

**WORK ORDER Summary****Evergreen Analytical, Inc.****09-8527****Rpt To:** John Axelson**Email To:** john.axelson@state.co.us

10/28/2009 10:46:43 AM

Colorado Oil &amp; Gas Conservation

Commission

9203 E 155th Dr

Brighton, CO 80602

(303) 637-7178

**Client Project ID:****QC Level:** LEVEL I+**Comments:** Send PDF and EDD COGCC format.

Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Test Code	Test Name	Hold	MS	Date Due	Hold Time
09-8527-01A	Dupper	Drinking Water	10/26/09 1135	10/26/09	8021_W *	8021: BTEX	<input type="checkbox"/>	<input type="checkbox"/>	11/09/09	11/09/09
09-8527-01B	Dupper	Drinking Water	10/26/09 1135	10/26/09	200.7_T *	200.7: Total Metals	<input type="checkbox"/>	<input type="checkbox"/>	11/09/09	4/24/10
09-8527-01C	Dupper	Drinking Water	10/26/09 1135	10/26/09	200.7_D *	200.7: Dissolved Metals	<input type="checkbox"/>	<input type="checkbox"/>	11/09/09	4/24/10
09-8527-01D	Dupper	Drinking Water	10/26/09 1135	10/26/09	ANIONS_NonDW *	300.0: Anions by IC	<input type="checkbox"/>	<input type="checkbox"/>	11/09/09	10/28/09
09-8527-01D	Dupper	Drinking Water	10/26/09 1135	10/26/09	C/A_BAL	Cation / Anion Balance calculation	<input type="checkbox"/>	<input type="checkbox"/>	11/09/09	
09-8527-01E	Dupper	Drinking Water	10/26/09 1135	10/26/09	ALK_WGRP *	Alkalinity	<input type="checkbox"/>	<input type="checkbox"/>	11/09/09	11/09/09
09-8527-01F	Dupper	Drinking Water	10/26/09 1135	10/26/09	MEEP_W *	RSK175M: Methane	<input type="checkbox"/>	<input type="checkbox"/>	11/09/09	11/09/09
09-8527-01G	Dupper	Drinking Water	10/26/09 1135	10/26/09	COND_W	Specific Conductance @ 25°C	<input type="checkbox"/>	<input type="checkbox"/>	11/09/09	11/23/09
09-8527-01G	Dupper	Drinking Water	10/26/09 1135	10/26/09	F_W	Fluoride	<input type="checkbox"/>	<input type="checkbox"/>	11/09/09	11/23/09
09-8527-01G	Dupper	Drinking Water	10/26/09 1135	10/26/09	PH_DW	E150.1 pH	<input type="checkbox"/>	<input type="checkbox"/>	11/09/09	10/27/09
09-8527-01G	Dupper	Drinking Water	10/26/09 1135	10/26/09	TDS_W	Total Dissolved Solids (TDS)	<input type="checkbox"/>	<input type="checkbox"/>	11/09/09	11/02/09

**Definitions:** \* - Test Code has a Select List

Report Results by: \_\_\_\_\_ (Date)\*

Standard 2 working weeks ☐

UST Analyses per Fee Schedule ☐

\* Rush: ☐ less than 24 hrs, 150% ☐ 1 - 2 work days, 100%

☐ 3 - 5 work days, 50% ☐ 6 - 9 work days, 25%

\*Subject to surcharge & exceptions noted in fee schedule.

[illegible]

Instructions: anions:  $\text{Cl}$ ,  $\text{SO}_4$ ,  $\text{CO}_3$ ,  $\text{HCO}_3$ ,  $\text{NO}_3$ ,  $\text{NO}_2$  cations:  $\text{Na}$ ,  $\text{Ca}$ ,  $\text{Mg}$ ,  $\text{K}$ ,  $\text{Fe}$  metals:  $\text{As}$ ,  $\text{Ba}$ ,  $\text{Cd}$ ,  $\text{Cr}$ ,  $\text{Pb}$ ,  $\text{Se}$ ,  $\text{Mn}$ .

**\*\* Important Note:** See reverse side for Terms and Conditions.

Anions: Bromide, Chloride, Nitrate, Nitrite O-Phosphate, Sulfate (Circle)

Relinquished by: (Signature)

Date/Time

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Date/Time

Received by: (Signature)

Date/Time

**Evergreen Analytical, Inc.**

**Date:** 06-Nov-09

**Lab Order:** 09-8527

**Client Project ID** Dupper

## **CASE NARRATIVE**

### **SAMPLE RECEIVING**

Sample(s) were hand delivered to the laboratory by the client.

Custody seals were not present.

The temperature of the sample(s) upon arrival was 3.5°C.

Sample(s) were received in good condition, in the proper container, and within holding times.

Sample(s) were preserved properly.

VOC sample(s) were marked as preserved on the bottle labels.

VOC sample(s) were received with no headspace present. JD

### **QUALITY ASSURANCE (QA)**

Analyses performed on samples in this work order by EAL meet the requirements of the EAL Quality Assurance Program unless otherwise explained. Analyses of RCRA and drinking water samples meet the requirements of NELAC and Utah Rule R444-14 unless otherwise explained. TP

### **CLIENT SERVICES**

There are no anomalies to report. PM

### **GENERAL CHEMISTRY**

Method E300.0: Due to high Chloride levels requiring dilutions to separate the Nitrite peak from the Chloride peak, the detection limit for Nitrite has been raised for the sample. There are no other anomalies to report. BNP/MM

### **METALS ANALYSIS**

There are no anomalies to report. TP

### **GAS CHROMATOGRAPHY**

Method 8021\_W: There are no anomalies to report. LC

Method RSK175: There are no anomalies to report. AS

**Evergreen Analytical, Inc.**  
 4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
 (303) 425-6021

Client Sample ID: Dupper  
 Client Project ID: Dupper  
 Date Collected: 10/26/2009  
 Date Received: 10/26/2009

Lab Work Order: 09-8527  
 Lab Sample ID: 09-8527-01A  
 Sample Matrix: Drinking Water

**AROMATIC VOLATILE ORGANICS**

**Method: SW8021B**

**Prep Method: SW5030B**

Date Prepared: 10/27/2009

Lab File ID: TA2943.D\FID1A.CH


Dilution Factor: 1

Date Analyzed: 10/27/2009

Method Blank: MB2102709

Analytes	CAS Number	Result	LQL	Units
Benzene	71-43-2	U	1.0	µg/L
Toluene	108-88-3	U	2.0	µg/L
Ethylbenzene	100-41-4	U	2.0	µg/L
m,p-Xylene	1330-20-7	U	2.0	µg/L
o-Xylene	95-47-6	U	2.0	µg/L
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	99	QC Limits: 60-140	%REC

  
 Analyst

  
 Approved

**Notes:** Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak. Confirmation analysis was not performed.

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
 E - Extrapolated value. Value exceeds calibration range  
 H - Sample analysis exceeded analytical holding time  
 J - Indicates an estimated value when the compound is detected, but is below the LQL  
 S - Spike Recovery outside accepted limits  
 U - Compound analyzed for but not detected  
 X - See case narrative  
 \* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

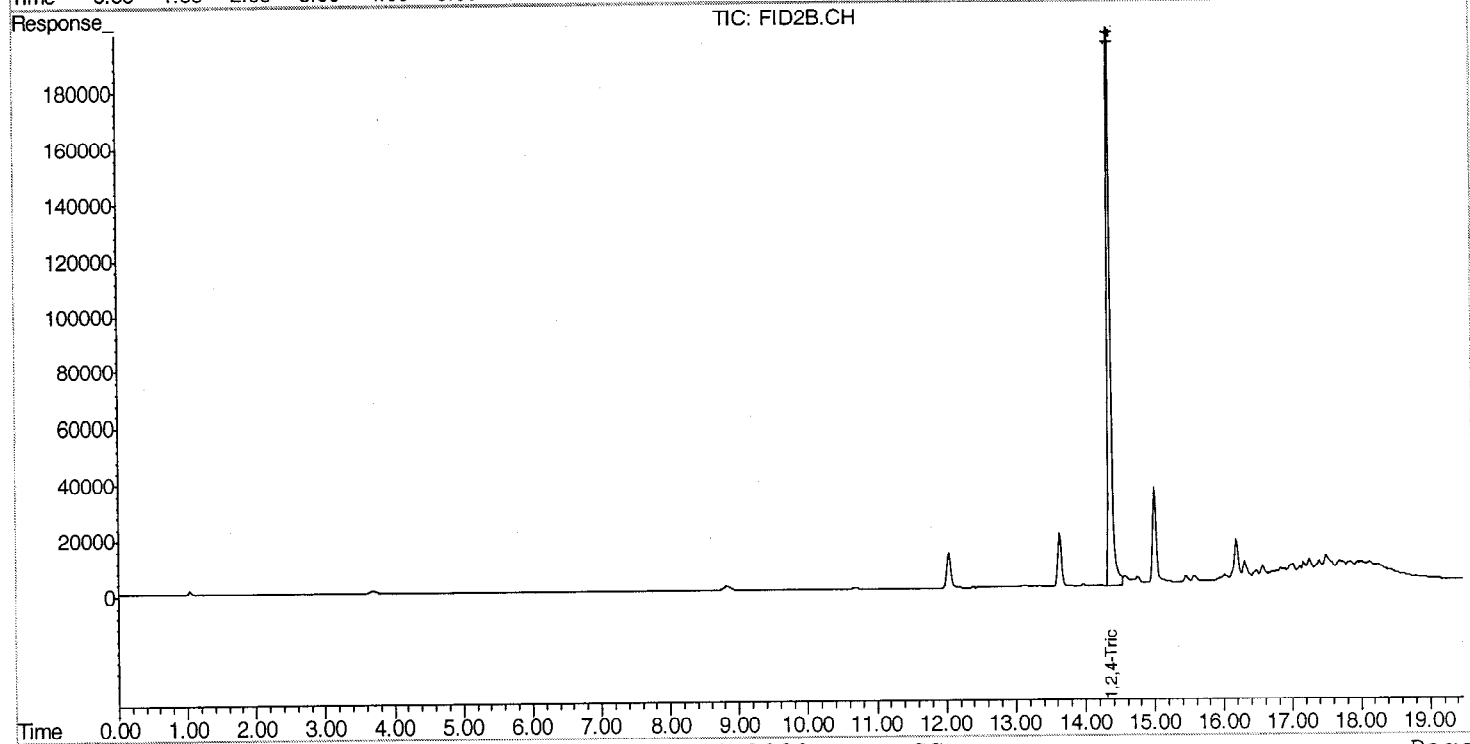
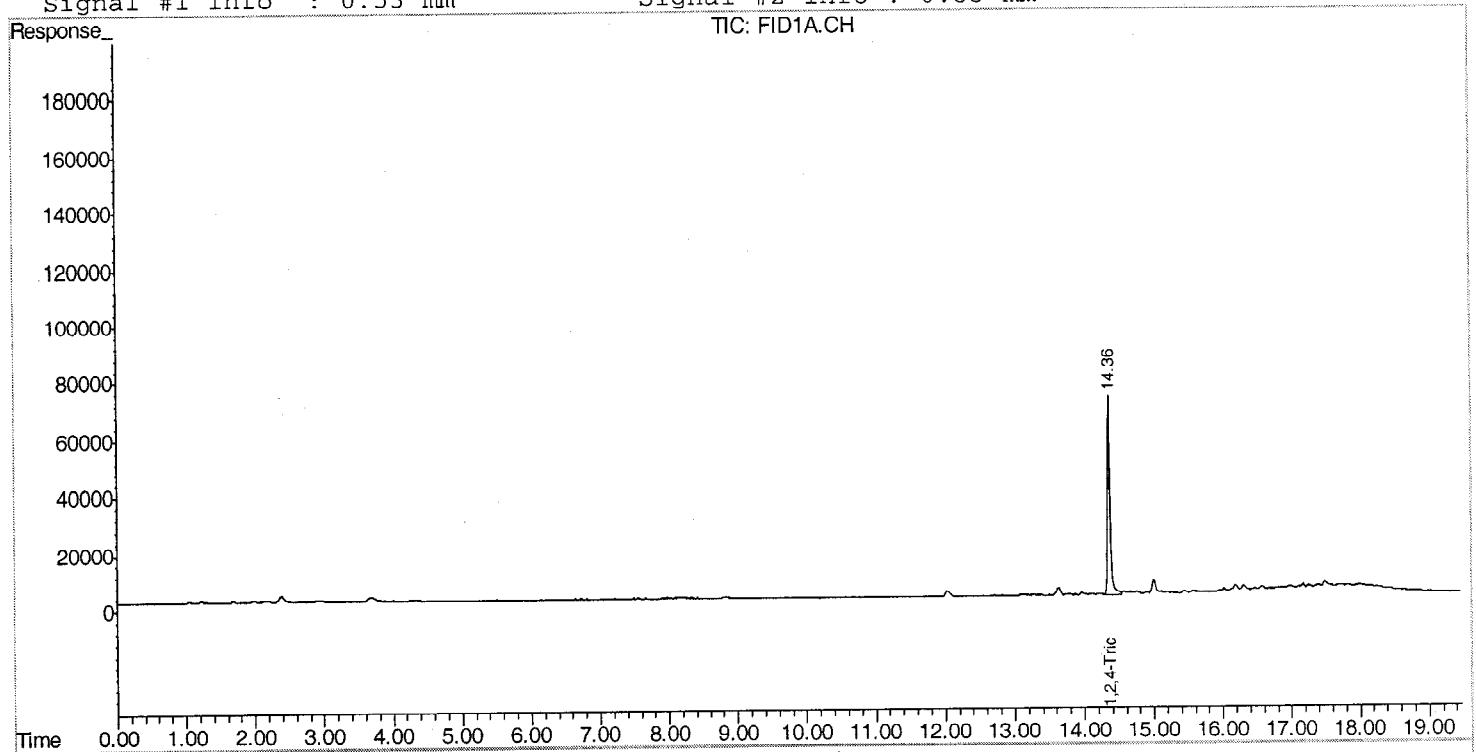
**Definitions:** LQL - Lower Quantitation Limit  
 Surr - Surrogate

Print Date: 10/28/2009

Signal #1 : Z:\102709\TA2943.D\FID1A.CH Vial: 12  
Signal #2 : Z:\102709\TA2943.D\FID2B.CH  
Acq On : 27 Oct 2009 6:30 pm Operator: laurac  
Sample : 09-8527-01A Inst : TVHBTEX2  
Misc : ,SAMP,8021\_W,TVH\_W,1,GC324,GTA156,,,,,1 Multiplr: 1.00  
IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E  
Quant Time: Oct 28 11:06 2009 Quant Results File: TW2101709.RES

Quant Method : C:\MSDCHEM\1\METHODS\TW2101709.M (Chemstation Integrator)  
Title : 8015B/8021B TVH/BTEX  
Last Update : Wed Oct 28 09:14:53 2009  
Response via : Multiple Level Calibration  
DataAcq Meth : TVB2.M

Volume Inj. :  
Signal #1 Phase : DB-624 Signal #2 Phase: DB-624  
Signal #1 Info : 0.53 mm Signal #2 Info : 0.53 mm



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Client Sample ID: Dupper  
Client Project ID: Dupper  
Date Collected: 10/26/09  
Date Received: 10/26/09

Lab Work Order: 09-8527  
Lab Sample ID: 09-8527-01  
Sample Matrix: Drinking Water

**DISSOLVED METALS**

Method: E200.7, Rev. 4.4

Prep Method: E200.7/SW3010A

Date Prepared: 10/28/09  
Date Analyzed: 10/28/09

Lab File ID: 102809AM  
Method Blank: MB-21335

Dilution Factor: 1  
Lab Fraction ID: 09-8527-01C

Analytes	CAS Number	Result	LQL	Units
Calcium	7440-70-2	89.4	0.387	mg/L
Iron	7439-89-6	U	0.0700	mg/L
Magnesium	7439-95-4	34.2	0.150	mg/L
Potassium	7440-09-7	3.83	0.340	mg/L
Sodium	7440-23-5	99.3	0.400	mg/L

**TOTAL METALS**

Method: E200.7, Rev. 4.4

Prep Method: E200.7, Rev. 4.4

Date Prepared: 11/4/09  
Date Analyzed: 11/5/09

Lab File ID: 110509AM  
Method Blank: MB-21411

Dilution Factor: 1  
Lab Fraction ID: 09-8527-01B

Analytes	CAS Number	Result	LQL	Units
Arsenic	7440-38-2	U	0.0500	mg/L
Barium	7440-39-3	0.0369	0.00200	mg/L
Cadmium	7440-43-9	U	0.0100	mg/L
Chromium	7440-47-3	U	0.0100	mg/L
Lead	7439-92-1	U	0.0730	mg/L
Manganese	7439-96-5	U	0.00500	mg/L
Selenium	7782-49-2	U	0.100	mg/L



Analyst



Approved

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S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

Definitions: NA - Not Applicable  
LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 11/6/2009

# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: Dupper  
Client Project ID: Dupper  
Date Collected: 10/26/09 1135  
Date Received: 10/26/09

Lab Work Order: 09-8527  
Lab Sample ID: 09-8527-01  
Sample Matrix: Drinking Water

## ANIONS BY IC

Method: E300.0

Prep Method:

Date Prepared: 10/27/09  
Date Analyzed: 10/27/09 1302

Lab File ID: 08  
Method Blank: MB 10/27/09

Dilution Factor: 1  
Lab Fraction ID: 09-8527-01D

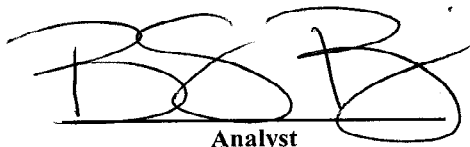
Analytes	CAS Number	Result	LQL	Units
Bromide	7647-15-6	0.36	0.20	mg/L

Date Prepared: 10/27/09  
Date Analyzed: 10/27/09 1711

Lab File ID: 16  
Method Blank: MB 10/27/09

Dilution Factor: 5  
Lab Fraction ID: 09-8527-01D

Analytes	CAS Number	Result	LQL	Units
Chloride	7647-14-5	88.1	2.5	mg/L
Nitrite-N		U	0.31	mg/L
Nitrate-N		4.05	0.23	mg/L
Nitrite+Nitrate-N		4.05	0.31	mg/L
Sulfate	7778-80-2	184	2.5	mg/L

  
Analyst

  
Approved

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S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
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Surr - Surrogate

Print Date: 10/28/2009

# ACCUTEST MOUNTAIN STATES LABORATORY

4036 Youngfield St., Wheat Ridge, CO 80033  
(303)425-6021

## Anion-Cation (Ion) Balance - Method 1030, Standard Methods, 20th Ed.

EAL Sample ID	09-8527-01D		09-		09-		09-		09-	
Client Sample ID	Dupper									
Sample Result	mg/L	Meq/L	mg/L	Meq/L	mg/L	Meq/L	mg/L	Meq/L	mg/L	Meq/L
<i>Anions</i>										
Cl	88.1	2.485		0.000		0.000		0.000		0.000
SO <sub>4</sub>	184	3.831		0.000		0.000		0.000		0.000
HCO <sub>3</sub> as CaCO <sub>3</sub>	250	4.996		0.000		0.000		0.000		0.000
CO <sub>3</sub> as CaCO <sub>3</sub>		0.000		0.000		0.000		0.000		0.000
NO <sub>3</sub>		0.000		0.000		0.000		0.000		0.000
NO <sub>3</sub> as N	4.05	0.289		0.000		0.000		0.000		0.000
Other		0.000		0.000		0.000		0.000		0.000
<b>Anions Total</b>		<b>11.601</b>		<b>0.000</b>		<b>0.000</b>		<b>0.000</b>		<b>0.000</b>
<i>Cations</i>										
Ca	89.4	4.461		0.000		0.000		0.000		0.000
Mg	34.20	2.814		0.000		0.000		0.000		0.000
K	3.83	0.098		0.000		0.000		0.000		0.000
Na	99	4.319		0.000		0.000		0.000		0.000
Other		0.000		0.000		0.000		0.000		0.000
<b>Cations Total</b>		<b>11.693</b>		<b>0.000</b>		<b>0.000</b>		<b>0.000</b>		<b>0.000</b>
<b>Ion Balance</b>										
<b>% Difference</b>		<b>0.39</b>								

$$\% \text{ difference} = 100 \times \frac{(\text{sum cations} - \text{sum anions})}{(\text{sum cations} + \text{sum anions})}$$

RAK

Approved



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**Evergreen Analytical, Inc.**  
4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: Dupper  
Client Project ID: Dupper  
Date Collected: 10/26/09 1135  
Date Received: 10/26/09

Lab Work Order 09-8527  
Lab Sample ID: 09-8527-01  
Sample Matrix: Drinking Water

**ALKALINITY**

Method: SM2320B

Prep Method:

Date Prepared: 10/27/09  
Date Analyzed: 10/27/09

Lab File ID: 64  
Method Blank: MBLK 10/27/09

Dilution Factor: 1  
Lab Fraction ID: 09-8527-01E

Analytes	CAS Number	Result	LQL	Units
Total Alkalinity		250	5.0	mg/L CaCO <sub>3</sub>
Bicarbonate		250	5.0	mg/L CaCO <sub>3</sub>
Carbonate		U	5.0	mg/L CaCO <sub>3</sub>

**SPECIFIC CONDUCTANCE @ 25°C**

Method: SM2510 B

Prep Method:

Date Prepared: 10/27/09  
Date Analyzed: 10/27/09

Lab File ID: 78

Dilution Factor: 1  
Lab Fraction ID: 09-8527-01G

Analytes	CAS Number	Result	LQL	Units
Specific Conductance		936	1.00	µmhos/cm

**FLUORIDE**

Method: SM 4500-F C

Prep Method:

Date Prepared: 11/4/09  
Date Analyzed: 11/4/09

Lab File ID: 138  
Method Blank: MBLK 11/4/09

Dilution Factor: 1  
Lab Fraction ID: 09-8527-01G

Analytes	CAS Number	Result	LQL	Units
Fluoride	16984-48-8	1.3	0.20	mg/L

**E150.1 PH**

Method: E150.1

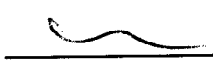
Prep Method:

Date Prepared: 10/26/09  
Date Analyzed: 10/26/09 1550

Dilution Factor: 1  
Lab Fraction ID: 09-8527-01G

Analytes	CAS Number	Result	LQL	Units
pH		7.39	1.00	pH Units

  
Analyst

  
Approved

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S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable  
LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 11/6/2009

**Evergreen Analytical, Inc.**  
4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

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Client Sample ID: Dupper  
Client Project ID: Dupper  
Date Collected: 10/26/09 1135  
Date Received: 10/26/09

Lab Work Order 09-8527  
Lab Sample ID: 09-8527-01  
Sample Matrix: Drinking Water

**TOTAL DISSOLVED SOLIDS (TDS)**

Method: SM 2540C

Prep Method:

Date Prepared: 11/2/09  
Date Analyzed: 11/2/09

Lab File ID: 4  
Method Blank: MBLK 11/2/09

Dilution Factor: 1  
Lab Fraction ID: 09-8527-01G

Analytes	CAS Number	Result	LQL	Units
Total Dissolved Solids		756	10.0	mg/L

  
\_\_\_\_\_  
Analyst

  
\_\_\_\_\_  
Approved

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
J - Indicates an estimated value when the compound is detected, but is below the LQL  
S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** NA - Not Applicable  
LQL - Lower Quantitation Limit  
Surr - Surrogate

Print Date: 11/6/2009

**Evergreen Analytical, Inc.**

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

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**Client Project ID** Dupper

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**Lab Order:** 09-8527  
**Units:** mg/L

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**RSKSOP-175M Headspace**  
**Methane**

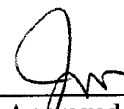
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**Method:** RSKSOP175M**Prep Method:** RSKSOP175M

<b>Lab ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Date Received</b>	<b>Collection Date</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Results</b>	<b>LQL</b>	<b>DF</b>
09-8527-01F	Dupper	Drinking Water	10/26/09	10/26/09	10/28/09	10/28/09	0.00087	0.00080	1

**Comments:**

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**Analyst**

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**Approved**

**Qualifiers:** J - Indicates an estimated value when the compound is detected, but is below the LQL  
H - Sample analysis exceeded analytical holding time  
U - Compound analyzed for but not detected  
X - See case narrative  
\*- Value exceeds Maximum Contamination Level(MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** DF - Dilution Factor  
LQL - Lower Quantitation Limit

Print Date: 10/28/09

## **QUALITY ASSURANCE REPORTS**

**METHOD BLANKS (MB)**

**LABORATORY CONTROL SPIKES (LCS)**

**MATRIX SPIKES (MS/MSD)\***

**DUPLICATES (DUP)\***

\* **For Metals or Wet Chemistry analyses: only included if requested.**

Evergreen Analytical, Inc.

Date: 28-Oct-09

Work Order: 09-8527

Client Project ID: Dupper

## ANALYTICAL QC SUMMARY REPORT

TestCode: 8021\_W

Sample ID: MB2102709	SampType: MBLK	TestCode: 8021_W	Run ID: TVHBTEX2_091027A				Prep Date: 10/27/2009		Units: µg/L		
	Batch ID: R50945	TestNo: SW8021B	FileID: TA2934.D\FID1A.CH				Analysis Date: 10/27/2009		SeqNo: 930000		
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	U	1.0									
Toluene	U	2.0									
Ethylbenzene	U	2.0									
m,p-Xylene	U	2.0									
o-Xylene	U	2.0									
Surr: 1,2,4-Trichlorobenzene (S)	106.6	0	100	0	107	60	140	0	0		

Sample ID: LCS2102709	SampType: LCS	TestCode: 8021_W	Run ID: TVHBTEX2_091027A				Prep Date: 10/27/2009		Units: µg/L		
	Batch ID: R50945	TestNo: SW8021B	FileID: TA2935.D\FID1A.CH				Analysis Date: 10/27/2009		SeqNo: 930001		
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	27.51	1.0	27.2	0	101	70	130	0	0		
Toluene	195.6	2.0	211.6	0	92.4	70	130	0	0		
Ethylbenzene	45.97	2.0	45.6	0	101	70	130	0	0		
m,p-Xylene	148.6	2.0	150	0	99	70	130	0	0		
o-Xylene	67.09	2.0	65.9	0	102	70	130	0	0		
Surr: 1,2,4-Trichlorobenzene (S)	114.9	0	100	0	115	60	140	0	0		

Sample ID: 09-8526-01AMS	SampType: MS	TestCode: 8021_W	Run ID: TVHBTEX2_091027A				Prep Date: 10/27/2009		Units: µg/L		
	Batch ID: R50945	TestNo: SW8021B	FileID: TA2937.D\FID1A.CH				Analysis Date: 10/27/2009		SeqNo: 930003		
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	27.95	1.0	27.2	0	103	70	130	0	0		
Toluene	197.2	2.0	211.6	0	93.2	70	130	0	0		
Ethylbenzene	46.41	2.0	45.6	0	102	62	130	0	0		
m,p-Xylene	149.5	2.0	150	0	99.7	70	134	0	0		
o-Xylene	67.44	2.0	65.9	0	102	63	130	0	0		
Surr: 1,2,4-Trichlorobenzene (S)	119.6	0	100	0	120	60	140	0	0		

Qualifiers: U - Not detected at or above the Reporting Limit  
J - Analyte detected below quantitation limits  
S - Spike Recovery outside acceptance limits  
E - Extrapolated value, value exceeds calibration range.

R - RPD outside acceptance limits  
B - Analyte detected in the associated Method Blank  
H - Prep or analytical holding time exceeded  
X - See case narrative

Work Order: 09-8527

Client Project ID: Dupper

## ANALYTICAL QC SUMMARY REPORT

TestCode: 8021\_W

Sample ID: 09-8526-01AMSD	SampType: MSD	TestCode: 8021_W	Run ID: TVHBTEX2_091027A	Prep Date: 10/27/2009	Units: µg/L						
	Batch ID: R50945	TestNo: SW8021B	FileID: TA2938.D\FID1A.CH	Analysis Date: 10/27/2009	SeqNo: 930004						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	28.51	1.0	27.2	0	105	70	130	27.95	1.96	30	
Toluene	199.6	2.0	211.6	0	94.3	70	130	197.2	1.22	30	
Ethylbenzene	46.98	2.0	45.6	0	103	62	130	46.41	1.21	30	
m,p-Xylene	151.6	2.0	150	0	101	70	134	149.5	1.39	30	
o-Xylene	68.1	2.0	65.9	0	103	63	130	67.44	0.968	30	
Surr: 1,2,4-Trichlorobenzene (S)	118.7	0	100	0	119	60	140	0	0	0	

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R - RPD outside acceptance limits  
B - Analyte detected in the associated Method Blank  
H - Prep or analytical holding time exceeded  
X - See case narrative

Work Order: 09-8527

Client Project ID: Dupper

## ANALYTICAL QC SUMMARY REPORT

BatchID: 21335

Sample ID: 09-8527-01CMS	SampType: MS	TestCode: 200.7_D	Run ID: ICP-OPTIMA 5300 DV_091028A	Prep Date: 10/28/2009	Units: mg/L						
Client ID: Dupper	Batch ID: 21335	TestNo: E200.7, Rev.	FileID: 102809AM	Analysis Date: 10/28/2009	SeqNo: 932662						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	100	0.48	12.5	89.41	85	75	125	100	0	0	
Iron	6.494	0.088	6.25	0	104	75	125	6.494	0	0	
Magnesium	47.69	0.19	12.5	34.2	108	75	125	47.69	0	0	
Potassium	17.79	0.43	12.5	3.831	112	75	125	17.79	0	0	
Sodium	114.3	0.50	12.5	99.28	120	75	125	114.3	0	0	

Sample ID: 09-8527-01CMSD	SampType: MSD	TestCode: 200.7_D	Run ID: ICP-OPTIMA 5300 DV_091028A				Prep Date: 10/28/2009	Units: mg/L			
Client ID: Dupper	Batch ID: 21335	TestNo: E200.7, Rev.	FileID: 102809AM				Analysis Date: 10/28/2009	SeqNo: 932663			
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	99.61	0.48	12.5	89.41	81.5	75	125	0	0		
Iron	6.375	0.088	6.25	0	102	75	125	0	0		
Magnesium	47.49	0.19	12.5	34.2	106	75	125	0	0		
Potassium	17.62	0.43	12.5	3.831	110	75	125	0	0		
Sodium	113.9	0.50	12.5	99.28	117	75	125	0	0		

Sample ID: MB-21335	SampType: MBLK	TestCode: 200.7_DW	Run ID: ICP-OPTIMA 5300 DV_091028A	Prep Date: 10/28/2009	Units: mg/L						
	Batch ID: 21335	TestNo: E200.7, Rev.	FileID: 102809AM	Analysis Date: 10/28/2009	SeqNo: 930639						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	0	0.39									
Iron	0	0.070									
Magnesium	0	0.15									
Potassium	0	0.34									
Sodium	U	0.40									

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 X - See case narrative

016

Work Order: 09-8527

Client Project ID: Dupper

## ANALYTICAL QC SUMMARY REPORT

BatchID: 21335

Sample ID: LCS-21335	SampType: LCS	TestCode: 200.7_DW	Run ID: ICP-OPTIMA 5300 DV_091028A	Prep Date: 10/28/2009	Units: mg/L						
	Batch ID: 21335	TestNo: E200.7, Rev.	FileID: 102809AM	Analysis Date: 10/28/2009	SeqNo: 930640						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	10.16	0.39	10	0	102	85	115	0	0		
Iron	5.03	0.070	5	0	101	85	115	0	0		
Magnesium	9.677	0.15	10	0	96.8	85	115	0	0		
Potassium	9.935	0.34	10	0	99.4	85	115	0	0		
Sodium	9.848	0.40	10	0.2016	98.5	85	115	0	0		

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Work Order: 09-8527

Client Project ID: Dupper

## ANALYTICAL QC SUMMARY REPORT

BatchID: 21411

Sample ID: <b>MB-21411</b>	SampType: <b>MBLK</b>	TestCode: <b>200.7_T</b>	Run ID: <b>ICP-OPTIMA 5300 DV_091105A</b>	Prep Date: <b>11/4/2009</b>	Units: <b>mg/L</b>						
	Batch ID: <b>21411</b>	TestNo: <b>E200.7, Rev.</b>	FileID: <b>110509AM</b>	Analysis Date: <b>11/5/2009</b>	SeqNo: <b>932441</b>						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	U	0.0500									
Barium	U	0.00200									
Cadmium	U	0.0100									
Chromium	U	0.0100									
Lead	U	0.0730									
Manganese	U	0.00500									
Selenium	U	0.100									

Sample ID: LCS-21411	SampType: LCS	TestCode: 200.7_T	Run ID: ICP-OPTIMA 5300 DV_091105A	Prep Date: 11/4/2009	Units: mg/L						
	Batch ID: 21411	TestNo: E200.7, Rev.	FileID: 110509AM	Analysis Date: 11/5/2009	SeqNo: 932442						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	2.109	0.0500	2	0	105	85	115	0	0		
Barium	5.142	0.00200	5	0	103	85	115	0	0		
Cadmium	0.2008	0.0100	0.2	0	100	85	115	0	0		
Chromium	2.014	0.0100	2	0	101	85	115	0	0		
Lead	2.027	0.0730	2	0	101	85	115	0	0		
Manganese	2.002	0.00500	2	0	100	85	115	0	0		
Selenium	2.187	0.100	2	0	109	85	115	0	0		

Sample ID: 09-8527-01BMS	SampType: MS	TestCode: 200.7_T	Run ID: ICP-OPTIMA 5300 DV_091105A	Prep Date: 11/4/2009	Units: mg/L						
Client ID: Dupper	Batch ID: 21411	TestNo: E200.7, Rev.	FileID: 110509AM	Analysis Date: 11/5/2009	SeqNo: 932444						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	2.364	0.0556	2.222	0	106	75	125	0	0		
Barium	5.933	0.00222	5.556	0.03686	106	75	125	0	0		
Cadmium	0.2309	0.0111	0.2222	0	104	75	125	0	0		
Chromium	2.159	0.0111	2.222	0	97.2	75	125	0	0		
Lead	2.324	0.0811	2.222	0	105	75	125	0	0		
Manganese	2.066	0.00556	2.222	0	93	75	125	0	0		

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- X - See case narrative

Work Order: 09-8527

Client Project ID: Dupper

## ANALYTICAL QC SUMMARY REPORT

BatchID: 21411

Sample ID: 09-8527-01BMS	SampType: MS	TestCode: 200.7_T	Run ID: ICP-OPTIMA 5300 DV_091105A	Prep Date: 11/4/2009	Units: mg/L						
Client ID: Dupper	Batch ID: 21411	TestNo: E200.7, Rev.	FileID: 110509AM	Analysis Date: 11/5/2009	SeqNo: 932444						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	2.36	0.111	2.222	0	106	75	125	0	0		

Sample ID: 09-8527-01BMSD	SampType: MSD	TestCode: 200.7_T	Run ID: ICP-OPTIMA 5300 DV_091105A				Prep Date: 11/4/2009		Units: mg/L		
Client ID: Dupper	Batch ID: 21411	TestNo: E200.7, Rev.	FileID: 110509AM				Analysis Date: 11/5/2009		SeqNo: 932445		
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	2.387	0.0556	2.222	0	107	75	125	2.364	0.954	20	
Barium	5.929	0.00222	5.556	0.03686	106	75	125	5.933	0.0528	20	
Cadmium	0.2327	0.0111	0.2222	0	105	75	125	0.2309	0.754	20	
Chromium	2.17	0.0111	2.222	0	97.6	75	125	2.159	0.472	20	
Lead	2.329	0.0811	2.222	0	105	75	125	2.324	0.202	20	
Manganese	2.076	0.00556	2.222	0	93.4	75	125	2.066	0.482	20	
Selenium	2.386	0.111	2.222	0	107	75	125	2.36	1.06	20	

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Work Order: 09-8527

Client Project ID: Dupper

## ANALYTICAL QC SUMMARY REPORT

BatchID: R50933

Sample ID: MB 10/27/09		SampType: MBLK		TestCode: anions_w		Run ID: IC-2000_091027A		Prep Date: 10/27/2009		Units: mg/L	
Batch ID: R50933		TestNo: E300.0		FileID: 06		Analysis Date: 10/27/2009		SeqNo: 929741			
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	0	0.50									
Nitrite-N	0	0.0040									
Nitrate-N	0	0.010									
Nitrite+Nitrate-N	0	0.010									
Sulfate	0	0.50									

Sample ID: LCS ALLT218099		SampType: LCS		TestCode: anions_w		Run ID: IC-2000_091027A		Prep Date: 10/27/2009		Units: mg/L	
Batch ID: R50933		TestNo: E300.0		FileID: 05		Analysis Date: 10/27/2009		SeqNo: 929740			
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	18.8	2.5	20	0	94	90	110	0	0		
Nitrite-N	6.159	0.020	6.09	0	101	90	110	0	0		
Nitrate-N	4.266	0.050	4.518	0	94.4	90	110	0	0		
Nitrite+Nitrate-N	10.42	0.050	10.61	0	98.3	90	110	0	0		
Sulfate	29.24	2.5	30	0	97.5	90	110	0	0		

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Work Order: 09-8527

Client Project ID: Dupper

## ANALYTICAL QC SUMMARY REPORT

TestCode: ALK\_WGRP

Sample ID	MBLK 10/27/09	SampType: MBLK	TestCode: ALK_WGRP	Run ID: ALK_091027A	Prep Date: 10/27/2009	Units: mg/L CaCO3					
		Batch ID: R50910	TestNo: SM2320B	FileID: 50	Analysis Date: 10/27/2009	SeqNo: 929303					
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Alkalinity	U	5.0
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Total Alkalinity											
Sample ID	LCS	SampType: LCS	TestCode: ALK_WGRP	Run ID: ALK_091027A	Prep Date: 10/27/2009				Units: mg/L CaCO3		
		Batch ID: R50910	TestNo: SM2320B	FileID: 51	Analysis Date: 10/27/2009				SeqNo: 929304		
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Alkalinity	101.5	5.0	100	0	102	90	110	0	0		

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Work Order: 09-8527

Client Project ID: Dupper

## ANALYTICAL QC SUMMARY REPORT

TestCode: COND\_W

Sample ID	LCS	SampType:	LCS	TestCode:	COND_W	Run ID:	COND_091027A	Prep Date:	10/27/2009	Units:	µmhos/cm		
		Batch ID:	R50915	TestNo:	SM2510 B	FileID:	73	Analysis Date:	10/27/2009	SeqNo:	929366		
Analyte		Result		LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance		95.7		1.00	101.2	0	94.6	90	110	0	0		

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X - See case narrative

Work Order: 09-8527

Client Project ID: Dupper

## ANALYTICAL QC SUMMARY REPORT

TestCode: F\_W

Sample ID	MBLK 11/4/09	SampType: MBLK	TestCode: F_W	Run ID: F_091104A	Prep Date: 11/4/2009	Units: mg/L
		Batch ID: R51070	TestNo: SM 4500-F C	FileID: 134	Analysis Date: 11/4/2009	SeqNo: 932081
Analyte		Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Fluoride U 0.20

Sample ID	LCS	SampType: LCS	TestCode: F_W	Run ID: F_091104A	Prep Date: 11/4/2009	Units: mg/L
		Batch ID: R51070	TestNo: SM 4500-F C	FileID: 135	Analysis Date: 11/4/2009	SeqNo: 932082
Analyte		Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Fluoride 9.827 0.20 10 0 98.3 95 105 0 0

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Work Order: 09-8527

Client Project ID: Dupper

## ANALYTICAL QC SUMMARY REPORT

TestCode: PH\_DW

Sample ID	LCS-R50895	SampType:	LCS	TestCode:	PH_DW	Run ID:	PH_091026C	Prep Date:	10/26/2009	Units:	pH Units	
		Batch ID:	R50895	TestNo:	E150.1	FileID:		Analysis Date:	10/26/2009	SeqNo:	929039	
Analyte		Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH		7.96	1.00	8	0	99.5	99.3	100.7	0	0		

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X - See case narrative

Work Order: 09-8527

Client Project ID: Dupper

## ANALYTICAL QC SUMMARY REPORT

TestCode: TDS\_W

Sample ID	MBLK 11/2/09	SampType: MBLK	TestCode: TDS_W	Run ID: ANALYTICAL BALANCE_091102A	Prep Date: 11/2/2009	Units: mg/L						
		Batch ID: R51051	TestNo: SM 2540C	FileID: 47	Analysis Date: 11/2/2009	SeqNo: 931855						
Analyte		Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids		U	10.0									

Sample ID	LCS	SampType:	LCS	TestCode:	TDS_W	Run ID:	ANALYTICAL BALANCE_091102A			Prep Date:	11/2/2009	Units:	mg/L
		Batch ID:	R51051	TestNo:	SM 2540C	FileID:	48			Analysis Date:	11/2/2009	SeqNo:	931856
Analyte		Result		LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids		419		10.0	400	0	105	90	110	0	0		

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Evergreen Analytical, Inc.

Date: 28-Oct-09

Work Order: 09-8527

Client Project ID: Dupper

## ANALYTICAL QC SUMMARY REPORT

TestCode: MEEP\_W

Sample ID: <b>GB102809</b>	SampType: <b>MBLK</b>	TestCode: <b>MEEP_W</b>	Run ID: <b>FID4_091028A</b>	Prep Date: <b>10/28/09</b>	Units: <b>mg/L</b>						
	Batch ID: <b>GAS102809</b>	TestNo: <b>RSKSOP175</b>	FileID: <b>FB866</b>	Analysis Date: <b>10/28/09</b>	SeqNo: <b>930117</b>						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane U 0.00080

Sample ID: <b>LCS102809</b>	SampType: <b>LCS</b>	TestCode: <b>MEEP_W</b>	Run ID: <b>FID4_091028A</b>	Prep Date: <b>10/28/09</b>	Units: <b>mg/L</b>						
	Batch ID: <b>GAS102809</b>	TestNo: <b>RSKSOP175</b>	FileID: <b>FB867</b>	Analysis Date: <b>10/28/09</b>	SeqNo: <b>930118</b>						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane 0.5744 0.0080 0.5094 0 113 70 130 0 0

Sample ID: <b>LCSD102809</b>	SampType: <b>LCSD</b>	TestCode: <b>MEEP_W</b>	Run ID: <b>FID4_091028A</b>	Prep Date: <b>10/28/09</b>	Units: <b>mg/L</b>						
	Batch ID: <b>GAS102809</b>	TestNo: <b>RSKSOP175</b>	FileID: <b>FB868</b>	Analysis Date: <b>10/28/09</b>	SeqNo: <b>930119</b>						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane 0.5969 0.0080 0.5094 0 117 70 130 0.5744 3.83 30

Sample ID: 09-8527-01FMS	SampType: MS	TestCode: MEEP_W	Run ID: FID4_091028A	Prep Date: 10/28/09	Units: mg/L						
Client ID: Dupper	Batch ID: GAS102809	TestNo: RSKSOP175	FileID: FB879	Analysis Date: 10/28/09	SeqNo: 930111						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane 0.5547 0.0080 0.5094 0.0008654 109 70 130 0 0

Sample ID: 09-8527-01FMSD	SampType: MSD	TestCode: MEEP_W	Run ID: FID4_091028A	Prep Date: 10/28/09	Units: mg/L						
Client ID: Dupper	Batch ID: GAS102809	TestNo: RSKSOP175	FileID: FB880	Analysis Date: 10/28/09	SeqNo: 930112						
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methane 0.557 0.0080 0.5094 0.0008654 109 70 130 0.5547 0.426 30

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November 06, 2009

John Axelson  
Colorado Oil & Gas Conservation Commission  
9203 E 155th Dr  
Brighton, CO 80602

Lab Work Order: 09-8527  
Client Project ID: Dupper

Dear John Axelson:

Enclosed are the analytical results for the samples shown in the Laboratory Work Order Summary.

THE INVOICE WILL BE MAILED FROM OUR NEW JERSEY OFFICE UNDER SEPARATE COVER.


The enclosed data for testing performed at Accutest Laboratory (formerly Evergreen Analytical) have been reviewed for quality assurance. A case narrative is included to describe any anomalies associated with the samples or data.

Accutest will dispose of all samples 44 days from the sample receipt date. If you want samples returned, please advise us by mail or fax as soon as possible.

A copy of this project report and supporting data will be retained for a period of five years unless we are otherwise advised by you. A document retrieval charge will apply.

Thank you for using the services of Accutest Laboratories. If you have any questions concerning the analytical data, please contact me. Please direct other questions to Client Services.

Sincerely,



Joseph J Egry IV/ Tiffany Pham  
Quality Assurance