

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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

Form C-141
Revised August 8, 2011

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

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

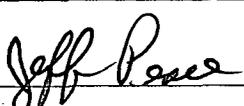
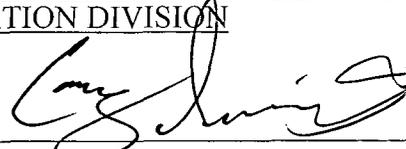
Name of Company: BP	Contact: Jeff Peace
Address: 200 Energy Court, Farmington, NM 87401	Telephone No.: 505-326-9479
Facility Name: Mudge Gas Com D 1	Facility Type: Natural gas well
Surface Owner: Federal	Mineral Owner: Federal
API No. 3004528626	

LOCATION OF RELEASE

Unit Letter B	Section 12	Township 31N	Range 11W	Feet from the 920	North/South Line North	Feet from the 1,670	East/West Line East	County: San Juan
------------------	---------------	-----------------	--------------	----------------------	---------------------------	------------------------	------------------------	------------------

Latitude 36.917480 Longitude 107.937850

NATURE OF RELEASE

Type of Release: condensate/oil	Volume of Release: unknown	Volume Recovered: none
Source of Release: unknown - historical	Date and Hour of Occurrence: unknown	Date and Hour of Discovery: April 1, 2014; 10:30 AM
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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.	
If a Watercourse was Impacted, Describe Fully.*	RCVD APR 16 '14 OIL CONS. DIV. DIST. 3	
Describe Cause of Problem and Remedial Action Taken.* During operations to re-contour the location for reclamation after plug and abandon procedures impacted soil was found. Impacts appeared to be historic, possibly from a former earthen pit. Impacted soil was excavated and removed.		
Describe Area Affected and Cleanup Action Taken.* Impacted soil was excavated and removed to the sandstone bedrock, which was 5' to 6' below the surface. Soil was scraped from the top of the sandstone and then hydrogen peroxide was applied to the surface before backfilling with clean soil. Lab analysis for a 10-point composite soil sample after excavation and treatment resulted in 68 ppm TPH. Approximately 147 cubic yards were excavated and hauled to the IEI landfarm for treatment. The site will be reclaimed and seeded.		
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: 	OIL CONSERVATION DIVISION	
Printed Name: Jeff Peace	Approved by Environmental Specialist: 	
Title: Area Environmental Advisor	Approval Date: <u>4/21/14</u>	Expiration Date:
E-mail Address: peace.jeffrey@bp.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: April 15, 2014	Phone: 505-326-9479	

* Attach Additional Sheets If Necessary

Incident # NCS 141115 0279

CLIENT: <u>BP</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	API #: <u>30-045-28626</u> TANK ID (if applicable): _____
-------------------	---	--

FIELD REPORT: (circle one): BGT CONFIRMATION / RELEASE INVESTIGATION / OTHER: REMEDIATION SAMPLING	PAGE #: <u>1</u> of <u>1</u>
--	------------------------------

SITE INFORMATION:	SITE NAME: <u>MUDGE GC D 1</u>	DATE STARTED: <u>4-3-2014</u>
QUAD/UNIT: <u>B SEC. 12 TWP. 31N RING. 11W PM. NM CNTY. SJ ST. NM</u>		DATE FINISHED: <u>4-3-2014</u>
1/4 - 1/4 FOOTAGE:	LEASE TYPE: <u>FEDERAL/STATE/FEE/INDIAN</u>	ENVIRONMENTAL SPECIALIST(S): <u>JCB</u>
LEASE #:	PROD. FORMATION: <u>PxA CONTRACTOR: F+M (MEL)</u>	

REFERENCE POINT:	WELL HEAD (W.H.) GPS COORD: <u>36.91759 x 107.93855</u>	GLELEV.: <u>6071</u>
1) <u>IMPACT CENTER</u>	GPS COORD: <u>36.91756 x 107.93898</u>	DISTANCE/BEARING FROM W.H.: <u>120' S88W</u>
2) _____	GPS COORD: _____	DISTANCE/BEARING FROM W.H.: _____
3) _____	GPS COORD: _____	DISTANCE/BEARING FROM W.H.: _____
4) _____	GPS COORD: _____	DISTANCE/BEARING FROM W.H.: _____

SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # OR LAB USED: <u>HALL</u>	OVM READING (ppm): <u>22</u>
1) SAMPLE ID: <u>10-PE Composite @ 6'</u>	SAMPLE DATE: <u>4-3-2014</u> SAMPLE TIME: <u>0920</u> LAB ANALYSIS: <u>TPH/BTEX/CL⁻</u>	
2) SAMPLE ID: _____	SAMPLE DATE: _____ SAMPLE TIME: _____ LAB ANALYSIS: _____	
3) SAMPLE ID: _____	SAMPLE DATE: _____ SAMPLE TIME: _____ LAB ANALYSIS: _____	
4) SAMPLE ID: _____	SAMPLE DATE: _____ SAMPLE TIME: _____ LAB ANALYSIS: _____	

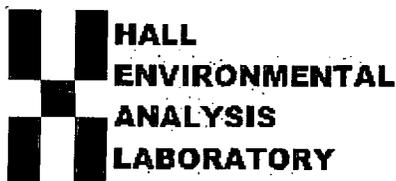
SOIL DESCRIPTION:	SOIL TYPE: SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER: <u>SANDSTONE / CLAYSTONE</u>
SOIL COLOR: <u>Light Gray</u>	PLASTICITY (CLAYS): NON-PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC
COHESION (ALL OTHERS): NON-COHESIVE / SLIGHTLY COHESIVE / COHESIVE / <u>HIGHLY COHESIVE</u>	DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD
CONSISTENCY (NON-COHESIVE SOILS): LOOSE / FIRM / DENSE / <u>VERY DENSE</u>	HC ODOR DETECTED: <u>YES</u> NO EXPLANATION: <u>MODERATE</u>
MOISTURE: <u>DRY</u> / SLIGHTLY MOIST / MOIST / WET / SATURATED / SUPER SATURATED	ANY AREAS DISPLAYING WETNESS: YES <u>(NO)</u> EXPLANATION: _____
SAMPLE TYPE: GRAB / COMPOSITE - # OF PTS. _____	DISCOLORATION/STAINING OBSERVED: <u>YES</u> NO EXPLANATION: <u>GRAY STREAKING</u>

SITE OBSERVATIONS:	LOST INTEGRITY OF EQUIPMENT: YES <u>(NO)</u> EXPLANATION: <u>HISTORICAL RELEASE</u>
APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED: <u>YES</u> NO EXPLANATION: <u>COLOR/ODOR</u>	
EQUIPMENT SET OVER RECLAIMED AREA: YES <u>(NO)</u> EXPLANATION: _____	
OTHER: <u>APPLY 4 gal H2O2 to SANDSTONE BASE Following Excavation.</u>	
SOIL IMPACT DIMENSION ESTIMATION: <u>32</u> ft. X <u>28</u> ft. X <u>3</u> ft. EXCAVATION ESTIMATION (Cubic Yards): <u>200±</u>	
DEPTH TO GROUNDWATER: <u>>100</u> NEAREST WATER SOURCE: <u>>900</u> NEAREST SURFACE WATER: <u>>1000</u> NM OGD TPH CLOSURE STD: <u>1,000</u> ppm	

SITE SKETCH	BGT Located: <u>off / on site</u>	PLOT PLAN circle: <u>attached</u>
		OVM CALIB. READ = <u>100.6</u> ppm RF = <u>0.92</u> OVM CALIB. GAS = <u>100</u> ppm TIME <u>0710</u> am DATE <u>4/3/14</u>
MISCELL. NOTES WO: _____ PO #: _____ PK: <u>ZFEIRKOSTS</u> PJ #: _____ Permit date(s): _____ OCD Appr. date(s): _____ <small>OVM = Organic Vapor Meter ppm = parts per million</small> BGT Sidewalls Visible: <u>Y I N</u> BGT Sidewalls Visible: <u>Y I N</u> BGT Sidewalls Visible: <u>Y I N</u> Magnetic declination: <u>10° E</u>		

NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE; -- = APPROX.; W.H. = WELL HEAD; T.B. = TANK BOTTOM; PBGTL = PREVIOUS BELOW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA = NOT APPLICABLE OR NOT AVAILABLE; SW - SINGLE WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DB - DOUBLE BOTTOM

NOTES: _____ ONSITE: 4/3/2014



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

April 11, 2014

Jeff Blagg
Blagg Engineering
P. O. Box 87
Bloomfield, NM 87413
TEL: (505) 320-1183
FAX

RE: Mudge GC D 1

OrderNo.: 1404206

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/4/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 10-pt Comp @ 6'

Project: Mudge GC D 1

Collection Date: 4/3/2014 9:20:00 AM

Lab ID: 1404206-001

Matrix: SOIL

Received Date: 4/4/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	68	9.8		mg/Kg	1	4/7/2014 4:53:44 PM	12545
Surr: DNOP	77.4	66-131		%REC	1	4/7/2014 4:53:44 PM	12545
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/7/2014 12:40:46 PM	12550
Surr: BFB	105	74.5-129		%REC	1	4/7/2014 12:40:46 PM	12550
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	4/7/2014 12:40:46 PM	12550
Toluene	ND	0.047		mg/Kg	1	4/7/2014 12:40:46 PM	12550
Ethylbenzene	ND	0.047		mg/Kg	1	4/7/2014 12:40:46 PM	12550
Xylenes, Total	ND	0.094		mg/Kg	1	4/7/2014 12:40:46 PM	12550
Surr: 4-Bromofluorobenzene	101	80-120		%REC	1	4/7/2014 12:40:46 PM	12550
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	110	30		mg/Kg	20	4/8/2014 12:21:51 AM	12578

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:			
*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1404206

11-Apr-14

Client: Blagg Engineering

Project: Mudge GC D 1

Sample ID	MB-12578	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	12578	RunNo:	17852					
Prep Date:	4/7/2014	Analysis Date:	4/7/2014	SeqNo:	514831	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-12578	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	12578	RunNo:	17852					
Prep Date:	4/7/2014	Analysis Date:	4/7/2014	SeqNo:	514832	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	5.000	0	278	90	110			S

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1404206

11-Apr-14

Client: Blagg Engineering

Project: Mudge GC D I

Sample ID	MB-12545	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	12545	RunNo:	17793					
Prep Date:	4/4/2014	Analysis Date:	4/4/2014	SeqNo:	513063	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	7.4		10.00		74.3	66	131			

Sample ID	LCS-12545	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	12545	RunNo:	17793					
Prep Date:	4/4/2014	Analysis Date:	4/4/2014	SeqNo:	513064	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.5	60.8	145			
Surr: DNOP	3.8		5.000		75.3	66	131			

Sample ID	MB-12557	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	12557	RunNo:	17845					
Prep Date:	4/7/2014	Analysis Date:	4/8/2014	SeqNo:	514590	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.4		10.00		74.0	66	131			

Sample ID	LCS-12557	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	12557	RunNo:	17845					
Prep Date:	4/7/2014	Analysis Date:	4/8/2014	SeqNo:	514592	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.9		5.000		78.4	66	131			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1404206

11-Apr-14

Client: Blagg Engineering
Project: Mudge GC D I

Sample ID	MB-12550	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	12550	RunNo:	17826					
Prep Date:	4/4/2014	Analysis Date:	4/7/2014	SeqNo:	514468	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	860		1000		86.2	74.5	129			

Sample ID	LCS-12550	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	12550	RunNo:	17826					
Prep Date:	4/4/2014	Analysis Date:	4/7/2014	SeqNo:	514469	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	71.7	134			
Surr: BFB	930		1000		93.3	74.5	129			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1404206

11-Apr-14

Client: Blagg Engineering

Project: Mudge GC D I

Sample ID	MB-12550	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	12550	RunNo:	17826					
Prep Date:	4/4/2014	Analysis Date:	4/7/2014	SeqNo:	514510	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID	LCS-12550	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	12550	RunNo:	17826					
Prep Date:	4/4/2014	Analysis Date:	4/7/2014	SeqNo:	514511	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	110	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit



Hall Environmental Analysis Laboratory
 4901 Hawkins NE
 Albuquerque, NM 87105
 TEL: 505-345-3975 FAX: 505-345-4107
 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **BLAGG**

Work Order Number: **1404206**

RcptNo: **1**

Received by/date:	<u>AG</u>	<u>04/04/14</u>	
Logged By:	Michelle Garcia	4/4/2014 10:00:00 AM	<i>Michelle Garcia</i>
Completed By:	Michelle Garcia	4/4/2014 10:28:53 AM	<i>Michelle Garcia</i>
Reviewed By:	<u>CS</u>	<u>04/04/14</u>	

Chain of Custody

- Custody seals intact on sample bottles? Yes No Not Present
- Is Chain of Custody complete? Yes No Not Present
- How was the sample delivered? Courier

Log In

- Was an attempt made to cool the samples? Yes No NA
- Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- Sample(s) in proper container(s)? Yes No
- Sufficient sample volume for indicated test(s)? Yes No
- Are samples (except VOA and ONG) properly preserved? Yes No
- Was preservative added to bottles? Yes No NA
- VOA vials have zero headspace? Yes No No VOA Vials
- Were any sample containers received broken? Yes No
- Does paperwork match bottle labels? Yes No
- Are matrices correctly identified on Chain of Custody? Yes No
- Is it clear what analyses were requested? Yes No
- Were all holding times able to be met? Yes No

of preserved bottles checked for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

- Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

