State of New Mexico Energy, Minerals and Natural Resources Department



OIL CONSERVATION DIVISION

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

PIT REMEDIATION AND CLOSURE REPORT

Operator: HALLADOR PETROLEUM

Telephone:

Address:

P.O. Box 58900, Salt Lake City, Utah 84158-0900

WellName: HORTON #7

hort7)

Location:

Unit or Qtr/Qtr Sec 0 Sec 22 T 32N R 11W County San Juan

PitType

Dehydrator

LandType: BLM

Pit Location: Pit dimensions: length 21 ft., width 23 ft., depth 16 ft.

(Attach diagram)

Reference: Wellhead

Footage from reference:

54 ft.

Direction from reference:

81 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)

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 1,000 feet(10 points)

Greater than 1,000 feet(0 points)

Ranking Score (TOTAL POINTS):

10

0

Date Remediation 219	arted: 11/22/00	Date Completed:			
Remediation Method: (check all appropriate sections)	Excavation [Approx. Cubic Yard 268			
	Landfarmed [Insitu Bioremediation□			
	Other Landfarmed se	oil after mechanical aeration. NON-VULNERABLE			
Remediation Location (ie. landfarmed onsite, name and location of offsite facility)		fsite			
General Description	Of Remedial Action:				
The pit was excavated to reme aerated and placed into an one hydrocarbon impacted soils.	site landfarm. Return to site	ation. The excavated material was mechanically expand excavation and remove additional			
Ground Water Encoun	tered: 0				
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and	Sample location	Sample location HORTON #7-V-EXFL-01			
depths)	Sample depth 18'	Sample depth 18'			
	Sample date 12/				
	Sample date 12/ Sample Result				
	- · · · · · · · · · · · · · · · · · · ·	/22/00 Sample time 10:50			
	Sample Result	/22/00 Sample time 10:50			
	Sample Result Benzene (ppm	/22/00 Sample time 10:50 m) ND (ppm) 37.7			
	Sample Result Benzene (ppr Total BTEX	/22/00 Sample time 10:50 m) ND (ppm) 37.7 pace (ppm) 66			
Ground Water Sample	Sample Result Benzene (ppm Total BTEX (Field Headsp TPH (ppm) 2	/22/00 Sample time 10:50 m) ND (ppm) 37.7 pace (ppm) 66			
I HEREBY CERTIFY	Sample Result Benzene (ppm Total BTEX (Field Headsp TPH (ppm) 2 : 0	/22/00 Sample time 10:50 m) ND (ppm) 37.7 pace (ppm) 66			

PIT RETIREMENT FORM

Date: <u>11-22-00</u>	_ HORT7	Weather <u>sいれる。</u>
Well Name Horren #7 O	perator HALLADOR	PETROLEUM SEC 22 T324 RILW DLSE/4
Land Type: BLM STATE FEE	INDIAN	County SAN JUAN
One Call Made (505-765-1234)?		
Line Marking Evident?	Ø N	PIT (ASSATURED)
Pit Location:		-12- p
Reference Wellhead <u>X</u>	Other	
Distance from: 5.4		
Direction: <u>81</u> Degrees	E NX_ of	HORTO) 20
<u> </u>	<u>X</u> W S	
Starting Pit Dimensions	x_12_x_2_	† N
Final Pit Dimensions	xx	PRINTER LINE POLE
		SITE SKETCH
Organic Vapor Readings: Start _ @ 2'	Soil:Desc	
@ 2 @ 4'		CLAYEY SILT ID SILTY CLAY
@ 6′		SANDA SILT W/CLAY
@ 8'		Tuis Ichaz
@		
@		
Arroyo, Wash	, Lake, Stream <u> </u>	II, Stock Well None Sox canten wast ~ 2 miles about Ground Water Soxies'
Samples collected: Type Pr	ogress: Verification	Dsoil / water
	ogress: Verification	
,	ogress: Verification	
Sample sent to Lab Via: Courier	Hand Carried C	Other Preservative: ICE Other
	Comments: <u>rec</u>	FRUCE - NETTING - HAD TO CLEAR WORKING AGEA ON
	NORTH SIDE OF FIT DU	E TO LOCATION OF DEHY, NEW DEHY TANK + SEPARATOR.
		WI SLIGHT HOSOCARBON ODER - ET GREY STAIN NO
		OLLY SLICHT OOCH - EXCAVATE TO 6'-INCREASED HYDILLANDW
	ODUR- EXCHATE TO	10' - STILL OBOR - EXCAVATE TO 15'- PRACTICAL REACH
		MERCH 70 17 TO SAMPLE - ODDR DIMINISHED -
	SUME RESIDUAL CO.	WARMINATION LIKELY IS-17 - WHUS ARE BENEARLY
	LOW TO SUGHT OOO!	
	Soil Shipped to:_	
(pit sketch-show sample pts.)	Prepared by:	W. Zhuf

QWAL LABORATORIES, INC.

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

LABORATORY REPORT:

REFERENCE #: 0012654

SENT WILLIAMS FIELD SERVICE

TO: 295 CHIPETA WAY

SALT LAKE CITY, UTAH 84158

MARK HARVEY

DATE COLLECTED: 12/22/00

01/04/01

DATE REPORTED:

DATE RECEIVED:

12/28/00

PROJECT: TAA PITS

Reference Fraction:0012654-02A

Sample ID: HORTON #7-V-WA-02

Sample Date Collected: 12/22/0010:55:00

Sample Matrix:

SOIL

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
TPH-DRO BTEX	SW846-8015D OA1/8021B	238	MG/KG	1.0	12/30/00	
BENZENE TOLUENE ETHYLBENZENE TOTAL XYLENES BFB (SURROGATE)		ND ND ND 37.7 86	MG/KG 0.0 MG/KG 0.0 MG/KG 0.0	0.050 0.050 0.050 0.050 0.050	12/29/00 12/29/00 12/29/00 12/29/00	KKI KKI

ND=NONE DETECTED PQL=PRACTICAL QUANTITAION LIMIT SU=STANDARD UNITS B=DETECTED IN METHOD BLANK

APPROVED BY:

ZERRY KOESTER

LABORATORY DIRECTOR

QWAL LABORATORIES, INC.

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

LABORATORY REPORT:

REFERENCE #: 0012654

SENT WILLIAMS FIELD SERVICE

TO: 295 CHIPETA WAY

SALT LAKE CITY, UTAH 84158

MARK HARVEY

PROJECT: TAA PITS

DATE REPORTED: 01/04/01 DATE COLLECTED: 12/22/00

DATE RECEIVED: 12/28/00

Reference Fraction:0012654-01A

Sample ID: HORTON #7-V-FL-02

Sample Date Collected: 12/22/0010:50:00

Sample Matrix: SOIL

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
TPH-DRO BTEX	SW846-8015D OA1/8021B	805	MG/KG	1.0	12/30/00	BEM
BENZENE TOLUENE ETHYLBENZENE TOTAL XYLENES BFB (SURROGATE)	ND 2.18 13.0 96.1 107	MG/KG MG/KG MG/KG MG/KG 125	0.10 0.10 0.10 0.10 75	01/02/01 01/02/01 01/02/01 01/02/01	KKL KKL	

ND=NONE DETECTED PQL=PRACTICAL QUANTITAION LIMIT SU=STANDARD UNITS B=DETECTED IN METHOD BLANK

APPROVED BY:

TERRY KOESTER

LABORATORY DIRECTOR

QWAL LABORATORIES, INC.

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

LABORATORY REPORT:

REFERENCE #: 0012155

SENT WILLIAMS GAS PIPELINE TO:

187 COUNTY ROAD # 4980 BLOOMFIELD, NM 87413

MARK HARVEY

DATE REPORTED: 12/12/00 DATE COLLECTED: 12/04/00

DATE RECEIVED: 12/06/00

PROJECT: TAA PITS

Reference Fraction: 0012155-05A

Sample ID: HORTON #7-V-LF-01 Sample Date Collected: 12/04/0012:39:00 Sample Matrix:

TEST METHOD RESULT UNITS PQL . ANALYZED BY SW846-8015D 381 MG/KG TPH-DRO 2.0 12/11/00 BEN OA1/8021B BTEX 3.0 BENZENE ND MG/KG 0.050 12/07/00 MB 11.03 TOLUENE MG/KG 0.050 12/07/00 MB 0.181 MG/KG 0.050 ETHYLBENZENE 12/07/00 MB TOTAL XYLENES 9.37 MG/KG 0.050 12/07/00 MB BFB (SURROGATE) 97 125 75

ND=NONE DETECTED POL=PRACTICAL QUANTITAION LIMIT SU=STANDARD UNITS B=DETECTED IN METHOD BLANK

APPROVED BY:

KOESTER. TORY DIRECTOR