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-144
June 1, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☒ No ☐
Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

Operator: BP AMERICA PROD. CO. Telephone: (505)-326-9200 e-mail address:
Address: 200 ENERGY COURT. FARMINGTON. NM 87410
Facility or well name: WHITE GC #1 API #: 30-045- 07982 U/L or Qtr/Qtr O Sec 22 T 29N R 13W
County: SAN JUAN Latitude 36.70818 Longitude 108.18962 NAD: 1927 ☐ 1983 ☒ Surface Owner Federal ☐ State ☒ Private ☐ Indian ☐

Pit	**Below-grade tank**
Type: Drilling ☐ Production ☒ Disposal ☐ SEPARATOR Workover ☐ Emergency ☐ Lined ☒ Unlined ☐ STEEL TANK Liner type: Synthetic ☐ Thickness _____mil Clay ☐ Pit Volume _____bbl	Volume: _____bbl Type of fluid: Construction material: N/A Double-walled, with leak detection? Yes ☐ If not, explain why not.

Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet or more, but less than 100 feet *100 feet or more*	(20 points) (10 points) (0 points) **20**
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes No	(20 points) (0 points) **0**
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) (0 points) **10**
	Ranking Score (Total Points)	**30**

If this is a pit closure: (1) attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if your are burying in place) onsite ☒ offsite ☐ If offsite, name of facility_____. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☒ Yes ☐ If yes, show depth below ground surface _____ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments PIT LOCATED APPROXIMATELY 153 FT. N52E FROM WELL HEAD.
PIT EXCAVATION: WIDTH NA ft., LENGTH NA ft., DEPTH NA ft. .
PIT REMEDIATION: CLOSE AS IS: ☐, LANDFARM: ☐, COMPOST: ☐, STOCKPILE: ☐, OTHER ☒ (explain)
Cubic yards: NA
INVESTIGATE GROUNDWATER IMPACT.

RCVD JUN13'07
OIL CONS. DIV.
DIST. 3

I hereby certify that the information above is true and complete to the best of my knowledge and belief. **I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐, or an alternative OCD-approved plan ☒.**

Date: **12/01/06**

PrintedName/Title **Jeff Blagg – P.E. # 11607** Signature Jeffrey C. Blagg

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations

Approval:
Printed Name/Title Deputy Oil & Gas Inspector, District #3 Signature Date: AUG 10 2007

3004507982

S

CLIENT: BP	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO B0544 C.O.C. NO 9710

FIELD REPORT: CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION NAME WHITE GC WELL # 1 PIT SEP.
QUAD/UNIT: O SEC: 22 TWP: 29N RNG: 13W PM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: 1190'S/1490'E SWSE CONTRACTOR FLINT

DATE STARTED 1/3/02
DATE FINISHED
ENVIRONMENTAL SPECIALIST NV

EXCAVATION APPROX. NA FT. x NA FT x NA FT DEEP CUBIC YARDAGE: NA
DISPOSAL FACILITY: ON-SITE REMEDIATION METHOD:
LAND USE: RANGE-BLM LEASE: FEE FORMATION: DK

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 153 FT. N52E FROM WELLHEAD
DEPTH TO GROUNDWATER: <50' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER <1000'
NMOCD RANKING SCORE: 30 NMOCD TPH CLOSURE STD: 100 PPM

CHECK ONE
✓ PIT ABANDONED
___ STEEL TANK INSTALLED
___ FIBERGLASS TANK INSTALLED

OVM CALIB. READ. 49.8 ppm
OVM CALIB. GAS = 100 ppm RF = 0.52
TIME: 9:00 (am)/pm DATE: 1/3/02

SOIL AND EXCAVATION DESCRIPTION:

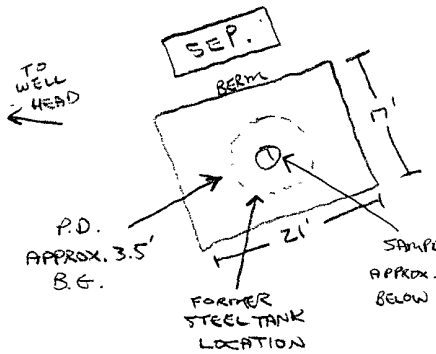
SOIL TYPE: (SAND) / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER GRAVEL
SOIL COLOR: DUSKY BROWN
COHESION (ALL OTHERS): (NON COHESIVE) / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE
CONSISTENCY (NON COHESIVE SOILS): LOOSE / (FIRM) / DENSE / VERY DENSE
~~PLASTICITY (CLAYS)~~: NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC
~~DENSITY (COHESIVE CLAYS & SILTS)~~: SOFT / FIRM / STIFF / VERY STIFF / HARD
MOISTURE: DRY / (SLIGHTLY MOIST) / MOIST / WET / SATURATED / SUPER SATURATED
DISCOLORATION/STAINING OBSERVED: (YES) / NO EXPLANATION - SAMPLE DID NOT RESSEMBLE SURROUNDING SOIL
HC ODOR DETECTED: (YES) / NO EXPLANATION - SLIGHT ODOR IN OVM SAMPLE
SAMPLE TYPE: (GRAB) / COMPOSITE - # OF PTS. —
ADDITIONAL COMMENTS: STEEL TANK REMOVED PRIOR TO SAMPLING. GRAVEL BASE BELOW TANK. COLLECTED SAMPLE USING HAND SHOVEL. SITE NEEDS TO BE REINVESTIGATED FOR GW IMPACT (1/7/02) RV

FIELD 418.1 CALCULATIONS

SAMP. TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

SCALE
0 FT

PIT PERIMETER



P D = PIT DEPRESSION; B.G. = BELOW GRADE
T.H. = TEST HOLE

OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 5'	43.1
2 @	
3 @	
4 @	
5 @	

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
(1) @ 5'	TPH (8015B)	1538
TPH FAILED		

PIT PROFILE

NOT APPLICABLE

TRAVEL NOTES: CALLOUT: 1/3/02 ONSITE: 1/3/02

revised: 08/17/01

bel1005A.skd

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	1 @ 5'	Date Reported:	01-07-02
Laboratory Number:	21762	Date Sampled:	01-03-02
Chain of Custody No:	9710	Date Received:	01-04-02
Sample Matrix:	Soil	Date Extracted:	01-07-02
Preservative:	Cool	Date Analyzed:	01-07-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**83.0**	**0.2**
Diesel Range (C10 - C28)	**521**	**0.1**
Total Petroleum Hydrocarbons	**604**	**0.2**

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: **White GC #1 Separator Pit Grab Sample.**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

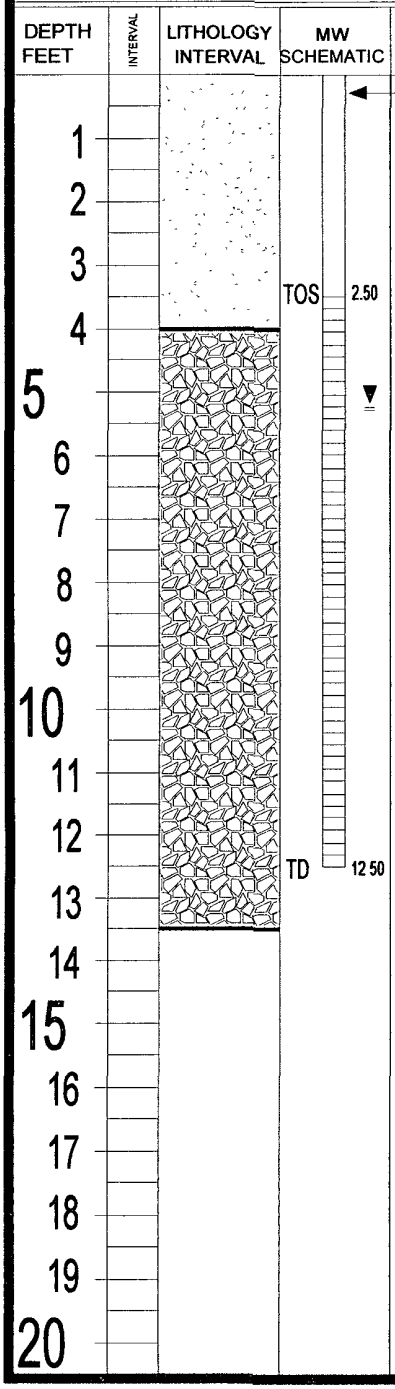
BLAGG ENGINEERING, INC.
P.O. BOX 87
BLOOMFIELD, NM 87413
(505) 632-1199

MW #2

BORE / TEST HOLE REPORT

BORING #.....	BH-1
MW #.....	2
PAGE #.....	1
DATE STARTED	12/18/06
DATE FINISHED	12/18/06
OPERATOR.....	DP
PREPARED BY	NJV

CLIENT: BP AMERICA PRODUCTION CO.
LOCATION NAME: SAMMONS GC F #1 UNIT A, SEC. 18, T29N, R9W
CONTRACTOR: BLAGG ENGINEERING, INC. / ENVIROTECH, INC.
EQUIPMENT USED: MOBILE DRILL RIG (CME 75)
BORING LOCATION: 155 FT., N52E FROM WELL HEAD.



FIELD CLASSIFICATION AND REMARKS

GROUND SURFACE

TOP OF CASING APPROX. 2.50 FEET ABOVE GRADE.

PALE YELLOWISH BROWN SAND, NON COHESIVE, SLIGHTLY MOIST, LOOSE TO FIRM, NO APPARENT HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (0.0 - 4.0 FT. BELOW GRADE).

DEPTH TO WATER APPROX. 5.27 FT. FROM GROUND SURFACE MEASURED ON 12/27/06.

DARK YELLOWISH BROWN SAND AND GRAVEL, NON COHESIVE, WET TO SATURATED, LOOSE TO FIRM, NO APPARENT HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (4.0 - 13.5 FT. BELOW GRADE).

NOTES:
- SAND.
- SAND AND GRAVEL.

TOS - Top of screen of monitor well.
TD - Total depth/bottom extent of monitor well.

Monitor well consist of 2 inch PVC piping - casing from 2.50 ft. above grade to 2.50 ft. below grade, 0.010 slotted screen between 2.50 to 12.50 ft. below grade, sand packed annular to 2.0 ft. below grade, bentonite grout between 0.0 to 2.0 ft. below grade. Well protector encompassing above grade casing and secured with padlock.

DRAWING WHITE GC 1 MW2-BH1. SKF | DATE: 12/18/06 | DWN BY: NJV

BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY # : N / A & 14687

WHITE GC # 1 - SEP. PIT
UNIT O, SEC. 22, T29N, R13W

LABORATORY (S) USED : HALL ENVIRONMENTAL
ENVIROTECH

Date : **December 27, 2006**

SAMPLER : N J V

Filename : **12-27-06.WK4**

PROJECT MANAGER : N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
MW - 2	-	-	7.77	15.00	1135	7.05	4,100	10.6	3.75
					INSTRUMENT CALIBRATIONS =	7.00	2,800		
					DATE & TIME =	12/27/06	0900		

NOTES : Volume of water purged from well prior to sampling: V = pi X r2 X h X 7.48 gal./ft3) X 3 (wellbores).
(i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 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 ".

Excellent recovery . Light brownish tint in appearance with no apparent hydrocarbon odor detected physically within purged water . Collected samples for BTEX and major anions / cations analyses .

Top of casing MW # 2 ~ 2.50 ft. above grade .

Hall Environmental Analysis Laboratory, Inc.

Date: *02-Jan-07*

CLIENT:	Blagg Engineering	**Client Sample ID:**	MW #2
Lab Order:	0612287	**Collection Date:**	12/27/2006 11:35:00 AM
Project:	WHITE GC #1	**Date Received:**	12/28/2006
Lab ID:	0612287-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **LMM**
Benzene	ND	1.0		µg/L	1	12/28/2006 2:48:54 PM
Toluene	ND	1.0		µg/L	1	12/28/2006 2:48:54 PM
Ethylbenzene	ND	1.0		µg/L	1	12/28/2006 2:48:54 PM
Xylenes, Total	ND	3.0		µg/L	1	12/28/2006 2:48:54 PM
Surr: 4-Bromofluorobenzene	80.0	70.2-105		%REC	1	12/28/2006 2:48:54 PM

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	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	MW #2	Date Reported:	12-29-06
Laboratory Number:	39599	Date Sampled:	12-27-06
Chain of Custody:	14687	Date Received:	12-27-06
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	12-28-06
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**6.77**	s.u.		
Conductivity @ 25° C	**7,190**	umhos/cm		
Total Dissolved Solids @ 180C	**4,670**	mg/L		
Total Dissolved Solids (Calc)	**4,542**	mg/L		
SAR	**6.3**	ratio		
Total Alkalinity as CaCO3	**890**	mg/L		
Total Hardness as CaCO3	**2,100**	mg/L		
Bicarbonate as HCO3	**890**	mg/L	14.59	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**0.5**	mg/L	0.01	meq/L
Nitrite Nitrogen	**0.021**	mg/L	0.00	meq/L
Chloride	**392**	mg/L	11.06	meq/L
Fluoride	**1.66**	mg/L	0.09	meq/L
Phosphate	**0.10**	mg/L	0.00	meq/L
Sulfate	**2,190**	mg/L	45.60	meq/L
Iron	**6.14**	mg/L	0.22	meq/L
Calcium	**584**	mg/L	29.14	meq/L
Magnesium	**157**	mg/L	12.92	meq/L
Potassium	**9.60**	mg/L	0.25	meq/L
Sodium	**667**	mg/L	29.01	meq/L
Cations			71.32	meq/L
Anions			71.34	meq/L
Cation/Anion Difference			**0.03%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **White GC #1 Grab Sample**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

80544

District I
P O. Box 1980, Hobbs, NM
District II
P O. Drawer DD, Artesia, NM 88211
District III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

SUBMIT 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 COPY TO SANTA FE OFFICE

PIT REMEDIATION AND CLOSURE REPORT

Operator: Amoco Production Company **Telephone:** (505) - 326-9200

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: WHITE GC #1
Well Name

Location: Unit or Qtr/Qtr Sec O Sec 22 T 29N R 13W County SAN JUAN

Pit Type: Separator ___ Dehydrator ___ Other BLOW

Land Type: BLM ___, State ___, Fee ___, Other COM. AGMT.

Pit Location: (Attach diagram)
Pit dimensions: length 59', width 73', depth 6'
Reference: wellhead ___, other ___
Footage from reference: 220'
Direction from reference: 5 Degrees X East North ___ of ___ West South X

Depth To Ground Water: (Vertical distance from contaminants to seasonal high water elevation of ground water)	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 Points)	20
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources)	Yes (20 points) No (0 points)	0
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet (20 points) 200 feet to 1000 feet (10 points) Greater than 1000 feet (0 points)	10
	RANKING SCORE (TOTAL POINTS):	30

B0544 BLOW PIT

Date Remediation Started: _____ **Date Completed:** 4/28/98

Remediation Method: (Check all appropriate sections) Excavation X Approx. cubic yards 1,000

Landfarmed X Insitu Bioremediation ___

Other STOCKPILED

Remediation Location: (ie. landfarmed onsite, name and location of offsite facility) Onsite ___ Offsite X AMOCO COMPOST FACILITY - CROUCH MESA

General Description Of Remedial Action: Excavation. GROUNDWATER IMPACT.

Ground Water Encountered: No ___ Yes X Depth 4'

Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths)

Sample location see Attached Documents

Sample depth 4' (GROUNDWATER IN PIT AREA)

Sample date _____ Sample time 1410

Sample Results

Benzene (~~ppm~~) 1.7 ppb TOLUENE 6.9 ppb ETHYLBENZENE 4.1 ppb

XYLENES 48.0 ppb

Total BTEX (ppm) _____

Field headspace (ppm) —

TPH —

Ground Water Sample: Yes X No ___ (If yes, attach sample results)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 4/28/98

SIGNATURE B J Shaw

PRINTED NAME AND TITLE Buddy D. Shaw Environmental Coordinator

5743

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location	ANALYSIS/PARAMETERS
BLAGG / AMOCO	BLOW PIT WHITE GC #1	

Sampler. (Signature)	Chain of Custody Tape No.
Nelson Velez	04034-10

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No of Containers	BTEX (8021)	ANION/ CATION					Remarks
												ANION/ CATIONS
												PRESERV. - COOL
PW1 @ GW (4')	4/16/98	1410	D108	WATER	3	✓	✓					
												BTEX SAMPLES
NGTH @ EW (4')	4/16/98	1355	D109	WATER	3	✓	✓					PRESERV. - $HgCl_2$
												& COOL
				SAMPLES RECEIVED COOL & INTACT								CAB

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Nelson Velez	4/16/98	1512	C. Jack Bollins	4/16/98	1512
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.
5796 U.S. Highway 64-3014
Farmington, New Mexico 87401
(505) 632-0615

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location	ANALYSIS/PARAMETERS
BLAGG/ AMOCO	BLOW PIT WHITE GC #1	

Sampler. (Signature)	Chain of Custody Tape No.
Nelson Velez	04034-10

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	ANION/ CATION	BTEX (8021)					Remarks
												ANION/ CATION
												PRESERV. - COOL
DGTH-GW(4')	4/24/98	1200	D170	WATER	3	✓	✓					BTEX PRESERV. -
												$HgCl_2$ & COOL
				SAMPLES RECEIVED COOL & INTACT								

Relinquished by. (Signature)	Date	Time	Received by: (Signature)	Date	Time
Nelson Velez	4/24/98	1235	Dawn L. Quinn	4.24.98	1235
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by. (Signature)			Received by: (Signature)		

ENVIROTECH INC.
5796 U.S. Highway 64-3014
Farmington, New Mexico 87401
(505) 632-0615

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS
QUALITY ASSURANCE REPORT

Client:	N/A	Project #:	N/A
Sample ID:	04-17-BTEX QA/QC	Date Reported:	04-17-98
Laboratory Number:	D104	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-17-98
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
Benzene	4.8757E-05	5.0842E-05	4.3%	ND	0.2
Toluene	5.4539E-05	5.6517E-05	3.6%	ND	0.2
Ethylbenzene	6.1355E-05	6.3779E-05	4.0%	ND	0.2
p,m-Xylene	4.9248E-05	5.0771E-05	3.1%	ND	0.2
o-Xylene	5.8524E-05	6.0899E-05	4.1%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	9.5	9.4	1.1%	0 - 30%	8.8
Toluene	101	100	1.7%	0 - 30%	8.4
Ethylbenzene	684	673	1.5%	0 - 30%	7.6
p,m-Xylene	3,690	3,640	1.4%	0 - 30%	10.8
o-Xylene	795	788	0.8%	0 - 30%	5.2

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	9.5	50.0	59.2	97%	39 - 150
Toluene	101	50.0	151	100%	46 - 148
Ethylbenzene	684	50.0	734	100%	32 - 160
p,m-Xylene	3,690	100.0	3,790	100%	46 - 148
o-Xylene	795	50.0	845	100%	46 - 148

ND - Parameter not detected at the stated detection limit.

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 D104 - D106 and D108 - D109.**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS
QUALITY ASSURANCE REPORT

Client:	N/A	Project #:	N/A
Sample ID:	04-27-PM BTEX QA/QC	Date Reported:	04-28-98
Laboratory Number:	D130	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-27-98
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
Benzene	1.1478E-02	1.1490E-02	0.1%	ND	0.2
Toluene	1.2473E-02	1.2535E-02	0.5%	ND	0.2
Ethylbenzene	2 5410E-02	2.5615E-02	0.8%	ND	0.2
p,m-Xylene	2.1175E-02	2.1389E-02	1.0%	ND	0.2
o-Xylene	1.8658E-02	1 8827E-02	0.9%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	6.7	6.5	3.0%	0 - 30%	17.5
Toluene	19.2	18.5	3.6%	0 - 30%	16.7
Ethylbenzene	37.3	36.0	3.5%	0 - 30%	15.2
p,m-Xylene	88.4	85.5	3.3%	0 - 30%	21.6
o-Xylene	112	109	2.8%	0 - 30%	10.4

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	6.7	50.0	56.4	99%	39 - 150
Toluene	19.2	50.0	68.9	100%	46 - 148
Ethylbenzene	37.3	50.0	87.0	100%	32 - 160
p,m-Xylene	88.4	100.0	188	100%	46 - 148
o-Xylene	112	50.0	160	99%	46 - 148

ND - Parameter not detected at the stated detection limit.

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 D130, D166 - D168 and D170.**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

CHAIN OF CUSTODY RECORD

09710

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
Blagg / BP	SEPARATOR PIT WHITE GC #1	

Sampler:	Client No.
NJV	94034-010

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH (8015B)						Remarks
												PRESERVED COOL GRAB SAMPLE
① @ 5'	1/3/02	1538	21762	SOIL	1	✓						

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Nelson Velez	1/4/02	0749	Vera L. Espinoza	1-4-02	749
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	01-07-TPH QA/QC	Date Reported:	01-07-02
Laboratory Number:	21762	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-07-02
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	01-07-02	2.5028E-002	2.5003E-002	**0.10%**	**0 - 15%**
Diesel Range C10 - C28	01-07-02	1.2696E-002	1.2671E-002	**0.20%**	**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**
Total Petroleum Hydrocarbons	**ND**	**0.2**

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	**83.0**	**82.6**	**0.5%**	**0 - 30%**
Diesel Range C10 - C28	**521**	**519**	**0.3%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**83.0**	**250**	**332**	**99.8%**	**75 - 125%**
Diesel Range C10 - C28	**521**	**250**	**769**	**99.8%**	**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 21762.**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

CHAIN-OF-CUSTODY RECORD

QA / QC Package:
Std ☐ Level 4 ☐
Other: _____

Client: BLAGG ENER. / BP AMERICA

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

Phone #: 632-1199

Fax #:

Project Name: WHITE GC #1

Project #:

Project Manager: NV

Sampler: NV

Sample Temperature: 2°

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative			HEAL No.
					$HgCl_2$	HNO_3		0612287
12/27/06	1135	WATER	MW #2	2-40ml	✓			-1

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505 345.4107
www.hallenvironmental.com

ANALYSIS REQUEST

(BTEX) + MTBE + TMB's (8021B)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO_3, NO_2, PO_4, SO_4)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles or Headspace (Y or N)
✓																

Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)	
12/27/06	1145	Melon Vel		
Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)	
				12-28-06 @ 900

Remarks:

14687

CHAIN OF CUSTODY RECORD

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
BLAGG / BP	WHITE GC #1	
Sampler: NV	Client No. 94034-010	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers		MAJOR ANIONS/ CATIONS					Remarks
												PRESERVED COOL
												GRAB SAMPLE
MW #2	12/27/06	1135	39599	WATER	1		✓					

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Nelson Velez	12/27/06	12:12	Dawn E. Phillips	12/27/06	12:12
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	X		
Cool - Ice/Blue Ice	X		

QA/QC SUMMARY REPORT

Client: Blagg Engineering
Project: WHITE GC #1 **Work Order:** 0612287

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8021									
Sample ID: 5ML RB		*MBLK*			Batch ID: **R21975**		Analysis Date:	12/28/2006 9:42:29 AM	
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	3.0						
Sample ID: 100NG BTEX LCS		*LCS*			Batch ID: **R21975**		Analysis Date:	12/28/2006 11:30:42 AM	
Benzene	18.08	µg/L	1.0	90.4	85.9	113			
Toluene	18.48	µg/L	1.0	92.4	86.4	113			
Ethylbenzene	18.09	µg/L	1.0	90.4	83.5	118			
Xylenes, Total	55.05	µg/L	3.0	91.8	83.4	122			
Sample ID: 100NG BTEX LCSD		*LCSD*			Batch ID: **R21975**		Analysis Date:	12/28/2006 3:51:55 PM	
Benzene	17.77	µg/L	1.0	88.8	85.9	113	1.72	27	
Toluene	17.59	µg/L	1.0	87.9	86.4	113	4.94	19	
Ethylbenzene	17.33	µg/L	1.0	86.7	83.5	118	4.28	10	
Xylenes, Total	52.35	µg/L	3.0	87.3	83.4	122	5.02	13	

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: 12/28/2006

Work Order Number 0612287 | Received by GLS

Checklist completed by B Schleppe (Signature) 12-28-06 (Date)

Matrix | Carrier name Greyhound

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	

Container/Temp Blank temperature? **2°** *4° C ± 2 Acceptable* If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____