

Certificate of Analysis

April 4th, 2014

Client: Colorado State University

Project: CWW (Lab Work Order - 1017)

On March 27th 2014, eAnalytics Laboratory received 1 sample for the project named CWW.

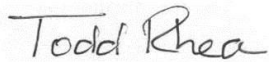
Analysis	Analytical Method	Samples
pH	SM4500H	1
Specific Conductance	SM2510B	1
Total Dissolved Solids (TDS)	SM2540C	1
Alkalinity	SM2320B	1
Anions - Br Cl SO4 NO3 NO2 F1	EPA 300.1	1
Phosphorous	EPA 365.4	1
Cations - Ba B Ca Fe Mg Mn K Se Na Sr	EPA 6010C	1
Presence of Bacteria	HACH-BART	1
BTEX / TVPH	EPA 8260C	1
TEPH	EPA 8015C	1

All quality control analyses associated with the requested tests were satisfactorily passed before the samples were run. Thank you for allowing eAnalytics Laboratory to provide laboratory services for you. If you have any questions please give us a call, we are happy to help.

Sincerely,



Christopher Dieken
Quality Assurance Manager



Todd Rhea
Laboratory Manager

eAnalytics Laboratory
(970) 667-6975



eANALYTICS LABORATORY

1767 Rocky Mountain Avenue Loveland CO 80538

Phone: (970) 667-6975

Fax: (970) 669-0941

www.eAnalyticsLab.com

CLIENT INFORMATION

(*New Clients please fill out completely)

ANALYSIS INFORMATION

(Select analysis by checking box on corresponding sample line)

Company: CSU
 Project: CWW
 Project Manager: Jie Son
 Sampler: Jie & Agma
 Phone/Email: jie.son@colostate.edu
 Address:

Lab ID	Sample Name	Sampling Date/Time	Number of Containers	Matrix: (S) Soil (W) Water (V) Vapor (O) Other	BTEX / MTBE / TVPH (EPA 8260)	TEPH (EPA 8015)	Vapor BTEX / TVPH (EPA TO-14)	Full VOC (EPA 8260)	Semi-Volatiles (Full List / PAH's)	TRPH / Oil & Grease	RCRA 8 Metals (Total / TCLP / Dissolved)	React. / Ignit. / Corrosivity / Paint Filter	pH / TSS / TDS	Metals (Specify)	PCBs / Pesticides / Herbicides	Anions (Specify)	Other Analysis	
GT1	GT 1	3/27/14	3															CSU CWW

Comments:

Turnaround Time (Business Days)
 TAT begins when sample is received by eANALYTICS

Normal (5-10 Days)
 3 Day (25%)
 2 Day (50%)
 1 Day (100%)
 Same Day (300%)

Rush analysis requires an extra charge.
 If possible please inform eANALYTICS in advance for rush analysis.

Colorado OPS Project : Yes / No

For eANALYTICS Use

Samples Received Intact: Yes / No
 Received Within Temperature Range (2-6°C): Yes / No
 Sample Preservative: Ice / None Acid / Other

Record of Custody

Relinquished by: Jie Son Date: 3/27/14
 Company: Time: AM / PM

Received by: Date: AM / PM
 Company: Time: AM / PM

Relinquished by: Date: AM / PM
 Company: Time: AM / PM

Received by: [Signature] Date: 3/27/14
 Company: eANALYTICS Time: AM / PM

WO # 1017

eANALYTICS: Environmental testing made Easy

Certificate of Analysis

Sample Information

Client: Colorado State University

Project: CWW

Methods: SM4500H (pH) SM2510B (Specific Conductance)
SM2540C (TDS) SM2320B (Alkalinity)

Water Sample Analysis

Sample Name	pH	Specific Conductance mmhos/cm	TDS mg/L	Total Alkalinity mg/L as CaCO ₃	Bicarbonate mg/L as CaCO ₃	Carbonate mg/L as CaCO ₃	Date Sampled	Date Analyzed	Lab ID
GT 1	7.1	1.23	599	360	360	< 10	3/27/14	3/27/14	1017-1

Certificate of Analysis

Sample Information

Client: Colorado State University

Project: CWW

Methods: EPA8260C (BTEX / TVPH)
EPA8015C (TEPH)

Water Sample Analysis

Sample Name	Benzene ug/L	Toluene ug/L	Ethyl- benzene ug/L	Total Xylenes ug/L	TVPH mg/L	TEPH mg/L	Date Sampled	Date Analyzed	Lab ID
GT 1	< 1.0	< 1.0	< 1.0	< 1.0	< 0.5	< 1.0	3/27/14	4/1/14	1017-1

Certificate of Analysis

Sample Information

Client: Colorado State University

Project: CWW

Methods: EPA8260C (BTEX)

Surrogate Recoveries (%)

Sample Name	Dibromofluoromethane Acceptance (70-130%)	1,2-Dichloroethane-D4 Acceptance (70-130%)	Toluene-D8 Acceptance (70-130%)	Bromofluorobenzene Acceptance (70-130%)	Date Sampled	Date Analyzed	Lab ID
GT 1	90	91	97	89	3/27/14	4/1/14	1017-1

Certificate of Analysis

Sample Information

Client: Colorado State University Project: CWW
Methods: EPA6010C (COGCC Groundwater Baseline Metals)
EPA365.3 (Phosphorous)

Dissolved Metals Analysis

Sample Name	Barium mg/L	Boron mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L	Phosphorous mg/L	Date Sampled	Date Analyzed	Lab ID
GT 1	0.051	0.093	225	< 0.10	6.44	0.024	< 0.05	3/27/14	4/2/14	1017-1

Certificate of Analysis

Sample Information

Client: Colorado State University

Project: CWW

Methods: EPA6010C (COGCC Groundwater Baseline Metals)

Total Metals Analysis

Sample Name	Potassium mg/L	Selenium mg/L	Sodium mg/L	Strontium mg/L	Date Sampled	Date Analyzed	Lab ID
GT 1	5.03	< 0.001	149	0.534	3/27/14	4/2/14	1017-1

Certificate of Analysis

Sample Information

Client: Colorado State University

Project: CWW

Methods: EPA 300.1 (Anions)

Water Sample Analysis

Sample Name	Bromide mg/L	Chloride mg/L	Fluoride mg/L	Nitrate mg/L	Nitrite mg/L	Sulfate mg/L	Date Sampled	Date Analyzed	Lab ID
GT 1	1.5	305	0.8	< 0.1	< 0.1	170	3/27/14	3/27/14	1017-1

Certificate of Analysis

Sample Information

Client: Colorado State University

Project: CWW

Methods: HACH-BART (Presence of Bacteria)

Total Metals Analysis

Sample Name	Iron Related Bacteria cfu/mL	Sulfate Reducing Bacteria cfu/mL	Slime Forming Bacteria cfu/mL	Date Sampled	Date Analyzed	Lab ID
GT 1	Positive	Positive	Negative	3/27/14	3/27-4/4	1017-1