Date: 11/16/2015	Run No: 305018				
SampleType: MBLK	TestCode: Biochemical Oxygen Demand (5 Day) by SM5210B	BatchID: 216282				Analysis Date: 11/16/2015	Seq No: 6533476				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Biochemical Oxygen Demand BRL 0.2

Sample ID: LCS-216282	Client ID:					Units: mg/L	Prep Date: 11/16/2015	Run No: 305018			
SampleType: LCS	TestCode: Biochemical Oxygen Demand (5 Day) by SM5210B					BatchID: 216282	Analysis Date: 11/16/2015	Seq No: 6533477			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Biochemical Oxygen Demand 202.3 5.0 198.0 102 85 115

Sample ID: LCSD-216282	Client ID:	Units: mg/L				Prep Date: 11/16/2015	Run No: 305018				
SampleType: LCSD	TestCode: Biochemical Oxygen Demand (5 Day) by SM5210B	BatchID: 216282				Analysis Date: 11/16/2015	Seq No: 6533496				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Biochemical Oxygen Demand 200.8 5.0 198.0 101 85 115 202.3 0.744 20

Client: Tetra Tech EM Inc.
Project Name: Old Barnwick Mill Fire
Workorder: 1511E55

ANALYTICAL QC SUMMARY REPORT

BatchID: R304426

Sample ID: MB-R304426	Client ID:					Units: mg/L	Prep Date:			Run No: 304426	
SampleType: MBLK	TestCode: Total Residual Chlorine by SM4500-Cl-G					BatchID: R304426	Analysis Date: 11/16/2015			Seq No: 6518145	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorine, Total Residual BRL 0.200

Sample ID: LCS-R304426		Client ID:			Units: mg/L		Prep Date:		Run No: 304426		
SampleType: LCS		TestCode: Total Residual Chlorine by SM4500-Cl-G			BatchID: R304426		Analysis Date: 11/16/2015		Seq No: 6518146		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorine, Total Residual 0.6480 0.200 0.7000 92.6 85 115

Sample ID: 1511B00-001GMS	Client ID:					Units: mg/L	Prep Date:		Run No: 304426		
SampleType: MS	TestCode: Total Residual Chlorine by SM4500-Cl-G					BatchID: R304426	Analysis Date: 11/16/2015		Seq No: 6518159		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorine, Total Residual 0.3230 0.200 0.5000 64.6 80 120 SH

Sample ID: 1511B00-001GMSD		Client ID:				Units: mg/L		Prep Date:		Run No: 304426	
SampleType: MSD		TestCode: Total Residual Chlorine by SM4500-Cl-G				BatchID: R304426		Analysis Date: 11/16/2015		Seq No: 6518163	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorine, Total Residual 0.3100 0.200 0.5000 62.0 80 120 0.3230 4.11 40 SH

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
 Project Name: Old Barnwick Mill Fire
 Workorder: 1511E55

ANALYTICAL QC SUMMARY REPORT

BatchID: R304451

Sample ID: MB-R304451	Client ID:					Units: mg/L	Prep Date:		Run No: 304451		
SampleType: MBLK	TestCode: Chemical Oxygen Demand (COD) E410.4					BatchID: R304451	Analysis Date: 11/16/2015		Seq No: 6518790		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chemical Oxygen Demand BRL 10.0

Sample ID: LCS-R304451	Client ID:					Units: mg/L	Prep Date:		Run No: 304451		
SampleType: LCS	TestCode: Chemical Oxygen Demand (COD) E410.4					BatchID: R304451	Analysis Date: 11/16/2015		Seq No: 6518791		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chemical Oxygen Demand 495.8 10.0 500.0 99.2 90 110

Sample ID: 1511839-022DMS	Client ID:					Units: mg/L	Prep Date:		Run No: 304451		
SampleType: MS	TestCode: Chemical Oxygen Demand (COD) E410.4					BatchID: R304451	Analysis Date: 11/16/2015		Seq No: 6519780		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chemical Oxygen Demand 444.1 12.5 375.0 64.90 101 90 110

Sample ID: 1511B38-001AMS	Client ID:					Units: mg/L	Prep Date:		Run No: 304451		
SampleType: MS	TestCode: Chemical Oxygen Demand (COD) E410.4					BatchID: R304451	Analysis Date: 11/16/2015		Seq No: 6518799		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chemical Oxygen Demand 392.2 12.5 375.0 11.90 101 90 110

Sample ID: 1511B38-001AMSD	Client ID:					Units: mg/L	Prep Date:		Run No: 304451		
SampleType: MSD	TestCode: Chemical Oxygen Demand (COD) E410.4					BatchID: R304451	Analysis Date: 11/16/2015		Seq No: 6518800		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chemical Oxygen Demand 392.2 12.5 375.0 11.90 101 90 110 392.2 0 30

Qualifiers:

> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Tetra Tech EM Inc.
Project Name: Old Barnwick Mill Fire
Workorder: 1511E55

ANALYTICAL QC SUMMARY REPORT

BatchID: R304465

Sample ID: MB-R304465		Client ID:				Units: mg/L		Prep Date:		Run No: 304465	
SampleType: MBLK		TestCode: Inorganic Anions by IC E300.0				BatchID: R304465		Analysis Date: 11/16/2015		Seq No: 6519173	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrogen, Nitrate (As N) BRL 0.250

Sample ID: LCS-R304465	Client ID:					Units: mg/L	Prep Date:		Run No: 304465		
SampleType: LCS	TestCode: Inorganic Anions by IC E300.0					BatchID: R304465	Analysis Date: 11/16/2015		Seq No: 6519172		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrogen, Nitrate (As N) 5.294 0.250 5.000 106 90 110

Sample ID: 1511E55-001GMS	Client ID: OBM-RUNOFF-01	Units: mg/L	Prep Date:	Run No: 304465							
SampleType: MS	TestCode: Inorganic Anions by IC E300.0	BatchID: R304465	Analysis Date: 11/16/2015	Seq No: 6519176							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrogen, Nitrate (As N) 6.634 0.250 5.000 1.216 108 90 110

Sample ID: 1511E55-001GMSD	Client ID: OBM-RUNOFF-01	Units: mg/L	Prep Date:	Run No: 304465							
SampleType: MSD	TestCode: Inorganic Anions by IC E300.0	BatchID: R304465	Analysis Date: 11/16/2015	Seq No: 6519177							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrogen, Nitrate (As N) 6.671 0.250 5.000 1.216 109 90 110 6.634 0.553 20

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Tetra Tech EM Inc.
Project Name: Old Barnwick Mill Fire
Workorder: 1511E55

ANALYTICAL QC SUMMARY REPORT

BatchID: R304490

Sample ID: MB-R304490	Client ID:					Units: mg/L	Prep Date:			Run No: 304490	
SampleType: MBLK	TestCode: Hexavalent Chromium in Water	SW7196A				BatchID: R304490	Analysis Date: 11/16/2015			Seq No: 6519773	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chromium, Hexavalent BRL 0.0100

Sample ID: LCS-R304490	Client ID:					Units: mg/L	Prep Date:			Run No: 304490	
SampleType: LCS	TestCode: Hexavalent Chromium in Water	SW7196A				BatchID: R304490	Analysis Date: 11/16/2015			Seq No: 6519774	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.5210 0.0100 0.5000 104 90 110

Sample ID: 1511E55-001DMS	Client ID: OBM-RUNOFF-01	Units: mg/L		Prep Date:	Run No: 304490						
SampleType: MS	TestCode: Hexavalent Chromium in Water SW7196A	BatchID: R304490		Analysis Date: 11/16/2015	Seq No: 6519778						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.4755 0.0100 0.5000 95.1 85 115

Sample ID: 1511E55-001DMSD	Client ID: OBM-RUNOFF-01	Units: mg/L		Prep Date:	Run No: 304490						
SampleType: MSD	TestCode: Hexavalent Chromium in Water SW7196A	BatchID: R304490		Analysis Date: 11/16/2015	Seq No: 6519779						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chromium, Hexavalent 0.4568 0.0100 0.5000 91.4 85 115 0.4755 4.01 20

Client: Tetra Tech EM Inc.
Project Name: Old Barnwick Mill Fire
Workorder: 1511E55

ANALYTICAL QC SUMMARY REPORT

BatchID: R304588

Sample ID: MB-R304588	Client ID:					Units: Colonies/100ml	Prep Date:	Run No: 304588			
SampleType: MBLK	TestCode: Fecal Coliform (MF)	SM9222D-1997				BatchID: R304588	Analysis Date: 11/16/2015	Seq No: 6522254			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Fecal Coliform, (MF) BRL 2

Sample ID: MB-R304588-2	Client ID:				Units: Colonies/100ml		Prep Date:		Run No: 304588		
SampleType: MBLK	TestCode: Fecal Coliform (MF)		SM9222D-1997		BatchID: R304588		Analysis Date: 11/16/2015		Seq No: 6522257		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Fecal Coliform, (MF) BRL 2

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		