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

30-045-09921

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company **Burlington Resources, a Wholly Subsidiary of ConocoPhillips Company**	Contact **Kelsi Harrington**	
Address **3401 E. 30th St., Farmington, NM 87402**	Telephone No. **505-599-3403**	
Facility Name **Rhoda Abrams 2**	Facility Type **Gas Well API#3004509921**	
Surface Owner **Private**	Mineral Owner **Private**	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	**05**	**30N**	**11W**	**1795'**	**North**	**960'**	**East**	**San Juan**

Latitude 36.84337° N Longitude -108.00765° W

NATURE OF RELEASE

Type of Release – **Unknown**	Volume of Release – **Unknown**	Volume Recovered –
Source of Release: **Below Grade Tank**	Date and Hour of Occurrence **Unknown**	Date and Hour of Discovery **2/22/2011**
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour –	RCVD SEP 6 '11
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	OIL CONS. DIV.
If a Watercourse was Impacted, Describe Fully.*		DIST. 3

Describe Cause of Problem and Remedial Action Taken.* **Below Grade Tank Closure.**

Describe Area Affected and Cleanup Action Taken.* **The sample returned results below the regulatory standards for Benzene, BTEX and Chlorides but above the regulatory standard of 100 ppm for TPH (1,250 ppm) using USEPA Method 418.1, confirming a release. However, as the closure standard for TPH at this site is 1000 ppm and the laboratory sample returned results of 112 ppm TPH, no further action is required.**

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: Kelsi Harrington	OIL CONSERVATION DIVISION	
Printed Name: **Kelsi Harrington**	Approved by District Supervisor:	
Title: **Environmental Consultant**	Approval Date: 10/11/11	Expiration Date:
E-mail Address: **kelsi.g.harrington@conocophillips.com**	Conditions of Approval:	Attached ☐
Date: **9/1/2011** Phone: **505-599-3403**		

* Attach Additional Sheets If Necessary

nJK1129429169

envirotech

March 14, 2011 Project Number 96052-1898

Ms. Kelsi Harrington
Conoco Phillips
3401 East 30th Street
Farmington, New Mexico 87401 Phone: (505) 599-3403

RE: BELOW-GRADE TANK CLOSURE DOCUMENTATION FOR THE RHODA ABRAMS #2 WELL SITE, SAN JUAN COUNTY, NEW MEXICO

Dear Ms. Harrington,

Attached please find the field notes and analytical results for below-grade tank (BGT) closure activities performed at the Rhoda Abrams #2 well site located in Section 5, Township 30 North, Range 11 West, San Juan County, New Mexico. Prior to Envirotech's arrival on February 22, 2011, the BGT had been removed. One (1) five (5)-point composite sample was collected from beneath the former BGT. The sample was analyzed in the field for total petroleum hydrocarbons (TPH) using USEPA Method 418.1, for organic vapors using a photoionization detector (PID), and for chlorides. Additionally, the sample was placed into a four (4)-ounce glass jar, capped headspace free, and transported on ice, under chain of custody, to Envirotech's Analytical Laboratory to be analyzed for TPH using USEPA Method 8015, for benzene and BTEX using USEPA Method 8021 and for total chlorides using USEPA Method 4500. The sample returned results below the regulatory standards for benzene, BTEX and chlorides but above the regulatory standard of 100 parts per million (ppm) TPH using USEPA Method 418.1, confirming a release did occur.

A brief site assessment was conducted and the regulatory standards were determined to be 1,000 ppm TPH and 100 ppm organic vapors due to horizontal distance to surface water greater than 1,000 feet and depth to groundwater between 50 feet and 99 feet, pursuant to New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Spills, Leaks, and Releases. The sample from beneath the former BGT returned results below the regulatory standards for TPH using USEPA Method 8015; see attached ***Analytical Results***. Envirotech, Inc. recommends no further action in regards to this incident.

We appreciate the opportunity to be of service. If you have any questions or require additional information, please contact our office at (505) 632-0615.

Respectfully submitted,
ENVIROTECH, INC.

Evan Crawford
Environmental Field Technician
ecrawford@envirotech-inc.com

Enclosures: Field Notes
Analytical Results

Cc: Client File 96052

PAGE NO: 1 OF 1

DATE STARTED: 2/22/11

DATE FINISHED: 2/22/11

ENVIROTECH INC

ENVIRONMENTAL SCIENTISTS & ENGINEERS
5796 U.S. HIGHWAY 64 - 3014
FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615

ENVIRONMENTAL SPECIALIST: EHC BWN

LAT: 36.843617

LONG: -108.083381

FIELD REPORT: BGT / PIT CLOSURE VERIFICATION

LOCATION: NAME: Rhoda Abrams WELL #: 2 TEMP PIT: PERMANENT PIT: BGT: ✓

LEGAL ADD: UNIT: H SEC: 5 TWP: 30N RNG: 11W PM: NM

QTR/FOOTAGE: 960' E 1795' N CNTY: San Juan ST: New mexico

EXCAVATION APPROX: — FT. X — FT. X — FT. DEEP CUBIC YARDAGE: —

DISPOSAL FACILITY: — REMEDIATION METHOD: —

LAND OWNER: Private API: 3004509921 BGT / PIT VOLUME: —

CONSTRUCTION MATERIAL: — DOUBLE-WALLED, WITH LEAK DETECTION: —

LOCATION APPROXIMATELY: 85 FT. 75° FROM WELLHEAD

DEPTH TO GROUNDWATER: ~~+20~~ 60

__ TEMPORARY PIT - GROUNDWATER 50-100 FEET DEEP

BENZENE ≤ 0.2 mg/kg, BTEX ≤ 50 mg/kg, GRO & DRO FRACTION (8015) ≤ 500 mg/kg, TPH (418.1) ≤ 2500 mg/kg, CHLORIDES ≤ 500 mg/kg

__ TEMPORARY PIT - GROUNDWATER ≥100 FEET DEEP

BENZENE ≤ 0.2 mg/kg, BTEX ≤ 50 mg/kg, GRO & DRO FRACTION (8015) ≤ 500 mg/kg, TPH (418.1) ≤ 2500 mg/kg, CHLORIDES ≤ 1000 mg/kg

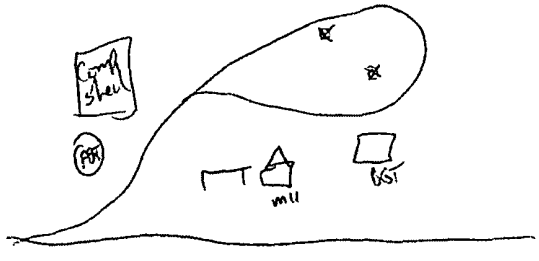
X PERMANENT PIT OR BGT

BENZENE ≤ 0.2 mg/kg, BTEX ≤ 50 mg/kg, TPH (418.1) ≤ 100 mg/kg, CHLORIDES ≤ 250 mg/kg

FIELD 418.1 ANALYSIS

TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (mg/kg)
13:15	200 STD		-	-	-	202	
13:30	①	1	5	20	4	313	1252
		2					
		3					
		4					
		5					
		6					

PERIMETER



FIELD CHLORIDES RESULTS

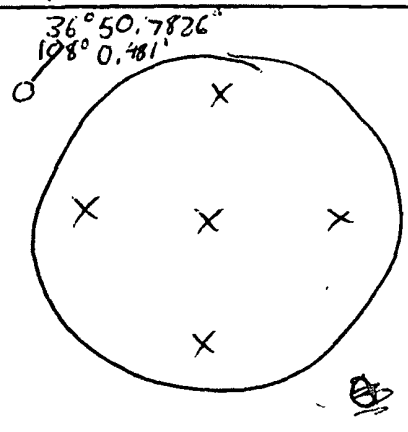
28

SAMPLE ID	READING	CALC. (mg/kg)
①	2.4	82

PID RESULTS

SAMPLE ID	RESULTS (mg/kg)
BGT ①	39.2

PROFILE



LAB SAMPLES

SAMPLE ID	ANALYSIS	RESULTS
	BENZENE	
	BTEX	
	GRO & DRO	
	CHLORIDES	

NOTES: Collected 1 4oz BGT Composite for Lab

WORKORDER # WHO ORDERED

Client: ConocoPhillips

envirotech
(505) 632-0615 (800) 362-1879
5796 U.S. Hwy 64, Farmington, NM 87401

Location No: 96052
C.O.C. No: 1898

FIELD REPORT: SPILL CLOSURE VERIFICATION

PAGE NO: 1 OF 1
DATE STARTED: 2/22/11
DATE FINISHED: 2/22/11
ENVIRONMENTAL SPECIALIST: EHC / BWW

LOCATION: NAME: Rhoda Abrams WELL #: 2
QUAD/UNIT: H SEC: 5 TWP: 30N RNG: 11W PM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: 960' E 1795' N CONTRACTOR: —

EXCAVATION APPROX: — FT. X — FT. X — FT. DEEP CUBIC YARDAGE:
DISPOSAL FACILITY: — REMEDIATION METHOD: —
LAND USE: Private LEASE: — LAND OWNER: —
CAUSE OF RELEASE: BGT overflow MATERIAL RELEASED: Condensate

SPILL LOCATED APPROXIMATELY: 85 FT. 75° FROM WH
DEPTH TO GROUNDWATER: ~~+200~~ NEAREST WATER SOURCE: ~~>1000 feet~~ NEAREST SURFACE WATER: 1600'
NMOCD RANKING SCORE: ~~0~~ 10 NMOCD TPH CLOSURE STD: ~~5000~~ PPM
1000
SOIL AND EXCAVATION DESCRIPTION:

SAMPLE DESCRIPITION	TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
200 STD	13:5	—	—	—	—	—	202	
BGT Composite	13:30	1		5	20	4	~~213~~	1252

SPILL PERIMETER

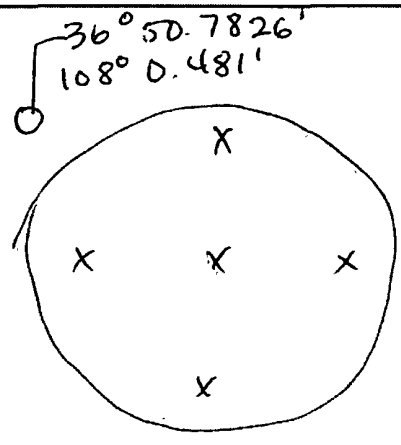
OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1	39.2
Chlorides	
1	2-9/82

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
1	8015	14:50
	8021	14:50
	Cl-	14:50

SPILL PROFILE



TRAVEL NOTES: CALLED OUT: ONSITE:

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Field Chloride

Client:	ConocoPhillips	Project #:	96052-1898
Sample No.:	1	Date Reported:	3/1/2011
Sample ID:	BGT Composite	Date Sampled:	2/22/2011
Sample Matrix:	Soil	Date Analyzed:	2/22/2011
Preservative:	Cool	Analysis Needed:	Chloride
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Field Chloride	**82**	**28.0**

ND = Parameter not detected at the stated detection limit.

References: "Standard Methods for the Examination of Water and Wastewater", 18th ed., 1992
Hach Company Quantab Titrators for Chloride

Comments: **Rhoda Abrams #2**

Analyst

Evan Crawford
Printed

Review

Robyn Jones, EIT
Printed

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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	ConocoPhillips	Project #:	96052-1898
Sample No.:	1	Date Reported:	3/1/2011
Sample ID:	BGT Composite	Date Sampled:	2/22/2011
Sample Matrix:	Soil	Date Analyzed:	2/22/2011
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**1,250**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Rhoda Abrams #2**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Evan Crawford
Printed

Review

Robyn Jones, EIT
Printed

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CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 22-Feb-11

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	200	202
	500	
	1000	

The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.

Analyst — Date: 3/1/2011

Evan Crawford
Print Name

Review — Date: 3/1/2011

Robyn Jones, EIT
Print Name

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Analytical Laboratory

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	ConocoPhillips	Project #:	96052-1898
Sample ID:	BGT Composite	Date Reported:	02-23-11
Laboratory Number:	57283	Date Sampled:	02-22-11
Chain of Custody No:	11197	Date Received:	02-22-11
Sample Matrix:	Soil	Date Extracted:	02-22-11
Preservative:	Cool	Date Analyzed:	02-23-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**35.3**	**0.2**
Diesel Range (C10 - C28)	**76.4**	**0.1**
Total Petroleum Hydrocarbons	**112**	

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Rhoda Abrams #2**

Analyst

Review

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Analytical Laboratory

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	02-23-11 QA/QC	Date Reported:	02-23-11
Laboratory Number:	57281	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-23-11
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept Range
Gasoline Range C5 - C10	02-23-11	9.9960E+002	1.0000E+003	**0.04%**	**0 - 15%**
Diesel Range C10 - C28	02-23-11	9.9960E+002	1.0000E+003	**0.04%**	**0 - 15%**

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	**ND**	**0.2**
Diesel Range C10 - C28	**ND**	**0.1**

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	**21.3**	**20.9**	**1.9%**	**0 - 30%**
Diesel Range C10 - C28	**0.4**	**0.4**	**0.0%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	**21.3**	**250**	**279**	**103%**	**75 - 125%**
Diesel Range C10 - C28	**0.4**	**250**	**259**	**104%**	**75 - 125%**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **QA/QC for Samples 57281-57286**

Analyst

Review

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	Project #:	96052-1898
Sample ID:	BGT Composite	Date Reported:	02-23-11
Laboratory Number:	57283	Date Sampled:	02-22-11
Chain of Custody:	11197	Date Received:	02-22-11
Sample Matrix:	Soil	Date Analyzed:	02-23-11
Preservative:	Cool	Date Extracted:	02-22-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**0.9**
Toluene	**75.3**	**1.0**
Ethylbenzene	**17.1**	**1.0**
p,m-Xylene	**545**	**1.2**
o-Xylene	**96.7**	**0.9**
Total BTEX	**734**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**98.3 %**
	1,4-difluorobenzene	**86.3 %**
	Bromochlorobenzene	**88.4 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Rhoda Abrams #2**

Analyst

Review

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	0223BBLK QA/QC	Date Reported:	02-23-11
Laboratory Number:	57281	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-23-11
Condition:	N/A	Analysis:	BTEX
		Dilution:	10

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
Benzene	1.3728E+005	1.3755E+005	0.2%	ND	0.1
Toluene	1.4394E+005	1.4422E+005	0.2%	ND	0.1
Ethylbenzene	1.2588E+005	1.2613E+005	0.2%	ND	0.1
p,m-Xylene	2.9092E+005	2.9150E+005	0.2%	ND	0.1
o-Xylene	1.1949E+005	1.1973E+005	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	2.9	3.1	6.9%	0 - 30%	0.9
Toluene	77.3	73.0	5.6%	0 - 30%	1.0
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.0
p,m-Xylene	118	116	1.4%	0 - 30%	1.2
o-Xylene	7.8	8.6	10.3%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	2.9	500	493	98.0%	39 - 150
Toluene	77.3	500	564	97.6%	46 - 148
Ethylbenzene	ND	500	525	105%	32 - 160
p,m-Xylene	118	1000	1,190	106%	46 - 148
o-Xylene	7.8	500	496	97.6%	46 - 148

ND - Parameter not detected at the stated detection limit.

Dilution: Spike and spiked sample concentration represent a dilution proportional to sample dilution.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **QA/QC for Samples 57280-57288**

Analyst

Review

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Analytical Laboratory

Chloride

Client:	ConocoPhillips	Project #:	96052-1898
Sample ID:	BGT Composite	Date Reported:	02/23/11
Lab ID#:	57283	Date Sampled:	02/22/11
Sample Matrix:	Soil	Date Received:	02/22/11
Preservative:	Cool	Date Analyzed:	02/23/11
Condition:	Intact	Chain of Custody:	11197

Parameter	Concentration (mg/Kg)
Total Chloride	**50**

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Rhoda Abrams #2**

Analyst

Review

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CHAIN OF CUSTODY RECORD RUSH 11197

Client: Conoco Phillips	Project Name / Location: Rhoda Abrams #2
Client Address:	Sampler Name: Barian Williamson
Client Phone No.:	Client No.: 96052-1898

ANALYSIS / PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative $HgCl_2$	Preservative HCl	Preservative Cool	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE				Sample Cool	Sample Intact
BGT Composite	2/22/11	13:30	57283	(Soil) Sludge Solid Aqueous	1-4oz				X	X								X				Y	Y
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			
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				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	2/22/11	14:50	Randi Vaquera	2/22/11	14:50
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

RUSH

RUSH

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Analytical Laboratory

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