

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

3004508670

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	BP America Production Company	Contact	Buddy Shaw
Address	200 Energy Court, Farmington, NM 87410	Telephone No.	(505) 326-9200
Facility Name	Archuleta Gas Com A #1	Facility Type	Active gas well

Surface Owner	Telesforo Archuleta Trustees	Mineral Owner		Lease No.	Fee
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
AK	5	29.0N	09.0W					San Juan

Latitude 36.750944 Longitude 107.806911

NATURE OF RELEASE

Type of Release	Historical	Volume of Release	unknown	Volume Recovered	0
Source of Release	Abandoned earthen pit	Date and Hour of Occurrence	?	Date and Hour of Discovery	6/12/07 1100
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?		Date and Hour			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

RCVD NOV 18 '09

OIL CONS. DIV.

DIST. 3

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Gas well drilled in 1954, earthen pit adjacent to well head abandoned at unknown time. Construction crew hired to repipe/redirect flow line discovered discolored, impacted soil. Soil sampled, field screened, laboratory tested in June 2007.

Describe Area Affected and Cleanup Action Taken.*

Investigation & excavation of impacted soils completed in May 2009 (see attached site map). Groundwater monitor well installed and sampled in October 2009 (analytical data attached). **CLOSURE REQUESTED.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>Buddy Shaw</i>	OIL CONSERVATION DIVISION		
Printed Name: Buddy Shaw	Approved by District Supervisor: <i>Bob Dell</i> For: CP		
Title: Environmental Coordinator	Approval Date: 1-6-10	Expiration Date:	
E-mail Address: buddy.shaw@bp.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 11/11/09	Phone: (505) 326-9200		

* Attach Additional Sheets If Necessary

NRMDC000831074

MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE & BEARING FROM THE WELL HEAD (TAPE MEASURE, LASER RANGE FINDER, & BRUNTON COMPASS). ALL OTHER STRUCTURES DISPLAYED ON THIS MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE.

FIGURE 1



OPEN PASTURE
FIELD

APPROXIMATE EXCAVATED AREA

MAY, 2009

2,454 sq. ft., 6 ft. average depth, compaction factor ~ 25%, with 680 cubic yards removed & transported to BP's Crouch Mesa Facility.

**HISTORICAL RELEASE
DISCOVERED IN SOIL
JUNE, 2007.
SAMPLE ID #1.**

ARCHULETA GC A #1
WELL HEAD

MW A 1 #2

A #4 METER RUN

ENERGEN
METER RUN

ARCHULETA GC A #3
WELL HEAD

ARCHULETA GC A #4
WELL HEAD

MW A 4 #3

OVERHEAD POWER LINES

PRIVATE

FENCE

BERM
06 BBL
BGT

SAMPLE ID #6

MW A 1 #3

FENCE

PROD
TANK

BER

BERM
06 BBL
BGT
FENCE

Date	Time	Sample ID	Distance (ft.) & Bearing	Depth (ft.)	Matrix Type	OVM (ppm)	TPH (mg/Kg)	BTEX (mg/Kg)
6/12/07	1059	1	15 S82W	2.5 FT.	SOIL	483	1,130	18.3
6/27/07	0843	6	85 S23W	3.5 FT.	SOIL	0.0	ND	ND
NMOC RELEASE GUIDELINES CLOSURE STANDARDS						100	100	50

OVM CALIBRATION = 52.7 ppm
with 100 ppm Isobutylene gas &
response factor set @ 0.52;
DATE - 06/12/07, TIME - 1105

OVM CALIBRATION = 54.0 ppm
with 100 ppm Isobutylene gas &
response factor set @ 0.52;
DATE - 06/27/07. TIME - 0800.

NOTES: OVM - organic vapor meter or photolionization detector (PID), TPH - total petroleum hydrocarbons, BTEX - benzene, toluene, ethylbenzene, total xylenes, ppm - parts per million, mg/Kg - milligrams per kilograms

1 INCH = 50 FT.

0 50 100 FT.

BP AMERICA PRODUCTION CO

ARCHULETA GC A # 1

NE/4 SW/4 SEC. 5. T29N. R9W

SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.

CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87

BLOOMFIELD, NEW MEXICO 87413

PHONE: (505) 632-1199

PROJECT: REMEDIATION

DRAWN BY: NJV

FILENAME: ARCHULETA GC A 1 SM.SKF

REVISÉD: 11-04-09

SITE MAP

10/09

Hall Environmental Analysis Laboratory, Inc.

Date: 26-Jun-07

CLIENT: Blagg Engineering
Lab Order: 0706222
Project: Archuleta GC A #1
Lab ID: 0706222-01

Client Sample ID: 1 @ 2.5'- Sale's Line Piping
Collection Date: 6/12/2007 10:59:00 AM
Date Received: 6/14/2007
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	620	10		mg/Kg	1	6/20/2007 10:56:27 AM
Surr: DNOP	124	61.7-135		%REC	1	6/20/2007 10:56:27 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	510	100		mg/Kg	20	6/21/2007 12:48:45 PM
Surr: BFB	205	84-138	S	%REC	20	6/21/2007 12:48:45 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		mg/Kg	20	6/21/2007 12:48:45 PM
Toluene	ND	1.0		mg/Kg	20	6/21/2007 12:48:45 PM
Ethylbenzene	1.3	1.0		mg/Kg	20	6/21/2007 12:48:45 PM
Xylenes, Total	17	2.0		mg/Kg	20	6/21/2007 12:48:45 PM
Surr: 4-Bromofluorobenzene	101	68.2-109		%REC	20	6/21/2007 12:48:45 PM
EPA METHOD 9056A: ANIONS						Analyst: KS
Chloride	ND	6.0		mg/Kg	20	6/23/2007 6:07:15 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 1 of 1

Client: BLGG ENGR. / BP AMERICA

Address: P.O. BOX 87
BLFD. NM 87413

Phone #: 632-1199

Fax #:

QA / QC Package:

Std ☐ Level 4 ☐

Other:

Project Name:

ARCULETA GC A #1

Project #:

Project Manager:

Sampler:

Sample Temperature:

[illegible]

Date:	Time:	Relinquished By: (Signature)
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6/13/07 1530

Date: Time:

Relinquished By: (Signature)

Relinquished By: (Signature)

Received By: (Signature)

Received By: (Signature)

06/14/07
149



**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallanenvironmental.com

ANALYSIS REQUEST

																	(BTEX + MTBE + TMB's) (80216)	
																	BTEX + MTBE + TPH (Gasoline Only)	
																L	TPH Method 8015B (Gase/Diesel)	
																	TPH (Method 418.1)	
																	EOD (Method 504.1)	
																	EDC (Method 8021)	
																	8310 (PNA or PAH)	
																	RCCA 8 Metals	
																	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	
																	9081 Pesticides / PCB's (8082)	
																	8260B (VOA)	
																	8270 (Semi-VOA)	
																L	CHLORIDE	
																		Air-Rubbles no Headspace (Y or N)

Remarks: GAS & DIESEL RANGES ONLY
ON TPH ANALYSIS.

Hall Environmental Analysis Laboratory, Inc.

Date: 26-Jun-07

CLIENT: Blagg Engineering

Project: Archuleta GC A #1

Lab Order: 0706222

CASE NARRATIVE

Analytical Comments for METHOD 8015GRO_S, SAMPLE 0706222-01A: Elevated surrogate due to matrix interference.

QA/QC SUMMARY REPORT

Client: Blagg Engineering
Project: Archuleta GC A #1

Work Order: 0706222

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8015									
Sample ID: MB-13195		MBLK				Batch ID: 13195	Analysis Date: 6/17/2007 10:08:46 PM		
Diesel Range Organics (DRO)	ND	mg/Kg	10						
Sample ID: LCS-13195		LCS				Batch ID: 13195	Analysis Date: 6/17/2007 10:43:59 PM		
Diesel Range Organics (DRO)	38.35	mg/Kg	10	76.7	64.6	116			
Sample ID: LCSD-13195		LCSD				Batch ID: 13195	Analysis Date: 6/17/2007 11:19:12 PM		
Diesel Range Organics (DRO)	41.50	mg/Kg	10	83.0	64.6	116	7.89	17.4	
Method: SW8015									
Sample ID: MB-13212		MBLK				Batch ID: 13212	Analysis Date: 6/21/2007 11:17:21 AM		
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0						
Sample ID: LCS-13212		LCS				Batch ID: 13212	Analysis Date: 6/21/2007 11:47:48 AM		
Gasoline Range Organics (GRO)	20.40	mg/Kg	5.0	81.6	69.5	120			
Method: SW8021									
Sample ID: MB-13212		MBLK				Batch ID: 13212	Analysis Date: 6/21/2007 11:17:21 AM		
Benzene	ND	mg/Kg	0.050						
Toluene	ND	mg/Kg	0.050						
Ethylbenzene	ND	mg/Kg	0.050						
Xylenes, Total	ND	mg/Kg	0.10						
Sample ID: LCS-13212		LCS				Batch ID: 13212	Analysis Date: 6/21/2007 11:47:48 AM		
Benzene	0.2669	mg/Kg	0.050	95.3	62.7	114			
Toluene	1.950	mg/Kg	0.050	97.5	68.2	121			
Ethylbenzene	0.3444	mg/Kg	0.050	86.1	71.4	115			
Xylenes, Total	2.123	mg/Kg	0.10	92.3	65	135			

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **BLAGG**

Date and Time Received:

6/14/07

Work Order Number **0706222**

Received by **TLS**

Checklist completed by

James SC
Signature

6/14/07
Date

Matrix

Carrier name **UPS**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/> Not Shipped <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Water - VOA vials have zero headspace?	No VOA vials submitted <input checked="" type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Water - Preservation labels on bottle and cap match?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
Container/Temp Blank temperature?	6°	4° C ± 2 Acceptable If given sufficient time to cool.	

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding

Comments:

Corrective Action

BLAGG ENGINEERING, INC.**MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA****CLIENT :** BP AMERICA PROD. CO.**CHAIN-OF-CUSTODY # :** N / A**ARCHULETA GC A # 1 / A # 4****LABORATORY (S) USED :** HALL ENVIRONMENTAL**UNIT K, SEC. 5, T29N, R9W****Date :** October 26, 2009**DEVELOPER / SAMPLER :** N J V**Filename :** 10-26-09.WK4**PROJECT MANAGER :** J C B

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
A4 #3	101.57	98.26	3.31	13.19	-	-	-	-	-
A1 #2	103.76	99.72	4.04	12.63	1230	7.37	1,100	15.9	3.50
A1 #3	102.60	99.01	3.59	12.53	-	-	-	-	-

INSTRUMENT CALIBRATIONS =	4.01/7.00/10.00	2,800
DATE & TIME =	10/26/09	1030

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$
(i.e. 2" MW $r = (1/12) \text{ ft.}$ $h = 1 \text{ ft.}$) (i.e. 4" MW $r = (2/12) \text{ ft.}$ $h = 1 \text{ ft.}$)

Ideally a minimum of three (3) wellbore volumes:

2.00 " well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2 "

MW A1 #2 - good recovery, olive gray color in appearance, purged to total depth, allowed recovery to ~8.25 ft., then collected samples. Samples from MW A1 #2 analyzed for BTEX per US EPA Method 8021B, total dissolved solids, chloride, fluoride, nitrate, ferrous iron, & sulfate.

Monitor well top elevations surveyed on 10/22/09.

Top of casing MW A4 #3 ~ 2.50 ft., MW A1 #2 ~ 2.30 ft., MW A1 #3 ~ 2.20 ft. above grade.

on-site	11:20	temp	44 F
off-site	12:40	temp	47 F
sky cond.	mostly sunny		
wind speed	0 - 5	direct.	SE

Hall Environmental Analysis Laboratory, Inc.

Date: 03-Nov-09

CLIENT: Blagg Engineering
Lab Order: 0910479
Project: Archuleta GC A #1
Lab ID: 0910479-01

Client Sample ID: MW A1 #2
Collection Date: 10/26/2009 12:30:00 PM
Date Received: 10/27/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	10/30/2009 12:05:09 AM
Toluene	1.9	1.0		µg/L	1	10/30/2009 12:05:09 AM
Ethylbenzene	ND	1.0		µg/L	1	10/30/2009 12:05:09 AM
Xylenes, Total	170	2.0		µg/L	1	10/30/2009 12:05:09 AM
Surr: 4-Bromofluorobenzene	103	65.9-130		%REC	1	10/30/2009 12:05:09 AM
EPA METHOD 300.0: ANIONS						Analyst: TAF
Fluoride	0.59	0.10		mg/L	1	10/27/2009 1:58:33 PM
Chloride	24	2.0		mg/L	20	10/27/2009 2:13:58 PM
Nitrogen, Nitrate (As N)	ND	0.10		mg/L	1	10/27/2009 1:58:33 PM
Sulfate	260	10		mg/L	20	10/27/2009 2:13:58 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: RAGS
Iron	ND	0.020		mg/L	1	10/30/2009 11:09:57 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: MMS
Total Dissolved Solids	885	20.0		mg/L	1	10/30/2009 5:07:00 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Page 1 of 1

Chain-of-Custody Record		Turn-Around Time:
Client: <u>BLAGE ENTER. / BP AMERICA</u>	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush	
Mailing Address: <u>P.O. BOX 87</u> <u>BLUED, NM 87413</u>	Project Name: <u>ARCHULETA GC A #1</u>	
Phone #: <u>(505) 632-1199</u>	Project #:	
email or Fax#:	Project Manager: <u>JEFF BLAGE</u> <i>RV</i>	
QA/QC Package: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation) <input type="checkbox"/> Other _____ <input type="checkbox"/> EDD (Type) _____	Sampler: <u>NELSON VELEZ</u> On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

[illegible]

QA/QC SUMMARY REPORT

Client: Blagg Engineering
Project: Archuleta GC A #1

Work Order: 0910479

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: MB		MBLK									
Batch ID: R35906											Analysis Date: 10/27/2009 10:10:16 AM
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.10								
Nitrogen, Nitrate (As N)	ND	mg/L	0.10								
Sulfate	ND	mg/L	0.50								
Sample ID: SPLS Extraction Flu		MBLK									
Batch ID: R35906											Analysis Date: 10/28/2009 1:32:57 AM
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.10								
Nitrogen, Nitrate (As N)	ND	mg/L	0.10								
Sulfate	ND	mg/L	0.50								
Sample ID: MB		MBLK									
Batch ID: R35925											Analysis Date: 10/28/2009 10:39:49 AM
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.10								
Nitrogen, Nitrate (As N)	ND	mg/L	0.10								
Sulfate	ND	mg/L	0.50								
Sample ID: LCS		LCS									
Batch ID: R35906											Analysis Date: 10/27/2009 10:27:40 AM
Fluoride	0.5436	mg/L	0.10	0.5	0	109	90	110			
Chloride	5.218	mg/L	0.10	5	0	104	90	110			
Nitrogen, Nitrate (As N)	2.863	mg/L	0.10	2.5	0	107	90	110			
Sulfate	10.35	mg/L	0.50	10	0	104	90	110			
Sample ID: LCS		LCS									
Batch ID: R35925											Analysis Date: 10/28/2009 10:57:13 AM
Fluoride	0.5308	mg/L	0.10	0.5	0	106	90	110			
Chloride	5.050	mg/L	0.10	5	0	101	90	110			
Nitrogen, Nitrate (As N)	2.577	mg/L	0.10	2.5	0	103	90	110			
Sulfate	10.21	mg/L	0.50	10	0	102	90	110			
Method: EPA Method 8021B: Volatiles											
Sample ID: 5ML RB		MBLK									
Batch ID: R35953											Analysis Date: 10/29/2009 8:23:38 AM
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	2.0								
Sample ID: 100NG BTEX LCS		LCS									
Batch ID: R35953											Analysis Date: 10/30/2009 3:36:59 AM
Benzene	18.39	µg/L	1.0	20	0	91.9	85.9	113			
Toluene	18.18	µg/L	1.0	20	0	90.9	86.4	113			
Ethylbenzene	17.96	µg/L	1.0	20	0	89.8	83.5	118			
Xylenes, Total	52.51	µg/L	2.0	60	0	87.5	83.4	122			
Method: EPA Method 8010B: Dissolved Metals											
Sample ID: MB		MBLK									
Batch ID: R35956											Analysis Date: 10/30/2009 10:43:04 AM
Iron	ND	mg/L	0.020								
Sample ID: LCS		LCS									
Batch ID: R35956											Analysis Date: 10/30/2009 10:45:58 AM
Iron	0.4796	mg/L	0.020	0.5	0	95.9	80	120			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

Page 1

QA/QC SUMMARY REPORT

Client: Blagg Engineering
Project: Archuleta GC A #1

Work Order: 0910479

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	--------	---------	------	----------	-----------	------	----------	------

Method: SM2540C MOD: Total Dissolved Solids

Sample ID: MBLK-20459

MBLK

Batch ID: 20459 Analysis Date: 10/30/2009 5:07:00 PM

Total Dissolved Solids ND mg/L 20.0

Sample ID: LCS1-20459

LCS

Batch ID: 20459 Analysis Date: 10/30/2009 5:07:00 PM

Total Dissolved Solids 1012 mg/L 20.0 1000 0 101 80 120

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

Page 2

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **BLAGG**

Date Received:

10/27/2009

Work Order Number **0910479**

Received by: **TLS**

Checklist completed by:

Signature

[Signature]

Sample ID labels checked by:

[Signature]
Initials

10/27/09
Date

Matrix:

Carrier name: Greyhound

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/> Not Shipped <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Water - VOA vials have zero headspace?	No VOA vials submitted <input type="checkbox"/>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Water - Preservation labels on bottle and cap match?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
Container/Temp Blank temperature?	1.9°	<6° C Acceptable If given sufficient time to cool.	

Number of preserved bottles checked for pH:

1
(2) > 12 unless noted below.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: Added 2 ml HCl to ferrous Fe sample for

acceptable pH. AS 10/27

Corrective Action _____