001

WORK ORDER Summary — Evergreen Analytical, Inc. — 09-7862

Rpt To: John Axelson
Colorado Oil & Gas Conservation Commission
9203 E 155th Dr
Brighton, CO 80602
(303) 637-7178

10/1/2009 8:34:57 AM

Client Project ID:

QC Level: LEVEL I

Comments

Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Test Code	Test Name	Hold	MS	Date Due	Hold Time
09-7862-01A	Norm Anderson Irrigation	Water	9/30/09 1315	9/30/09	8021_W *	8021: BTEX, MtBE	☐	☐	10/14/09	10/14/09
09-7862-01B	Norm Anderson Irrigation	Water	9/30/09 1315	9/30/09	TOX_SUB	TOX (Outside Lab)	☐	☐	10/14/09	10/28/09
09-7862-01C	Norm Anderson Irrigation	Water	9/30/09 1315	9/30/09	ANIONS_NonDW *	300.0: Anions by IC	☐	☐	10/14/09	10/02/09
09-7862-01C	Norm Anderson Irrigation	Water	9/30/09 1315	9/30/09	C/A_BAL	Cation / Anion Balance calculation	☐	☐	10/14/09	
09-7862-01D	Norm Anderson Irrigation	Water	9/30/09 1315	9/30/09	200.7_T *	200.7: Total Metals	☐	☐	10/14/09	3/29/10
09-7862-01E	Norm Anderson Irrigation	Water	9/30/09 1315	9/30/09	200.7_D *	200.7: Dissolved Metals	☐	☐	10/14/09	3/29/10
09-7862-01F	Norm Anderson Irrigation	Water	9/30/09 1315	9/30/09	COND_W	Specific Conductance @ 25°C	☐	☐	10/14/09	10/28/09
09-7862-01G	Norm Anderson Irrigation	Water	9/30/09 1315	9/30/09	PH_DW	E150.1 pH	☐	☐	10/14/09	10/01/09
09-7862-01G	Norm Anderson Irrigation	Water	9/30/09 1315	9/30/09	TDS_W	Total Dissolved Solids (TDS)	☐	☐	10/14/09	10/07/09
09-7862-01H	Norm Anderson Irrigation	Water	9/30/09 1315	9/30/09	MEEP_W *	RSK175M: Methane	☐	☐	10/14/09	10/07/09
09-7862-01I	Norm Anderson Irrigation	Water	9/30/09 1315	9/30/09	ALK_WGRP *	Alkalinity	☐	☐	10/14/09	10/14/09
09-7862-01J	Norm Anderson Irrigation	Water	9/30/09 1315	9/30/09	F_W	Fluoride	☐	☐	10/14/09	10/28/09

Definitions: * - Test Code has a Select List

CHAIN OF CUSTODY RECORD / ANALYTICAL SERVICES AGREEMENT **

Evergreen Analytical Laboratory

Quality Data on Time®

Page 1 of 1

4036 Youngfield St.
Wheat Ridge, Colorado 80033
(303) 425-6021
FAX (303) 425-6854
(877) 737-4521
e-mail info@evergreenanalytical.com

CLIENT INFORMATION

Mail **Original** Report to: CoGCC
Attn John Axelson
Address 9203 East 155th Drive
City Brighton State Co Zip 80602
Tel # ______ Fax # ______ E-mail john.axelson@state.co.us

REPORT ALSO BY ❑ FAX ❑ PDF ❑ EDD FAXED CONFIRMATION OF SAMPLE RECEIPT REQUIRED? ❑ YES

REPORT CHROMATOGRAMS ❑ YES

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.

Mail Invoice to: CoGCC
Attn John Axelson
Address ______
City ______ State ______ Zip ______
Tel # ______ Fax # ______
Project ID# ______
P.O. ______ Quote ______
Sampler Chris Roy

NOTE: *Identify Known Hazards Below*

For Laboratory Use Only
W.O. # 09-7862
B.O.F. # 32360
C/S (O) 747 / P4
C/S (I) 747 / HD
Temp. °C 5.9 / Ice ✓
Seals Present Y / (N) / NA
Samples Pres (Y) / N / NA
Headspace Y / (N) / NA
By [initials]

SAMPLE IDENTIFICATION	DATE SAMPLED	TIME	No. of Containers	MATRIX: 1)Drinking Water or 2)Discharge Water or 3) Ground Water (circle one)	Soil / Solid / Air / Gas	Oil / Sludge / Wipe	8021 Aromatic Volatile Organics	TOX (Halides)	Anions 300.0	200.7 Total Metals	200.7 Dissolved Metals	SC @ 25°C	pH, TDS	dissolved methane	anion/cation balance rpt	carb/bicarb
Norm Anderson Irrigation	9-30-09	1:15p	13	NA			X	X	X	X	X	X	X	X	X	X

TOX / Total pH ...

Does this analysis involve property transfer? ❑ Yes or ☒ No

Sample Fraction: A B C D E F G H C I J - Fluoride

Instructions: anions = Cl, SO_4, CO_3, HCO_3, NO_3, NO_2 Halides = Br, F Metals = As, Ba, Cd, Cr, Pb, Se, Mn
Cations = Na, Ca, Mg, K, Fe reference bottle order 747

** **Important Note:** See reverse side hereof for terms and conditions.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	9-30-09 / 4:20 pm	[signature]	9/30/9 420p				

Evergreen Analytical, Inc. **Date:** *13-Oct-09*

Lab Order: 09-7862
Client Project ID

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 5.9°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. NJO

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 samples meet the requirements of NELAC and Utah Rule R444-14 unless otherwise explained. TP

CLIENT SERVICES

There are no anomalies to report. EH

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. JML/MM

METALS ANALYSIS

There are no anomalies to report. MB

GAS CHROMATOGRAPHY

Method RSK175: There are no anomalies to report. AS

004

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

CHAIN-OF-CUSTODY RECORD

PO Number: 27791

WorkOrder: 09-7862

Outside Laboratory:

Huffman Laboratories, Inc.
4630 Indiana Street
Golden, CO 80403

TEL: (303) 278-4455
FAX: (303) 278-7012

Acct #:

30-Sep-09

Sample ID	Matrix	Collection Date	Bottle Type	Requested Tests: TOX / SW 9020B						
09-7862-01B	Water	9/30/2009 1:15:00 PM	1LAH2SO4	1						

Comments:

Relinquished by:		**Date/Time** 10-1-09 1:15	**Received by:** J. Huffman
Relinquished by:			**Received by:**

OCT 07 2009

CUSTOMER #:
02602

HUFFMAN
LABORATORIES, INC.
Quality Analytical Services Since 1936
4630 Indiana Street • Golden, CO 80403
Phone: (303) 278-4455 • FAX: (303) 278-7012

DATE 10/6/09
LAB# 187309
P.O. 27791
RECD 10/01/09

005

ANALYSIS REPORT

CARL SMITS
EVERGREEN ANALYTICAL
4036 YOUNGFIELD
WHEAT RIDGE CO 80033

PROJ # 09-7862

SEQUENCE/ SAMPLE ID	01 09-7862-01B1
TOX--------µg/L -	15.
	14.
***AVG	15.

TOX:
Method #: US EPA SW846 9020B
Method Detection Limit: 10 µg/l
Date of Analysis: 10/05/09

Evergreen Analytical, Inc.

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

Client Sample ID: Norm Anderson Irrigation
Client Project ID:
Date Collected: 9/30/2009
Date Received: 9/30/2009

Lab Work Order: 09-7862
Lab Sample ID: 09-7862-01A
Sample Matrix: Water

AROMATIC VOLATILE ORGANICS

Method: SW8021B **Prep Method: SW5030B**

Date Prepared: 10/3/2009 **Lab File ID:** 100309\TB2384.D\FID1A. **Dilution Factor:** 1
Date Analyzed: 10/4/2009 **Method Blank:** MB4100309-2

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	84	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
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Definitions: LQL - Lower Quantitation Limit
Surr - Surrogate

Print Date: 10/7/2009

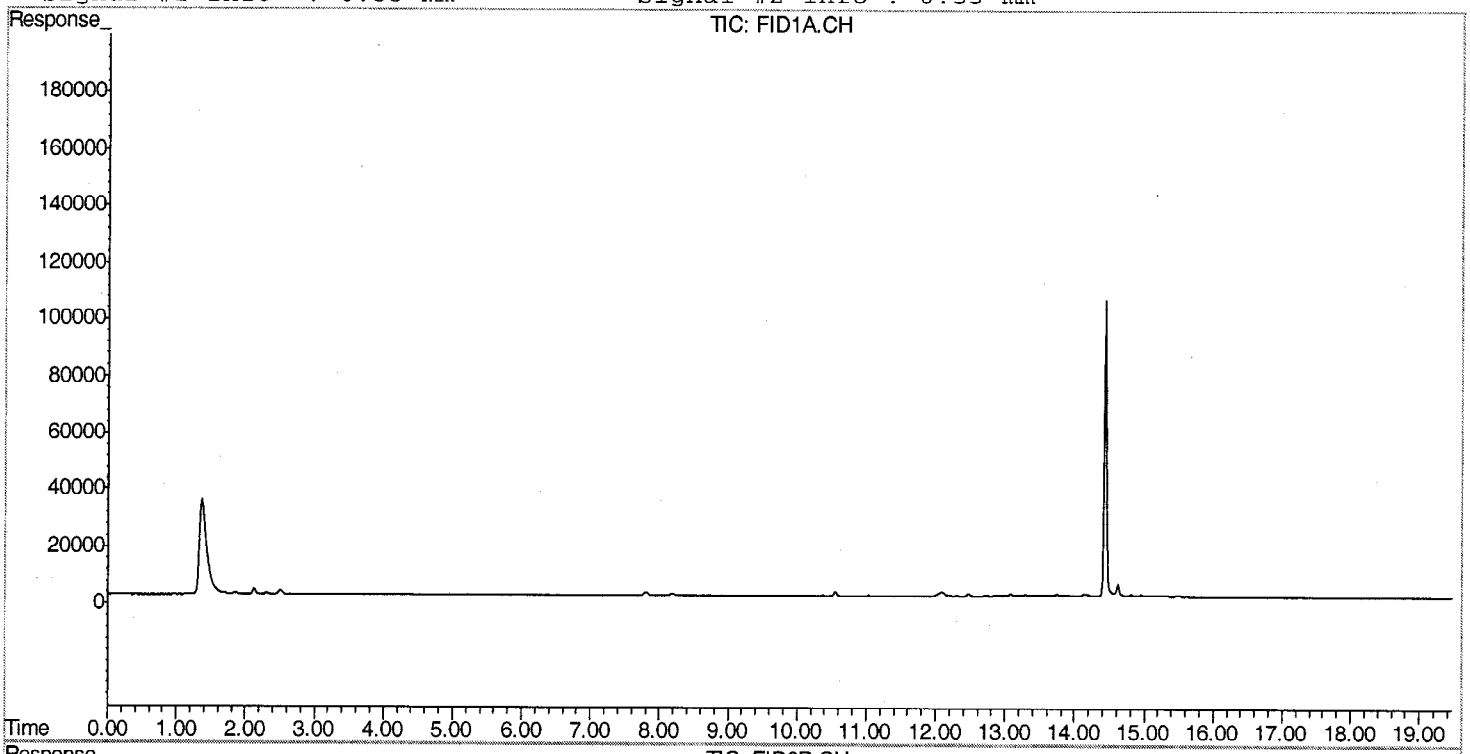
Quantitation Report (QT Reviewed)

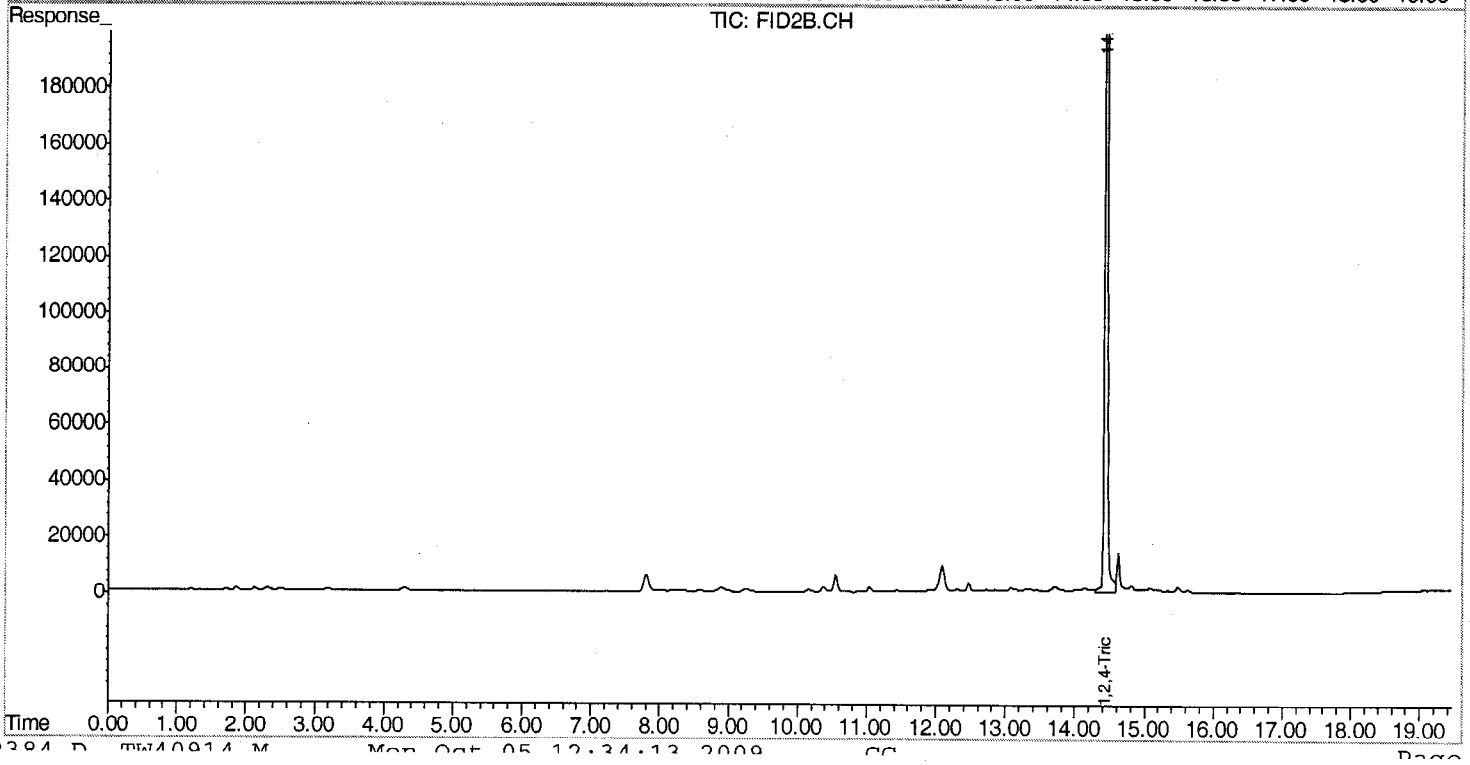
007

Signal #1 : Y:\1\DATA\100309\TB2384.D\FID1A.CH Vial: 28
Signal #2 : Y:\1\DATA\100309\TB2384.D\FID2B.CH
Acq On : 4 Oct 2009 8:29 am Operator: laurac
Sample : 09-7862-01A Inst : GC/MS Ins
Misc : ,SAMP,8021_W,TVH_W,1,|GC287,GTB115,,,,,1 Multiplr: 1.00
IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
Quant Time: Oct 5 10:31 2009 Quant Results File: TW40914.RES

Quant Method : C:\MSDCHEM\1\METHODS\TW40914.M (Chemstation Integrator)
Title : 8015B/8021B TVH/BTEX
Last Update : Thu Oct 01 09:06:41 2009
Response via : Multiple Level Calibration
DataAcq Meth : TVB4.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





Evergreen Analytical, Inc.

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

Client Sample ID: Norm Anderson Irrigation
Client Project ID:
Date Collected: 9/30/09 1315
Date Received: 9/30/09

Lab Work Order 09-7862
Lab Sample ID: 09-7862-01
Sample Matrix: Water

ANIONS BY IC

Method: E300.0 **Prep Method:**

Date Prepared: 10/1/09
Date Analyzed: 10/1/09 1150
Method Blank: MB 10/01/09
Dilution Factor: 2
Lab Fraction ID: 09-7862-01C

Analytes	CAS Number	Result	LQL	Units
Bromide	7647-15-6	0.44	0.40	mg/L

Date Prepared: 10/1/09
Date Analyzed: 10/1/09 1241
Method Blank: MB 10/01/09
Dilution Factor: 5
Lab Fraction ID: 09-7862-01C

Analytes	CAS Number	Result	LQL	Units
Chloride	7647-14-5	123	2.5	mg/L
Nitrite-N		U	0.31	mg/L
Nitrate-N		5.58	0.23	mg/L
Nitrite+Nitrate-N		5.58	0.31	mg/L

Date Prepared: 10/1/09
Date Analyzed: 10/1/09 1253
Method Blank: MB 10/01/09
Dilution Factor: 10
Lab Fraction ID: 09-7862-01C

Analytes	CAS Number	Result	LQL	Units
Sulfate	7778-80-2	279	5.0	mg/L

J. Lange
Analyst

Approved

Qualifiers: B - Analyte detected in the associated Method Blank, value not subtracted from result
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LQL - Lower Quantitation Limit
Surr - Surrogate

Print Date: 10/5/09

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	09-7862-01		09-		09-		09-		09-	
Client Sample ID	orm Anderson Irrigatio									
Sample Result	mg/L	Meq/L	mg/L	Meq/L	mg/L	Meq/L	mg/L	Meq/L	mg/L	Meq/L
Anions										
Cl	123	3.469		0.000		0.000		0.000		0.000
SO_4	279	5.809		0.000		0.000		0.000		0.000
HCO_3 as $CaCO_3$	329	6.574		0.000		0.000		0.000		0.000
CO_3 as $CaCO_3$		0.000		0.000		0.000		0.000		0.000
NO_3		0.000		0.000		0.000		0.000		0.000
NO_3 as N	5.58	0.398		0.000		0.000		0.000		0.000
Other		0.000		0.000		0.000		0.000		0.000
Anions Total		16.251		0.000		0.000		0.000		0.000
Cations										
Ca	115.0	5.739		0.000		0.000		0.000		0.000
Mg	49.50	4.073		0.000		0.000		0.000		0.000
K	4.78	0.122		0.000		0.000		0.000		0.000
Na	142	6.177		0.000		0.000		0.000		0.000
Other		0.000		0.000		0.000		0.000		0.000
Cations Total		16.111		0.000		0.000		0.000		0.000
Ion Balance % Difference		**0.43**								

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

RAK
Approved

Date Printed: 10/13/2009; 09-7862.xls; Page 1

Evergreen Analytical, Inc.

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

Client Sample ID: Norm Anderson Irrigation
Client Project ID:
Date Collected: 9/30/09
Date Received: 9/30/09

Lab Work Order: 09-7862
Lab Sample ID: 09-7862-01
Sample Matrix: Water

DISSOLVED METALS

Method: E200.7, Rev. 4.4 **Prep Method: E200.7/SW3010A**

Date Prepared: 10/6/09
Date Analyzed: 10/6/09
Lab File ID: 100609AM
Method Blank: MB-21052
Dilution Factor: 1
Lab Fraction ID: 09-7862-01E

Analytes	CAS Number	Result	LQL	Units
Calcium	7440-70-2	115	0.387	mg/L
Iron	7439-89-6	U	0.0700	mg/L
Magnesium	7439-95-4	49.5	0.150	mg/L
Potassium	7440-09-7	4.78	0.340	mg/L
Sodium	7440-23-5	142	0.400	mg/L

TOTAL METALS

Method: E200.7, Rev. 4.4 **Prep Method: E200.7, Rev. 4.4**

Date Prepared: 10/8/09
Date Analyzed: 10/9/09
Lab File ID: 100909AM
Method Blank: MB-21108
Dilution Factor: 1
Lab Fraction ID: 09-7862-01D

Analytes	CAS Number	Result	LQL	Units
Arsenic	7440-38-2	U	0.0500	mg/L
Barium	7440-39-3	0.0459	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

NMB
Analyst

RAK
Approved

Qualifiers: B - Analyte detected in the associated Method Blank, value not subtracted from result
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* -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: 10/13/2009

Evergreen Analytical, Inc.

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

Client Sample ID: Norm Anderson Irrigation
Client Project ID:
Date Collected: 9/30/09 1315
Date Received: 9/30/09

Lab Work Order 09-7862
Lab Sample ID: 09-7862-01
Sample Matrix: Water

ALKALINITY

Method: SM2320B **Prep Method:**

Date Prepared: 10/6/09
Date Analyzed: 10/6/09
Lab File ID: 55
Method Blank: MBLK 10/6/09
Dilution Factor: 1
Lab Fraction ID: 09-7862-01I

Analytes	CAS Number	Result	LQL	Units
Total Alkalinity		329	5.0	mg/L CaCO3
Bicarbonate		329	5.0	mg/L CaCO3
Carbonate		U	5.0	mg/L CaCO3

SPECIFIC CONDUCTANCE @ 25°C

Method: SM2510 B **Prep Method:**

Date Prepared: 10/5/09
Date Analyzed: 10/5/09
Lab File ID: 61
Dilution Factor: 1
Lab Fraction ID: 09-7862-01F

Analytes	CAS Number	Result	LQL	Units
Specific Conductance		1360	1.00	µmhos/cm

FLUORIDE

Method: SM 4500-F C **Prep Method:**

Date Prepared: 10/1/09
Date Analyzed: 10/1/09
Lab File ID: 64
Method Blank: MBLK 10-01-09
Dilution Factor: 1
Lab Fraction ID: 09-7862-01J

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: 10/1/09
Date Analyzed: 10/1/09 0820
Dilution Factor: 1
Lab Fraction ID: 09-7862-01G

Analytes	CAS Number	Result	LQL	Units
pH		7.27	1.00	pH Units

Analyst

Approved

Qualifiers:
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U - Compound analyzed for but not detected
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* -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: 10/6/2009

Evergreen Analytical, Inc.

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

Client Sample ID: Norm Anderson Irrigation
Client Project ID:
Date Collected: 9/30/09 1315
Date Received: 9/30/09

Lab Work Order 09-7862
Lab Sample ID: 09-7862-01
Sample Matrix: Water

TOTAL DISSOLVED SOLIDS (TDS)

Method: SM 2540C **Prep Method:**

Date Prepared: 10/1/09
Date Analyzed: 10/1/09
Lab File ID: 61
Method Blank: MBLK 10/1/09
Dilution Factor: 1
Lab Fraction ID: 09-7862-01G

Analytes	CAS Number	Result	LQL	Units
Total Dissolved Solids		980	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
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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: 10/6/2009

Evergreen Analytical, Inc.

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

Client Project ID

Lab Order: 09-7862
Units: mg/L

RSKSOP-175M Headspace
Methane

Method: RSKSOP175M

Prep Method: RSKSOP175M

Lab ID	Client ID	Matrix	Date Received	Collection Date	Date Prepared	Date Analyzed	Results	LQL	DF
09-7862-01H	Norm Anderson Irrigation	Water	9/30/09	9/30/09	10/1/09	10/1/09	U	0.00080	1

Comments:

Analyst

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: 10/01/09

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: *07-Oct-09*

Work Order: 09-7862
Client Project ID:

ANALYTICAL QC SUMMARY REPORT

TestCode: 8021_W

Sample ID: **MB4100309-2**	SampType: **MBLK**	TestCode: **8021_W**	Run ID: **TVHBTEX4_091003A**	Prep Date: **10/3/2009**	Units: **µg/L**
	Batch ID: **R50412**	TestNo: **SW8021B**	FileID: **100309\TB2382.D\FID1A.**	Analysis Date: **10/4/2009**	SeqNo: **919947**

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)	85.28	0	100	0	85.3	60	140	0	0		

Sample ID: **LCS4100309-2**	SampType: **LCS**	TestCode: **8021_W**	Run ID: **TVHBTEX4_091003A**	Prep Date: **10/3/2009**	Units: **µg/L**
	Batch ID: **R50412**	TestNo: **SW8021B**	FileID: **100309\TB2383.D\FID1A.**	Analysis Date: **10/4/2009**	SeqNo: **919948**

Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	24.37	1.0	27.2	0	89.6	70	130	0	0		
Toluene	185.4	2.0	211.6	0	87.6	70	130	0	0		
Ethylbenzene	39.56	2.0	45.6	0	86.8	70	130	0	0		
m,p-Xylene	130.8	2.0	150	0	87.2	70	130	0	0		
o-Xylene	59.1	2.0	65.9	0	89.7	70	130	0	0		
Surr: 1,2,4-Trichlorobenzene (S)	96.72	0	100	0	96.7	60	140	0	0		

Sample ID: **09-7862-01AMS**	SampType: **MS**	TestCode: **8021_W**	Run ID: **TVHBTEX4_091003A**	Prep Date: **10/3/2009**	Units: **µg/L**
Client ID: **Norm Anderson Irrig**	Batch ID: **R50412**	TestNo: **SW8021B**	FileID: **100309\TB2385.D\FID1A.**	Analysis Date: **10/4/2009**	SeqNo: **921452**

Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	23.09	1.0	27.2	0	84.9	70	130	0	0		
Toluene	176.7	2.0	211.6	0	83.5	70	130	0	0		
Ethylbenzene	37.22	2.0	45.6	0	81.6	62	130	0	0		
m,p-Xylene	123.5	2.0	150	0	82.3	70	134	0	0		
o-Xylene	55.64	2.0	65.9	0	84.4	63	130	0	0		
Surr: 1,2,4-Trichlorobenzene (S)	93.12	0	100	0	93.1	60	140	0	0		

Qualifiers:

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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: 09-7862
Client Project ID:

ANALYTICAL QC SUMMARY REPORT

TestCode: 8021_W

Sample ID: **09-7862-01AMSD** SampType: **MSD** TestCode: **8021_W** Run ID: **TVHBTEX4_091003A** Prep Date: **10/3/2009** Units: **µg/L**
Client ID: **Norm Anderson Irrig** Batch ID: **R50412** TestNo: **SW8021B** FileID: **100309\TB2386.D\FID1A.** Analysis Date: **10/4/2009** SeqNo: **921453**

Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	23.85	1.0	27.2	0	87.7	70	130	23.09	3.23	30	
Toluene	182.6	2.0	211.6	0	86.3	70	130	176.7	3.28	30	
Ethylbenzene	37.31	2.0	45.6	0	81.8	62	130	37.22	0.233	30	
m,p-Xylene	126.3	2.0	150	0	84.2	70	134	123.5	2.27	30	
o-Xylene	56.39	2.0	65.9	0	85.6	63	130	55.64	1.34	30	
Surr: 1,2,4-Trichlorobenzene (S)	94.08	0	100	0	94.1	60	140	0	0	0	

Qualifiers:

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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

Evergreen Analytical, Inc.

Date: *05-Oct-09*

Work Order: 09-7862
Client Project ID:

ANALYTICAL QC SUMMARY REPORT

TestNo: E300.0

Sample ID: **MB 10/01/09**	SampType: **MBLK**	TestCode: **ANIONS_NON**	Run ID: **IC-DX120_091001A**	Prep Date: **10/1/09**	Units: **mg/L**
	Batch ID: **R50435**	TestNo: **E300.0**	FileID:	Analysis Date: **10/1/09**	SeqNo: **919963**

Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	U	0.50									
Nitrite-N	U	0.061									
Bromide	U	0.20									
Nitrate-N	U	0.045									
Nitrite+Nitrate-N	U	0.061									
Sulfate	U	0.50									

Sample ID: **LCS ALLT218099**	SampType: **LCS**	TestCode: **ANIONS_NON**	Run ID: **IC-DX120_091001A**	Prep Date: **10/1/09**	Units: **mg/L**
	Batch ID: **R50435**	TestNo: **E300.0**	FileID:	Analysis Date: **10/1/09**	SeqNo: **919962**

Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	19.07	2.5	20	0	95.4	90	110	0	0		
Nitrite-N	5.926	0.31	6.09	0	97.3	90	110	0	0		
Bromide	19.69	1.0	20	0	98.5	90	110	0	0		
Nitrate-N	4.38	0.23	4.518	0	96.9	90	110	0	0		
Nitrite+Nitrate-N	10.31	0.31	10.61	0	97.1	90	110	0	0		
Sulfate	28.75	2.5	30	0	95.8	90	110	0	0		

Qualifiers:

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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

Evergreen Analytical, Inc.

Date: *13-Oct-09*

Work Order: 09-7862
Client Project ID:

ANALYTICAL QC SUMMARY REPORT

BatchID: 21052

Sample ID: **MB-21052**	SampType: **MBLK**	TestCode: **200.7_D**	Run ID: **ICP-OPTIMA 5300 DV_091006A**	Prep Date: **10/6/2009**	Units: **mg/L**
	Batch ID: **21052**	TestNo: **E200.7, Rev.**	FileID: **100609AM**	Analysis Date: **10/6/2009**	SeqNo: **920302**

Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	U	0.387									
Iron	U	0.0700									
Magnesium	U	0.150									
Potassium	U	0.340									
Sodium	U	0.400									

Sample ID: **LCS-21052**	SampType: **LCS**	TestCode: **200.7_D**	Run ID: **ICP-OPTIMA 5300 DV_091006A**	Prep Date: **10/6/2009**	Units: **mg/L**
	Batch ID: **21052**	TestNo: **E200.7, Rev.**	FileID: **100609AM**	Analysis Date: **10/6/2009**	SeqNo: **920303**

Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	9.945	0.387	10	0	99.5	85	115	0	0		
Iron	4.954	0.0700	5	0	99.1	85	115	0	0		
Magnesium	9.791	0.150	10	0	97.9	85	115	0	0		
Potassium	9.781	0.340	10	0	97.8	85	115	0	0		
Sodium	9.863	0.400	10	0	98.6	85	115	0	0		

Sample ID: **09-7815-01AMS**	SampType: **MS**	TestCode: **6010_D**	Run ID: **ICP-OPTIMA 5300 DV_091006A**	Prep Date: **10/6/2009**	Units: **mg/L**
	Batch ID: **21052**	TestNo: **SW6010B**	FileID: **100609AM**	Analysis Date: **10/6/2009**	SeqNo: **920305**

Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	81.65	0.48	12.5	69.62	96.2	75	125	0	0		
Iron	6.215	0.088	6.25	0	99.4	75	125	0	0		
Magnesium	17.43	0.19	12.5	5.137	98.4	75	125	0	0		
Potassium	14.36	0.43	12.5	1.774	101	75	125	0	0		
Sodium	16.76	0.50	12.5	4.081	101	75	125	0	0		

Qualifiers:

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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: 09-7862
Client Project ID:

ANALYTICAL QC SUMMARY REPORT

BatchID: 21052

Sample ID: **09-7815-01AMSD**	SampType: **MSD**	TestCode: **6010_D**	Run ID: **ICP-OPTIMA 5300 DV_091006A**	Prep Date: **10/6/2009**	Units: **mg/L**
	Batch ID: **21052**	TestNo: **SW6010B**	FileID: **100609AM**	Analysis Date: **10/6/2009**	SeqNo: **920306**

Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	81.16	0.48	12.5	69.62	92.3	75	125	81.65	0.606	20	
Iron	6.208	0.088	6.25	0	99.3	75	125	6.215	0.115	20	
Magnesium	17.44	0.19	12.5	5.137	98.4	75	125	17.43	0.0205	20	
Potassium	14.33	0.43	12.5	1.774	100	75	125	14.36	0.171	20	
Sodium	16.65	0.50	12.5	4.081	101	75	125	16.76	0.650	20	

Qualifiers:

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X - See case narrative

020

Work Order: 09-7862
Client Project ID:

ANALYTICAL QC SUMMARY REPORT

BatchID: 21108

Sample ID: MB-21108	SampType: MBLK	TestCode: 200.7_T	Run ID: ICP-OPTIMA 5300 DV_091009A	Prep Date: 10/8/2009	Units: mg/L
	Batch ID: 21108	TestNo: E200.7, Rev.	FileID: 100909AM	Analysis Date: 10/9/2009	SeqNo: 922565

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-21108	SampType: LCS	TestCode: 200.7_T	Run ID: ICP-OPTIMA 5300 DV_091009A	Prep Date: 10/8/2009	Units: mg/L
	Batch ID: 21108	TestNo: E200.7, Rev.	FileID: 100909AM	Analysis Date: 10/9/2009	SeqNo: 922566

Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	2.04	0.0500	2	0	102	85	115	0	0		
Barium	5.103	0.00200	5	0	102	85	115	0	0		
Cadmium	0.1978	0.0100	0.2	0	98.9	85	115	0	0		
Chromium	1.994	0.0100	2	0	99.7	85	115	0	0		
Lead	2.034	0.0730	2	0	102	85	115	0	0		
Manganese	1.941	0.00500	2	0	97.1	85	115	0	0		
Selenium	2.221	0.100	2	0	111	85	115	0	0		

Sample ID: 09-7862-01DMS	SampType: MS	TestCode: 200.7_T	Run ID: ICP-OPTIMA 5300 DV_091009A	Prep Date: 10/8/2009	Units: mg/L
Client ID: Norm Anderson Irri	Batch ID: 21108	TestNo: E200.7, Rev.	FileID: 100909AM	Analysis Date: 10/9/2009	SeqNo: 922570

Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	2.315	0.0556	2.222	0	104	75	125	0	0		
Barium	5.826	0.00222	5.556	0.04587	104	75	125	0	0		
Cadmium	0.2231	0.0111	0.2222	0	100	75	125	0	0		
Chromium	2.145	0.0111	2.222	0	96.5	75	125	0	0		
Lead	2.257	0.0811	2.222	0	102	75	125	0	0		
Manganese	2.04	0.00556	2.222	0	91.8	75	125	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: 09-7862
Client Project ID:

ANALYTICAL QC SUMMARY REPORT

BatchID: 21108

Sample ID: 09-7862-01DMS	SampType: MS	TestCode: 200.7_T	Run ID: ICP-OPTIMA 5300 DV_091009A	Prep Date: 10/8/2009	Units: mg/L
Client ID: Norm Anderson Irri	Batch ID: 21108	TestNo: E200.7, Rev.	FileID: 100909AM	Analysis Date: 10/9/2009	SeqNo: 922570

Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	2.381	0.111	2.222	0	107	75	125	0	0		

Sample ID: 09-7862-01DMSD	SampType: MSD	TestCode: 200.7_T	Run ID: ICP-OPTIMA 5300 DV_091009A	Prep Date: 10/8/2009	Units: mg/L
Client ID: Norm Anderson Irri	Batch ID: 21108	TestNo: E200.7, Rev.	FileID: 100909AM	Analysis Date: 10/9/2009	SeqNo: 922571

Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	2.292	0.0556	2.222	0	103	75	125	2.315	0.987	20	
Barium	5.825	0.00222	5.556	0.04587	104	75	125	5.826	0.0126	20	
Cadmium	0.2223	0.0111	0.2222	0	100	75	125	0.2231	0.354	20	
Chromium	2.137	0.0111	2.222	0	96.2	75	125	2.145	0.381	20	
Lead	2.246	0.0811	2.222	0	101	75	125	2.257	0.509	20	
Manganese	2.029	0.00556	2.222	0	91.3	75	125	2.04	0.516	20	
Selenium	2.372	0.111	2.222	0	107	75	125	2.381	0.397	20	

Qualifiers:

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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

Evergreen Analytical, Inc.

Date: *06-Oct-09*

Work Order: 09-7862
Client Project ID:

ANALYTICAL QC SUMMARY REPORT

TestCode: ALK_WGRP

Sample ID **MBLK 10/6/09**	SampType: **MBLK**	TestCode: **ALK_WGRP**	Run ID: **ALK_091006A**	Prep Date: **10/6/2009**	Units: **mg/L CaCO3**
	Batch ID: **R50462**	TestNo: **SM2320B**	FileID: **47**	Analysis Date: **10/6/2009**	SeqNo: **920604**

Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Alkalinity	U	5.0									

Sample ID **LCS**	SampType: **LCS**	TestCode: **ALK_WGRP**	Run ID: **ALK_091006A**	Prep Date: **10/6/2009**	Units: **mg/L CaCO3**
	Batch ID: **R50462**	TestNo: **SM2320B**	FileID: **48**	Analysis Date: **10/6/2009**	SeqNo: **920605**

Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Alkalinity	101.9	5.0	100	0	102	90	110	0	0		

Qualifiers:

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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: 09-7862
Client Project ID:

ANALYTICAL QC SUMMARY REPORT

TestCode: COND_W

Sample ID **LCS**	SampType: **LCS**	TestCode: **COND_W**	Run ID: **COND_091005A**	Prep Date: **10/5/2009**	Units: **µmhos/cm**
	Batch ID: **R50428**	TestNo: **SM2510 B**	FileID: **60**	Analysis Date: **10/5/2009**	SeqNo: **919874**

Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	91.6	1.00	99.7	0	91.9	90	110	0	0		

Qualifiers:

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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: 09-7862
Client Project ID:

ANALYTICAL QC SUMMARY REPORT

TestCode: F_W

Sample ID	SampType	TestCode	Run ID	Prep Date	Units
MBLK 10-01-09	**MBLK**	**F_W**	**F_091001A**	**10/1/2009**	**mg/L**
	Batch ID: **R50357**	TestNo: **SM 4500-F C**	FileID: **47**	Analysis Date: **10/1/2009**	SeqNo: **918427**

Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	U	0.20									

Sample ID	SampType	TestCode	Run ID	Prep Date	Units
LCS	**LCS**	**F_W**	**F_091001A**	**10/1/2009**	**mg/L**
	Batch ID: **R50357**	TestNo: **SM 4500-F C**	FileID: **48**	Analysis Date: **10/1/2009**	SeqNo: **918428**

Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	9.753	0.20	10	0	97.5	95	105	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: 09-7862
Client Project ID:

ANALYTICAL QC SUMMARY REPORT

TestCode: PH_DW

Sample ID	LCS-R50347	SampType:	LCS	TestCode:	PH_DW	Run ID:	PH_091001A	Prep Date:	10/1/2009	Units:	pH Units
		Batch ID:	R50347	TestNo:	E150.1	FileID:		Analysis Date:	10/1/2009	SeqNo:	918288

Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	8	1.00	8	0	100	99.3	100.7	0	0		

Qualifiers:

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J - Analyte detected below quantitation limits
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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: 09-7862
Client Project ID:

ANALYTICAL QC SUMMARY REPORT

TestCode: TDS_W

Sample ID **MBLK 10/1/09**	SampType: **MBLK**	TestCode: **TDS_W**	Run ID: **ANALYTICAL BALANCE_091001A**	Prep Date: **10/1/2009**	Units: **mg/L**
	Batch ID: **R50398**	TestNo: **SM 2540C**	FileID: **47**	Analysis Date: **10/1/2009**	SeqNo: **919176**

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_091001A**	Prep Date: **10/1/2009**	Units: **mg/L**
	Batch ID: **R50398**	TestNo: **SM 2540C**	FileID: **48**	Analysis Date: **10/1/2009**	SeqNo: **919177**

Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	399	10.0	400	0	99.8	90	110	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

Evergreen Analytical, Inc.

Date: *01-Oct-09*

Work Order: 09-7862
Client Project ID:

ANALYTICAL QC SUMMARY REPORT

TestCode: MEEP_W

Sample ID: **GB100109**	SampType: **MBLK**	TestCode: **MEEP_W**	Run ID: **FID4_091001A**	Prep Date: **10/01/09**	Units: **mg/L**
	Batch ID: **GAS100109**	TestNo: **RSKSOP175**	FileID: **FB717**	Analysis Date: **10/01/09**	SeqNo: **918523**

Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	U	0.00080									

Sample ID: **LCS100109**	SampType: **LCS**	TestCode: **MEEP_W**	Run ID: **FID4_091001A**	Prep Date: **10/01/09**	Units: **mg/L**
	Batch ID: **GAS100109**	TestNo: **RSKSOP175**	FileID: **FB718**	Analysis Date: **10/01/09**	SeqNo: **918524**

Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	0.5688	0.0080	0.5094	0	112	70	130	0	0		

Sample ID: **LCSD100109**	SampType: **LCSD**	TestCode: **MEEP_W**	Run ID: **FID4_091001A**	Prep Date: **10/01/09**	Units: **mg/L**
	Batch ID: **GAS100109**	TestNo: **RSKSOP175**	FileID: **FB719**	Analysis Date: **10/01/09**	SeqNo: **918525**

Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	0.5733	0.0080	0.5094	0	113	70	130	0.5688	0.779	30	

Sample ID: **09-7818-01BMS**	SampType: **MS**	TestCode: **MEEP_W**	Run ID: **FID4_091001A**	Prep Date: **10/01/09**	Units: **mg/L**
	Batch ID: **GAS100109**	TestNo: **RSKSOP175**	FileID: **FB738**	Analysis Date: **10/01/09**	SeqNo: **918520**

Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	0.505	0.0080	0.5094	0.009688	97.2	70	130	0	0		

Sample ID: **09-7818-01BMSD**	SampType: **MSD**	TestCode: **MEEP_W**	Run ID: **FID4_091001A**	Prep Date: **10/01/09**	Units: **mg/L**
	Batch ID: **GAS100109**	TestNo: **RSKSOP175**	FileID: **FB739**	Analysis Date: **10/01/09**	SeqNo: **918521**

Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	0.523	0.0080	0.5094	0.009688	101	70	130	0.505	3.50	30	

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Laboratories

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October 13, 2009

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

Lab Work Order: 09-7862
Client Project ID:

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 Egan IV/ Tiffany Pham
Quality Assurance