



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

November 09, 2018

Mark Moore
Approach Environmental, LLC
151 Freestate Blvd.
Suite B
Shreveport, LA 71107
TEL: 318 222 2424
FAX

Order No.: 18100983

RE: Approach Environmental - LDNR Residential Water Wells

Dear Mark Moore:

Element Materials Technology Lafayette received 2 sample(s) on 10/26/2018 for the analyses presented in the following report.

In accordance with your instructions Element Lafayette conducted the analysis shown on the following pages on samples submitted by your company. The results related only to the items tested. Unless otherwise noted, all analyses were conducted using EPA approved methodologies and all test results meet all requirements of TNI. All relevant sampling information is on the attached Chain-of-Custody form.

All soil data, except for 29-B, are on a wet-weight basis unless otherwise indicated in the units field as -dry.

LELAP Certification No.: 01997. TCEQ Certification No.: T104704261. LDHH Certification No.: LA180028. ISDH Certification No.: C-LA-01. A scope of accredited parameters is available upon request. A "#" by the test method or analyte indicates this parameter is outside the scope of accreditation.

Estimated uncertainty is available upon request. This report shall not be reproduced except in full, without the written approval of the laboratory.

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

Cristina Thibeaux
Customer Service Supervisor
2417 W. Pinhook Road
Lafayette, LA 70508-3344



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Case Narrative

WO#: 18100983
Date: 11/9/2018

CLIENT: Approach Environmental, LLC
Project: Approach Environmental - LDNR Residential Water Wells

Unless specified by the client, a duplicate or MS/MSD, wherever applicable, is randomly selected and analyzed from each analytical batch provided sample volume is sufficient. The sample chosen for duplicate or MS/MSD may or may not be a sample submitted in this workorder. A method blank and/or a lab control sample (LCS)/lab control sample duplicate (LCSD), wherever applicable, are processed as a quality control check for each analytical batch. When the matrix QC data is not available due to insufficient sample volume or when the results indicate possible matrix effect, the validity of the batch is determined by the method blank and LCS/LCSD.

The results of the laboratory internal quality control data are provided in the QC Summary Report section of the report for your review. Laboratory-related QC exceptions that may impact the validity of data are discussed in the case narrative. Sample-related QC exceptions are flagged either in the results page(s) or in the QC report page(s). End users should consider QC exceptions when evaluating sample data against data quality objectives.

Any other exceptions associated with this report will be footnoted in the results page(s) or the QC summary page(s).

The Dissolved Methane (RSK175) analysis was subcontracted to Gulf Coast Analytical Laboratories, Inc. Their report is attached in its entirety.



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Analytical Report

(consolidated MDL)

WO#: **18100983**

Date Reported **11/9/2018**

CLIENT: Approach Environmental, LLC **Collection Date:** 10/25/2018 3:45:00 PM
Project: Approach Environmental - LDNR Residential Water Wells
Lab ID: 18100983-001 **Matrix:** WATER
Client Sample ID 9312 Z Tommie Nitén

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TPH-D/O IN WATER BY SW8015					SW8015B	SW3511	Analyst: CRM
TPH DRO/ORO IN WATER BY SW8015							
TPH (Diesel Range)	< 0.135	0.00412	0.135		mg/L	1	10/26/2018 3:26:00 PM
TPH (Oil Range)	< 0.124	0.0491	0.124		mg/L	1	10/26/2018 3:26:00 PM
Surr: 4-Terphenyl-d14	61.8		51.4-146		%Rec	1	10/26/2018 3:26:00 PM
TPH-GRO IN WATER BY SW8015					SW8015B		Analyst: CRM
TPH (Gasoline Range)	0.0404	0.0149	0.150	J	mg/L	1	10/26/2018 2:36:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	106		70-130		%Rec	1	10/26/2018 2:36:00 PM
RCRA METALS - SW6010/7470A					SW7470A		Analyst: AC
MERCURY IN GROUND WATER, TOTAL							
Mercury	< 0.000200	0.0000540	0.000200		mg/L	1	10/30/2018 3:10:34 PM
INORGANIC ANIONS IN WATER BY IC					SW9056A		Analyst: SGP
Chloride	59.2	0.332	5.00		mg/L	20	10/31/2018 10:39:38 AM
RCRA METALS - SW6010/7470A					SW6010B		Analyst: STS
METALS IN WATER BY ICP, TOTALS							
Arsenic	0.0135	0.00895	0.0100		mg/L	1	10/30/2018 9:07:20 PM
Barium	0.0181	0.00103	0.0100		mg/L	1	10/30/2018 9:07:20 PM
Cadmium	< 0.00500	0.000781	0.00500		mg/L	1	10/30/2018 9:07:20 PM
Chromium	< 0.0100	0.000483	0.0100		mg/L	1	10/30/2018 9:07:20 PM
Lead	< 0.0100	0.00488	0.0100		mg/L	1	10/30/2018 9:07:20 PM
Selenium	0.0133	0.00526	0.0200	J	mg/L	1	10/30/2018 9:07:20 PM
Silver	< 0.00500	0.000340	0.00500		mg/L	1	10/30/2018 9:07:20 PM
Sodium	252	2.32	5.00		mg/L	1	10/30/2018 9:07:20 PM
PAH IN WATER BY EPA 8270C					SW8270C	SW3511	Analyst: CRM
2-Methylnaphthalene	< 0.000522	0.0000196	0.000522		mg/L	1	10/26/2018 8:59:00 PM
Acenaphthene	< 0.00104	0.0000544	0.00104		mg/L	1	10/26/2018 8:59:00 PM
Acenaphthylene	< 0.00104	0.000117	0.00104		mg/L	1	10/26/2018 8:59:00 PM

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	C Value is below Minimum Compound Limit.	DF Dilution Factor
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	M Matrix Interference
	ND Not Detected at the Reporting Limit	R RPD outside accepted recovery limits



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Lab ID: 18100983-001 **Matrix:** WATER
Client Sample ID 9312 Z Tommie Nitén

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PAH IN WATER BY EPA 8270C					SW8270C	SW3511	Analyst: CRM
Anthracene	< 0.00104	0.00000622	0.00104		mg/L	1	10/26/2018 8:59:00 PM
Benzo(a)anthracene	< 0.000522	0.0000254	0.000522		mg/L	1	10/26/2018 8:59:00 PM
Benzo(a)pyrene	< 0.000178	0.0000474	0.000178		mg/L	1	10/26/2018 8:59:00 PM
Benzo(b)fluoranthene	< 0.000522	0.0000446	0.000522		mg/L	1	10/26/2018 8:59:00 PM
Benzo(k)fluoranthene	< 0.000522	0.0000641	0.000522		mg/L	1	10/26/2018 8:59:00 PM
Chrysene	< 0.000522	0.0000252	0.000522		mg/L	1	10/26/2018 8:59:00 PM
Dibenz(a,h)anthracene	< 0.00104	0.0000537	0.00104		mg/L	1	10/26/2018 8:59:00 PM
Fluoranthene	< 0.00104	0.000000564	0.00104		mg/L	1	10/26/2018 8:59:00 PM
Fluorene	< 0.000626	0.0000241	0.000626		mg/L	1	10/26/2018 8:59:00 PM
Indeno(1,2,3-cd)pyrene	< 0.000522	0.000150	0.000522		mg/L	1	10/26/2018 8:59:00 PM
Naphthalene	< 0.00104	0.0000269	0.00104		mg/L	1	10/26/2018 8:59:00 PM
Phenanthrene	< 0.00104	0.00000311	0.00104		mg/L	1	10/26/2018 8:59:00 PM
Pyrene	< 0.00104	0.00000121	0.00104		mg/L	1	10/26/2018 8:59:00 PM
Surr: 4-Terphenyl-d14	84.1	0	49.2-161		%Rec	1	10/26/2018 8:59:00 PM

SEMIVOLATILE ORGANICS IN WATER					SW8270C	E625/SW351	Analyst: KSK
1,2,4,5-Tetrachlorobenzene	< 0.00100	0.000500	0.00100		mg/L	1	10/26/2018 5:16:00 PM
1,2,4-Trichlorobenzene	< 0.00500	0.00100	0.00500		mg/L	1	10/26/2018 5:16:00 PM
1,2-Dichlorobenzene	< 0.00500	0.00100	0.00500		mg/L	1	10/26/2018 5:16:00 PM
1,3-Dichlorobenzene	< 0.00500	0.000504	0.00500		mg/L	1	10/26/2018 5:16:00 PM
1,3-Dinitrobenzene	< 0.00500	0.000500	0.00500		mg/L	1	10/26/2018 5:16:00 PM
1,4-Dichlorobenzene	< 0.00500	0.00100	0.00500		mg/L	1	10/26/2018 5:16:00 PM
2,3,4,6-Tetrachlorophenol	< 0.00500	0.000500	0.00500		mg/L	1	10/26/2018 5:16:00 PM
2,4,5-Trichlorophenol	< 0.0100	0.000500	0.0100		mg/L	1	10/26/2018 5:16:00 PM
2,4,6-Trichlorophenol	< 0.00500	0.000500	0.00500		mg/L	1	10/26/2018 5:16:00 PM
2,4-Dichlorophenol	< 0.00500	0.000500	0.00500		mg/L	1	10/26/2018 5:16:00 PM
2,4-Dimethylphenol	< 0.00500	0.000556	0.00500		mg/L	1	10/26/2018 5:16:00 PM
2,4-Dinitrophenol	< 0.0200	0.00200	0.0200		mg/L	1	10/26/2018 5:16:00 PM
2,4-Dinitrotoluene	< 0.00500	0.000500	0.00500		mg/L	1	10/26/2018 5:16:00 PM
2,6-Dinitrotoluene	< 0.00500	0.000500	0.00500		mg/L	1	10/26/2018 5:16:00 PM
2-Chloronaphthalene	< 0.00500	0.0000614	0.00500		mg/L	1	10/26/2018 5:16:00 PM
2-Chlorophenol	< 0.00500	0.0000539	0.00500		mg/L	1	10/26/2018 5:16:00 PM
2-Nitroaniline	< 0.00500	0.000500	0.00500		mg/L	1	10/26/2018 5:16:00 PM

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 J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit

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Date Reported **11/9/2018**

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Project: Approach Environmental - LDNR Residential Water Wells
Lab ID: 18100983-001 **Matrix:** WATER
Client Sample ID 9312 Z Tommie Nitén

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANICS IN WATER					SW8270C	E625/SW351	Analyst: KSK
3,3'-Dichlorobenzidine	< 0.0100	0.000477	0.0100		mg/L	1	10/26/2018 5:16:00 PM
3-Nitroaniline	< 0.0200	0.000500	0.0200		mg/L	1	10/26/2018 5:16:00 PM
4-Chloroaniline	< 0.00500	0.000237	0.00500		mg/L	1	10/26/2018 5:16:00 PM
4-Nitroaniline	< 0.00500	0.000500	0.00500		mg/L	1	10/26/2018 5:16:00 PM
4-Nitrophenol	< 0.0200	0.00500	0.0200		mg/L	1	10/26/2018 5:16:00 PM
Aniline	< 0.00500	0.000490	0.00500		mg/L	1	10/26/2018 5:16:00 PM
Biphenyl	< 0.00500	0.000500	0.00500		mg/L	1	10/26/2018 5:16:00 PM
Bis(2-chloroethyl)ether	< 0.00500	0.0000817	0.00500		mg/L	1	10/26/2018 5:16:00 PM
Bis(2-chloroisopropyl)ether	< 0.00500	0.000500	0.00500		mg/L	1	10/26/2018 5:16:00 PM
Bis(2-ethylhexyl)phthalate	0.00196	0.000302	0.00500	J	mg/L	1	10/26/2018 5:16:00 PM
Butyl benzyl phthalate	< 0.00500	0.000106	0.00500		mg/L	1	10/26/2018 5:16:00 PM
Dibenzofuran	< 0.00500	0.0000800	0.00500		mg/L	1	10/26/2018 5:16:00 PM
Diethyl phthalate	< 0.00500	0.000500	0.00500		mg/L	1	10/26/2018 5:16:00 PM
Dimethyl phthalate	< 0.00500	0.000500	0.00500		mg/L	1	10/26/2018 5:16:00 PM
Di-n-octyl phthalate	0.00153	0.000182	0.0100	J	mg/L	1	10/26/2018 5:16:00 PM
Dinoseb	< 0.00500	0.000300	0.00500		mg/L	1	10/26/2018 5:16:00 PM
Hexachlorobenzene	< 0.00100	0.000500	0.00100		mg/L	1	10/26/2018 5:16:00 PM
Hexachlorobutadiene	< 0.00200	0.00100	0.00200		mg/L	1	10/26/2018 5:16:00 PM
Hexachlorocyclopentadiene	< 0.0100	0.000500	0.0100		mg/L	1	10/26/2018 5:16:00 PM
Hexachloroethane	< 0.00500	0.00200	0.00500		mg/L	1	10/26/2018 5:16:00 PM
Isophorone	< 0.00500	0.000179	0.00500		mg/L	1	10/26/2018 5:16:00 PM
Nitrobenzene	< 0.00100	0.000500	0.00100		mg/L	1	10/26/2018 5:16:00 PM
N-Nitrosodi-n-propylamine	< 0.00500	0.000500	0.00500		mg/L	1	10/26/2018 5:16:00 PM
N-Nitrosodiphenylamine	< 0.00500	0.000143	0.00500		mg/L	1	10/26/2018 5:16:00 PM
Pentachlorophenol	< 0.0100	0.00100	0.0100		mg/L	1	10/26/2018 5:16:00 PM
Phenol	< 0.00500	0.0000521	0.00500		mg/L	1	10/26/2018 5:16:00 PM
Surr: 2,4,6-Tribromophenol	74.9		47.2-144		%Rec	1	10/26/2018 5:16:00 PM
Surr: 2-Fluorobiphenyl	89.8		52.2-116		%Rec	1	10/26/2018 5:16:00 PM
Surr: 2-Fluorophenol	45.4		27.3-80.6		%Rec	1	10/26/2018 5:16:00 PM
Surr: 4-Terphenyl-d14	103		48.1-134		%Rec	1	10/26/2018 5:16:00 PM
Surr: Nitrobenzene-d5	81.0		42.5-144		%Rec	1	10/26/2018 5:16:00 PM
Surr: Phenol-d5	29.7		10-67.1		%Rec	1	10/26/2018 5:16:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
C	Value is below Minimum Compound Limit.	DF	Dilution Factor
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	M	Matrix Interference
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

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Analytical Report

(consolidated MDL)

WO#: **18100983**

Date Reported **11/9/2018**

CLIENT: Approach Environmental, LLC **Collection Date:** 10/25/2018 3:45:00 PM
Project: Approach Environmental - LDNR Residential Water Wells
Lab ID: 18100983-001 **Matrix:** WATER
Client Sample ID 9312 Z Tommie Nitén

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS IN WATER				SW8260B		Analyst: KSK	
1,1,1,2-Tetrachloroethane	< 0.00500	0.000200	0.00500		mg/L	1	10/26/2018 10:54:00 AM
1,1,1-Trichloroethane	< 0.00500	0.000200	0.00500		mg/L	1	10/26/2018 10:54:00 AM
1,1,2,2-Tetrachloroethane	< 0.000500	0.000150	0.000500		mg/L	1	10/26/2018 10:54:00 AM
1,1,2-Trichloroethane	< 0.00500	0.000172	0.00500		mg/L	1	10/26/2018 10:54:00 AM
1,1-Dichloroethane	< 0.00500	0.000200	0.00500		mg/L	1	10/26/2018 10:54:00 AM
1,1-Dichloroethene	< 0.00500	0.000361	0.00500		mg/L	1	10/26/2018 10:54:00 AM
1,2-Dibromo-3-chloropropane	< 0.00500	0.000210	0.00500		mg/L	1	10/26/2018 10:54:00 AM
1,2-Dichlorobenzene	< 0.0200	0.000500	0.0200		mg/L	1	10/26/2018 10:54:00 AM
1,2-Dichloroethane	< 0.00500	0.000500	0.00500		mg/L	1	10/26/2018 10:54:00 AM
1,2-Dichloroethene, Total	< 0.00600	0.000400	0.00600		mg/L	1	10/26/2018 10:54:00 AM
1,2-Dichloropropane	< 0.00500	0.000148	0.00500		mg/L	1	10/26/2018 10:54:00 AM
1,3-Dichlorobenzene	< 0.0100	0.000500	0.0100		mg/L	1	10/26/2018 10:54:00 AM
1,4-Dichlorobenzene	< 0.0200	0.000500	0.0200		mg/L	1	10/26/2018 10:54:00 AM
2-Butanone	< 0.0100	0.000442	0.0100		mg/L	1	10/26/2018 10:54:00 AM
4-Methyl-2-pentanone	< 0.0100	0.000325	0.0100		mg/L	1	10/26/2018 10:54:00 AM
Acetone	< 0.0100	0.00226	0.0100		mg/L	1	10/26/2018 10:54:00 AM
Benzene	< 0.00500	0.000200	0.00500		mg/L	1	10/26/2018 10:54:00 AM
Bromodichloromethane	< 0.00500	0.000136	0.00500		mg/L	1	10/26/2018 10:54:00 AM
Bromoform	< 0.00500	0.000500	0.00500		mg/L	1	10/26/2018 10:54:00 AM
Bromomethane	< 0.00500	0.000688	0.00500		mg/L	1	10/26/2018 10:54:00 AM
Carbon disulfide	< 0.0100	0.000133	0.0100		mg/L	1	10/26/2018 10:54:00 AM
Carbon tetrachloride	< 0.00500	0.0000773	0.00500		mg/L	1	10/26/2018 10:54:00 AM
Chlorobenzene	< 0.00500	0.000200	0.00500		mg/L	1	10/26/2018 10:54:00 AM
Chlorodibromomethane	< 0.00500	0.000170	0.00500		mg/L	1	10/26/2018 10:54:00 AM
Chloroethane	< 0.0100	0.00155	0.0100		mg/L	1	10/26/2018 10:54:00 AM
Chloroform	< 0.00500	0.000200	0.00500		mg/L	1	10/26/2018 10:54:00 AM
Chloromethane	< 0.00500	0.00200	0.00500		mg/L	1	10/26/2018 10:54:00 AM
cis-1,2-Dichloroethene	< 0.00300	0.000200	0.00300		mg/L	1	10/26/2018 10:54:00 AM
cis-1,3-Dichloropropene	< 0.00200	0.000500	0.00200		mg/L	1	10/26/2018 10:54:00 AM
Ethylbenzene	< 0.00500	0.000200	0.00500		mg/L	1	10/26/2018 10:54:00 AM
Isobutyl alcohol	< 0.100	0.00400	0.100		mg/L	1	10/26/2018 10:54:00 AM
Methyl tert-butyl ether	< 0.00500	0.000500	0.00500		mg/L	1	10/26/2018 10:54:00 AM
Methylene chloride	< 0.00500	0.000457	0.00500		mg/L	1	10/26/2018 10:54:00 AM
Styrene	< 0.00500	0.000200	0.00500		mg/L	1	10/26/2018 10:54:00 AM

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 ND Not Detected at the Reporting Limit

B Analyte detected in the associated Method Blank
 DF Dilution Factor
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Client Sample ID 9312 Z Tommie Nitén

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS IN WATER				SW8260B		Analyst: KSK	
Tetrachloroethene	< 0.00500	0.000200	0.00500		mg/L	1	10/26/2018 10:54:00 AM
Toluene	< 0.00500	0.000200	0.00500		mg/L	1	10/26/2018 10:54:00 AM
trans-1,2-Dichloroethene	< 0.00300	0.000204	0.00300		mg/L	1	10/26/2018 10:54:00 AM
trans-1,3-Dichloropropene	< 0.00200	0.000500	0.00200		mg/L	1	10/26/2018 10:54:00 AM
Trichloroethene	< 0.00500	0.000500	0.00500		mg/L	1	10/26/2018 10:54:00 AM
Trichlorofluoromethane	< 0.00500	0.00200	0.00500		mg/L	1	10/26/2018 10:54:00 AM
Vinyl chloride	< 0.00200	0.00200	0.00200		mg/L	1	10/26/2018 10:54:00 AM
Xylenes, Total	< 0.0150	0.00150	0.0150		mg/L	1	10/26/2018 10:54:00 AM
Surr: 4-Bromofluorobenzene	106		65.1-136		%Rec	1	10/26/2018 10:54:00 AM
Surr: Dibromofluoromethane	103		40.4-143		%Rec	1	10/26/2018 10:54:00 AM
Surr: Toluene-d8	102		58.2-127		%Rec	1	10/26/2018 10:54:00 AM
TOTAL DISSOLVED SOLIDS				SM2540C		Analyst: GMS	
Total Dissolved Solids (Residue, Filterable)	635	11.9	20.0		mg/L	1	10/26/2018 10:22:00 AM

Qualifiers:

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ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

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WO#: **18100983**

Date Reported **11/9/2018**

CLIENT: Approach Environmental, LLC **Collection Date:** 10/25/2018
Project: Approach Environmental - LDNR Residential Water Wells
Lab ID: 18100983-002 **Matrix:** WATER
Client Sample ID Trip Blank

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TPH-GRO IN WATER BY SW8015			SW8015B		Analyst: CRM		
TPH (Gasoline Range)	0.0461	0.0149	0.150	J	mg/L	1	10/26/2018 2:09:00 PM
Surr: alpha, alpha, alpha-Trifluorotoluene	104		70-130		%Rec	1	10/26/2018 2:09:00 PM
VOLATILES BY GC/MS IN WATER			SW8260B		Analyst: KSK		
1,1,1,2-Tetrachloroethane	< 0.00500	0.000200	0.00500		mg/L	1	10/26/2018 11:15:00 AM
1,1,1-Trichloroethane	< 0.00500	0.000200	0.00500		mg/L	1	10/26/2018 11:15:00 AM
1,1,2,2-Tetrachloroethane	< 0.000500	0.000150	0.000500		mg/L	1	10/26/2018 11:15:00 AM
1,1,2-Trichloroethane	< 0.00500	0.000172	0.00500		mg/L	1	10/26/2018 11:15:00 AM
1,1-Dichloroethane	< 0.00500	0.000200	0.00500		mg/L	1	10/26/2018 11:15:00 AM
1,1-Dichloroethene	< 0.00500	0.000361	0.00500		mg/L	1	10/26/2018 11:15:00 AM
1,2-Dibromo-3-chloropropane	< 0.00500	0.000210	0.00500		mg/L	1	10/26/2018 11:15:00 AM
1,2-Dichlorobenzene	< 0.0200	0.000500	0.0200		mg/L	1	10/26/2018 11:15:00 AM
1,2-Dichloroethane	< 0.00500	0.000500	0.00500		mg/L	1	10/26/2018 11:15:00 AM
1,2-Dichloroethene, Total	< 0.00600	0.000400	0.00600		mg/L	1	10/26/2018 11:15:00 AM
1,2-Dichloropropane	< 0.00500	0.000148	0.00500		mg/L	1	10/26/2018 11:15:00 AM
1,3-Dichlorobenzene	< 0.0100	0.000500	0.0100		mg/L	1	10/26/2018 11:15:00 AM
1,4-Dichlorobenzene	< 0.0200	0.000500	0.0200		mg/L	1	10/26/2018 11:15:00 AM
2-Butanone	< 0.0100	0.000442	0.0100		mg/L	1	10/26/2018 11:15:00 AM
4-Methyl-2-pentanone	< 0.0100	0.000325	0.0100		mg/L	1	10/26/2018 11:15:00 AM
Acetone	< 0.0100	0.00226	0.0100		mg/L	1	10/26/2018 11:15:00 AM
Benzene	< 0.00500	0.000200	0.00500		mg/L	1	10/26/2018 11:15:00 AM
Bromodichloromethane	< 0.00500	0.000136	0.00500		mg/L	1	10/26/2018 11:15:00 AM
Bromoform	< 0.00500	0.000500	0.00500		mg/L	1	10/26/2018 11:15:00 AM
Bromomethane	< 0.00500	0.000688	0.00500		mg/L	1	10/26/2018 11:15:00 AM
Carbon disulfide	< 0.0100	0.000133	0.0100		mg/L	1	10/26/2018 11:15:00 AM
Carbon tetrachloride	< 0.00500	0.0000773	0.00500		mg/L	1	10/26/2018 11:15:00 AM
Chlorobenzene	< 0.00500	0.000200	0.00500		mg/L	1	10/26/2018 11:15:00 AM
Chlorodibromomethane	< 0.00500	0.000170	0.00500		mg/L	1	10/26/2018 11:15:00 AM
Chloroethane	< 0.0100	0.00155	0.0100		mg/L	1	10/26/2018 11:15:00 AM
Chloroform	< 0.00500	0.000200	0.00500		mg/L	1	10/26/2018 11:15:00 AM
Chloromethane	< 0.00500	0.00200	0.00500		mg/L	1	10/26/2018 11:15:00 AM
cis-1,2-Dichloroethene	< 0.00300	0.000200	0.00300		mg/L	1	10/26/2018 11:15:00 AM

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	C Value is below Minimum Compound Limit.	DF Dilution Factor
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	M Matrix Interference
	ND Not Detected at the Reporting Limit	R RPD outside accepted recovery limits



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Analytical Report

(consolidated MDL)

WO#: **18100983**

Date Reported **11/9/2018**

CLIENT: Approach Environmental, LLC **Collection Date:** 10/25/2018
Project: Approach Environmental - LDNR Residential Water Wells
Lab ID: 18100983-002 **Matrix:** WATER
Client Sample ID Trip Blank

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
VOLATILES BY GC/MS IN WATER				SW8260B		Analyst: KSK	
cis-1,3-Dichloropropene	< 0.00200	0.000500	0.00200		mg/L	1	10/26/2018 11:15:00 AM
Ethylbenzene	< 0.00500	0.000200	0.00500		mg/L	1	10/26/2018 11:15:00 AM
Isobutyl alcohol	< 0.100	0.00400	0.100		mg/L	1	10/26/2018 11:15:00 AM
Methyl tert-butyl ether	< 0.00500	0.000500	0.00500		mg/L	1	10/26/2018 11:15:00 AM
Methylene chloride	< 0.00500	0.000457	0.00500		mg/L	1	10/26/2018 11:15:00 AM
Styrene	< 0.00500	0.000200	0.00500		mg/L	1	10/26/2018 11:15:00 AM
Tetrachloroethene	< 0.00500	0.000200	0.00500		mg/L	1	10/26/2018 11:15:00 AM
Toluene	< 0.00500	0.000200	0.00500		mg/L	1	10/26/2018 11:15:00 AM
trans-1,2-Dichloroethene	< 0.00300	0.000204	0.00300		mg/L	1	10/26/2018 11:15:00 AM
trans-1,3-Dichloropropene	< 0.00200	0.000500	0.00200		mg/L	1	10/26/2018 11:15:00 AM
Trichloroethene	< 0.00500	0.000500	0.00500		mg/L	1	10/26/2018 11:15:00 AM
Trichlorofluoromethane	< 0.00500	0.00200	0.00500		mg/L	1	10/26/2018 11:15:00 AM
Vinyl chloride	< 0.00200	0.00200	0.00200		mg/L	1	10/26/2018 11:15:00 AM
Xylenes, Total	< 0.0150	0.00150	0.0150		mg/L	1	10/26/2018 11:15:00 AM
Surr: 4-Bromofluorobenzene	102		65.1-136		%Rec	1	10/26/2018 11:15:00 AM
Surr: Dibromofluoromethane	102		40.4-143		%Rec	1	10/26/2018 11:15:00 AM
Surr: Toluene-d8	107		58.2-127		%Rec	1	10/26/2018 11:15:00 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
C Value is below Minimum Compound Limit.	DF Dilution Factor
E Value above quantitation range	H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits	M Matrix Interference
ND Not Detected at the Reporting Limit	R RPD outside accepted recovery limits

Page 9 of 53



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QC SUMMARY REPORT

WO#: 18100983
 09-Nov-18

Client: Approach Environmental, LLC

Project: Approach Environmental - LDNR Residential

BatchID: 28141

Sample ID: MB-28141	SampType: MBLK	TestCode: 8270_W_REC	Units: mg/L	Prep Date: 10/25/2018	RunNo: 73627						
Client ID: PBW	Batch ID: 28141	TestNo: SW8270C	E625/SW3510	Analysis Date: 10/26/2018	SeqNo: 1841977						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2,4,5-Tetrachlorobenzene	< 0.00100	0.00100									
1,2,4-Trichlorobenzene	< 0.00500	0.00500									
1,2-Dichlorobenzene	< 0.00500	0.00500									
1,3-Dichlorobenzene	< 0.00500	0.00500									
1,3-Dinitrobenzene	< 0.00500	0.00500									
1,4-Dichlorobenzene	< 0.00500	0.00500									
2,3,4,6-Tetrachlorophenol	< 0.00500	0.00500									
2,4,5-Trichlorophenol	< 0.0100	0.0100									
2,4,6-Trichlorophenol	< 0.00500	0.00500									
2,4-Dichlorophenol	< 0.00500	0.00500									
2,4-Dimethylphenol	< 0.00500	0.00500									
2,4-Dinitrophenol	< 0.0200	0.0200									
2,4-Dinitrotoluene	< 0.00500	0.00500									
2,6-Dinitrotoluene	< 0.00500	0.00500									
2-Chloronaphthalene	< 0.00500	0.00500									
2-Chlorophenol	< 0.00500	0.00500									
2-Nitroaniline	< 0.00500	0.00500									
3,3'-Dichlorobenzidine	< 0.0100	0.0100									
3-Nitroaniline	< 0.0200	0.0200									
4-Chloroaniline	< 0.00500	0.00500									
4-Nitroaniline	< 0.00500	0.00500									
4-Nitrophenol	< 0.0200	0.0200									
Aniline	< 0.00500	0.00500									
Biphenyl	< 0.00500	0.00500									
Bis(2-chloroethyl)ether	< 0.00500	0.00500									
Bis(2-chloroisopropyl)ether	< 0.00500	0.00500									

Qualifiers:	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	SDL	Sample detection limit	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode				



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QC SUMMARY REPORT

WO#: 18100983
 09-Nov-18

Client: Approach Environmental, LLC

Project: Approach Environmental - LDNR Residential

BatchID: 28141

Sample ID: MB-28141	SampType: MBLK	TestCode: 8270_W_REC	Units: mg/L	Prep Date: 10/25/2018	RunNo: 73627						
Client ID: PBW	Batch ID: 28141	TestNo: SW8270C	E625/SW3510	Analysis Date: 10/26/2018	SeqNo: 1841977						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bis(2-ethylhexyl)phthalate	< 0.00500	0.00500									
Butyl benzyl phthalate	< 0.00500	0.00500									
Dibenzofuran	< 0.00500	0.00500									
Diethyl phthalate	< 0.00500	0.00500									
Dimethyl phthalate	< 0.00500	0.00500									
Di-n-octyl phthalate	< 0.0100	0.0100									
Dinoseb	< 0.00500	0.00500									
Hexachlorobenzene	< 0.00100	0.00100									
Hexachlorobutadiene	< 0.00200	0.00200									
Hexachlorocyclopentadiene	< 0.0100	0.0100									
Hexachloroethane	< 0.00500	0.00500									
Isophorone	< 0.00500	0.00500									
Nitrobenzene	< 0.00100	0.00100									
N-Nitrosodi-n-propylamine	< 0.00500	0.00500									
N-Nitrosodiphenylamine	< 0.00500	0.00500									
Pentachlorophenol	< 0.0100	0.0100									
Phenol	< 0.00500	0.00500									
Surr: 2,4,6-Tribromophenol	0.0222		0.03000		74.0	47.2	144				
Surr: 2-Fluorobiphenyl	0.0190		0.02000		94.8	52.2	116				
Surr: 2-Fluorophenol	0.0151		0.03000		50.4	27.3	80.6				
Surr: 4-Terphenyl-d14	0.0222		0.02000		111	48.1	134				
Surr: Nitrobenzene-d5	0.0178		0.02000		88.8	42.5	144				
Surr: Phenol-d5	0.0104		0.03000		34.7	10	67.1				

Qualifiers:
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits
 W Sample container temperature is out of limit as specified at testcode

J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 SDL Sample detection limit

M Matrix Interference
 RL Reporting Limit
 U Analyte not detected



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QC SUMMARY REPORT

WO#: 18100983

09-Nov-18

Client: Approach Environmental, LLC

Project: Approach Environmental - LDNR Residential

BatchID: 28141

Sample ID: LCSD-28141	SampType: LCSD	TestCode: 8270_W_REC	Units: mg/L	Prep Date: 10/25/2018	RunNo: 73627						
Client ID: LCSS02	Batch ID: 28141	TestNo: SW8270C	E625/SW3510	Analysis Date: 10/26/2018	SeqNo: 1841978						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4,5-Tetrachlorobenzene	0.0398	0.00100	0.05000	0	79.6	51.3	119	0.03953	0.643	40	
1,2,4-Trichlorobenzene	0.0340	0.00500	0.05000	0	67.9	47.4	103	0.03375	0.656	40	
1,2-Dichlorobenzene	0.0354	0.00500	0.05000	0	70.8	32	119	0.03522	0.547	40	
1,3-Dichlorobenzene	0.0336	0.00500	0.05000	0	67.2	33.9	108	0.03339	0.597	40	
1,3-Dinitrobenzene	0.0432	0.00500	0.05000	0	86.4	56.5	132	0.04171	3.54	40	
1,4-Dichlorobenzene	0.0328	0.00500	0.05000	0	65.5	31.8	107	0.03307	0.984	40	
2,3,4,6-Tetrachlorophenol	0.0487	0.00500	0.05000	0	97.4	71.4	118	0.04776	1.90	40	
2,4,5-Trichlorophenol	0.0463	0.0100	0.05000	0	92.7	63.4	113	0.04490	3.13	40	
2,4,6-Trichlorophenol	0.0453	0.00500	0.05000	0	90.6	62.5	109	0.04384	3.29	40	
2,4-Dichlorophenol	0.0427	0.00500	0.05000	0	85.4	65.8	105	0.04116	3.63	40	
2,4-Dimethylphenol	0.0441	0.00500	0.05000	0	88.3	56.4	106	0.04265	3.42	40	
2,4-Dinitrophenol	0.0477	0.0200	0.05000	0	95.4	10	171	0.04553	4.67	40	
2,4-Dinitrotoluene	0.0428	0.00500	0.05000	0	85.6	72.6	107	0.04103	4.19	40	
2,6-Dinitrotoluene	0.0460	0.00500	0.05000	0	91.9	62.5	112	0.04493	2.27	40	
2-Chloronaphthalene	0.0385	0.00500	0.05000	0	76.9	43.2	121	0.03734	2.94	40	
2-Chlorophenol	0.0403	0.00500	0.05000	0	80.6	57.4	104	0.03877	3.86	40	
2-Nitroaniline	0.0463	0.00500	0.05000	0	92.6	71.4	120	0.04448	4.01	40	
3,3'-Dichlorobenzidine	0.0714	0.0100	0.1000	0	71.4	49.2	113	0.07104	0.577	40	
3-Nitroaniline	0.0371	0.0200	0.05000	0	74.1	37.7	116	0.03579	3.48	40	
4-Chloroaniline	0.0387	0.00500	0.05000	0	77.4	56.4	98.6	0.03712	4.23	40	
4-Nitroaniline	0.0462	0.00500	0.05000	0	92.4	64	113	0.04496	2.68	40	
4-Nitrophenol	0.0220	0.0200	0.05000	0	43.9	22.5	63.1	0.02131	2.97	40	
Aniline	0.0351	0.00500	0.05000	0	70.2	48.9	102	0.03310	5.91	40	
Biphenyl	0.0414	0.00500	0.05000	0	82.8	41.7	130	0.04000	3.40	40	
Bis(2-chloroethyl)ether	0.0399	0.00500	0.05000	0	79.8	51.9	112	0.03784	5.24	40	
Bis(2-chloroisopropyl)ether	0.0430	0.00500	0.05000	0	86.0	50.1	125	0.04021	6.70	40	

Qualifiers:
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits
 W Sample container temperature is out of limit as specified at testcode

J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 SDL Sample detection limit

M Matrix Interference
 RL Reporting Limit
 U Analyte not detected



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QC SUMMARY REPORT

WO#: 18100983
 09-Nov-18

Client: Approach Environmental, LLC

Project: Approach Environmental - LDNR Residential

BatchID: 28141

Sample ID: LCSD-28141	SampType: LCSD	TestCode: 8270_W_REC	Units: mg/L	Prep Date: 10/25/2018	RunNo: 73627						
Client ID: LCSS02	Batch ID: 28141	TestNo: SW8270C	E625/SW3510	Analysis Date: 10/26/2018	SeqNo: 1841978						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bis(2-ethylhexyl)phthalate	0.0488	0.00500	0.05000	0	97.7	46.9	137	0.04728	3.27	40	
Butyl benzyl phthalate	0.0482	0.00500	0.05000	0	96.5	47.6	134	0.04683	2.98	40	
Dibenzofuran	0.0440	0.00500	0.05000	0	87.9	59.5	126	0.04282	2.64	40	
Diethyl phthalate	0.0449	0.00500	0.05000	0	89.9	55.4	121	0.04352	3.22	40	
Dimethyl phthalate	0.0457	0.00500	0.05000	0	91.5	66	109	0.04439	3.02	40	
Di-n-octyl phthalate	0.0526	0.0100	0.05000	0	105	36.9	145	0.05037	4.28	40	
Dinoseb	0.0404	0.00500	0.05000	0	80.7	10	180	0.03925	2.81	40	
Hexachlorobenzene	0.0371	0.00100	0.05000	0	74.2	59.5	100	0.03569	3.85	40	
Hexachlorobutadiene	0.0306	0.00200	0.05000	0	61.2	43.1	101	0.03127	2.19	40	
Hexachlorocyclopentadiene	0.0368	0.0100	0.05000	0	73.5	10	151	0.03705	0.775	40	
Hexachloroethane	0.0298	0.00500	0.05000	0	59.6	22.2	110	0.03012	1.05	40	
Isophorone	0.0474	0.00500	0.05000	0	94.7	63.1	110	0.04544	4.15	40	
Nitrobenzene	0.0418	0.00100	0.05000	0	83.7	67	108	0.03988	4.77	40	
N-Nitrosodi-n-propylamine	0.0404	0.00500	0.05000	0	80.9	49.4	130	0.03808	6.02	40	
N-Nitrosodiphenylamine	0.0431	0.00500	0.05000	0	86.2	67.1	105	0.04187	2.86	40	
Pentachlorophenol	0.0350	0.0100	0.05000	0	69.9	47.1	104	0.03386	3.21	40	
Phenol	0.0205	0.00500	0.05000	0	41.0	25.2	50.1	0.01917	6.76	40	
Surr: 2,4,6-Tribromophenol	0.0219		0.03000		73.2	47.2	144		0	40	
Surr: 2-Fluorobiphenyl	0.0182		0.02000		91.0	52.2	116		0	40	
Surr: 2-Fluorophenol	0.0180		0.03000		59.8	27.3	80.6		0	40	
Surr: 4-Terphenyl-d14	0.0217		0.02000		108	48.1	134		0	40	
Surr: Nitrobenzene-d5	0.0175		0.02000		87.3	42.5	144		0	40	
Surr: Phenol-d5	0.0115		0.03000		38.2	10	67.1		0	40	

Qualifiers:
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits
 W Sample container temperature is out of limit as specified at testcode

J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 SDL Sample detection limit

M Matrix Interference
 RL Reporting Limit
 U Analyte not detected



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QC SUMMARY REPORT

WO#: 18100983
 09-Nov-18

Client: Approach Environmental, LLC

Project: Approach Environmental - LDNR Residential

BatchID: 28141

Sample ID: LCS-28141	SampType: LCS	TestCode: 8270_W_REC	Units: mg/L	Prep Date: 10/25/2018	RunNo: 73627						
Client ID: LCSW	Batch ID: 28141	TestNo: SW8270C	E625/SW3510	Analysis Date: 10/26/2018	SeqNo: 1841979						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4,5-Tetrachlorobenzene	0.0395	0.00100	0.05000	0	79.1	51.3	119				
1,2,4-Trichlorobenzene	0.0337	0.00500	0.05000	0	67.5	47.4	103				
1,2-Dichlorobenzene	0.0352	0.00500	0.05000	0	70.4	32	119				
1,3-Dichlorobenzene	0.0334	0.00500	0.05000	0	66.8	33.9	108				
1,3-Dinitrobenzene	0.0417	0.00500	0.05000	0	83.4	56.5	132				
1,4-Dichlorobenzene	0.0331	0.00500	0.05000	0	66.1	31.8	107				
2,3,4,6-Tetrachlorophenol	0.0478	0.00500	0.05000	0	95.5	71.4	118				
2,4,5-Trichlorophenol	0.0449	0.0100	0.05000	0	89.8	63.4	113				
2,4,6-Trichlorophenol	0.0438	0.00500	0.05000	0	87.7	62.5	109				
2,4-Dichlorophenol	0.0412	0.00500	0.05000	0	82.3	65.8	105				
2,4-Dimethylphenol	0.0426	0.00500	0.05000	0	85.3	56.4	106				
2,4-Dinitrophenol	0.0455	0.0200	0.05000	0	91.1	10	171				
2,4-Dinitrotoluene	0.0410	0.00500	0.05000	0	82.1	72.6	107				
2,6-Dinitrotoluene	0.0449	0.00500	0.05000	0	89.9	62.5	112				
2-Chloronaphthalene	0.0373	0.00500	0.05000	0	74.7	43.2	121				
2-Chlorophenol	0.0388	0.00500	0.05000	0	77.5	57.4	104				
2-Nitroaniline	0.0445	0.00500	0.05000	0	89.0	71.4	120				
3,3'-Dichlorobenzidine	0.0710	0.0100	0.1000	0	71.0	49.2	113				
3-Nitroaniline	0.0358	0.0200	0.05000	0	71.6	37.7	116				
4-Chloroaniline	0.0371	0.00500	0.05000	0	74.2	56.4	98.6				
4-Nitroaniline	0.0450	0.00500	0.05000	0	89.9	64	113				
4-Nitrophenol	0.0213	0.0200	0.05000	0	42.6	22.5	63.1				
Aniline	0.0331	0.00500	0.05000	0	66.2	48.9	102				
Biphenyl	0.0400	0.00500	0.05000	0	80.0	41.7	130				
Bis(2-chloroethyl)ether	0.0378	0.00500	0.05000	0	75.7	51.9	112				
Bis(2-chloroisopropyl)ether	0.0402	0.00500	0.05000	0	80.4	50.1	125				

Qualifiers:	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	SDL	Sample detection limit	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode				



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QC SUMMARY REPORT

WO#: 18100983
 09-Nov-18

Client: Approach Environmental, LLC

Project: Approach Environmental - LDNR Residential

BatchID: 28141

Sample ID: LCS-28141	SampType: LCS	TestCode: 8270_W_REC	Units: mg/L	Prep Date: 10/25/2018	RunNo: 73627						
Client ID: LCSW	Batch ID: 28141	TestNo: SW8270C	E625/SW3510	Analysis Date: 10/26/2018	SeqNo: 1841979						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Bis(2-ethylhexyl)phthalate	0.0473	0.00500	0.05000	0	94.6	46.9	137				
Butyl benzyl phthalate	0.0468	0.00500	0.05000	0	93.7	47.6	134				
Dibenzofuran	0.0428	0.00500	0.05000	0	85.6	59.5	126				
Diethyl phthalate	0.0435	0.00500	0.05000	0	87.0	55.4	121				
Dimethyl phthalate	0.0444	0.00500	0.05000	0	88.8	66	109				
Di-n-octyl phthalate	0.0504	0.0100	0.05000	0	101	36.9	145				
Dinoseb	0.0392	0.00500	0.05000	0	78.5	10	180				
Hexachlorobenzene	0.0357	0.00100	0.05000	0	71.4	59.5	100				
Hexachlorobutadiene	0.0313	0.00200	0.05000	0	62.5	43.1	101				
Hexachlorocyclopentadiene	0.0371	0.0100	0.05000	0	74.1	10	151				
Hexachloroethane	0.0301	0.00500	0.05000	0	60.2	22.2	110				
Isophorone	0.0454	0.00500	0.05000	0	90.9	63.1	110				
Nitrobenzene	0.0399	0.00100	0.05000	0	79.8	67	108				
N-Nitrosodi-n-propylamine	0.0381	0.00500	0.05000	0	76.2	49.4	130				
N-Nitrosodiphenylamine	0.0419	0.00500	0.05000	0	83.7	67.1	105				
Pentachlorophenol	0.0339	0.0100	0.05000	0	67.7	47.1	104				
Phenol	0.0192	0.00500	0.05000	0	38.3	25.2	50.1				
Surr: 2,4,6-Tribromophenol	0.0226		0.03000		75.3	47.2	144				
Surr: 2-Fluorobiphenyl	0.0184		0.02000		92.1	52.2	116				
Surr: 2-Fluorophenol	0.0178		0.03000		59.3	27.3	80.6				
Surr: 4-Terphenyl-d14	0.0223		0.02000		112	48.1	134				
Surr: Nitrobenzene-d5	0.0176		0.02000		87.8	42.5	144				
Surr: Phenol-d5	0.0113		0.03000		37.8	10	67.1				

Qualifiers:
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits
 W Sample container temperature is out of limit as specified at testcode

J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 SDL Sample detection limit

M Matrix Interference
 RL Reporting Limit
 U Analyte not detected



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QC SUMMARY REPORT

WO#: 18100983
 09-Nov-18

Client: Approach Environmental, LLC

Project: Approach Environmental - LDNR Residential

BatchID: 28141

Sample ID: MB-28141	SampType: MBLK	TestCode: 625_ALL	Units: mg/L	Prep Date: 10/25/2018	RunNo: 73670						
Client ID: PBW	Batch ID: 28141	TestNo: SW8270C	E625/SW3510	Analysis Date: 10/26/2018	SeqNo: 1842768						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2,4-Trichlorobenzene	< 0.00400	0.00400									
1,3-Dinitrobenzene	< 0.00400	0.00400									
2,4,5-Trichlorophenol	< 0.00800	0.00800									
2,4,6-Trichlorophenol	< 0.00800	0.00800									
2,4-Dichlorophenol	< 0.00800	0.00800									
2,4-Dimethylphenol	< 0.00800	0.00800									
2,4-Dinitrophenol	< 0.0200	0.0200									
2,4-Dinitrotoluene	< 0.00400	0.00400									
2,6-Dinitrotoluene	< 0.00400	0.00400									
2-Chloronaphthalene	< 0.00400	0.00400									
2-Chlorophenol	< 0.00800	0.00800									
2-Nitroaniline	< 0.00400	0.00400									
3,3'-Dichlorobenzidine	< 0.00400	0.00400									
3-Nitroaniline	< 0.00400	0.00400									
4-Chloroaniline	< 0.00400	0.00400									
4-Nitroaniline	< 0.00400	0.00400									
4-Nitrophenol	< 0.0200	0.0200									
Aniline	< 0.00400	0.00400									
Bis(2-chloroethyl)ether	< 0.00400	0.00400									
Bis(2-chloroisopropyl)ether	< 0.00400	0.00400									
Bis(2-ethylhexyl)phthalate	< 0.00400	0.00400									
Butyl benzyl phthalate	< 0.00400	0.00400									
Dibenzofuran	< 0.00400	0.00400									
Diethyl phthalate	< 0.00400	0.00400									
Dimethyl phthalate	< 0.00400	0.00400									
Di-n-octyl phthalate	< 0.00400	0.00400									

Qualifiers:	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	SDL	Sample detection limit	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode				



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QC SUMMARY REPORT

WO#: 18100983
 09-Nov-18

Client: Approach Environmental, LLC

Project: Approach Environmental - LDNR Residential

BatchID: 28141

Sample ID:	MB-28141	SampType:	MBLK	TestCode:	625_ALL	Units:	mg/L	Prep Date:	10/25/2018	RunNo:	73670
Client ID:	PBW	Batch ID:	28141	TestNo:	SW8270C	E625/SW3510		Analysis Date:	10/26/2018	SeqNo:	1842768
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachlorobenzene	< 0.00400	0.00400									
Hexachlorobutadiene	< 0.00400	0.00400									
Hexachlorocyclopentadiene	< 0.00400	0.00400									
Hexachloroethane	< 0.00400	0.00400									
Isophorone	< 0.00400	0.00400									
Nitrobenzene	< 0.00400	0.00400									
N-Nitrosodi-n-propylamine	< 0.00400	0.00400									
N-Nitrosodiphenylamine	< 0.00400	0.00400									
Pentachlorophenol	< 0.00400	0.00400									
Phenol	< 0.00800	0.00800									
Surr: 2,4,6-Tribromophenol	0.0222		0.03000		74.0	74	120				S
Surr: 2-Fluorobiphenyl	0.0190		0.02000		94.8	63	111				
Surr: 2-Fluorophenol	0.0151		0.03000		50.4	40	71				
Surr: Nitrobenzene-d5	0.0178		0.02000		88.8	67	104				
Surr: Phenol-d5	0.0104		0.03000		34.7	27	58				
Surr: Terphenyl-d14	0.0222		0.02000		111	55	123				

Sample ID:	LCSD-28141	SampType:	LCSD	TestCode:	625_ALL	Units:	mg/L	Prep Date:	10/25/2018	RunNo:	73670
Client ID:	LCSS02	Batch ID:	28141	TestNo:	SW8270C	E625/SW3510		Analysis Date:	10/26/2018	SeqNo:	1842774
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.0340	0.00400	0.05000	0	67.9	57	130	0.03375	0.656	30	
1,3-Dinitrobenzene	0.0432	0.00400	0.05000	0	86.4	79	120	0.04171	3.54	40	
2,4,5-Trichlorophenol	0.0463	0.00800	0.05000	0	92.7	65	120	0.04490	3.13	40	
2,4,6-Trichlorophenol	0.0453	0.00800	0.05000	0	90.6	52	129	0.04384	3.29	35	

Qualifiers:

H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Matrix Interference
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits	SDL	Sample detection limit	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode				



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QC SUMMARY REPORT

WO#: 18100983
 09-Nov-18

Client: Approach Environmental, LLC
Project: Approach Environmental - LDNR Residential

BatchID: 28141

Sample ID: LCSD-28141	SampType: LCSD	TestCode: 625_ALL	Units: mg/L	Prep Date: 10/25/2018	RunNo: 73670						
Client ID: LCSS02	Batch ID: 28141	TestNo: SW8270C	E625/SW3510	Analysis Date: 10/26/2018	SeqNo: 1842774						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-Dichlorophenol	0.0427	0.00800	0.05000	0	85.4	53	122	0.04116	3.63	30	
2,4-Dimethylphenol	0.0441	0.00800	0.05000	0	88.3	42	120	0.04265	3.42	35	
2,4-Dinitrophenol	0.0477	0.0200	0.05000	0	95.4	5	173	0.04553	4.67	79	
2,4-Dinitrotoluene	0.0428	0.00400	0.05000	0	85.6	48	127	0.04103	4.19	25	
2,6-Dinitrotoluene	0.0460	0.00400	0.05000	0	91.9	68	137	0.04493	2.27	29	
2-Chloronaphthalene	0.0385	0.00400	0.05000	0	76.9	65	120	0.03734	2.94	15	
2-Chlorophenol	0.0403	0.00800	0.05000	0	80.6	36	120	0.03877	3.86	37	
2-Nitroaniline	0.0463	0.00400	0.05000	0	92.6	80	120	0.04448	4.01	40	
3,3'-Dichlorobenzidine	0.0714	0.00400	0.1000	0	71.4	8	213	0.07104	0.577	65	
3-Nitroaniline	0.0371	0.00400	0.05000	0	74.1	68	101	0.03579	3.48	40	
4-Chloroaniline	0.0387	0.00400	0.05000	0	77.4	65	107	0.03712	4.23	40	
4-Nitroaniline	0.0462	0.00400	0.05000	0	92.4	78	120	0.04496	2.68	40	
4-Nitrophenol	0.0220	0.0200	0.05000	0	43.9	13	129	0.02131	2.97	79	
Aniline	0.0351	0.00400	0.05000	0	70.2	39	101	0.03310	5.91	40	
Bis(2-chloroethyl)ether	0.0399	0.00400	0.05000	0	79.8	43	126	0.03784	5.24	65	
Bis(2-chloroisopropyl)ether	0.0430	0.00400	0.05000	0	86.0	63	139	0.04021	6.70	46	
Bis(2-ethylhexyl)phthalate	0.0488	0.00400	0.05000	0	97.7	29	137	0.04728	3.27	50	
Butyl benzyl phthalate	0.0482	0.00400	0.05000	0	96.5	5	140	0.04683	2.98	36	
Dibenzofuran	0.0440	0.00400	0.05000	0	87.9	81	120	0.04282	2.64	40	
Diethyl phthalate	0.0449	0.00400	0.05000	0	89.9	5	120	0.04352	3.22	60	
Dimethyl phthalate	0.0457	0.00400	0.05000	0	91.5	5	120	0.04439	3.02	110	
Di-n-octyl phthalate	0.0526	0.00400	0.05000	0	105	19	132	0.05037	4.28	42	
Hexachlorobenzene	0.0371	0.00400	0.05000	0	74.2	8	142	0.03569	3.85	33	
Hexachlorobutadiene	0.0306	0.00400	0.05000	0	61.2	38	120	0.03127	2.19	38	
Hexachlorocyclopentadiene	0.0368	0.00400	0.05000	0	73.5	10	116	0.03705	0.775	40	
Hexachloroethane	0.0298	0.00400	0.05000	0	59.6	55	120	0.03012	1.05	32	

Qualifiers:	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	SDL	Sample detection limit	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode				



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QC SUMMARY REPORT

WO#: 18100983
 09-Nov-18

Client: Approach Environmental, LLC

Project: Approach Environmental - LDNR Residential

BatchID: 28141

Sample ID: LCS-28141	SampType: LCS	TestCode: 625_ALL	Units: mg/L	Prep Date: 10/25/2018	RunNo: 73670						
Client ID: LCS02	Batch ID: 28141	TestNo: SW8270C	E625/SW3510	Analysis Date: 10/26/2018	SeqNo: 1842774						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Isophorone	0.0474	0.00400	0.05000	0	94.7	47	180	0.04544	4.15	56	
Nitrobenzene	0.0418	0.00400	0.05000	0	83.7	54	158	0.03988	4.77	37	
N-Nitrosodi-n-propylamine	0.0404	0.00400	0.05000	0	80.9	14	198	0.03808	6.02	52	
N-Nitrosodiphenylamine	0.0431	0.00400	0.05000	0	86.2	71	120	0.04187	2.86	40	
Pentachlorophenol	0.0350	0.00400	0.05000	0	69.9	38	152	0.03386	3.21	52	
Phenol	0.0205	0.00800	0.05000	0	41.0	17	120	0.01917	6.76	39	
Surr: 2,4,6-Tribromophenol	0.0219		0.03000		73.2	74	120		0	40	S
Surr: 2-Fluorobiphenyl	0.0182		0.02000		91.0	63	111		0	40	
Surr: 2-Fluorophenol	0.0180		0.03000		59.8	40	71		0	40	
Surr: Nitrobenzene-d5	0.0175		0.02000		87.3	67	104		0	40	
Surr: Phenol-d5	0.0115		0.03000		38.2	27	58		0	40	
Surr: Terphenyl-d14	0.0217		0.02000		108	55	123		0	40	

Sample ID: LCS-28141	SampType: LCS	TestCode: 625_ALL	Units: mg/L	Prep Date: 10/25/2018	RunNo: 73670						
Client ID: LCSW	Batch ID: 28141	TestNo: SW8270C	E625/SW3510	Analysis Date: 10/26/2018	SeqNo: 1842775						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.0337	0.00400	0.05000	0	67.5	57	130				
1,3-Dinitrobenzene	0.0417	0.00400	0.05000	0	83.4	79	120				
2,4,5-Trichlorophenol	0.0449	0.00800	0.05000	0	89.8	65	120				
2,4,6-Trichlorophenol	0.0438	0.00800	0.05000	0	87.7	52	129				
2,4-Dichlorophenol	0.0412	0.00800	0.05000	0	82.3	53	122				
2,4-Dimethylphenol	0.0426	0.00800	0.05000	0	85.3	42	120				
2,4-Dinitrophenol	0.0455	0.0200	0.05000	0	91.1	5	173				
2,4-Dinitrotoluene	0.0410	0.00400	0.05000	0	82.1	48	127				

Qualifiers:	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	M Matrix Interference
	ND Not Detected at the Reporting Limit	R RPD outside accepted recovery limits	RL Reporting Limit
	S Spike Recovery outside accepted recovery limits	SDL Sample detection limit	U Analyte not detected
	W Sample container temperature is out of limit as specified at testcode		



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QC SUMMARY REPORT

WO#: 18100983
 09-Nov-18

Client: Approach Environmental, LLC

Project: Approach Environmental - LDNR Residential

BatchID: 28141

Sample ID: LCS-28141	SampType: LCS	TestCode: 625_ALL	Units: mg/L	Prep Date: 10/25/2018	RunNo: 73670						
Client ID: LCSW	Batch ID: 28141	TestNo: SW8270C	E625/SW3510	Analysis Date: 10/26/2018	SeqNo: 1842775						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,6-Dinitrotoluene	0.0449	0.00400	0.05000	0	89.9	68	137				
2-Chloronaphthalene	0.0373	0.00400	0.05000	0	74.7	65	120				
2-Chlorophenol	0.0388	0.00800	0.05000	0	77.5	36	120				
2-Nitroaniline	0.0445	0.00400	0.05000	0	89.0	80	120				
3,3'-Dichlorobenzidine	0.0710	0.00400	0.1000	0	71.0	8	213				
3-Nitroaniline	0.0358	0.00400	0.05000	0	71.6	68	101				
4-Chloroaniline	0.0371	0.00400	0.05000	0	74.2	65	107				
4-Nitroaniline	0.0450	0.00400	0.05000	0	89.9	78	120				
4-Nitrophenol	0.0213	0.0200	0.05000	0	42.6	13	129				
Aniline	0.0331	0.00400	0.05000	0	66.2	39	101				
Bis(2-chloroethyl)ether	0.0378	0.00400	0.05000	0	75.7	43	126				
Bis(2-chloroisopropyl)ether	0.0402	0.00400	0.05000	0	80.4	63	139				
Bis(2-ethylhexyl)phthalate	0.0473	0.00400	0.05000	0	94.6	29	137				
Butyl benzyl phthalate	0.0468	0.00400	0.05000	0	93.7	5	140				
Dibenzofuran	0.0428	0.00400	0.05000	0	85.6	81	120				
Diethyl phthalate	0.0435	0.00400	0.05000	0	87.0	5	120				
Dimethyl phthalate	0.0444	0.00400	0.05000	0	88.8	5	120				
Di-n-octyl phthalate	0.0504	0.00400	0.05000	0	101	19	132				
Hexachlorobenzene	0.0357	0.00400	0.05000	0	71.4	8	142				
Hexachlorobutadiene	0.0313	0.00400	0.05000	0	62.5	38	120				
Hexachlorocyclopentadiene	0.0371	0.00400	0.05000	0	74.1	10	116				
Hexachloroethane	0.0301	0.00400	0.05000	0	60.2	55	120				
Isophorone	0.0454	0.00400	0.05000	0	90.9	47	180				
Nitrobenzene	0.0399	0.00400	0.05000	0	79.8	54	158				
N-Nitrosodi-n-propylamine	0.0381	0.00400	0.05000	0	76.2	14	198				
N-Nitrosodiphenylamine	0.0419	0.00400	0.05000	0	83.7	71	120				

Qualifiers:	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	SDL	Sample detection limit	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode				



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QC SUMMARY REPORT

WO#: 18100983
 09-Nov-18

Client: Approach Environmental, LLC

Project: Approach Environmental - LDNR Residential

BatchID: 28141

Sample ID: LCS-28141	SampType: LCS	TestCode: 625_ALL	Units: mg/L	Prep Date: 10/25/2018	RunNo: 73670						
Client ID: LCSW	Batch ID: 28141	TestNo: SW8270C	E625/SW3510	Analysis Date: 10/26/2018	SeqNo: 1842775						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Pentachlorophenol	0.0339	0.00400	0.05000	0	67.7	38	152				
Phenol	0.0192	0.00800	0.05000	0	38.3	17	120				
Surr: 2,4,6-Tribromophenol	0.0226		0.03000		75.3	74	120				
Surr: 2-Fluorobiphenyl	0.0184		0.02000		92.1	63	111				
Surr: 2-Fluorophenol	0.0178		0.03000		59.3	40	71				
Surr: Nitrobenzene-d5	0.0176		0.02000		87.8	67	104				
Surr: Phenol-d5	0.0113		0.03000		37.8	27	58				
Surr: Terphenyl-d14	0.0223		0.02000		112	55	123				

Qualifiers:	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	SDL	Sample detection limit	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode				



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QC SUMMARY REPORT

WO#: 18100983
 09-Nov-18

Client: Approach Environmental, LLC

Project: Approach Environmental - LDNR Residential

BatchID: 28142

Sample ID: LCS-D-28142	SampType: LCS	TestCode: 8015_DO_W_	Units: mg/L	Prep Date: 10/25/2018	RunNo: 73635						
Client ID: LCSW	Batch ID: 28142	TestNo: SW8015B	SW3511	Analysis Date: 10/26/2018	SeqNo: 1842143						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Diesel Range) 1.71 0.135 1.787 0 95.9 70 130
 Surr: 4-Terphenyl-d14 0.0605 0.05956 102 51.4 146

Sample ID: LCSD-D-28142	SampType: LCSD	TestCode: 8015_DO_W_	Units: mg/L	Prep Date: 10/25/2018	RunNo: 73635						
Client ID: LCSS02	Batch ID: 28142	TestNo: SW8015B	SW3511	Analysis Date: 10/26/2018	SeqNo: 1842144						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Diesel Range) 1.75 0.137 1.804 0 97.2 70 130 1.714 2.27 14.1
 Surr: 4-Terphenyl-d14 0.0383 0.06013 63.7 51.4 146 0 40

Sample ID: LCSD-M-28142	SampType: LCSD	TestCode: 8015_DO_W_	Units: mg/L	Prep Date: 10/25/2018	RunNo: 73635						
Client ID: LCSS02	Batch ID: 28142	TestNo: SW8015B	SW3511	Analysis Date: 10/26/2018	SeqNo: 1842145						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Oil Range) 1.55 0.124 1.773 0 87.3 70 130 1.373 11.9 23.2
 Surr: 4-Terphenyl-d14 0.0744 0.05910 126 51.4 146 0 40

Sample ID: LCS-M-28142	SampType: LCS	TestCode: 8015_DO_W_	Units: mg/L	Prep Date: 10/25/2018	RunNo: 73635						
Client ID: LCSW	Batch ID: 28142	TestNo: SW8015B	SW3511	Analysis Date: 10/26/2018	SeqNo: 1842146						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Oil Range) 1.37 0.126 1.804 0 76.1 70 130

Qualifiers:	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	M Matrix Interference
	ND Not Detected at the Reporting Limit	R RPD outside accepted recovery limits	RL Reporting Limit
	S Spike Recovery outside accepted recovery limits	SDL Sample detection limit	U Analyte not detected
	W Sample container temperature is out of limit as specified at testcode		



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QC SUMMARY REPORT

WO#: 18100983
 09-Nov-18

Client: Approach Environmental, LLC

Project: Approach Environmental - LDNR Residential

BatchID: 28142

Sample ID: LCS-M-28142	SampType: LCS	TestCode: 8015_DO_W_	Units: mg/L	Prep Date: 10/25/2018	RunNo: 73635						
Client ID: LCSW	Batch ID: 28142	TestNo: SW8015B	SW3511	Analysis Date: 10/26/2018	SeqNo: 1842146						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14	0.0457		0.06013		76.0	51.4	146				

Sample ID: MB-28142	SampType: MBLK	TestCode: 8015_DO_W_	Units: mg/L	Prep Date: 10/25/2018	RunNo: 73635						
Client ID: PBW	Batch ID: 28142	TestNo: SW8015B	SW3511	Analysis Date: 10/26/2018	SeqNo: 1842147						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel Range)	0.0501	0.137									J
TPH (Oil Range)	< 0.127	0.127									
Surr: 4-Terphenyl-d14	0.0520		0.06038		86.1	51.4	146				

Qualifiers:

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits
- W Sample container temperature is out of limit as specified at testcode

- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- SDL Sample detection limit

- M Matrix Interference
- RL Reporting Limit
- U Analyte not detected



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QC SUMMARY REPORT

WO#: 18100983
 09-Nov-18

Client: Approach Environmental, LLC

Project: Approach Environmental - LDNR Residential

BatchID: 28146

Sample ID: MB-28146	SampType: MBLK	TestCode: 8270_W_LVI_	Units: mg/L	Prep Date: 10/25/2018	RunNo: 73636						
Client ID: PBW	Batch ID: 28146	TestNo: SW8270C	SW3511	Analysis Date: 10/26/2018	SeqNo: 1842148						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	< 0.000519	0.000519									
Acenaphthene	< 0.00104	0.00104									
Acenaphthylene	< 0.00104	0.00104									
Anthracene	0.0000425	0.00104									J
Benzo(a)anthracene	< 0.000519	0.000519									
Benzo(a)pyrene	< 0.000176	0.000176									
Benzo(b)fluoranthene	< 0.000519	0.000519									
Benzo(k)fluoranthene	< 0.000519	0.000519									
Chrysene	< 0.000519	0.000519									
Dibenz(a,h)anthracene	< 0.00104	0.00104									
Fluoranthene	< 0.00104	0.00104									
Fluorene	< 0.000622	0.000622									
Indeno(1,2,3-cd)pyrene	< 0.000519	0.000519									
Naphthalene	< 0.00104	0.00104									
Phenanthrene	0.0000394	0.00104									J
Pyrene	< 0.00104	0.00104									
Surr: 4-Terphenyl-d14	0.00275		0.002375		116	49.2	161				

Sample ID: LCSD-28146	SampType: LCSD	TestCode: 8270_W_LVI_	Units: mg/L	Prep Date: 10/25/2018	RunNo: 73636						
Client ID: LCSS02	Batch ID: 28146	TestNo: SW8270C	SW3511	Analysis Date: 10/26/2018	SeqNo: 1842153						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	0.00239	0.000521	0.002382	0	101	60.8	127	0.002603	8.33	40	
Acenaphthene	0.00251	0.00104	0.002386	0	105	72.5	121	0.002676	6.26	40	
Acenaphthylene	0.00240	0.00104	0.002386	0	100	65.7	128	0.002362	1.51	40	

Qualifiers:	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	M Matrix Interference
	ND Not Detected at the Reporting Limit	R RPD outside accepted recovery limits	RL Reporting Limit
	S Spike Recovery outside accepted recovery limits	SDL Sample detection limit	U Analyte not detected
	W Sample container temperature is out of limit as specified at testcode		



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QC SUMMARY REPORT

WO#: 18100983
 09-Nov-18

Client: Approach Environmental, LLC

Project: Approach Environmental - LDNR Residential

BatchID: 28146

Sample ID:	SampType:	TestCode:	Units:	Prep Date:	RunNo:						
LCS-28146	LCS	8270_W_LVI_	mg/L	10/25/2018	73636						
Client ID:	Batch ID:	TestNo:		Analysis Date:	SeqNo:						
LCS02	28146	SW8270C	SW3511	10/26/2018	1842153						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Anthracene	0.00230	0.00104	0.002386	0	96.3	73.4	120	0.002219	3.49	40	
Benzo(a)anthracene	0.00264	0.000521	0.002386	0	111	69	121	0.002624	0.641	40	
Benzo(a)pyrene	0.00236	0.000177	0.002386	0	98.8	70.6	120	0.002326	1.38	40	
Benzo(b)fluoranthene	0.00286	0.000521	0.002386	0	120	65.3	127	0.002691	5.96	40	
Benzo(k)fluoranthene	0.00266	0.000521	0.002386	0	111	68.6	125	0.002614	1.65	40	
Chrysene	0.00260	0.000521	0.002386	0	109	74.4	120	0.002541	2.39	40	
Dibenz(a,h)anthracene	0.00273	0.00104	0.002386	0	114	66.4	126	0.002789	2.31	40	
Fluoranthene	0.00282	0.00104	0.002386	0	118	70.7	121	0.002391	16.4	40	
Fluorene	0.00255	0.000625	0.002386	0	107	62.5	134	0.002731	6.90	40	
Indeno(1,2,3-cd)pyrene	0.00254	0.000521	0.002386	0	107	66.9	120	0.002480	2.49	40	
Naphthalene	0.00245	0.00104	0.002386	0	102	63.5	137	0.002279	7.03	40	
Phenanthrene	0.00253	0.00104	0.002386	0	106	74.1	118	0.002560	1.18	40	
Pyrene	0.00283	0.00104	0.002386	0	119	73.2	120	0.002744	3.23	40	
Surr: 4-Terphenyl-d14	0.00258		0.002386		108	49.2	161		0	40	

Sample ID:	SampType:	TestCode:	Units:	Prep Date:	RunNo:						
LCS-28146	LCS	8270_W_LVI_	mg/L	10/25/2018	73636						
Client ID:	Batch ID:	TestNo:		Analysis Date:	SeqNo:						
LCSW	28146	SW8270C	SW3511	10/26/2018	1842154						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	0.00260	0.000523	0.002393	0	109	60.8	127				
Acenaphthene	0.00268	0.00105	0.002398	0	112	72.5	121				
Acenaphthylene	0.00236	0.00105	0.002398	0	98.5	65.7	128				
Anthracene	0.00222	0.00105	0.002398	0	92.6	73.4	120				
Benzo(a)anthracene	0.00262	0.000523	0.002398	0	109	69	121				
Benzo(a)pyrene	0.00233	0.000178	0.002398	0	97.0	70.6	120				

Qualifiers:	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	SDL	Sample detection limit	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode				



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QC SUMMARY REPORT

WO#: 18100983
 09-Nov-18

Client: Approach Environmental, LLC

Project: Approach Environmental - LDNR Residential

BatchID: 28146

Sample ID: LCS-28146	SampType: LCS	TestCode: 8270_W_LVI_	Units: mg/L	Prep Date: 10/25/2018	RunNo: 73636						
Client ID: LCSW	Batch ID: 28146	TestNo: SW8270C	SW3511	Analysis Date: 10/26/2018	SeqNo: 1842154						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(b)fluoranthene	0.00269	0.000523	0.002398	0	112	65.3	127				
Benzo(k)fluoranthene	0.00261	0.000523	0.002398	0	109	68.6	125				
Chrysene	0.00254	0.000523	0.002398	0	106	74.4	120				
Dibenz(a,h)anthracene	0.00279	0.00105	0.002398	0	116	66.4	126				
Fluoranthene	0.00239	0.00105	0.002398	0	99.7	70.7	121				
Fluorene	0.00273	0.000628	0.002398	0	114	62.5	134				
Indeno(1,2,3-cd)pyrene	0.00248	0.000523	0.002398	0	103	66.9	120				
Naphthalene	0.00228	0.00105	0.002398	0	95.1	63.5	137				
Phenanthrene	0.00256	0.00105	0.002398	0	107	74.1	118				
Pyrene	0.00274	0.00105	0.002398	0	114	73.2	120				
Surr: 4-Terphenyl-d14	0.00261		0.002398		109	49.2	161				

Qualifiers:	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	SDL	Sample detection limit	U	Analyte not detected
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QC SUMMARY REPORT

WO#: 18100983
 09-Nov-18

Client: Approach Environmental, LLC

Project: Approach Environmental - LDNR Residential

BatchID: 28160

Sample ID: MB-28160	SampType: MBLK	TestCode: 6010_W	Units: mg/L	Prep Date: 10/29/2018	RunNo: 73708						
Client ID: PBW	Batch ID: 28160	TestNo: SW6010B		Analysis Date: 10/30/2018	SeqNo: 1843572						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	< 0.0100	0.0100									
Barium	< 0.0100	0.0100									
Cadmium	< 0.00500	0.00500									
Chromium	< 0.0100	0.0100									
Lead	< 0.0100	0.0100									
Selenium	0.0137	0.0200									J
Silver	0.000800	0.00500									J
Sodium	< 10.0	10.0									

Sample ID: LCS-28160	SampType: LCS	TestCode: 6010_W	Units: mg/L	Prep Date: 10/29/2018	RunNo: 73708						
Client ID: LCSW	Batch ID: 28160	TestNo: SW6010B		Analysis Date: 10/30/2018	SeqNo: 1843573						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.490	0.0100	0.5000	0	98.0	80	120				
Barium	0.489	0.0100	0.5000	0	97.9	80	120				
Cadmium	0.482	0.00500	0.5000	0	96.4	80	120				
Chromium	0.485	0.0100	0.5000	0	96.9	80	120				
Lead	0.488	0.0100	0.5000	0	97.5	80	120				
Selenium	0.500	0.0200	0.5000	0	100	80	120				
Silver	0.0956	0.00500	0.1000	0	95.6	80	120				
Sodium	50.0	10.0	50.00	0	100	80	120				

Qualifiers:	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	SDL	Sample detection limit	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode				



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QC SUMMARY REPORT

WO#: 18100983
 09-Nov-18

Client: Approach Environmental, LLC

Project: Approach Environmental - LDNR Residential

BatchID: 28160

Sample ID: LCSD-28160	SampType: LCSD	TestCode: 6010_W	Units: mg/L	Prep Date: 10/29/2018	RunNo: 73708						
Client ID: LCSS02	Batch ID: 28160	TestNo: SW6010B		Analysis Date: 10/30/2018	SeqNo: 1843574						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.501	0.0100	0.5000	0	100	80	120	0.4901	2.14	20	
Barium	0.495	0.0100	0.5000	0	99.0	80	120	0.4893	1.12	20	
Cadmium	0.486	0.00500	0.5000	0	97.2	80	120	0.4822	0.785	20	
Chromium	0.489	0.0100	0.5000	0	97.9	80	120	0.4846	0.965	20	
Lead	0.496	0.0100	0.5000	0	99.2	80	120	0.4877	1.67	20	
Selenium	0.507	0.0200	0.5000	0	101	80	120	0.5002	1.43	20	
Silver	0.0963	0.00500	0.1000	0	96.3	80	120	0.09560	0.730	20	
Sodium	47.1	10.0	50.00	0	94.2	80	120	50.01	6.01	20	

Sample ID: 18100889-003AMS	SampType: MS	TestCode: 6010_W	Units: mg/L	Prep Date: 10/29/2018	RunNo: 73708						
Client ID: ZZZZZZ	Batch ID: 28160	TestNo: SW6010B		Analysis Date: 10/30/2018	SeqNo: 1843578						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.514	0.0100	0.5000	0	103	75	125				
Barium	1.27	0.0100	0.5000	0.8521	83.8	75	125				
Cadmium	0.509	0.00500	0.5000	0.003600	101	75	125				
Chromium	0.481	0.0100	0.5000	0.01060	94.0	75	125				
Lead	0.446	0.0100	0.5000	0.005300	88.1	75	125				
Selenium	0.658	0.0200	0.5000	0.1699	97.7	75	125				
Silver	0.108	0.00500	0.1000	0	108	75	125				
Sodium	11,700	10.0	50.00	11,850	-280	75	125				S

Qualifiers:	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	SDL	Sample detection limit	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode				



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QC SUMMARY REPORT

WO#: 18100983
 09-Nov-18

Client: Approach Environmental, LLC

Project: Approach Environmental - LDNR Residential

BatchID: 28160

Sample ID: 18100889-003AMSD	SampType: MSD	TestCode: 6010_W	Units: mg/L	Prep Date: 10/29/2018	RunNo: 73708
Client ID: ZZZZZZ	Batch ID: 28160	TestNo: SW6010B		Analysis Date: 10/30/2018	SeqNo: 1843581

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.522	0.0100	0.5000	0	104	75	125	0.5143	1.39	20	
Barium	1.38	0.0100	0.5000	0.8521	107	75	125	1.271	8.58	20	
Cadmium	0.514	0.00500	0.5000	0.003600	102	75	125	0.5093	0.860	20	
Chromium	0.489	0.0100	0.5000	0.01060	95.7	75	125	0.4806	1.79	20	
Lead	0.448	0.0100	0.5000	0.005300	88.6	75	125	0.4457	0.537	20	
Selenium	0.691	0.0200	0.5000	0.1699	104	75	125	0.6584	4.89	20	
Silver	0.108	0.00500	0.1000	0	108	75	125	0.1076	0.464	20	
Sodium	11,700	10.0	50.00	11,850	-300	75	125	11,710	0.0854	20	S

NOTES:

S - Analyte concentration in native sample was too high for accurate spike recovery(ies). The method is in control as indicated by the laboratory control sample (LCS).

Qualifiers:	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	SDL	Sample detection limit	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode				



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QC SUMMARY REPORT

WO#: **18100983**
09-Nov-18

Client: Approach Environmental, LLC

Project: Approach Environmental - LDNR Residential

BatchID: 28171

Sample ID: MB-28171	SampType: MBLK	TestCode: HG_W_7470A	Units: mg/L	Prep Date: 10/30/2018	RunNo: 73705						
Client ID: PBW	Batch ID: 28171	TestNo: SW7470A		Analysis Date: 10/30/2018	SeqNo: 1843431						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	< 0.000200	0.000200									

Sample ID: LCS-28171	SampType: LCS	TestCode: HG_W_7470A	Units: mg/L	Prep Date: 10/30/2018	RunNo: 73705						
Client ID: LCSW	Batch ID: 28171	TestNo: SW7470A		Analysis Date: 10/30/2018	SeqNo: 1843432						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.0101	0.000200	0.01000	0	101	80	120				

Sample ID: LCSD-28171	SampType: LCSD	TestCode: HG_W_7470A	Units: mg/L	Prep Date: 10/30/2018	RunNo: 73705						
Client ID: LCSS02	Batch ID: 28171	TestNo: SW7470A		Analysis Date: 10/30/2018	SeqNo: 1843433						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00917	0.000200	0.01000	0	91.7	80	120	0.01008	9.38	20	

Sample ID: 18100983-001DMS	SampType: MS	TestCode: HG_W_7470A	Units: mg/L	Prep Date: 10/30/2018	RunNo: 73705						
Client ID: 9312 Z Tommie Nite	Batch ID: 28171	TestNo: SW7470A		Analysis Date: 10/30/2018	SeqNo: 1843435						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.0102	0.000200	0.01000	0	102	75	125				

Qualifiers:	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	SDL	Sample detection limit	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode				



Element Materials Technology Lafayette
 2417 W. Pinhook Road
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 TEL: (337) 235-0483 FAX: (337) 233-6540
 Website: www.element.com

QC SUMMARY REPORT

WO#: 18100983
 09-Nov-18

Client: Approach Environmental, LLC

Project: Approach Environmental - LDNR Residential

BatchID: 28171

Sample ID: 18100983-001DMSD	SampType: MSD	TestCode: HG_W_7470A	Units: mg/L	Prep Date: 10/30/2018	RunNo: 73705						
Client ID: 9312 Z Tommie Nite	Batch ID: 28171	TestNo: SW7470A		Analysis Date: 10/30/2018	SeqNo: 1843436						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.0104	0.000200	0.01000	0	104	75	125	0.01021	2.09	20	

Qualifiers:

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits
- W Sample container temperature is out of limit as specified at testcode

- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- SDL Sample detection limit

- M Matrix Interference
- RL Reporting Limit
- U Analyte not detected



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QC SUMMARY REPORT

WO#: **18100983**
09-Nov-18

Client: Approach Environmental, LLC

Project: Approach Environmental - LDNR Residential

BatchID: R73610

Sample ID: MB-R73610	SampType: MBLK	TestCode: TDS_2540C	Units: mg/L	Prep Date:	RunNo: 73610						
Client ID: PBW	Batch ID: R73610	TestNo: SM2540C		Analysis Date: 10/26/2018	SeqNo: 1842735						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Dissolved Solids (Residue, Filterable) < 20.0 20.0

Sample ID: LCS-R73610	SampType: LCS	TestCode: TDS_2540C	Units: mg/L	Prep Date:	RunNo: 73610						
Client ID: LCSW	Batch ID: R73610	TestNo: SM2540C		Analysis Date: 10/26/2018	SeqNo: 1842736						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Dissolved Solids (Residue, Filterable) 992 20.0 1,000 0 99.2 85 115

Sample ID: LCSD-R73610	SampType: LCSD	TestCode: TDS_2540C	Units: mg/L	Prep Date:	RunNo: 73610						
Client ID: LCSS02	Batch ID: R73610	TestNo: SM2540C		Analysis Date: 10/26/2018	SeqNo: 1842737						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Dissolved Solids (Residue, Filterable) 991 20.0 1,000 0 99.1 85 115 992.0 0.101 10

Sample ID: 18100836-001BDUP	SampType: DUP	TestCode: TDS_2540C	Units: mg/L	Prep Date:	RunNo: 73610						
Client ID: ZZZZZ	Batch ID: R73610	TestNo: SM2540C		Analysis Date: 10/26/2018	SeqNo: 1842740						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Dissolved Solids (Residue, Filterable) 15,800 2,000 16,000 1.26 10

Qualifiers:	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	M Matrix Interference
	ND Not Detected at the Reporting Limit	R RPD outside accepted recovery limits	RL Reporting Limit
	S Spike Recovery outside accepted recovery limits	SDL Sample detection limit	U Analyte not detected
	W Sample container temperature is out of limit as specified at testcode		



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QC SUMMARY REPORT

WO#: 18100983
 09-Nov-18

Client: Approach Environmental, LLC

Project: Approach Environmental - LDNR Residential

BatchID: R73610

Sample ID: 18100836-001BDUP	SampType: DUP	TestCode: TDS_2540C	Units: mg/L	Prep Date:	RunNo: 73610						
Client ID: ZZZZZZ	Batch ID: R73610	TestNo: SM2540C		Analysis Date: 10/26/2018	SeqNo: 1842740						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: 18100944-001EDUP	SampType: DUP	TestCode: TDS_2540C	Units: mg/L	Prep Date:	RunNo: 73610						
Client ID: ZZZZZZ	Batch ID: R73610	TestNo: SM2540C		Analysis Date: 10/26/2018	SeqNo: 1842744						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Dissolved Solids (Residue, Filterable)	501	20.0						402.0	21.9	10	R
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NOTES:
 R - High RPD due to suspected sample non-homogeneity. The method is in control as indicated by the LCS/LCSD.

Qualifiers:	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	SDL	Sample detection limit	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode				



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QC SUMMARY REPORT

WO#: 18100983
 09-Nov-18

Client: Approach Environmental, LLC
Project: Approach Environmental - LDNR Residential

BatchID: R73621

Sample ID: MB	SampType: MBLK	TestCode: 8260_W_REC	Units: mg/L	Prep Date:	RunNo: 73621						
Client ID: PBW	Batch ID: R73621	TestNo: SW8260B		Analysis Date: 10/26/2018	SeqNo: 1841780						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	< 0.00500	0.00500									
1,1,1-Trichloroethane	< 0.00500	0.00500									
1,1,2,2-Tetrachloroethane	< 0.000500	0.000500									
1,1,2-Trichloroethane	< 0.00500	0.00500									
1,1-Dichloroethane	< 0.00500	0.00500									
1,1-Dichloroethene	< 0.00500	0.00500									
1,2-Dibromo-3-chloropropane	< 0.00500	0.00500									
1,2-Dichlorobenzene	< 0.0200	0.0200									
1,2-Dichloroethane	< 0.00500	0.00500									
1,2-Dichloroethene, Total	< 0.00600	0.00600									
1,2-Dichloropropane	< 0.00500	0.00500									
1,3-Dichlorobenzene	< 0.0100	0.0100									
1,4-Dichlorobenzene	< 0.0200	0.0200									
2-Butanone	< 0.0100	0.0100									
4-Methyl-2-pentanone	< 0.0100	0.0100									
Acetone	< 0.0100	0.0100									
Benzene	< 0.00500	0.00500									
Bromodichloromethane	< 0.00500	0.00500									
Bromoform	< 0.00500	0.00500									
Bromomethane	< 0.00500	0.00500									
Carbon disulfide	< 0.0100	0.0100									
Carbon tetrachloride	< 0.00500	0.00500									
Chlorobenzene	< 0.00500	0.00500									
Chlorodibromomethane	< 0.00500	0.00500									
Chloroethane	< 0.0100	0.0100									
Chloroform	< 0.00500	0.00500									

Qualifiers:	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	SDL	Sample detection limit	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode				



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QC SUMMARY REPORT

WO#: 18100983
 09-Nov-18

Client: Approach Environmental, LLC

Project: Approach Environmental - LDNR Residential

BatchID: R73621

Sample ID: MB	SampType: MBLK	TestCode: 8260_W_REC	Units: mg/L	Prep Date:	RunNo: 73621						
Client ID: PBW	Batch ID: R73621	TestNo: SW8260B		Analysis Date: 10/26/2018	SeqNo: 1841780						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloromethane	< 0.00500	0.00500									
cis-1,2-Dichloroethene	< 0.00300	0.00300									
cis-1,3-Dichloropropene	< 0.00200	0.00200									
Ethylbenzene	< 0.00500	0.00500									
Isobutyl alcohol	< 0.100	0.100									
Methyl tert-butyl ether	< 0.00500	0.00500									
Methylene chloride	< 0.00500	0.00500									
Styrene	< 0.00500	0.00500									
Tetrachloroethene	< 0.00500	0.00500									
Toluene	< 0.00500	0.00500									
trans-1,2-Dichloroethene	< 0.00300	0.00300									
trans-1,3-Dichloropropene	< 0.00200	0.00200									
Trichloroethene	< 0.00500	0.00500									
Trichlorofluoromethane	< 0.00500	0.00500									
Vinyl chloride	< 0.00200	0.00200									
Xylenes, Total	< 0.0150	0.0150									
Surr: 4-Bromofluorobenzene	0.0318		0.03000		106	65.1	136				
Surr: Dibromofluoromethane	0.0300		0.03000		100	40.4	143				
Surr: Toluene-d8	0.0316		0.03000		105	58.2	127				

Sample ID: LCSD 17221A-8	SampType: LCSD	TestCode: 8260_W_REC	Units: mg/L	Prep Date:	RunNo: 73621						
Client ID: LCSS02	Batch ID: R73621	TestNo: SW8260B		Analysis Date: 10/26/2018	SeqNo: 1841780						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1,2-Tetrachloroethane	0.0502	0.00500	0.05000	0	100	73.4	120	0.04782	4.76	20	
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Qualifiers:	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	SDL	Sample detection limit	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode				



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QC SUMMARY REPORT

WO#: 18100983

09-Nov-18

Client: Approach Environmental, LLC

Project: Approach Environmental - LDNR Residential

BatchID: R73621

Sample ID: LCSD 17221A-8	SampType: LCSD	TestCode: 8260_W_REC	Units: mg/L	Prep Date:	RunNo: 73621						
Client ID: LCSS02	Batch ID: R73621	TestNo: SW8260B		Analysis Date: 10/26/2018	SeqNo: 1841783						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.0518	0.00500	0.05000	0	104	64.5	127	0.05056	2.36	20	
1,1,2,2-Tetrachloroethane	0.0544	0.000500	0.05000	0	109	63.6	120	0.04956	9.31	20	
1,1,2-Trichloroethane	0.0491	0.00500	0.05000	0	98.1	74.9	120	0.04757	3.10	20	
1,1-Dichloroethane	0.0506	0.00500	0.05000	0	101	67.9	123	0.04958	2.06	20	
1,1-Dichloroethene	0.0464	0.00500	0.05000	0	92.7	60.3	135	0.04570	1.46	20	
1,2-Dibromo-3-chloropropane	0.0570	0.00500	0.05000	0	114	56.6	132	0.05029	12.6	20	
1,2-Dichlorobenzene	0.0505	0.0200	0.05000	0	101	76.4	120	0.04798	5.18	20	
1,2-Dichloroethane	0.0489	0.00500	0.05000	0	97.8	67.5	124	0.04791	2.02	20	
1,2-Dichloroethene, Total	0.104	0.00600	0.1000	0	104	72.5	122	0.1034	1.06	20	
1,2-Dichloropropane	0.0506	0.00500	0.05000	0	101	77.2	120	0.04791	5.56	20	
1,3-Dichlorobenzene	0.0501	0.0100	0.05000	0	100	75.1	120	0.04848	3.29	20	
1,4-Dichlorobenzene	0.0495	0.0200	0.05000	0	99.0	76.1	120	0.04750	4.08	20	
2-Butanone	0.0542	0.0100	0.05000	0	108	61	127	0.05086	6.40	20	
4-Methyl-2-pentanone	0.0508	0.0100	0.05000	0	102	54.1	129	0.04510	11.8	20	
Acetone	0.101	0.0100	0.1000	0	101	52.1	135	0.08874	13.0	20	
Benzene	0.0537	0.00500	0.05000	0	107	67.8	125	0.05174	3.68	20	
Bromodichloromethane	0.0487	0.00500	0.05000	0	97.4	72	120	0.04701	3.57	20	
Bromoform	0.0511	0.00500	0.05000	0	102	70.4	121	0.04795	6.36	20	
Bromomethane	0.0447	0.00500	0.05000	0	89.4	41.6	157	0.04567	2.19	20	
Carbon disulfide	0.0479	0.0100	0.05000	0	95.8	52.2	135	0.04782	0.188	20	
Carbon tetrachloride	0.0491	0.00500	0.05000	0	98.3	65.6	125	0.04834	1.62	20	
Chlorobenzene	0.0486	0.00500	0.05000	0	97.1	74.5	120	0.04675	3.80	20	
Chlorodibromomethane	0.0510	0.00500	0.05000	0	102	75	120	0.04892	4.20	20	
Chloroethane	0.0427	0.0100	0.05000	0	85.5	49.5	146	0.04190	1.98	20	
Chloroform	0.0504	0.00500	0.05000	0	101	71	120	0.04960	1.68	20	
Chloromethane	0.0509	0.00500	0.05000	0	102	45.8	145	0.04771	6.55	20	

Qualifiers:
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 S Spike Recovery outside accepted recovery limits
 W Sample container temperature is out of limit as specified at testcode

J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 SDL Sample detection limit

M Matrix Interference
 RL Reporting Limit
 U Analyte not detected



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QC SUMMARY REPORT

WO#: 18100983
 09-Nov-18

Client: Approach Environmental, LLC

Project: Approach Environmental - LDNR Residential

BatchID: R73621

Sample ID: LCS D 17221A-8	SampType: LCS D	TestCode: 8260_W_REC	Units: mg/L	Prep Date:	RunNo: 73621						
Client ID: LCS S02	Batch ID: R73621	TestNo: SW8260B	Analysis Date: 10/26/2018	SeqNo: 1841783							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,2-Dichloroethene	0.0544	0.00300	0.05000	0	109	73.8	124	0.05342	1.73	20	
cis-1,3-Dichloropropene	0.0540	0.00200	0.05000	0	108	80	120	0.05236	3.03	20	
Ethylbenzene	0.0549	0.00500	0.05000	0	110	76.9	118	0.05200	5.43	20	
Isobutyl alcohol	0.619	0.100	0.5000	0	124	70	130	0.5071	19.8	20	
Methyl tert-butyl ether	0.0534	0.00500	0.05000	0	107	62.6	134	0.04877	9.04	20	
Methylene chloride	0.0494	0.00500	0.05000	0	98.9	65.8	125	0.04716	4.70	20	
Styrene	0.0485	0.00500	0.05000	0	97.0	79	120	0.04552	6.32	20	
Tetrachloroethene	0.0489	0.00500	0.05000	0	97.8	68.6	152	0.04704	3.92	20	
Toluene	0.0494	0.00500	0.05000	0	98.9	73.3	120	0.04792	3.14	20	
trans-1,2-Dichloroethene	0.0502	0.00300	0.05000	0	100	67.7	124	0.04993	0.480	20	
trans-1,3-Dichloropropene	0.0539	0.00200	0.05000	0	108	79.6	121	0.05235	2.84	20	
Trichloroethene	0.0495	0.00500	0.05000	0	99.0	74.5	124	0.04779	3.52	20	
Trichlorofluoromethane	0.0452	0.00500	0.05000	0	90.4	45.2	142	0.04456	1.43	20	
Vinyl chloride	0.0498	0.00200	0.05000	0	99.7	37.4	174	0.04777	4.24	20	
Xylenes, Total	0.145	0.0150	0.1500	0	96.7	80	120	0.1382	4.87	20	
Surr: 4-Bromofluorobenzene	0.0375		0.03000		125	65.1	136		0	20	
Surr: Dibromofluoromethane	0.0281		0.03000		93.8	40.4	143		0	20	
Surr: Toluene-d8	0.0311		0.03000		104	58.2	127		0	20	

Sample ID: LCS 17221A-80	SampType: LCS	TestCode: 8260_W_REC	Units: mg/L	Prep Date:	RunNo: 73621						
Client ID: LCS W	Batch ID: R73621	TestNo: SW8260B	Analysis Date: 10/26/2018	SeqNo: 1841784							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0478	0.00500	0.05000	0	95.6	73.4	120				
1,1,1-Trichloroethane	0.0506	0.00500	0.05000	0	101	64.5	127				

Qualifiers:

H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Matrix Interference
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	RL	Reporting Limit
S	Spike Recovery outside accepted recovery limits	SDL	Sample detection limit	U	Analyte not detected
W	Sample container temperature is out of limit as specified at testcode				



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QC SUMMARY REPORT

WO#: 18100983
 09-Nov-18

Client: Approach Environmental, LLC

Project: Approach Environmental - LDNR Residential

BatchID: R73621

Sample ID:	LCS 17221A-80	SampType:	LCS	TestCode:	8260_W_REC	Units:	mg/L	Prep Date:		RunNo:	73621
Client ID:	LCSW	Batch ID:	R73621	TestNo:	SW8260B	Analysis Date:	10/26/2018	SeqNo:	1841784		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,2,2-Tetrachloroethane	0.0496	0.000500	0.05000	0	99.1	63.6	120				
1,1,2-Trichloroethane	0.0476	0.00500	0.05000	0	95.1	74.9	120				
1,1-Dichloroethane	0.0496	0.00500	0.05000	0	99.2	67.9	123				
1,1-Dichloroethene	0.0457	0.00500	0.05000	0	91.4	60.3	135				
1,2-Dibromo-3-chloropropane	0.0503	0.00500	0.05000	0	101	56.6	132				
1,2-Dichlorobenzene	0.0480	0.0200	0.05000	0	96.0	76.4	120				
1,2-Dichloroethane	0.0479	0.00500	0.05000	0	95.8	67.5	124				
1,2-Dichloroethene, Total	0.103	0.00600	0.1000	0	103	72.5	122				
1,2-Dichloropropane	0.0479	0.00500	0.05000	0	95.8	77.2	120				
1,3-Dichlorobenzene	0.0485	0.0100	0.05000	0	97.0	75.1	120				
1,4-Dichlorobenzene	0.0475	0.0200	0.05000	0	95.0	76.1	120				
2-Butanone	0.0509	0.0100	0.05000	0	102	61	127				
4-Methyl-2-pentanone	0.0451	0.0100	0.05000	0	90.2	54.1	129				
Acetone	0.0887	0.0100	0.1000	0	88.7	52.1	135				
Benzene	0.0517	0.00500	0.05000	0	103	67.8	125				
Bromodichloromethane	0.0470	0.00500	0.05000	0	94.0	72	120				
Bromoform	0.0480	0.00500	0.05000	0	95.9	70.4	121				
Bromomethane	0.0457	0.00500	0.05000	0	91.3	41.6	157				
Carbon disulfide	0.0478	0.0100	0.05000	0	95.6	52.2	135				
Carbon tetrachloride	0.0483	0.00500	0.05000	0	96.7	65.6	125				
Chlorobenzene	0.0468	0.00500	0.05000	0	93.5	74.5	120				
Chlorodibromomethane	0.0489	0.00500	0.05000	0	97.8	75	120				
Chloroethane	0.0419	0.0100	0.05000	0	83.8	49.5	146				
Chloroform	0.0496	0.00500	0.05000	0	99.2	71	120				
Chloromethane	0.0477	0.00500	0.05000	0	95.4	45.8	145				
cis-1,2-Dichloroethene	0.0534	0.00300	0.05000	0	107	73.8	124				

Qualifiers:	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	SDL	Sample detection limit	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode				



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QC SUMMARY REPORT

WO#: 18100983
 09-Nov-18

Client: Approach Environmental, LLC

Project: Approach Environmental - LDNR Residential

BatchID: R73621

Sample ID:	SampType:	TestCode:	Units:	Prep Date:	RunNo:						
LCS 17221A-80	LCS	8260_W_REC	mg/L		73621						
Client ID:	Batch ID:	TestNo:	Analysis Date:	SeqNo:							
LCSW	R73621	SW8260B	10/26/2018	1841784							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,3-Dichloropropene	0.0524	0.00200	0.05000	0	105	80	120				
Ethylbenzene	0.0520	0.00500	0.05000	0	104	76.9	118				
Isobutyl alcohol	0.507	0.100	0.5000	0	101	70	130				
Methyl tert-butyl ether	0.0488	0.00500	0.05000	0	97.5	62.6	134				
Methylene chloride	0.0472	0.00500	0.05000	0	94.3	65.8	125				
Styrene	0.0455	0.00500	0.05000	0	91.0	79	120				
Tetrachloroethene	0.0470	0.00500	0.05000	0	94.1	68.6	152				
Toluene	0.0479	0.00500	0.05000	0	95.8	73.3	120				
trans-1,2-Dichloroethene	0.0499	0.00300	0.05000	0	99.9	67.7	124				
trans-1,3-Dichloropropene	0.0524	0.00200	0.05000	0	105	79.6	121				
Trichloroethene	0.0478	0.00500	0.05000	0	95.6	74.5	124				
Trichlorofluoromethane	0.0446	0.00500	0.05000	0	89.1	45.2	142				
Vinyl chloride	0.0478	0.00200	0.05000	0	95.5	37.4	174				
Xylenes, Total	0.138	0.0150	0.1500	0	92.1	80	120				
Surr: 4-Bromofluorobenzene	0.0351		0.03000		117	65.1	136				
Surr: Dibromofluoromethane	0.0285		0.03000		95.1	40.4	143				
Surr: Toluene-d8	0.0307		0.03000		102	58.2	127				

Qualifiers:	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	SDL	Sample detection limit	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode				



Element Materials Technology Lafayette
 2417 W. Pinhook Road
 Lafayette, LA 70508-3344
 TEL: (337) 235-0483 FAX: (337) 233-6540
 Website: www.element.com

QC SUMMARY REPORT

WO#: 18100983
 09-Nov-18

Client: Approach Environmental, LLC

Project: Approach Environmental - LDNR Residential

BatchID: R73629

Sample ID: GAS LCS	SampType: LCS	TestCode: 8015_G_W	Units: mg/L	Prep Date:	RunNo: 73629						
Client ID: LCSW	Batch ID: R73629	TestNo: SW8015B		Analysis Date: 10/26/2018	SeqNo: 1842008						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Gasoline Range) 11.2 0.150 12.50 0 89.7 80 130

Sample ID: GAS LCSD	SampType: LCSD	TestCode: 8015_G_W	Units: mg/L	Prep Date:	RunNo: 73629						
Client ID: LCSS02	Batch ID: R73629	TestNo: SW8015B		Analysis Date: 10/26/2018	SeqNo: 1842009						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Gasoline Range) 11.6 0.150 12.50 0 92.9 80 130 11.21 3.50 20

Sample ID: MBLK	SampType: MBLK	TestCode: 8015_G_W	Units: mg/L	Prep Date:	RunNo: 73629						
Client ID: PBW	Batch ID: R73629	TestNo: SW8015B		Analysis Date: 10/26/2018	SeqNo: 1842010						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Gasoline Range) 0.100 0.150
 Surr: alpha, alpha, alpha-Trifluorotoluene 0.0524 0.05000 105 70 130 J

Qualifiers:	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	SDL	Sample detection limit	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode				



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QC SUMMARY REPORT

WO#: **18100983**
09-Nov-18

Client: Approach Environmental, LLC

Project: Approach Environmental - LDNR Residential

BatchID: R73728

Sample ID: MBLK	SampType: MBLK	TestCode: 9056_W	Units: mg/L	Prep Date:	RunNo: 73728						
Client ID: PBW	Batch ID: R73728	TestNo: SW9056A		Analysis Date: 10/31/2018	SeqNo: 1844502						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	0.0513	0.250									J

Sample ID: LCS	SampType: LCS	TestCode: 9056_W	Units: mg/L	Prep Date:	RunNo: 73728						
Client ID: LCSW	Batch ID: R73728	TestNo: SW9056A		Analysis Date: 10/31/2018	SeqNo: 1844503						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	9.90	0.250	10.00	0	99.0	80	120				

Sample ID: LCSD	SampType: LCSD	TestCode: 9056_W	Units: mg/L	Prep Date:	RunNo: 73728						
Client ID: LCSS02	Batch ID: R73728	TestNo: SW9056A		Analysis Date: 10/31/2018	SeqNo: 1844504						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	9.87	0.250	10.00	0	98.7	80	120	9.897	0.241	15	

Sample ID: 18100982-001AMS	SampType: MS	TestCode: 9056_W	Units: mg/L	Prep Date:	RunNo: 73728						
Client ID: ZZZZZZ	Batch ID: R73728	TestNo: SW9056A		Analysis Date: 10/31/2018	SeqNo: 1844506						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	74,900	1,250	25,000	51,590	93.2	80	120				

Qualifiers:	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	RL	Reporting Limit
	S	Spike Recovery outside accepted recovery limits	SDL	Sample detection limit	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode				



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 Lafayette, LA 70508-3344
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QC SUMMARY REPORT

WO#: 18100983

09-Nov-18

Client: Approach Environmental, LLC

Project: Approach Environmental - LDNR Residential

BatchID: R73728

Sample ID: 18100982-001AMSD	SampType: MSD	TestCode: 9056_W	Units: mg/L	Prep Date:	RunNo: 73728						
Client ID: ZZZZZZ	Batch ID: R73728	TestNo: SW9056A		Analysis Date: 10/31/2018	SeqNo: 1844507						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	75,200	1,250	25,000	51,590	94.4	80	120	74,900	0.382	15	

Qualifiers:

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits
- W Sample container temperature is out of limit as specified at testcode

- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- SDL Sample detection limit

- M Matrix Interference
- RL Reporting Limit
- U Analyte not detected



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Sample Log-In Check List

Client Name: **APPROACH_ENVIRONM** Work Order Number: **18100983** RcptNo: **1**

Logged by:	Tammy Thibodeaux	10/26/2018 9:00:00 AM	<i>Tammy Thibodeaux</i>
Completed By:	Tammy Thibodeaux	10/26/2018 9:12:27 AM	<i>Tammy Thibodeaux</i>
Reviewed By:	Caitlin Duplantis	10/26/2018 1:08:45 PM	<i>Caitlin Duplantis</i>

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? FedEx

Log In

3. Coolers are present? Yes No NA
 4. Shipping container/cooler in good condition? Yes No
 Custody seals intact on shipping container/cooler? Yes No Not Present
 No. Seal Date: Signed By:
 5. Was an attempt made to cool the samples? Yes No NA
 6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
 7. Sample(s) in proper container(s)? Yes No
 8. Sufficient sample volume for indicated test(s)? Yes No
 9. Are samples (except VOA and ONG) properly preserved? Yes No
 10. Was preservative added to bottles? Yes No NA
 11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes No No VOA Vials
 12. Were any sample containers received broken? Yes No
 13. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
 14. Are matrices correctly identified on Chain of Custody? Yes No
 15. Is it clear what analyses were requested? Yes No
 16. Were all holding times able to be met? Yes No
 (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

18. Additional remarks:
 Improper error correction(s) made by client
 Added information to Trip Blank as per sample received.

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.5	Good	Not Present			

ANALYTICAL RESULTS

PERFORMED BY

GCAL, LLC
7979 Innovation Park Dr.
Baton Rouge, LA 70820

Report Date 11/08/2018

GCAL Report 218103055



Project 18100983

<i>Deliver To</i>	<i>Additional Recipients</i>
Annie Reedy	Caitlin Duplantis, Element Materials Technology
Element Materials Technology	Cristina Thibeaux, Element Materials Technology
2417 W Pinhook Rd	Rhonda David, Element Materials Technology
Lafayette, LA 70508	Buffy Hudson, Element Materials Technology
800-737-2378	



Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations that may be Utilized in this Report

ND	Indicates the result was Not Detected at the specified reporting limit
NO	Indicates the sample did not ignite when preliminary test performed for EPA Method 1030
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
DL	Detection Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
RE	Re-analysis
CF	HPLC or GC Confirmation
00:01	Reported as a time equivalent to 12:00 AM

Reporting Flags that may be Utilized in this Report

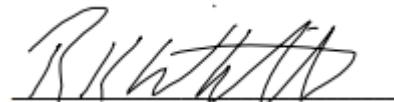
J or I	Indicates the result is between the MDL and LOQ
J	DOD flag on analyte in the parent sample for MS/MSD outside acceptance criteria
U	Indicates the compound was analyzed for but not detected
B or V	Indicates the analyte was detected in the associated Method Blank
Q	Indicates a non-compliant QC Result (See Q Flag Application Report)
*	Indicates a non-compliant or not applicable QC recovery or RPD – see narrative
E	Organics - The result is estimated because it exceeded the instrument calibration range
E	Metals - % difference for the serial dilution is > 10%
L	Reporting Limits adjusted to meet risk-based limit.
P	RPD between primary and confirmation result is greater than 40
DL	Diluted analysis – when appended to Client Sample ID

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with The NELAC Institute (TNI) Standard 2009 and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.



Authorized Signature
GCAL Report 218103055

Certifications

Certification	Certification Number
DOD ELAP	L16-398-R5
Alabama	01955
Arkansas	18-062-0
Colorado	01955
Delaware	01955
Florida	E87854
Georgia	01955
Hawaii	01955
Idaho	01955
Illinois	200048
Indiana	01955
Kansas	E-10354
Kentucky	95
Louisiana	01955
Maryland	01955
Massachusetts	01955
Michigan	01955
Mississippi	01955
Missouri	01955
Montana	N/A
Nebraska	01955
New Mexico	01955
North Carolina	618
North Dakota	R-195
Oklahoma	9403
South Carolina	73006001
South Dakota	01955
Tennessee	01955
Texas	T104704178
Vermont	01955
Virginia	460215
Washington	C929
USDA Soil Permit	P330-16-00234

Case Narrative

Client: Element Materials Technology **Report:** 218103055

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the Report Sample Summary page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

No anomalies were found for the analyzed sample(s).

Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21810305501	9312 Z Tommie Niten	Water	10/25/2018 15:45	10/30/2018 13:23

Sample Results

9312 Z Tommie Niten	Collect Date	10/25/2018 15:45	GCAL ID	21810305501
	Receive Date	10/30/2018 13:23	Matrix	Water

EPA RSK-175

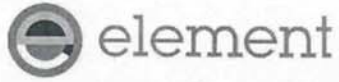
Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	30	11/08/2018 17:15	JAR	647639

CAS#	Parameter	Result	LOQ	Units
74-82-8	Methane	712	60.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
115-07-1	Propene	40.50	Diluted Out	ug/L	0*	40 - 143

GC Volatiles QC Summary

Analytical Batch 647639		Client ID GCAL ID Sample Type Prep Date Analysis Date Matrix	MB647639 1866851 MB NA 11/08/2018 16:03 Water	LCS647639 1866852 LCS NA 11/08/2018 16:09 Water			
EPA RSK-175		Units Result	ug/L LOQ	Spike Added	Result	%R	Control Limits%R
Methane Surrogate	74-82-8	ND	2.00	17.5	14.1	81	39 - 120
Propene	115-07-1	25.3	62	40.5	16.8	41	40 - 143



CHAIN OF CUSTODY RECORD

Omega COCID 7740 PAGE: 1 OF: 1

ADDRESS
 Element Materials Technology
 Lafayette
 2417 W. Pinhook Road
 Lafayette, LA 70508-3344
 TEL: (337) 235-0483
 FAX: (337) 233-6540
 Website: www.element.com

SUB CONTRATOR: GCAL		COMPANY: Gulf Coast		SPECIAL INSTRUCTIONS / COMMENTS: dissolved methane by RSK175/////PO ELA 01972PO			
ADDRESS: 7979 GSRI Avenue							
CITY, STATE, ZIP: Baton Rouge, LA 70820							
PHONE: (225) 769-4900		FAX: (225) 767-5717					
ACCOUNT #:							
ITEM #	SAMPLE ID	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	COMMENTS: Methanol Preserved Weights HOT Sample Notation, Additional Sample Description.
1	18100983-001G METHANE_SUB (RSK-175)	9312 Z Tommie Nit	VOAU	Water	10/25/2018 3:45:00 PM	2	

Client ID: 4462 - Element Materials Technology
 SDG: 218103055
 PM: JLM



Relinquished By: <i>[Signature]</i>	Date: <i>10-24-18</i>	Time: <i>1530</i>	Received By: <i>[Signature]</i>	Date: <i>10-24-18</i>	Time: <i>1530</i>	REPORT TRANSMITTAL DESIRED: <input type="checkbox"/> HARDCOPY (extra cost) <input type="checkbox"/> FAX <input type="checkbox"/> EMAIL <input type="checkbox"/> ONLINE FOR LAB USE ONLY Temp of samples: <i>2.35°C</i> Attempt to Cool? _____ Comments: <i>41CPM</i>
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
Relinquished By: <i>[Signature]</i>	Date: <i>10-30-18</i>	Time: <i>1323</i>	Received By: <i>[Signature]</i>	Date: <i>10-30-18</i>	Time: <i>1323</i>	
TAT: Standard <input type="checkbox"/> RUSH <input type="checkbox"/> Next BD <input type="checkbox"/> 2nd BD <input type="checkbox"/> 3rd BD <input type="checkbox"/> Note: RUSH requests will incur surcharges!						



SAMPLE RECEIVING CHECKLIST



SAMPLE DELIVERY GROUP 218103055			CHECKLIST		YES	NO
Client PM JLM 4462 - Element Materials Technology	Transport Method CUST		Samples received with proper thermal preservation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
			Radioactivity is <1600 cpm? If no, record cpm value in notes section.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Profile Number 271810	Received By Reese, Sean M		COC relinquished and complete (including sampleIDs, collect times, and sampler)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
			All containers received in good condition and within hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Line Item(s) 1 - Water	Receive Date(s) 10/30/18		All sample labels and containers received match the chain of custody?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
			Preservative added to any containers?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
			If received, was headspace for VOC water containers < 6mm?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
			Samples collected in containers provided by GCAL?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
COOLERS			DISCREPANCIES	LAB PRESERVATIONS		
Airbill	Thermometer ID: E29	Temp °C 2.3	None	None		
NOTES						



element

Chain of Custody

Laboratory Number: 18100983

Company Name: Contact Name: Address: City, State Zip: Phone Number: Fax Number: E-mail Address:	Client Information: Approach Env Mark Moore 1000 Grinnett dr. Shreveport, La 71107 318 464 9191 drakecd@Approachenv.com	Billing Information: Same	PO Number: Quote Number: Required QC Level: Bill Monthly: <input type="checkbox"/> Yes <input type="checkbox"/> No	Project Name/Number: 212NR Residential water wells Sampler's Signature: Shipping Method: UPS / <input checked="" type="radio"/> FedEx / NOW DHL / Element / Hand / Mail	Page 1 of 1 Matrix Code DW = Drinking Water WW = Waste Water GW = Ground Water AQ = Aqueous OT = Other SL = Sludge SOL = Solid O = Oil SO = Soil F = Food SW = Swab NG = Natural Gas NGL = Natural Gas Liquid PW = Produced Water CF = Completion Fluid
---	--	-------------------------------------	---	---	---

Which Regulations Apply:	Turn Time	Container	Pres.	Requested Tests										Comments				
				Quantity	Container Type	HCl, HNO ₃ , H ₂ SO ₄ , NaOH, Na ₂ S ₂ O ₃	VOC 8260	semi-VOC 8270	pesticides	TDS	TPH-D, G, O	Dissolved Methane	Sodium		Chlorides	Hold		
<input type="checkbox"/> RCRA <input type="checkbox"/> POTW <input type="checkbox"/> NPDES <input type="checkbox"/> USDA/FDA <input type="checkbox"/> RECAP/RISC <input type="checkbox"/> Drinking Water <input type="checkbox"/> Distribution <input type="checkbox"/> Special <input type="checkbox"/> State <input type="checkbox"/> Other	<input type="checkbox"/> Standard <input checked="" type="checkbox"/> RUSH <input type="checkbox"/> 1 Day <input checked="" type="checkbox"/> 2 Day <input type="checkbox"/> Other	<input type="checkbox"/> P=Plastic <input type="checkbox"/> G=Glass <input type="checkbox"/> V=Vial	<input type="checkbox"/> HCl <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> Na ₂ S ₂ O ₃	<input checked="" type="checkbox"/> VOC 8260 <input checked="" type="checkbox"/> semi-VOC 8270 <input checked="" type="checkbox"/> pesticides <input checked="" type="checkbox"/> TDS <input checked="" type="checkbox"/> TPH-D, G, O <input checked="" type="checkbox"/> Dissolved Methane <input checked="" type="checkbox"/> Sodium <input checked="" type="checkbox"/> Chlorides <input checked="" type="checkbox"/> Hold	<input type="checkbox"/> RCRA <input type="checkbox"/> POTW <input type="checkbox"/> NPDES <input type="checkbox"/> USDA/FDA <input type="checkbox"/> RECAP/RISC <input type="checkbox"/> Drinking Water <input type="checkbox"/> Distribution <input type="checkbox"/> Special <input type="checkbox"/> State <input type="checkbox"/> Other	<input type="checkbox"/> Standard <input checked="" type="checkbox"/> RUSH <input type="checkbox"/> 1 Day <input checked="" type="checkbox"/> 2 Day <input type="checkbox"/> Other	<input type="checkbox"/> P=Plastic <input type="checkbox"/> G=Glass <input type="checkbox"/> V=Vial	<input type="checkbox"/> HCl <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> Na ₂ S ₂ O ₃	<input checked="" type="checkbox"/> VOC 8260 <input checked="" type="checkbox"/> semi-VOC 8270 <input checked="" type="checkbox"/> pesticides <input checked="" type="checkbox"/> TDS <input checked="" type="checkbox"/> TPH-D, G, O <input checked="" type="checkbox"/> Dissolved Methane <input checked="" type="checkbox"/> Sodium <input checked="" type="checkbox"/> Chlorides <input checked="" type="checkbox"/> Hold	<input type="checkbox"/> RCRA <input type="checkbox"/> POTW <input type="checkbox"/> NPDES <input type="checkbox"/> USDA/FDA <input type="checkbox"/> RECAP/RISC <input type="checkbox"/> Drinking Water <input type="checkbox"/> Distribution <input type="checkbox"/> Special <input type="checkbox"/> State <input type="checkbox"/> Other	<input type="checkbox"/> Standard <input checked="" type="checkbox"/> RUSH <input type="checkbox"/> 1 Day <input checked="" type="checkbox"/> 2 Day <input type="checkbox"/> Other	<input type="checkbox"/> P=Plastic <input type="checkbox"/> G=Glass <input type="checkbox"/> V=Vial	<input type="checkbox"/> HCl <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> Na ₂ S ₂ O ₃	<input checked="" type="checkbox"/> VOC 8260 <input checked="" type="checkbox"/> semi-VOC 8270 <input checked="" type="checkbox"/> pesticides <input checked="" type="checkbox"/> TDS <input checked="" type="checkbox"/> TPH-D, G, O <input checked="" type="checkbox"/> Dissolved Methane <input checked="" type="checkbox"/> Sodium <input checked="" type="checkbox"/> Chlorides <input checked="" type="checkbox"/> Hold	48-hr Rush on VOC's A Method Detector Limit Required			
Sample ID/Description	Date	Time	Grab / Composite	Matrix	Quantity	Container Type	HCl, HNO ₃ , H ₂ SO ₄ , NaOH, Na ₂ S ₂ O ₃	VOC 8260	semi-VOC 8270	pesticides	TDS	TPH-D, G, O	Dissolved Methane	Sodium	Chlorides	Hold	Comments	
9312 Z Tommie Niten	10/25/18	1545	G	W	13	V	HCl	X	X	X	X	X	X	X	X	X		
Trip Blank	10/25/18	-	G	W	43	V	HCl	X	X	X	X	X	X	X	X	X		

	Relinquished by	Date/Time	Received by	Date/Time	Field Notes:
1		10/25/18 1730	FedEx	10/25/18 1730	
2					Received at lab on ice?
3	Fedex	10-26-18 09:06		10-26-18 09:00	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Temp: 0.5°C (IRNo)

All samples submitted to Element Materials Technology for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Element Materials Technology reserves the right to return unused sample portions.

8800 North US 31
Columbus, IN
47201 USA
P 812-375-0531
F 812-375-0731

328 Ley Road, Suite 100
Fort Wayne, IN
46825 USA
P 260-471-7000
F 260-471-7777

909 Executive Dr
Warsaw, IN
46580 USA
P 574-267-3305
F 574-269-6569

3371 Cleveland Road, Suite 100A
South Bend, IN
46628 USA
P 574-277-0707
F 574-273-5699

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70508 USA
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F 337-233-6540