

OIL CONSERVATION DIVISION

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

OK
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SEP 23 1999

PIT REMEDIATION AND CLOSURE REPORT

OIL CON. DIV
BOLDS

Operator: Burlington Resources (Williams Field Services) **Telephone:** (801) 584-6361
Address: P.O. Box 58900, Salt Lake City, Utah 84158-0900
WellName: SJ 27-5 UNIT #125E (85917)
Location: Unit or Qtr/Qtr Sec 4 Sec 21 T 27N R 5W County Rio Arriba
PitType: Dehydrator
LandType: Fee

Pit Location: Pit dimensions: length 20 ft., width 16 ft., depth 7 ft.

(Attach diagram)

Reference: Wellhead

Footage from reference: 105 ft.

Direction from reference: 44 Degrees West of North

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) <u>0</u>

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) <u>0</u>

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 1,000 feet	(10 points) <u>0</u>

Ranking Score (TOTAL POINTS): 0

Date Remediation Started: 12/5/96

Date Completed: 12/20/96

Remediation Method: Excavation ☒

Approx. Cubic Yard 90

(check all appropriate sections)

Landfarmed ☒Insitu Bioremediation ☐

Other

Landfarmed soil after mechanical aeration.

Remediation Location:

Onsite ☒ Offsite

(ie. landfarmed onsite, name and location of offsite facility)

General Description Of Remedial Action:

The pit was excavated to remove gross petroleum contamination. The excavated material was mechanically aerated and placed into an onsite landfarm. Returned to site 4/3/99 and utilized hydraulic probe to collect sample at 22-24'. TPH: 21.3 BTEX: ND

Ground Water Encountered: No

Final Pit:

Sample location SJ 27-5 #125E V-EX-01

Closure Sampling:

(if multiple samples, attach sample results and diagram of sample locations and depths)

A composite sample, made up of 4 points from each excavation face, was collected..

Sample depth Up to 7 feet.

Sample date 12/9/96

Sample time 14:40

Sample Result

Benzene (ppm) <0.81

Total BTEX (ppm) 47.6

Field Headspace (ppm)

TPH (ppm) 409

Ground Water Sample: No

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

DATE 9-20-99

SIGNATURE *Mark Harvey* FOR WFSPRINTED NAME
AND TITLEMARK HARVEY
PROJECT COORDINATOR

85917

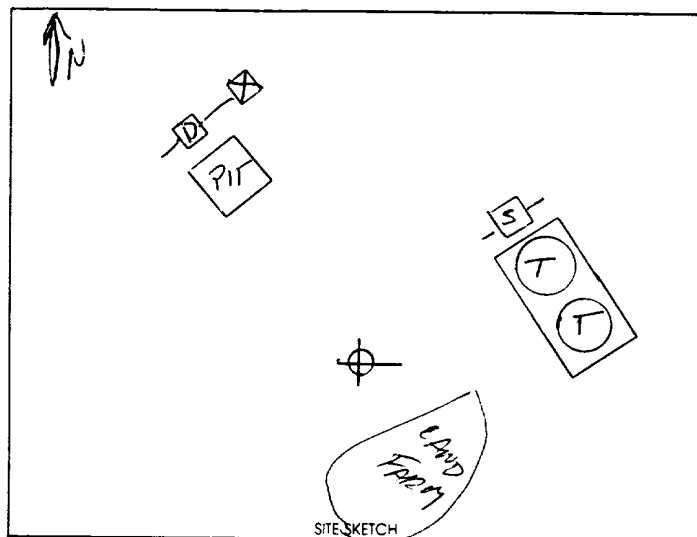
PIT RETIREMENT FORM

Date: 12/5/96Weather CLOUDY 135°Well Name SJ 27-5 #12SE Operator BURLINGTON RESOURCES Sec 21 T. 27N R. 5N UL 1540.5
846E

Land Type: BLM STATE FEE INDIAN

County RIO ARribaOne Call Made (505-765-1234)? (Y) NLine Marking Evident? (Y) N

Pit Location:

Reference Wellhead X Other _____Distance from: 105 feetDirection: 44° Degrees X E N XX W of S XStarting Pit Dimensions 10' x 9' x 2'Final Pit Dimensions 20' x 16' x 7'Organic Vapor Readings: Start _____ Soil Description: LT. BROWN SILTY SAND

@ 2' _____

@ 4' _____

@ 6' _____

@ 8' _____

@ _____

@ _____

@ _____

Well Proximity To: Residence, Domestic Water Well, Stock Well NONEArroyo, Wash, Lake, Stream NONEEstimated or Known Distance to Ground Water >100 feet

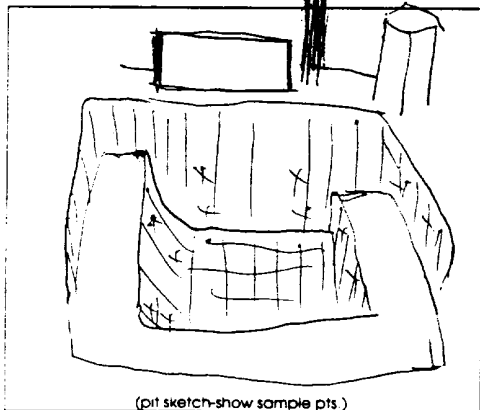
Source of Backfill (if other than processed material) _____

Samples collected: Type Progress: Verification: ID SJ 27-5 #12SE V-EX-01 (soil) water

Progress: Verification: ID SJ 27-5 #12SE V-LF-01 soil / water

Progress: Verification: ID _____ soil / water

Sample sent to Lab Via _____ Courier _____

Hand Carried _____ Other _____ Preservative: (ICE) Other _____

Comments: EXCAVATED PIT - LIGHT STAINING & ODOR WAS ENCOUNTERED. EXCAVATED SOIL WAS SHREDDED W/ FERTILIZER ADDED. PROCESSED SOIL WAS LAND FARMED ON LOCATION. AFTER CONFIRMATION, LAND FARM MATERIAL WAS RETURNED TO EXCAVATION AS BACKFILL.

Soil Shipped to: _____

Prepared by: [Signature]

Organic Analysis - Pit Closure

Williams Field Services

Project ID:	OCD Pits	Report Date:	12/16/96
Sample ID:	SJ - 27-5 #125E V-EX-01	Date Sampled:	12/09/96
Lab ID:	5904	Date Received:	12/09/96
Sample Matrix:	Soil	Date Extracted:	12/11/96
Preservative:	Cool	Date Analyzed:	12/11/96
Condition:	Intact		

Target Analyte	Concentration (mg/kg)	Detection Limit (mg/kg)
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Total Aromatic Hydrocarbons	47.6	
Benzene	ND	0.81
Toluene	5.82	0.81
Ethylbenzene	1.95	1.62
m,p-Xylenes	31.6	0.81
o-Xylene	8.22	0.81

Total Recoverable Petroleum Hydrocarbons	409	23.2
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Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Trifluorotoluene	97	81 - 117%
	Bromofluorobenzene	118	74 - 121%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics; Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, Final Update I, July, 1992.

Method 3550 - Sonication Extraction; Test Methods for Evaluating Solid Waste, SW-846, United States Environmental Protection Agency, September, 1986; Method 418.1 - Petroleum Hydrocarbons, Total Recoverable; Chemical Analysis of Water and Waste, United States Environmental Protection Agency, 1978.

Comments:


Review

Organic Analysis - Pit Closure

Williams Field Services

Project ID:	OCD Pits	Report Date:	12/16/96
Sample ID:	SJ - 27-5 #125E V-LF-01	Date Sampled:	12/09/96
Lab ID:	5907	Date Received:	12/09/96
Sample Matrix:	Soil	Date Extracted:	12/12/96
Preservative:	Cool	Date Analyzed:	12/13/96
Condition:	Intact		

Target Analyte	Concentration (mg/kg)	Detection Limit (mg/kg)
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Total Aromatic Hydrocarbons	36.2	
Benzene	ND	0.46
Toluene	2.34	0.46
Ethylbenzene	1.52	0.91
m,p-Xylenes	25.1	0.46
o-Xylene	7.05	0.46


Total Recoverable Petroleum Hydrocarbons	379	25.0
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Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Trifluorotoluene	108	81 - 117%
	Bromofluorobenzene	107	74 - 121%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics; Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, Final Update I, July, 1992.

Method 3550 - Sonication Extraction; Test Methods for Evaluating Solid Waste, SW-846, United States Environmental Protection Agency, September, 1986; Method 418.1 - Petroleum Hydrocarbons, Total Recoverable; Chemical Analysis of Water and Waste, United States Environmental Protection Agency, 1978.

Comments:


Review

Q W A L L A B O R A T O R I E S , I N C .

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT:

REFERENCE #: 9904322

SENT WILLIAMS FIELD SERVICE
TO: 295 CHIPETA WAY
SALT LAKE CITY, UTAH 84158
MARK HARVEY

DATE REPORTED: 04/19/99
DATE COLLECTED: 04/03/99
DATE RECEIVED: 04/09/99

PROJECT: NM PITS

Reference Fraction: 9904322-04A

Sample ID: SJ27-5 #125E @22-24/85917

Sample Matrix: SOIL

Sample Date Collected: 04/03/99 14:00:00

TEST	METHOD	RESULT	UNITS	DL	ANALYZED	BY
TPH	SW846-8015	21.3	MG/KG	2	04/17/99	KKL
BTEX	SW846 8021			3.0		
BENZENE		ND	MG/KG	0.050	04/15/99	JDH
TOLUENE		ND	MG/KG	0.050	04/15/99	JDH
ETHYLBENZENE		ND	MG/KG	0.050	04/15/99	JDH
TOTAL XYLENES		ND	MG/KG	0.050	04/15/99	JDH
BFB (SURROGATE)		94	125	75		

ND=NONE DETECTED

DL=DETECTION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

PROBE SAMPLE

APPROVED BY:


TERRY KOESTER *pd*
LABORATORY DIRECTOR