



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

February 13, 2013

Jill O. Stachura
BROWN AND CALDWELL
990 Hammond Drive
Atlanta GA 30328

TEL: (770) 673-3679
FAX: (770) 396-9495

RE: UGA Tanyard Creek

Dear Jill O. Stachura:

Order No: 1302572

Analytical Environmental Services, Inc. received 4 samples on 2/7/2013 6:05:00 PM for the analyses presented in following report.

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

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/12-06/30/13.
- AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

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

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

Tara Esbeck
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

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

CHAIN OF CUSTODY

Work Order: 1302572

Date: 2-7-13 Page 1 of 1

COMPANY: <u>Brown & Caldwell</u> <u>University of Georgia</u>		ADDRESS: <u>1180 E Broad Street</u>		ANALYSIS REQUESTED		Visit our website <u>www.aesatlanta.com</u> to check on the status of your results, place bottle orders, etc.		No # of Containers	
PHONE: <u>770-712-4497</u>		FAX:		SIGNATURE: <u>A. Althoff</u>		PRESERVATION (See codes)		REMARKS	
SAMPLED BY: <u>A. Althoff</u>		SAMPLE ID		DATE		TIME		Grab	
#		DATE		TIME		Grab		Matrix	
1		MP-8u		2-7-13		1405		X	
2		MP-3a		↓		1415		X	
3		MP-3u		↓		1330		X	
4		Boats down		↓		1520		X	
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
RELINQUISHED BY		DATE/TIME		RECEIVED BY		DATE/TIME		PROJECT INFORMATION	
1: <u>A. Althoff</u>		2-7-13 1605		1: <u>UGA Tanager Creek</u>		1805		PROJECT NAME:	
2:				2:				PROJECT #:	
3:				3:				SITE ADDRESS:	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD		OUT		VIA:		SEND REPORT TO: <u>Stachurski@brownco.com</u>	
		IN		VIA:		VIA:		INVOICE TO: <u>Tyran@uga.edu</u>	
		GREYHOUND		FedEx		UPS		(IF DIFFERENT FROM ABOVE)	
		MAIL		COURIER					
								QUOTE #:	
								PO#:	
								STATE PROGRAM (if any):	
								E-mail? Y / N: Fax? Y / N	
								DATA PACKAGE: I II III IV	
								TURNAROUND TIME REQUEST	
								Standard 5 Business Days	
								2 Business Day Rush	
								Next Business Day Rush	
								Same Day Rush (auth req.)	
								Other	
								Total # of Containers	
								8	

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

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

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

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc
Date: 13-Feb-13

Client:	BROWN AND CALDWELL	Client Sample ID:	MP-8U
Project Name:	UGA Tanyard Creek	Collection Date:	2/7/2013 2:05:00 PM
Lab ID:	1302572-001	Matrix:	Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Total Coliform,E-coli									
SM9223B									
E.coli	1600		10	10	MPN/100mL	R238324	10	02/07/2013 19:00	MU
Fecal Coliform (MF)									
SM9222D									
Fecal Coliform, (MF)	1900		200	200	Colonies/100ml	R238322	100	02/07/2013 19:00	MU

Qualifiers:

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

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

Analytical Environmental Services, Inc**Date:** 13-Feb-13

Client: BROWN AND CALDWELL
Project Name: UGA Tanyard Creek
Lab ID: 1302572-002

Client Sample ID: MP-3d
Collection Date: 2/7/2013 2:15:00 PM
Matrix: Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Total Coliform,E-coli									
SM9223B									
E.coli	12000		10	10	MPN/100mL	R238324	10	02/07/2013 19:00	MU
Fecal Coliform (MF)									
SM9222D									
Fecal Coliform, (MF)	13000		2000	2000	Colonies/100ml	R238322	1000	02/07/2013 19:00	MU

Qualifiers:

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

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

Analytical Environmental Services, Inc**Date:** 13-Feb-13

Client: BROWN AND CALDWELL
Project Name: UGA Tanyard Creek
Lab ID: 1302572-003

Client Sample ID: MP-3u
Collection Date: 2/7/2013 1:30:00 PM
Matrix: Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Total Coliform,E-coli									
SM9223B									
E.coli	160		10	10	MPN/100mL	R238324	10	02/07/2013 19:00	MU
Fecal Coliform (MF)									
SM9222D									
Fecal Coliform, (MF)	220		20	20	Colonies/100ml	R238322	10	02/07/2013 19:00	MU

Qualifiers:

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

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

Analytical Environmental Services, Inc
Date: 13-Feb-13

Client: BROWN AND CALDWELL
Project Name: UGA Tanyard Creek
Lab ID: 1302572-004

Client Sample ID: GOATS DOWN
Collection Date: 2/7/2013 3:20:00 PM
Matrix: Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Total Coliform,E-coli									
SM9223B									
E.coli	1900		10	10	MPN/100mL	R238324	10	02/07/2013 19:00	MU
Fecal Coliform (MF)									
SM9222D									
Fecal Coliform, (MF)	2100		200	200	Colonies/100ml	R238322	100	02/07/2013 19:00	MU

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

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

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Brown + Caldwell Work Order Number 1302572

Checklist completed by MA 2/7/13
Signature Date

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

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

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

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

Container/Temp Blank temperature in compliance? (4°C±2)* Yes ☒ No ☐

Cooler #1 3.5 Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

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

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

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

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

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

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

Adjusted? ☐ Checked by ☐

Sample Condition: Good ☒ Other(Explain) ☐

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

See Case Narrative for resolution of the Non-Conformance.

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

\\Quality Assurance\\Checklists Procedures Sign-Off Templates\\Checklists\\Sample Receipt Checklists\\Sample_Cooler_Receipt_Checklist

Client: BROWN AND CALDWELL
Project: UGA Tanyard Creek
Lab Order: 1302572

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1302572-001A	MP-8U	2/7/2013 2:05:00PM	Aqueous	FECAL COLIFORM-MF			02/07/2013
1302572-001A	MP-8U	2/7/2013 2:05:00PM	Aqueous	Total Coliform,E-coli			02/07/2013
1302572-002A	MP-3d	2/7/2013 2:15:00PM	Aqueous	FECAL COLIFORM-MF			02/07/2013
1302572-002A	MP-3d	2/7/2013 2:15:00PM	Aqueous	Total Coliform,E-coli			02/07/2013
1302572-003A	MP-3u	2/7/2013 1:30:00PM	Aqueous	FECAL COLIFORM-MF			02/07/2013
1302572-003A	MP-3u	2/7/2013 1:30:00PM	Aqueous	Total Coliform,E-coli			02/07/2013
1302572-004A	GOATS DOWN	2/7/2013 3:20:00PM	Aqueous	FECAL COLIFORM-MF			02/07/2013
1302572-004A	GOATS DOWN	2/7/2013 3:20:00PM	Aqueous	Total Coliform,E-coli			02/07/2013

Client: BROWN AND CALDWELL
Project Name: UGA Tanyard Creek
Workorder: 1302572

ANALYTICAL QC SUMMARY REPORT

BatchID: R238322

Sample ID: MB-R238322		Client ID:		Units: Colonies/100ml		Prep Date:		Run No: 238322			
SampleType: MBLK		TestCode: Fecal Coliform (MF)		SM9222D		BatchID: R238322		Analysis Date: 02/07/2013		Seq No: 4989577	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Fecal Coliform, (MF)	BRL	2	0	0	0	0	0	0	0	0	
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Sample ID: MB-R238322-2		Client ID:		Units: Colonies/100ml		Prep Date:		Run No: 238322			
SampleType: MBLK		TestCode: Fecal Coliform (MF)		SM9222D		BatchID: R238322		Analysis Date: 02/07/2013		Seq No: 4989593	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Fecal Coliform, (MF)	BRL	2	0	0	0	0	0	0	0	0	
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Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: BROWN AND CALDWELL
Project Name: UGA Tanyard Creek
Workorder: 1302572

ANALYTICAL QC SUMMARY REPORT

BatchID: R238324

Sample ID: MB-R238324	Client ID:					Units: MPN/100mL	Prep Date:	Run No: 238324			
SampleType: MBLK	TestCode: Total Coliform,E-coli	SM9223B				BatchID: R238324	Analysis Date: 02/07/2013	Seq No: 4989620			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

E.coli	BRL	1	0	0	0	0	0	0	0	0	
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Sample ID: MB-R238324-2	Client ID:					Units: MPN/100mL	Prep Date:			Run No: 238324	
SampleType: MBLK	TestCode: Total Coliform,E-coli	SM9223B				BatchID: R238324	Analysis Date: 02/07/2013			Seq No: 4989636	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

E.coli	BRL	1	0	0	0	0	0	0	0	0	
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Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		