

Dennis B. Trust
DEPUTY OIL & GAS INSPECTOR

JICARILLA APACHE TRIBE
ENVIRONMENTAL PROTECTION OFFICE
P.O. BOX 507
DULCE, NEW MEXICO 87528

BE 469

SUBMIT 1 COPY TO
NATURAL RESOURCE DEPT.
AND OIL & GAS ADMINISTRATION

MAR 19 1997

Approved

PIT REMEDIATION AND CLOSURE REPORT

Operator: BILCO Telephone: 505-325-3404
Address: P.O. Box 3038, FARMINGTON, NM 87499
Facility or Well Name: BOULDER #6
Location: Unit or Qtr/Qtr Sec N 1/4 SW 1/4 Sec 26 T 28N R 1W County RIO ARriba
Pit Type: Separator X Dehydrator Other + TANK
Land Type: RANGE

Pit Location: Pit dimensions: length 27', width 18', depth 5
(Attach diagram) Reference: wellhead ✓, other
Footage from reference: 75'
Direction from reference: N 5 Degrees X East of North
 West of South

Depth To Groundwater: (Vertical distance from contaminants to seasonal high water elevation of groundwater)	Less than 50 feet	(20 points)	<u>0</u>
	50 feet to 99 feet	(10 points)	
	Greater than 100 feet	(0 points)	

Distance to an Ephemeral Stream (Downgradient dry wash greater than ten feet in width)	Less than 100 feet	(10 points)	<u>0</u>
	Greater than 100 feet	(0 points)	

Distance to Nearest Lake, Playa, or Watering Pond (Downgradient lakes, playas and livestock or wildlife watering ponds)	Less than 100 feet	(10 points)	<u>0</u>
	Greater than 100 feet	(0 points)	

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)	<u>0</u>
	No	(0 points)	

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Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 100 feet	(20 points)	<u>0</u>
	100 feet to 1000 feet	(10 points)	
	Greater than 1000 feet	(0 points)	

OIL CON. DIST. 3

RANKING SCORE (TOTAL POINTS): 0

BOULDER CO

SEP/TANK PIT

BE469

Date Remediation Started: 10-25-95 Date Completed: 10-31-96Remediation Method: Excavation ☒ Approx. cubic yards 90
(Check all appropriate sections) Landfarmed ☒ Insitu Bioremediation _____

Other _____

Remediation Location: Onsite ☒ Offsite _____
(i.e. landfarmed onsite, name and location of offsite facility)General Description of Remedial Action: ExcavationGroundwater Encountered: No ☒ Yes _____ Depth _____Final Pit: Sample location see Attached Documents
Closure Sampling: _____
(if multiple samples, attach sample results and diagram of sample locations and depths) Sample depth _____Sample date 10-31-96 Sample time 0900

Sample Results

Soil: Benzene	(ppm)	<u>ND</u>	Water: Benzene	(ppb)	<u>NA</u>
Total BTEX	(ppm)	<u>0.396</u>	Toluene	(ppb)	<u>NA</u>
Field Headspace	(ppm)	<u>220</u>	Ethylbenzene	(ppb)	<u>NA</u>
TPH	(ppm)	<u>0.9</u>	Total Xylenes	(ppb)	<u>NA</u>

Groundwater Sample: Yes _____ 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 Nov 11, 1996 PRINTED NAME JEFFREY C. BLAGESIGNATURE Jeffrey C. Blage AND TITLE NMAE # 11607

AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES ☒ NO _____ (REASON) _____SIGNED: Gabriel Juk DATE: 11/13/96

CLIENT: <u>Billco</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>8E469</u> C.O.C. NO: <u>4995</u>
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FIELD REPORT: CLOSURE VERIFICATION	PAGE No: <u>1</u> of <u>1</u>
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LOCATION: NAME: <u>BOULDER</u> WELL #: <u>6</u> PIT: <u>SEP/TANK</u> QUAD/UNIT: <u>N</u> SEC: <u>26</u> TWP: <u>28N</u> RNG: <u>1W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NA</u> QTR/FOOTAGE: <u>NE/4</u> <u>SW/4</u> CONTRACTOR: <u>Billco</u>	DATE STARTED: <u>10-25-96</u> DATE FINISHED: <u>10-31-96</u> ENVIRONMENTAL SPECIALIST: <u>JCB</u>
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EXCAVATION APPROX. <u>27</u> FT. x <u>18</u> FT. x <u>5</u> FT. DEEP.	CUBIC YARDAGE: <u>90</u>
DISPOSAL FACILITY: <u>ONSITE</u>	REMEDIATION METHOD: <u>LAND FARM</u>
LAND USE: <u>RANGE</u>	LEASE: <u>Jickman contract 6</u> FORMATION: _____

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>75'</u> FT. <u>N5°E</u> FROM WELLHEAD. DEPTH TO GROUNDWATER: <u>>100'</u> NEAREST WATER SOURCE: <u>>1000'</u> NEAREST SURFACE WATER: <u>>1000'</u> NMDCD RANKING SCORE: <u>0</u> NMDCD TPH CLOSURE STD: <u>5,000</u> PPM SOIL AND EXCAVATION DESCRIPTION: <u>DARK SILTY CLAY. STOCKPILED ON SITE.</u> <u>No odor or stain. water accumulated in base of pit</u> <u>From recent rains. FIBERGLASS TANK INSTALLED AT New Pit on West edge</u> <u>of Location.</u>
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SCALE

0 FT

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

PIT PERIMETER

OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1N@5'	0.7
2E@5'	140
3S@5'	220
4W@5'	92
5CP@5'	59

PIT PROFILE

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
5@5'	8015/8220	

TRAVEL NOTES: CALLOUT: 10-30-96 ONSITE: 10-31-96

CLIENT: BILCOBLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199LOCATION NO: 8E469C.O.C. NO: 4995

FIELD REPORT: CLOSURE VERIFICATION

PAGE No: 1 of 1LOCATION: NAME BOULDER WELL #: 60 PIT: SEP/TANK
QUAD/UNIT: N SEC: 26 TWP: 28N RNG: 1W PM: NM CNTY: RAST NA
QTR/FOOTAGE: NE/4 SW/4 CONTRACTOR: BilcoDATE STARTED: 10-25-96
DATE FINISHED: 10-31-96ENVIRONMENTAL
SPECIALIST: JCBEXCAVATION APPROX. 27 FT. x 18 FT. x 5 FT. DEEP. CUBIC YARDAGE: 90
DISPOSAL FACILITY: ONSITE REMEDIATION METHOD: LANDFILL
LAND USE: RANGE LEASE: TICARUA contract 6 FORMATION: _____FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 75' FT. N5°E FROM WELLHEAD.DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'NMCD BANKING SCORE 0 NMCD TPH CLOSURE STD: 5,000 PPM

SOIL AND EXCAVATION DESCRIPTION:

DARK SILTY CLAY. STOCKPILED ON SITE

No odor or stain. water accumulation in base of pit

From recent rains. FIBERGLASS TANK INSTALLED AT New Pit on West edge of Location.

CHECK ONE:

- ☒
- PIT ABANDONED
-
- ☐
- STEEL TANK INSTALLED
-
- ☐
- FIBERGLASS TANK INSTALLED

FIELD 418.1 CALCULATIONS

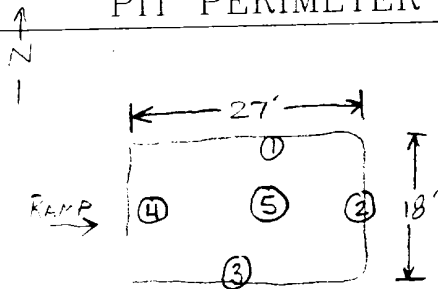
TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

SCALE



0 FT

PIT PERIMETER

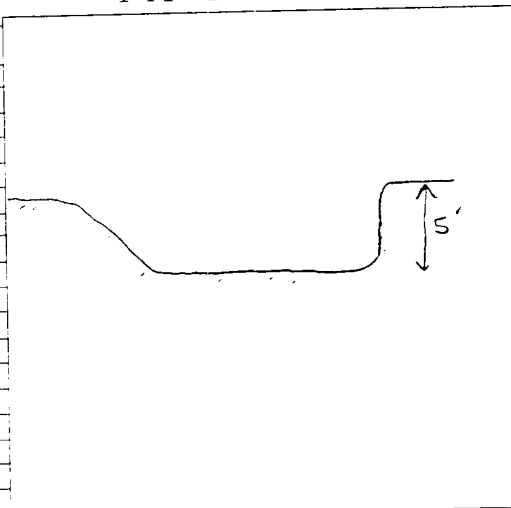
OVM
RESULTS

SAMPLE ID	FIELD HEADSPACE P/D (ppm)
1 N 05'	0.7
2 E 05'	140
3 S 05'	220
4 W 05'	92
5 C 05'	59

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
505'	8015/1020	

PIT PROFILE



TRAVEL NOTES:

CALLOUT: 10-30-96ONSITE: 10-31-96

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

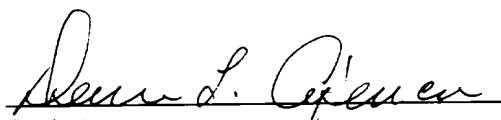
Client:	Blagg / Bilco	Project #:	04034
Sample ID:	S @ 5'	Date Reported:	11-05-96
Laboratory Number:	A726	Date Sampled:	10-31-96
Chain of Custody No:	4995	Date Received:	11-05-96
Sample Matrix:	Soil	Date Extracted:	11-05-96
Preservative:	Cool	Date Analyzed:	11-05-96
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

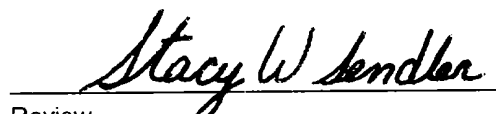
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.4	0.2
Diesel Range (C10 - C28)	0.5	0.1
Total Petroleum Hydrocarbons	0.9	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Comments: **Boulder 6.**


Analyst


Review

San Juan repro Form 57B-01

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

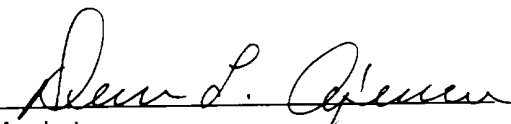
Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	11-05-96
Laboratory Number:	11-05-TPH.BLANK	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-05-96
Condition:	N/A	Analysis Requested:	TPH

Parameter	Concentration (mg/L)	Det. Limit (mg/L)
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Comments: QA/QC for sample A726.


Analyst


Review

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	11-05-96
Laboratory Number:	A726	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Analyzed:	11-05-96
Condition:	Cool and Intact	Analysis Requested:	TPH

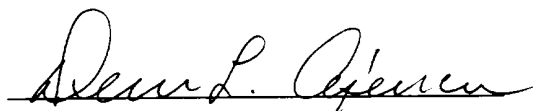
Parameter	Sample Result (mg/Kg)	Duplicate Result (mg/Kg)	Percent Difference
Gasoline Range (C5 - C10)	0.4	0.4	0.0%
Diesel Range (C10 - C28)	0.5	0.5	0.0%
Total Petroleum Hydrocarbons	0.9	0.9	0.0%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Max Difference
	Petroleum Hydrocarbons	30%

References: Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Comments: QA/QC for sample A726.


Analyst


Review

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	11-05-96
Laboratory Number:	A726	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TPH	Date Analyzed:	11-05-96
Condition:	N/A		

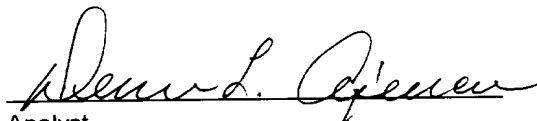
Parameter	Sample Result (mg/kg)	Spike Added (mg/kg)	Spiked Sample Result (mg/kg)	Det. Limit (mg/kg)	Percent Recovery
Gasoline Range (C5 - C10)	0.4	250	242	0.2	97%
Diesel Range (C10 - C28)	0.5	250	249	0.1	99%
Total Petroleum Hydrocarbons	0.9	500	491	0.2	98%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Acceptance Range
	Petroleum Hydrocarbons	75 - 125%

References: Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Comments: QA/QC for sample A726.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Blagg / Billco	Project #:	04034
Sample ID:	S @ 5'	Date Reported:	11-05-96
Laboratory Number:	A726	Date Sampled:	10-31-96
Chain of Custody:	4995	Date Received:	11-05-96
Sample Matrix:	Soil	Date Analyzed:	11-05-96
Preservative:	Cool	Date Extracted:	11-05-96
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	17.5
Toluene	100	16.7
Ethylbenzene	ND	15.2
p,m-Xylene	185	21.6
o-Xylene	111	10.4
Total BTEX	396	

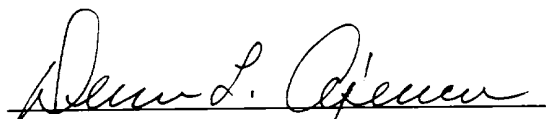
ND - Parameter not detected at the stated detection limit.

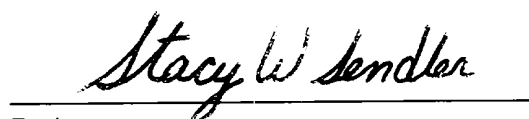
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	102 %
	Bromofluorobenzene	98 %

References: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1994.

Comments: Boulder 6.


Analyst


Review