



1941 Reymet Road • Richmond, Virginia 23237 • Tel: (804)-358-8295 Fax: (804)-358-8297

Certificate of Analysis

Final Report

Laboratory Order ID 17J0958

Client Name: APEX Companies, LLC. -Manassas
8854 Rixlew Lane
Manassas, VA 20109

Date Received: October 31, 2017 15:07

Date Issued: November 2, 2017 17:16

Project Number: [none]

Submitted To: William Thomas

Purchase Order:

Client Site I.D.: Kate Waller Barrett ES

Enclosed are the results of analyses for samples received by the laboratory on 10/31/2017 15:07. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

A handwritten signature in black ink that reads "Ted Soyars".

Ted Soyars
Laboratory Manager

End Notes:

The test results listed in this report relate only to the samples submitted to the laboratory and as received by the Laboratory.

Unless otherwise noted, the test results for solid materials are calculated on a wet weight basis. Analyses for pH, dissolved oxygen, temperature, residual chlorine and sulfite that are performed in the laboratory do not meet NELAC requirements due to extremely short holding times. These analyses should be performed in the field. The results of field analyses performed by the Sampler included in the Certificate of Analysis are done so at the client's request and are not included in the laboratory's fields of certification nor have they been audited for adherence to a reference method or procedure.

The signature on the final report certifies that these results conform to all applicable NELAC standards unless otherwise specified. For a complete list of the Laboratory's NELAC certified parameters please contact customer service.

This report shall not be reproduced except in full without the expressed and written approval of an authorized representative of Air Water & Soil Laboratories, Inc.





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Certificate of Analysis

Final Report

Client Name: APEX Companies, LLC. -Manassas Date Issued: 11/2/2017 17:16
8854 Rixlew Lane
Manassas VA, 20109
Submitted To: William Thomas Project Number: [none]
Client Site I.D.: Kate Waller Barrett ES Purchase Order:

ANALYTICAL REPORT FOR SAMPLES

Laboratory Order ID 17J0958

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
KWB2-Field Blank	17J0958-01	Drinking Water	10/31/2017 07:05	10/31/2017 15:07
KWB2-EXTENT4-FSL	17J0958-02	Drinking Water	10/31/2017 07:14	10/31/2017 15:07
KWB2-H3-JS	17J0958-03	Drinking Water	10/31/2017 07:27	10/31/2017 15:07
KWB2-CTA-FS	17J0958-04	Drinking Water	10/31/2017 07:26	10/31/2017 15:07
KWB2-EXTENT13-FSR	17J0958-05	Drinking Water	10/31/2017 07:07	10/31/2017 15:07
KWB2-CTB-FS	17J0958-06	Drinking Water	10/31/2017 07:23	10/31/2017 15:07
KWB2-EXTENT2-FSR	17J0958-07	Drinking Water	10/31/2017 07:19	10/31/2017 15:07
KWB2-EXTENT10-FSL	17J0958-08	Drinking Water	10/31/2017 07:09	10/31/2017 15:07



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Submitted To:	William Thomas	Project Number:	[none]
Client Site I.D.:	Kate Waller Barrett ES	Purchase Order:	

Laboratory Order ID: 17J0958

Analytical Results

Sample I.D. KWB2-Field Blank	Laboratory Sample ID: 17J0958-01
Grab Date/Time: 10/31/2017 07:05	

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
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Metals (Total) by EPA 200 Series Methods

Lead	01	EPA200.8 R5.4	<1.00 ug/L	1.00	1	11/01/17 16:00	11/02/17 12:42	MWL
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Submitted To:	William Thomas	Project Number:	[none]
Client Site I.D.:	Kate Waller Barrett ES	Purchase Order:	

Laboratory Order ID: 17J0958

Analytical Results

Sample I.D. KWB2-EXTENT4-FSL	Laboratory Sample ID: 17J0958-02
Grab Date/Time: 10/31/2017 07:14	

Parameter	Samp ID	Method	Result	Reporting Qual	Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
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Metals (Total) by EPA 200 Series Methods

Lead	02	EPA200.8 R5.4	18.9 ug/L	1.00	1	11/01/17 16:00	11/02/17 12:57	MWL
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Submitted To:	William Thomas	Project Number:	[none]
Client Site I.D.:	Kate Waller Barrett ES	Purchase Order:	

Laboratory Order ID: 17J0958

Analytical Results

Sample I.D. KWB2-H3-JS	Laboratory Sample ID: 17J0958-03
Grab Date/Time: 10/31/2017 07:27	

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
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Metals (Total) by EPA 200 Series Methods

Lead	03	EPA200.8 R5.4	35.1 ug/L	1.00	1	11/01/17 16:00	11/02/17 13:01	MWL
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Submitted To:	William Thomas	Project Number:	[none]
Client Site I.D.:	Kate Waller Barrett ES	Purchase Order:	

Laboratory Order ID: 17J0958

Analytical Results

Sample I.D. KWB2-CTA-FS	Laboratory Sample ID: 17J0958-04
Grab Date/Time: 10/31/2017 07:26	

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
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Metals (Total) by EPA 200 Series Methods

Lead	04	EPA200.8 R5.4	13.7 ug/L	1.00	1	11/01/17 16:00	11/02/17 13:05	MWL
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Submitted To:	William Thomas	Project Number:	[none]
Client Site I.D.:	Kate Waller Barrett ES	Purchase Order:	

Laboratory Order ID: 17J0958

Analytical Results

Sample I.D. KWB2-EXTENT13-FSR	Laboratory Sample ID: 17J0958-05
Grab Date/Time: 10/31/2017 07:07	

Parameter	Samp ID	Method	Result	Reporting Qual	Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
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Metals (Total) by EPA 200 Series Methods

Lead	05	EPA200.8 R5.4	<1.00 ug/L	1.00	1	11/01/17 16:00	11/02/17 13:09	MWL
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Submitted To:	William Thomas	Project Number:	[none]
Client Site I.D.:	Kate Waller Barrett ES	Purchase Order:	

Laboratory Order ID: 17J0958

Analytical Results

Sample I.D. KWB2-CTB-FS	Laboratory Sample ID: 17J0958-06
Grab Date/Time: 10/31/2017 07:23	

Parameter	Samp ID	Method	Result	Reporting Qual	Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
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Metals (Total) by EPA 200 Series Methods

Lead	06	EPA200.8 R5.4	28.7 ug/L	1.00	1	11/01/17 16:00	11/02/17 13:12	MWL
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Laboratory Order ID: 17J0958

Analytical Results

Sample I.D. KWB2-EXTENT2-FSR	Laboratory Sample ID: 17J0958-07
Grab Date/Time: 10/31/2017 07:19	

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
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Metals (Total) by EPA 200 Series Methods

Lead	07	EPA200.8 R5.4	8.68 ug/L	1.00	1	11/01/17 16:00	11/02/17 13:16	MWL
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Submitted To: William Thomas	Project Number: [none]
Client Site I.D.: Kate Waller Barrett ES	Purchase Order:

Laboratory Order ID: 17J0958

Analytical Results

Sample I.D. KWB2-EXTENT10-FSL	Laboratory Sample ID: 17J0958-08
Grab Date/Time: 10/31/2017 07:09	

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
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Metals (Total) by EPA 200 Series Methods

Lead	08	EPA200.8 R5.4	14.9 ug/L	1.00	1	11/01/17 16:00	11/02/17 13:27	MWL
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Analytical Summary

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Metals (Total) by EPA 200 Series Methods		Preparation Method: EPA200.8 R5.4			
17J0958-01	50.0 mL / 50.0 mL	EPA200.8 R5.4	BAK0027	SAK0059	AK70018
17J0958-02	50.0 mL / 50.0 mL	EPA200.8 R5.4	BAK0027	SAK0059	AK70018
17J0958-03	50.0 mL / 50.0 mL	EPA200.8 R5.4	BAK0027	SAK0059	AK70018
17J0958-04	50.0 mL / 50.0 mL	EPA200.8 R5.4	BAK0027	SAK0059	AK70018
17J0958-05	50.0 mL / 50.0 mL	EPA200.8 R5.4	BAK0027	SAK0059	AK70018
17J0958-06	50.0 mL / 50.0 mL	EPA200.8 R5.4	BAK0027	SAK0059	AK70018
17J0958-07	50.0 mL / 50.0 mL	EPA200.8 R5.4	BAK0027	SAK0059	AK70018
17J0958-08	50.0 mL / 50.0 mL	EPA200.8 R5.4	BAK0027	SAK0059	AK70018



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Metals (Total) by EPA 200 Series Methods - Quality Control

Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qual
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Batch BAK0027 - EPA200.8 R5.4

Blank (BAK0027-BLK1)				Prepared: 11/01/2017 Analyzed: 11/02/2017						
Lead	<1.00 ug/L	1.00	ug/L							
LCS (BAK0027-BS1)				Prepared: 11/01/2017 Analyzed: 11/02/2017						
Lead	50.7 ug/L	1.00	ug/L	50.0	ug/L	101	85-115			
LCS Dup (BAK0027-BSD1)				Prepared: 11/01/2017 Analyzed: 11/02/2017						
Lead	50.1 ug/L	1.00	ug/L	50.0	ug/L	100	85-115	1.28	20	
Matrix Spike (BAK0027-MS1)				Source: 17J0958-01			Prepared: 11/01/2017 Analyzed: 11/02/2017			
Lead	49.2 ug/L	1.00	ug/L	50.0	<1.00 ug/L	98.4	70-130			
Matrix Spike (BAK0027-MS2)				Source: 17K0008-02			Prepared: 11/01/2017 Analyzed: 11/02/2017			
Lead	48.5 ug/L	1.00	ug/L	50.0	1.93 ug/L	93.1	70-130			
Matrix Spike Dup (BAK0027-MSD1)				Source: 17J0958-01			Prepared: 11/01/2017 Analyzed: 11/02/2017			
Lead	49.9 ug/L	1.00	ug/L	50.0	<1.00 ug/L	99.8	70-130	1.46	20	
Matrix Spike Dup (BAK0027-MSD2)				Source: 17K0008-02			Prepared: 11/01/2017 Analyzed: 11/02/2017			
Lead	49.7 ug/L	1.00	ug/L	50.0	1.93 ug/L	95.5	70-130	2.43	20	



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Client Site I.D.:	Kate Waller Barrett ES	Purchase Order:	

Certified Analyses included in this Report

Analyte	Certifications		
<i>EPA200.8 R5.4 in Potable Water</i>			
Lead	VELAP		
Code	Description	Lab Number	Expires
MdDOE	Maryland DE Drinking Water	341	12/31/2017
NC	North Carolina DENR	495	12/31/2017
VELAP	NELAC-Virginia Certificate #9439	460021	06/14/2018
WVDEP	West Virginia DEP	350	11/30/2017



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Submitted To:	William Thomas	Project Number:	[none]
Client Site I.D.:	Kate Waller Barrett ES	Purchase Order:	

Summary of Data Qualifiers

RPD Relative Percent Difference
Qual Qualifiers
-RE Denotes sample was re-analyzed
D.F. Dilution Factor. Please also see the Preparation Factor in the Analysis Summary section.

TIC Tentatively Identified Compounds are compounds that are identified by comparing the analyte mass spectral pattern with the NIST spectral library . A TIC spectral match is reported when the pattern is at least 75% consistent with the published pattern. Compound concentrations are estimated and are calculated using an internal standard response factor of 1.

PCBs, Total Total PCBs are defined as the sum of detected Aroclors 1016, 1221, 1232, 1248, 1254, 1260, 1262, and 1268.

CHAIN OF CUSTODY

PAGE 1 OF 1

COMPANY NAME: Apex Manassas		INVOICE TO: Apex Manassas		PROJECT NAME: Stafford Schools-Pb in DW	
CONTACT: William Thomas		INVOICE CONTACT: William Thomas		SITE NAME: Hartwood ES Kate Walker Barrett ES	
ADDRESS: 8854 Rixlew Lane, Manassas, VA 20109		INVOICE ADDRESS: Same		PROJECT NUMBER:	
PHONE #: 1-703-396-6730		INVOICE PHONE #:		P.O. #:	
FAX #:		EMAIL: Wthomas@apexcos.com		Pretreatment Program:	
Is sample for compliance reporting? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		Is sample from a chlorinated supply? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		PWS I.D. #:	
SAMPLER NAME (PRINT): Toni Sanders		SAMPLER SIGNATURE: <i>[Signature]</i>		Turn Around Time: 10 Days	

Matrix Codes: WW=Waste Water/Storm Water GW=Ground Water DW=Drinking Water S=Soil/Solids OR=Organic A=Air WP=Wipe OT=Other											COMMENTS	
CLIENT SAMPLE I.D.	Grab	Composite	Field Filtered (Dissolved Metals)	Composite Start Date	Composite Start Time	Grab Date or Composite Stop Date	Grab Time or Composite Stop Time	Time Preserved	Matrix (See Codes)	Number of Containers	Pb 200.8	ANALYSIS / (PRESERVATIVE)
1) KWB2-Field blank	X					10/31/17	705	705	DW	1	X	
2) KWB2-EXTENT4-FSL	X					10/31/17	714	714	DW	1	X	
3) KWB2-H3-JS	X					10/31/17	727	727	DW	1	X	
4) KWB2-CTA-FS	X					10/31/17	726	726	DW	1	X	
5) KWB2-EXTENT13-FSK	X					10/31/17	707	707	DW	1	X	
6) KWB2-CTB-FS	X					10/31/17	723	723	DW	1	X	
7) KWB2-EXTENT2-FSK	X					10/31/17	719	719	DW	1	X	
8) KWB2-EXTENT10-FSL	X					10/31/17	709	709	DW	1	X	
9)	X								DW	1	X	
10)	X								DW	1	X	

Preservative Codes: N=Nitric Acid
 C=Hydrochloric Acid S=Sulfuric Acid
 H=Sodium Hydroxide A=Ascorbic Acid
 Z=Zinc Acetate T=Sodium Thiosulfate M=Methanol

Samples are to be preserved with HNO3 upon arrival to the lab

PLEASE NOTE PRESERVATIVE(S), INTERFERENCE CHECKS or PUMP RATE (L/min)

RELINQUISHED: <i>[Signature]</i>	DATE / TIME: 10/31/17 12:28	RECEIVED: <i>[Signature]</i>	DATE / TIME: 10-31-17 1:28	QC Data Package	LAB USE ONLY	COOLER TEMP: 19.6 °C
RELINQUISHED: <i>[Signature]</i>	DATE / TIME: 10-31-17 3:07	RECEIVED: <i>[Signature]</i>	DATE / TIME: 31 OCT 2017 15:07	Level III <input type="checkbox"/>	APEX-Manassas SCPS - Barrett ES	17J0958
RELINQUISHED:	DATE / TIME:	RECEIVED:	DATE / TIME:	Level IV <input type="checkbox"/>		
				Recd: 10/31/2017 Due: 11/14/2017		



Metals containers were received with pH = 4-6. HNO₃ was added by BL at 1600 on 10/31/17, to bring the pH <2. BL 10/31/17

Sample Preservation Log

Sample Preservation Log
Form #: F1301
Rev # 7.0
Effective: Feb 21, 2017
Page 1 of 1

Order ID: 17J0958

Date Performed: 10/31/17

Analyst Performing Check: BL

Sample ID	Container ID	Metals			Cyanide			Sulfide			Ammonia			TKN			Phos, Tot			NO3+NO2			DRO			Pesticide (8081/608/508)			SVOC (525.2/8270/625)			CrVI*					
		pH as Received		Final pH (if adjust)	pH as Received		Final pH (if adjust)	pH as Received		Final pH (if adjust)	pH as Received		Final pH (if adjust)	pH as Received		Final pH (if adjust)	pH as Received		Final pH (if adjust)	pH as Received		Final pH (if adjust)	Res.Cl as Received		Res.Cl P/A (if adjust)	Res.Cl as Received		Res.Cl P/A (if adjust)	pH as Received	Adjusted final pH	pH as Received		Final pH (if adjust)	pH as Received		Final pH (if adjust)	
		< 2	Other		> 12	Other		> 9	Other		< 2	Other		< 2	Other		< 2	Other		< 2	Other		< 2	Other		< 2	Other				< 2	Other		Present	Absent		Present
01	A	4	<2																																		
02	A	6	<2																																		
03	A	6	<2																																		
04	A	5	<2																																		
05	A	6	<2																																		
06	A	6	<2																																		
07	A	6	<2																																		
08	A	6	<2																																		

NaOH ID: _____ HNO₃ ID: 7H01427
 H₂SO₄ ID: _____ Na₂S₂O₃ ID: _____
 HCL ID: _____ Na₂SO₃ ID: _____

CrVI preserved date/time: _____ Analyst Initials: _____
 *pH must be adjusted between 9.3 - 9.7
 Buffer Sol'n ID: _____
 1N NaOH ID: _____ 5N NaOH: _____

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED
 F1301 Sample Preservation Log 7.0.xls



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Submitted To:	William Thomas	Project Number:	[none]
Client Site I.D.:	Kate Waller Barrett ES	Purchase Order:	

Sample Conditions Checklist

Samples Received at:	19.60°C
How were samples received?	Courier
Were Custody Seals used? If so, were they received intact?	Yes
Are the custody papers filled out completely and correctly?	Yes
Do all bottle labels agree with custody papers?	Yes
Is the temperature blank or representative sample within acceptable limits? (above freezing to 6°C) or received on ice and recently taken?	Yes
Are all samples within holding time for requested laboratory tests?	Yes
Is a sufficient amount of sample provided to perform the tests included?	Yes
Are all samples in appropriate containers for the analyses requested?	Yes
Were volatile organic containers received?	No
Are all volatile organic and TOX containers free of headspace?	NA
Is a trip blank provided for each VOC sample set? VOC sample sets include EPA8011, EPA504, EPA8260, EPA624, EPA8015 GRO, EPA8021, EPA524, and RSK-175.	NA
Are all samples received appropriately preserved? Note that metals containers do not require field preservation but lab preservation may delay analysis.	Yes

Work Order Comments