Spill #200215571
05-083-06660

ECOS ENVIRONMENTAL & DISASTER RESTORATION, Inc.
P.O. Box 11936 Aspen CO, 81612 - Phone 970-704-9128 Fax 970-704-9129

August 31, 2009

Ms. Donna Stoner
Colorado Department of Public Health and Environment
222 South 6th Street Room 232
Grand Junction, Colorado 81501

Re: **Request for No Further Action**
CDPHE Report #: 2009-0344
ECOS Project#: Barrett072609
Spill Location: Bill Barrett Well Pad: Oliver #15H-21
PLSS: SW¼, SE¼, Sec. 21, T38N, R16W
Approximately 20 miles north of Cortez Colorado, 0.5 miles east of County Rd. 23 in Montezuma County.

Dear Ms. Stoner,

On July 25, 2009 an acid storage tank containing 7,787 gallons (185 barrels) of 35% hydrochloric acid leaked its contents into a lined, secondary containment. It is estimated that 647 gallons (15.4 barrels) of hydrochloric acid was released onto the well pad and out into a farm field. This information was obtained from Bill Kelly of Wickersham Consulting, LLC. Waterways or locations that concern public impact were not affected. As of the time of this report the cause of the leak and location of the breach in the tank had not been determined. The spill was excavated, neutralized and backfilled by July 29, 2009.

The well pad was approximately 320 feet long on a north by northeast axis and approximately 190 feet wide on a west by northwest axis. The leaking tank and containment liner were located in the southeast corner of the well pad.

The spill area on the well pad covered an area approximately 125 feet long on a northwest axis flowing away from the containment liner, and the width ranged from 40 feet at the southeast side to 10 feet at the northwest side. The spill area in the farm field was approximately 125 feet long on southeast axis flowing away from the containment liner. The width ranged from 2 feet at northwest end, where the spill flowed over the well pad, to 30 feet wide at the toe of the slope of the well pad, and was 25 feet wide at the lowest point in the farm field at the southeast terminus of the spill.

A map of the area, which includes sample locations, is included as Attachment 1.

Parties involved in the spill, and the subsequent remediation are listed below.

Name	Telephone Number	Company Name	Association with the Spill
Scott Donato	303-312-8191	Bill Barrett Corporation	Drill Pad Operator
Lon Kelly	307-922-1001	Wickersham Consulting, LLC	Oil and Gas Operations Consulting
Tony George	435-789-0743	Dalbo Tank Services	Acid Tank Owner
Nick Prevosti	970-704-9128	ECOS Environmental & Disaster Restoration, Inc.	Environmental Clean Up Contractor
		Halliburton	Hydrochloric Acid Supplier
Donna Stoner	970-248-7168	CDPHE Hazardous Materials Division	Cleanup Clearance
Robert Beierlee	303-692-3368	CDPHE Hazardous Materials Division	Cleanup Clearance
Charles Johnson	303-692-3348	CDPHE Hazardous Materials Division	Cleanup Clearance

The CDPHE *Proposed Soil Remediation Objectives Policy Document*, found at http://www.cdphe.state.co.us/hm/soilplcydraft.pdf, and Table 1 in that document, which has been replaced with the Colorado Soil Evaluation Values Table found at http://www.cdphe.state.co.us/hm/csev.pdf, do not define clean up levels for pH in the case of an acid spill.

Based on the conversation Nick Prevosti of ECOS had on July 29, 2009 with Donna Stoner of the CDPHE and on July 30, 2009 with Charles Johnson of the CDPHE; soil cleanup pH levels between 6 and 9 would be within tolerance levels. Donna Stoner conferred with Robert Beierlee of the CDPHE Hazardous Materials Unit to confirm the pH range for clean up clearance.

Nick Prevosti had further discussions with Donna Stoner and Robert Beierlee, regarding four, out of fourteen, post excavation test results that were above pH 9 and below pH 10. The samples above pH 9 and below pH 10 were in the well pad area. Sodium bicarbonate and sodium carbonate, which were used to neutralize the acid, can range from pH 8.3 to pH 11.4. Attempts to bring the pH below 9 in these locations would involve treatment with some form of acid and would be counter productive. Also, the soil background pH on the drill pad was 9.02.

Considering the nontoxic nature of sodium bicarbonate and sodium carbonate, and the background pH being above 9, Robert Beierlee considered the four locations which were above pH 9 to be within tolerance levels. Donna Stoner requested the information and test results, which are attached, for review.

The breached tank was decontaminated with sodium bicarbonate solution and returned to the Dalbo storage yard.

Contaminated soil was excavated, stockpiled and neutralized with sodium bicarbonate and sodium carbonate. Three stockpile areas were created during the neutralization process and are shown on that attached map. The stockpiles and excavation cavities were field tested for pH with *EMD colorpHast* pH indicator strips and samples were taken for laboratory analysis. Excavation was performed to the extent that field pH soil samples were between 7 and 9. Sodium bicarbonate was mixed with the stockpiles until the pH was between 7 and 9.

Samples were taken from 8 random locations in each stockpile to create a single composite sample for each stockpile. The laboratory test results for the pH of the neutralized waste piles was between 7.15 and 8.22. The neutralized soil was placed back into the areas from where it had been excavated.

Post excavation samples were taken at locations that would define the excavation perimeter and base. Laboratory test results for post excavation samples taken in the drill pad area ranged from 7.55 to 9.59. Laboratory test results for post excavation samples taken in the farm field area ranged from 6.99 to 7.33.

A summary of test results and sample locations is shown in Table 1. The complete laboratory results are also attached.

Based on the information given above and attached; ECOS requests a *No Further Action Letter* from the Colorado Department of Public Health and Environment on behalf of the Barrett Corporation If you have any questions please contact Mr. Scot Donato of Bill Barrett Corporation at his office at 303-312-8191, or on his cell phone at 303-549-7739, or by mail at 112 Red Feather Trail, Silt, Colorado, 81652.

Thank you,

Nick Prevosti
Senior Environmental Scientist
ECOS Environmental & Disaster Restoration, Inc

Attachments:
Table 1: Barrett072609 Laboratory Analysis Summary
Attachment 1: Site Overview Map
Attachment 2: Excavation and Sampling Map
Attachment 3: Laboratory Results

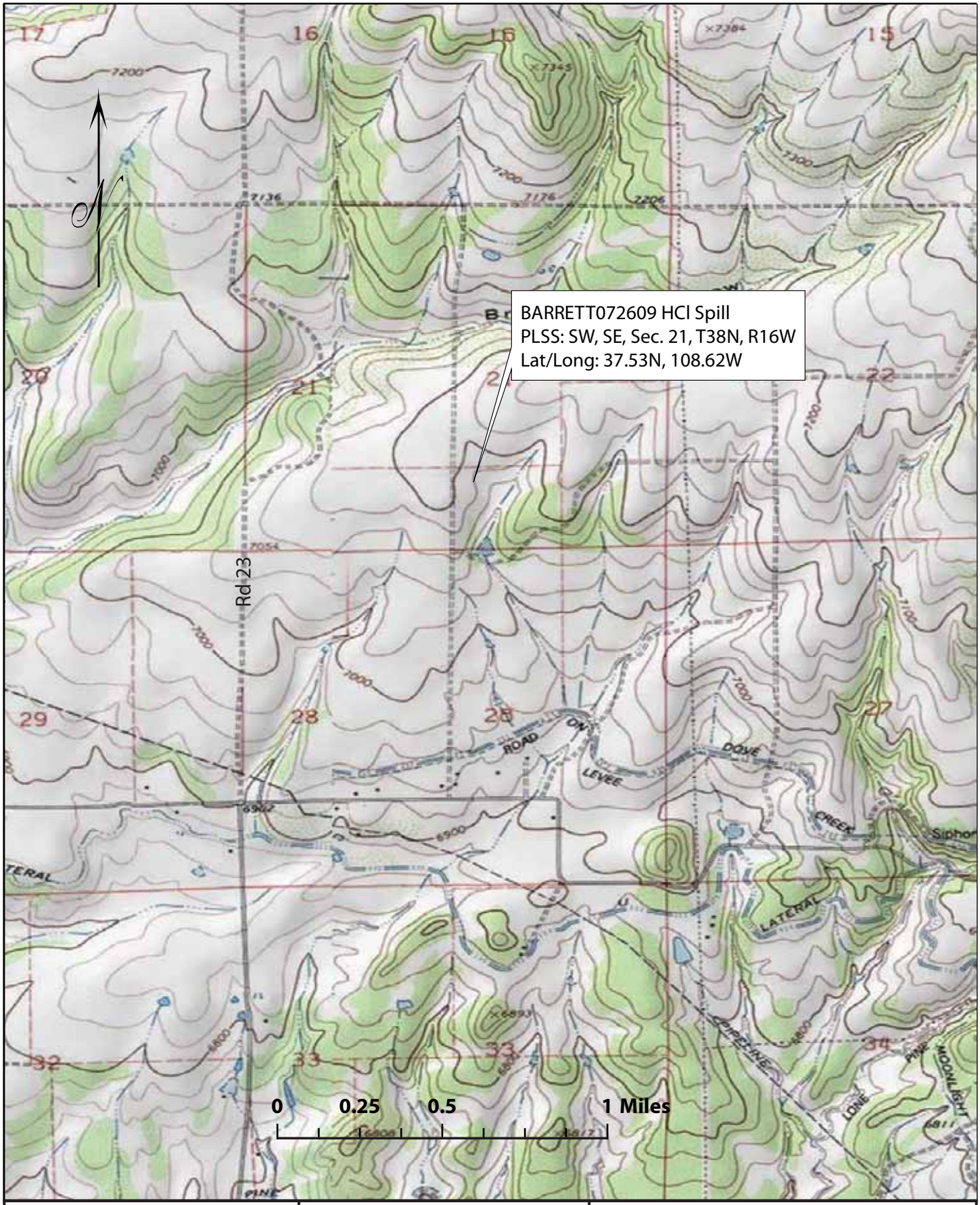
ecos
Environmental & Disaster Restoration, Inc.

Table 1: Barrett072609 Laboratory Analysis Summary

Date	Site Map Location ID	Depth (ft bgs)	Sample ID on Lab Results	Sample Type[1]	pH
7/28/2009	PX 1	0.3	BB0709 PX1	PX	8.27
7/28/2009	PX 2	0.3	BB0709 PX2	PX	8.1
7/28/2009	PX 3	0.25	BB0709 PX3	PX	9.92
7/28/2009	PX 4	0.5	BB0709 PX4	PX	9.16
7/28/2009	PX 5	1	BB0709 PX5	PX	7.55
7/28/2009	PX 6	0.3	BB0709 PX6	PX	8.45
7/28/2009	PX 7	1.5	BB0709 PX7	PX	9.59
7/28/2009	PX 8	1.5	BB0709 PX8	PX	9.83
7/28/2009	B 1	Surface	BB0709 BR1	B	9.02
7/28/2009	B 2	Surface	BB0709 BR2	B	8.97
7/28/2009	D 1	Composite	BB0709 D 1	D	7.6
7/28/2009	D 2	Composite	BB0709 D 2	D	8.22
7/29/2009	PX 9	0.3	BB0709 PX 9	PX	7.26
7/29/2009	PX 10	0.5	BB0709 PX 10	PX	6.99
7/29/2009	PX 11	0.16	BB0709 PX 11	PX	7.33
7/29/2009	PX 12	0.3	BB0709 PX 12	PX	7.22
7/29/2009	PX 13	0.5	BB0709 PX 13	PX	7.2
7/29/2009	PX 14	0.16	BB0709 PX 14	PX	7.04
7/29/2009	D 3	Composite	BB0709 D 3	D	7.15

[1] Sample Type Explanation and Map Symbol:

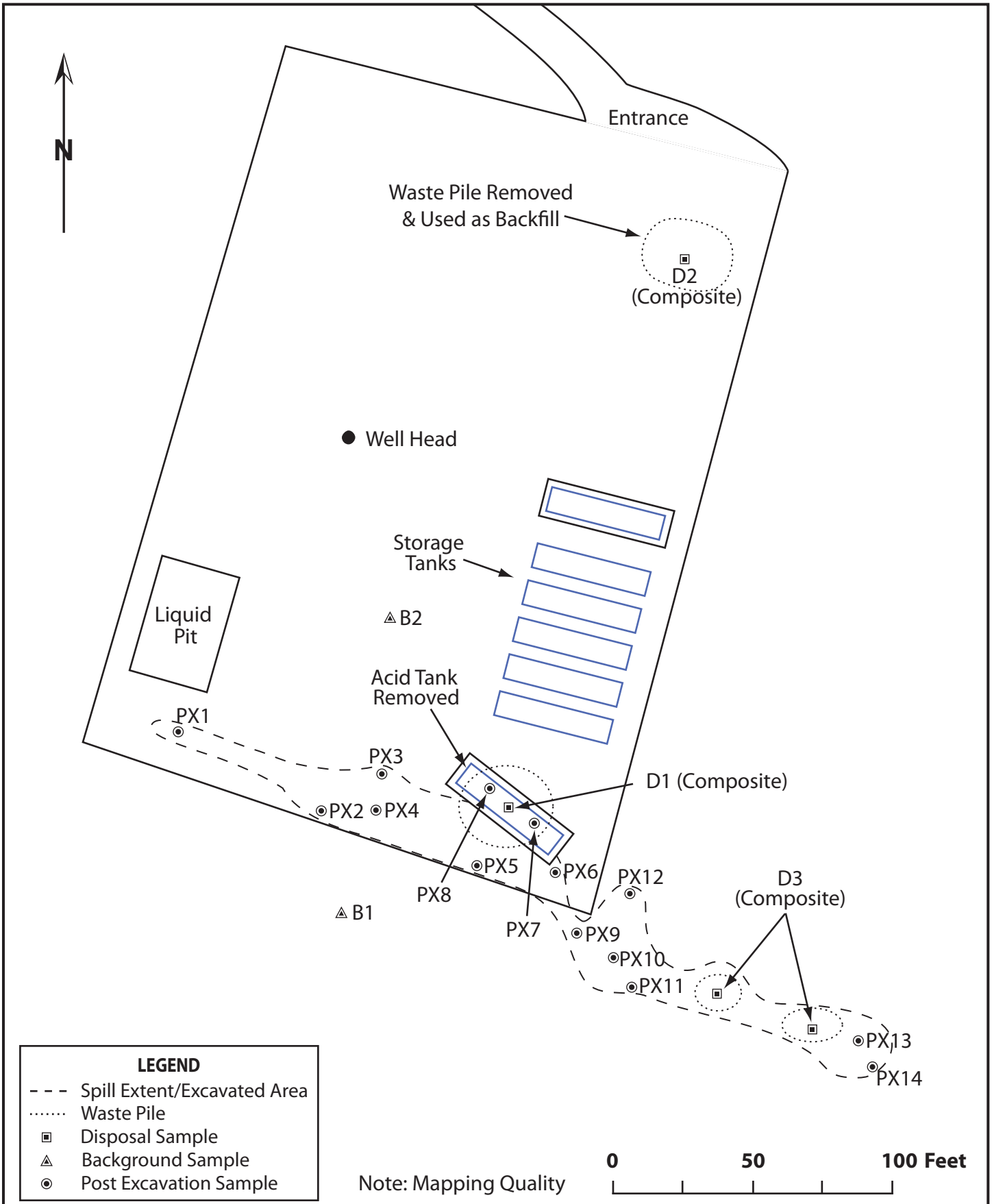
- ⧋ B = Background
- ◉ PX = Post Excavation Clearance
- ▣ D = Disposal Approval



BARRETT072609
Pad: Oliver #15H-21
Montezuma County, CO

Created by: ML Marietta
Created: 8/21/09
Revised: 8/24/09

ecos
Environmental & Disaster Restoration, Inc.



BARRETT072609
Pad: Oliver #15H-21
Montezuma County, CO

Created by: ML Marietta
Created: 8/21/09
Revised: 8/24/09

ecos
Environmental & Disaster Restoration, Inc.

001

WORK ORDER Summary Evergreen Analytical, Inc. 09-5595

Rpt To: Nick Prevosti
Ecos Environmental
PO Box 11936
Aspen, CO 81612
(970) 618-2984

Fax To: Nick Prevosti **FX:** (970) 704-9129
Email To: nickp@ecosenvironmental.com

7/29/2009 7:54:57 AM

Client Project ID: Barrett 072609

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
09-5595-01A	BB0709 PX1	Soil	7/28/09 1300	7/29/09	PH_S	9045C: pH	☐	☐	7/29/09	7/29/09
09-5595-02A	BB0709 PX2	Soil	7/28/09 1300	7/29/09	PH_S	9045C: pH	☐	☐	7/29/09	7/29/09
09-5595-03A	BB0709 PX3	Soil	7/28/09 1300	7/29/09	PH_S	9045C: pH	☐	☐	7/29/09	7/29/09
09-5595-04A	BB0709 PX4	Soil	7/28/09 1300	7/29/09	PH_S	9045C: pH	☐	☐	7/29/09	7/29/09
09-5595-05A	BB0709 PX5	Soil	7/28/09 1300	7/29/09	PH_S	9045C: pH	☐	☐	7/29/09	7/29/09
09-5595-06A	BB0709 PX6	Soil	7/28/09 1300	7/29/09	PH_S	9045C: pH	☐	☐	7/29/09	7/29/09
09-5595-07A	BB0709 PX7	Soil	7/28/09 1300	7/29/09	PH_S	9045C: pH	☐	☐	7/29/09	7/29/09
09-5595-08A	BB0709 PX8	Soil	7/28/09 1300	7/29/09	PH_S	9045C: pH	☐	☐	7/29/09	7/29/09
09-5595-09A	BB0709 BR1	Soil	7/28/09 1300	7/29/09	PH_S	9045C: pH	☐	☐	7/29/09	7/29/09
09-5595-10A	BB0709 BR2	Soil	7/28/09 1300	7/29/09	PH_S	9045C: pH	☐	☐	7/29/09	7/29/09
09-5595-11A	BB0709-D1	Soil	7/28/09 1300	7/29/09	PH_S	9045C: pH	☐	☐	7/29/09	7/29/09
09-5595-12A	BB0709-D2	Soil	7/28/09 1300	7/29/09	PH_S	9045C: pH	☐	☐	7/29/09	7/29/09

Definitions: * - Test Code has a Select List

002

Rush

CHAIN OF CUSTODY RECORD / ANALYTICAL SERVICES AGREEMENT **

Evergreen Analytical, An Accutest Company

CLIENT INFORMATION

Mail **Original** Report to: Ecos

Attn Nick Prevost

Address PO Box 11936

City Aspen State CO Zip 81612

Tel # 970 704 9128 Fax # 970 704 9129 E-mail Nickp@Ecosenvironmental.com

REPORT ALSO BY ☒ FAX ☒ PDF ☐ EDD

REPORT CHROMATOGRAMS ☐ NO

Mail Invoice to: SAME

Attn Monica Edelman

Address

City State Zip

Tel # Fax #

Project ID# Barrett 072609

P.O. Quote

Sampler Nick Prevost

NOTE: *Identify Known Hazards Below*

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

Report Results by: 7/29/09 (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.

CONFIRMATION OF SAMPLE RECEIPT REQUIRED? ☐ YES

SAMPLE IDENTIFICATION	DATE SAMPLED	TIME	No. of Containers	MATRIX: 1)Drinking Water or 2)Discharge Water or 3)Ground Water (circle one)	MATRIX: (Soil) Solid / Air / Gas	MATRIX: Oil / Sludge / Wipe	pH	For Laboratory Use Only
BB0709 Px1	7/28/09	1300	1		X		X	01
BB0709 Px2	7/28/09	1300	1		X		X	02
BB0709 Px3	7/28/09	1300	1		X		X	03
BB0709 Px4	7/28/09	1300	1		X		X	04
BB0709 Px5	7/28/09	1300	1		X		X	05
BB0709 Px6	7/28/09	1300	1		X		X	06
BB0709 Px7	7/28/09	1300	1		X		X	07
BB0709 Px8	7/28/09	1300	1		X		X	08
BB0709 BR1	7/28/09	1300	1		X		X	09
BB0709 BR2	7/28/09	1300	1		X		X	10
					Sample Fraction			

ANALYSES (check analysis): TCLP VOA/BNA/Pest/Herb/Metals (circle); Volatile Organics 8260/624 (circle); Semi-volatile Organics BNA, PAH, PNA 8270/625 (circle); Chlorinated Pesticides 8081/608 (circle); Organophosphorous Pesticides 8270; PCBs/8082/608/screen (circle); Herbicides 8151; BTEX 8021/602/8260/MTBE (circle); TVPH 8015mod. / 8260 (circle); TEPH 8015mod. (Diesel); Total Metals-DW / NPDES / SW846 (circle & list metals below); Dissolved Metals - DW / SW846 (circle & list metals below); Oil & Grease 1664 / 9071 (circle); TRPH 418.1; Anions 300.0 (circle below)

For Laboratory Use Only

W.O. # 09-5595

B.O.F. # NA

C/S (O) /

C/S (I) na / VOA

Temp. °C 17.3 / Ice na

Seals Present Y / N / NA

Samples Pres. Y / N / NA

Headspace Y / N / NA

By SI

Instructions: Please homogenize samples

** **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
	7/28/09 1500						7/29/09 750

CHAIN OF CUSTODY RECORD / ANALYTICAL SERVICES AGREEMENT ** RUSH

Page 2 of 2

Evergreen Analytical Laboratory Inc.

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

CLIENT INFORMATION

Mail **Original** Report to: ECOS
Attn Nick Prevosti
Address PO Box 11936
City Aspen State CO Zip 81612
Tel # 970 704 9128 Fax # 970 704 9129 E-mail nickp@ecosenvironmentalcom

REPORT ALSO BY ☒ FAX ☐ PDF ☐ EDD
REPORT CHROMATOGRAMS ☒ YES

Mail Invoice to: SAME
Attn Monica Edelman
Address SAME
City State Zip
Tel # Fax #
Project ID# Barrett 072609
P.O. Quote
Sampler Nick Prevosti

NOTE: *Identify Known Hazards Below*

Report Results by: 7/29/09 (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.

For Laboratory Use Only
W.O. # 01-5595
B.O.F. #
C/S (O)
C/S (I)
Temp. °C / Ice
Seals Present Y / N / NA
Samples Pres. Y / N / NA
Headspace Y / N / NA
By

SAMPLE IDENTIFICATION	DATE SAMPLED	TIME	No. of Containers	MATRIX: 1)Drinking Water or 2)Discharge Water or 3) Ground Water (circle)	Soil / Solid / Air / Gas	Oil / Sludge / Wipe	TCLP VOA/BNA/Pest/Herb/Metals (circle)	Volatile Organics 8260/624 (circle)	Semi-volatile Organics BNA, PAH, PNA 8270/625 (circle)	Chlorinated Pesticides 8081/608 (circle)	Organophosphorous Pesticides 8270	PCBs/8082/608/screen (circle)	Herbicides 8151	BTEX 8021/602/8260/MTBE (circle)	TVPH 8015mod. / 8260 (circle)	TEPH 8015mod. (Diesel)	Total Metals-DW / NPDES / SW846 (circle & list metals below)	Dissolved Metals - DW / SW846 (circle & list metals below)	Oil & Grease 413.1/1664 / 9071 (circle)	TRPH 418.1	Anions 3000 (circle below)	pH	
BB0709-01	7/28/09	1300	1		Soil																	X	11
BB0709-02	7/28/09	1309	1		Soil																	X	12
Sample Fraction																							

Instructions:

** **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
	7/28/09 1500						7/29/09 750

Evergreen Analytical, Inc. **Date:** *30-Jul-09*

Lab Order: 09-5595
Client Project ID Barrett 072609

CASE NARRATIVE

SAMPLE RECEIVING

Custody seals were present and intact.
The temperature of the sample(s) upon arrival was 19.8°C. The temperature of the sample at receipt exceeded the EPA requirement of less than 6.0°C.
Sample(s) were received in good condition, in the proper container, and within holding times. JD/TP

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

At the request of the client, the preliminary invoice was faxed. There are no other anomalies to report. PM

GENERAL CHEMISTRY

Method SW9045C: There are no anomalies to report. MM

Evergreen Analytical, Inc.

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

Client Project ID Barrett 072609

Lab Order: 09-5595
Units: pH Units

pH

Method: SW9045C **Prep Method: SW9045C**

Lab ID	Client ID	Matrix	Date Received	Collection Date	Date Prepared	Date Analyzed	Results	LQL	DF
09-5595-01A	BB0709 PX1	Soil	7/29/09	7/28/09 1300	7/29/09	7/29/09 0830	8.27	1.00	1
09-5595-02A	BB0709 PX2	Soil	7/29/09	7/28/09 1300	7/29/09	7/29/09 0830	8.10	1.00	1
09-5595-03A	BB0709 PX3	Soil	7/29/09	7/28/09 1300	7/29/09	7/29/09 0830	9.92	1.00	1
09-5595-04A	BB0709 PX4	Soil	7/29/09	7/28/09 1300	7/29/09	7/29/09 0830	9.16	1.00	1
09-5595-05A	BB0709 PX5	Soil	7/29/09	7/28/09 1300	7/29/09	7/29/09 0830	7.55	1.00	1
09-5595-06A	BB0709 PX6	Soil	7/29/09	7/28/09 1300	7/29/09	7/29/09 0830	8.45	1.00	1
09-5595-07A	BB0709 PX7	Soil	7/29/09	7/28/09 1300	7/29/09	7/29/09 0830	9.59	1.00	1
09-5595-08A	BB0709 PX8	Soil	7/29/09	7/28/09 1300	7/29/09	7/29/09 0830	9.83	1.00	1
09-5595-09A	BB0709 BR1	Soil	7/29/09	7/28/09 1300	7/29/09	7/29/09 0830	9.02	1.00	1
09-5595-10A	BB0709 BR2	Soil	7/29/09	7/28/09 1300	7/29/09	7/29/09 0830	8.97	1.00	1
09-5595-11A	BB0709-D1	Soil	7/29/09	7/28/09 1300	7/29/09	7/29/09 0830	7.60	1.00	1
09-5595-12A	BB0709-D2	Soil	7/29/09	7/28/09 1300	7/29/09	7/29/09 0830	8.22	1.00	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: 7/29/2009

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: *29-Jul-09*

Work Order: 09-5595

Client Project ID: Barrett 072609

ANALYTICAL QC SUMMARY REPORT

TestCode: PH_S

Sample ID **LCS-R48876**	SampType: **LCS**	TestCode: **PH_S**	Run ID: **PH_090729A**	Prep Date: **7/29/2009**	Units: **pH Units**
	Batch ID: **R48876**	TestNo: **SW9045C**	FileID:	Analysis Date: **7/29/2009**	SeqNo: **884045**

Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.99	1.00	8	0	99.9	99.3	100.7	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

ACCUTEST Laboratories

formerly Evergreen Analytical, Inc.

July 30, 2009

Nick Prevosti
Ecos Environmental
PO Box 11936
Aspen, CO 81612

Lab Work Order: 09-5595
Client Project ID: Barrett 072609

Dear Nick Prevosti:

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

THE INVOICE WIIL 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

001

WORK ORDER Summary — Evergreen Analytical, Inc. — 09-5630

Rpt To: Nick Prevosti
Ecos Environmental
PO Box 11936
Aspen, CO 81612
(970) 618-2984

Fax To: Nick Prevosti **FX:** (970) 704-9129
Email To: nickp@ecosenvironmental.com

7/30/2009 1:50:05 PM

Client Project ID: Barrett 072609

QC Level: Level I

Comments: Call with verbals ASAP.

Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Test Code	Test Name	Hold	MS	Date Due	Hold Time
09-5630-01A	BB0709-PX9	Soil	7/29/09 1100	7/30/09	PH_S	9045C: pH	☐	☐	7/30/09	7/30/09
09-5630-02A	BB0709-PX10	Soil	7/29/09 1100	7/30/09	PH_S	9045C: pH	☐	☐	7/30/09	7/30/09
09-5630-03A	BB0709-PX11	Soil	7/29/09 1100	7/30/09	PH_S	9045C: pH	☐	☐	7/30/09	7/30/09
09-5630-04A	BB0709-PX12	Soil	7/29/09 1100	7/30/09	PH_S	9045C: pH	☐	☐	7/30/09	7/30/09
09-5630-05A	BB0709-PX13	Soil	7/29/09 1100	7/30/09	PH_S	9045C: pH	☐	☐	7/30/09	7/30/09
09-5630-06A	BB0709-PX14	Soil	7/29/09 1100	7/30/09	PH_S	9045C: pH	☐	☐	7/30/09	7/30/09
09-5630-07A	BB0709-D3	Soil	7/29/09 1100	7/30/09	PH_S	9045C: pH	☐	☐	7/30/09	7/30/09

Definitions: * - Test Code has a Select List

002

Call w/ verbal ASAP - No rush on report RUSH

CHAIN OF CUSTODY RECORD / ANALYTICAL SERVICES AGREEMENT **

Evergreen Analytical, An Accutest Company

Page ___ of ___

CLIENT INFORMATION

Mail **Original** Report to: ECOS

Attn Nick Prevosti

Address PO Box 11936

City Aspen State CO Zip 81612

~~Phone #~~ 970.618.2854 Fax # 9707049129 E-mail nickp@ecosenvironmentalcom

REPORT ALSO BY ☒ FAX ☒ PDF ☐ EDD

REPORT CHROMATOGRAMS ☐ NO

Mail Invoice to: SAME

Attn Monica Edelman

Address ___

City ___ State ___ Zip ___

Tel # ___ Fax # ___

Project ID# Barrett 072609

P.O. ___ Quote ___

Sampler Nick Prevosti

NOTE: *Identify Known Hazards Below*

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

Report Results by: 7/30/09 (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.

CONFIRMATION OF SAMPLE RECEIPT REQUIRED? ☐ YES

SAMPLE IDENTIFICATION	DATE SAMPLED	TIME	No. of Containers	MATRIX: 1)Drinking Water or 2)Discharge Water or 3)Ground Water (circle one)	MATRIX: Soil / Air / Gas	MATRIX: Oil / Sludge / Wipe	ANALYSES (check analysis): TCLP VOA/BNA/Pest/Herb/Metals (circle)	Volatile Organics 8260/624 (circle)	Semi-volatile Organics BNA, PAH, PNA 8270/625 (circle)	Chlorinated Pesticides 8081/608 (circle)	Organophosphorous Pesticides 8270	PCBs/8082/608/screen (circle)	Herbicides 8151	BTEX 8021/602/8260/MTBE (circle)	TVPH 8015mod. / 8260 (circle)	TEPH 8015mod. (Diesel)	Total Metals-DW / NPDES / SW846 (circle & list metals below)	Dissolved Metals - DW / SW846 (circle & list metals below)	Oil & Grease 1664 / 9071 (circle)	TRPH 418.1	Anions 300.0 (circle below)	pH	For Laboratory Use Only
BB0709-PX9	7/29/09	1100	1		X																X		c1
BB0709-PX10	7/29/09	1100	1		X																X		c2
BB0709-PX11	7/29/09	1100	1		X																X		c3
BB0709-PX12	7/29/09	1100	1		X																X		c4
BB0709-PX13	7/29/09	1100	1		X																X		c5
BB0709-PX14	7/29/09	1100	1		X																X		c6
BB0709-D3	7/29/09	1100	1		X																X		c7
Sample Fraction																							

For Laboratory Use Only
W.O. # 09-5630
B.O.F. # NA
C/S (O) ___ / ___
C/S (I) NA / VPR
Temp. °C 19.6 / Ice NA
Seals Present Y / N / NA
Samples Pres. Y / N / NA
Headspace Y / N / NA
By ___

Instructions: Please Homogenize Samples

** **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
	7/29/09 1400						7/30/09 805

Evergreen Analytical, Inc. **Date:** *31-Jul-09*

Lab Order: 09-5630
Client Project ID Barrett 072609

CASE NARRATIVE

SAMPLE RECEIVING

Custody seals were present and intact.
The temperature of the sample(s) upon arrival was 19.6°C. The temperature of the sample at receipt exceeded the EPA requirement of less than 6.0°C.
Sample(s) were received in good condition, in the proper container, and within holding times. JD/TP

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

Preliminary invoice was faxed at the request of client. There are no other anomalies to report. PM

GENERAL CHEMISTRY

Method SW9045C: There are no anomalies to report. MM

Evergreen Analytical, Inc.

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

Client Project ID Barrett 072609
Collection Date: 7/29/09 1100

Lab Order: 09-5630
Date Received: 7/30/09
Units: pH Units

pH

Method: SW9045C

Prep Method:

Lab ID	Client ID	Matrix	Date Prepared	Date Analyzed	Results	LQL	DF
09-5630-01A	BB0709-PX9	Soil	7/30/09	7/30/09 0820	7.26	1.00	1
09-5630-02A	BB0709-PX10	Soil	7/30/09	7/30/09 0820	6.99	1.00	1
09-5630-03A	BB0709-PX11	Soil	7/30/09	7/30/09 0820	7.33	1.00	1
09-5630-04A	BB0709-PX12	Soil	7/30/09	7/30/09 0820	7.22	1.00	1
09-5630-05A	BB0709-PX13	Soil	7/30/09	7/30/09 0820	7.20	1.00	1
09-5630-06A	BB0709-PX14	Soil	7/30/09	7/30/09 0820	7.04	1.00	1
09-5630-07A	BB0709-D3	Soil	7/30/09	7/30/09 0820	7.15	1.00	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: 7/30/2009

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 or if performed on **this client's** samples.

006

Evergreen Analytical, Inc.

Date: *30-Jul-09*

Work Order: 09-5630

Client Project ID: Barrett 072609

ANALYTICAL QC SUMMARY REPORT

TestCode: PH_S

Sample ID **LCS-R48905**	SampType: **LCS**	TestCode: **PH_S**	Run ID: **PH_090730A**	Prep Date: **7/30/2009**	Units: **pH Units**
	Batch ID: **R48905**	TestNo: **SW9045C**	FileID:	Analysis Date: **7/30/2009**	SeqNo: **884688**

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		

Sample ID **LCS-R48905**	SampType: **LCS**	TestCode: **PH_S**	Run ID: **PH_090730A**	Prep Date: **7/30/2009**	Units: **pH Units**
	Batch ID: **R48905**	TestNo: **SW9045C**	FileID:	Analysis Date: **7/30/2009**	SeqNo: **884692**

Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	8.02	1.00	8	0	100	99.3	100.7	0	0		

Sample ID **LCS-R48905**	SampType: **LCS**	TestCode: **PH_S**	Run ID: **PH_090730A**	Prep Date: **7/30/2009**	Units: **pH Units**
	Batch ID: **R48905**	TestNo: **SW9045C**	FileID:	Analysis Date: **7/30/2009**	SeqNo: **884700**

Analyte	Result	LQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	8.02	1.00	8	0	100	99.3	100.7	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

ACCUTEST Laboratories

formerly Evergreen Analytical, Inc.

July 31, 2009

Nick Prevosti
Ecos Environmental
PO Box 11936
Aspen, CO 81612

Lab Work Order: 09-5630
Client Project ID: Barrett 072609

Dear Nick Prevosti:

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

THE INVOICE WIIL 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