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

Burlington Resources (Williams Field Services)

Telephone: (801) 32-636

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

WellName: SJ 27-5 #74 (86441)

Location: Unit or Qtr/Qtr Sec O Sec 23 T 27N R 5W County Rio Arriba

PitType Drip
LandType: BLM

Pit Location: Pit dimensions: length 17ft., width 15ft., depth 11ft.

(Attach diagram)

Operator:

Reference: Wellhead

Footage from reference: 100 ft.

Direction from reference: 178 Degrees East of North

Depth To Ground Water:

(Vertical distance from 50 feet (20 points)
contaminants to seasonal high water elevation of Greater than 100 feet (0 points)

The season of the s

ground water)

Wellhead Protection Area: Yes (20 points)
(Less than 200 feet from a private No (0 points) 0

domestic water source, or; less than 1000 feet from all other water sources)

Distance To Surface Water:

(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks.

Less than 200 feet (20 points)

lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)

200 166t to 1,000 feet(10 points)

Ranking Score (TOTAL POINTS): 10

Date Remediation Started: 8/27/98

Date Completed: 8/27/98

Remediation Method: Excavation V

Approx. Cubic Yard 100

(check all appropriate

sections)

Landfarmed V

Insitu Bioremediation

Other

Landfarmed soil after mechanical aeration. LF Headspace 3ppm

Remediation Location:

Onsite 🗸 Offsite

is 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 2/16/00 and advanced sampling probe to 14' to collect sample. Results: TPH ND BTEX ND

Ground Water Encountered:

Final Pit:

Closure Sampling:

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

Sample location 27-5#74 V-EXFL-01

Two samples were collected, one sample from the excavation bottom and the second sample was made up of 4 points from each excavation wall.

Sample depth 11 feet

Sample date 8/29/98

Sample time 7:30

Sample Result

Benzene (ppm) <0.050

Total BTEX (ppm) <0.050

Field Headspace (ppm)

TPH (ppm) 55.6

Ground Water Sample:

No

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

DATE 3-7-00 REV.

SIGNATURE MA1

PRINTED NAME Mark Harvey for Williams Field Services AND TITLE

Date: 8/2/1/8 Weather Well Name_57 275 374 Operator Bit Indiana Operator Opera		,	PIT RETIREN	MENT FORM			
Well Proximity To: Residence, Domestic Water Well, Stock Well Arroyo, Wash, Lake, Stream Estimated of Known Distance to Ground Water Source of Backfill (if other than processed material) Samples collected: Type Progress: Verification: Description: Description: Estimated of Known Distance to Ground Water Progress: Verification: Description: Description: Source of Backfill (if other than processed material) Samples collected: Type Progress: Verification: Progress: Verification: Description: Descript	Date: 8/2	7/98	. 86	441			
Land Type: (EM) STATE FEE INDIAN County Are ded and One Call Made (505-765-1234)? W N Line Marking Evident? N N N N N N N N N N N N N N N N N N N			oerator <u>Bullur</u>	VGTON	_Sec <u>23</u>]	271 R 5W UL 0)
One Call Made (505-765-1234)? Inne Marking Evident? N Pit Location: Reference Wellhead Other Distance from: Organic from: Organic Pit Dimensions IS			INDIAN				
Pit Location: Reference Wellhead Other Distance from: 100' Direction: 178 Degrees E N Y Of W S Starting Pit Dimensions 15 X 17 X 11 Organic Vapor Readings: Start @ 2' @ 4			Ø N				
Pit Location: Reference Wellhead Other Distance from: /o2 Direction: 178 Degrees E N of W S Starting Pit Dimensions 12 x 13 x 3 Final Pit Dimensions 15 x 17 x 11 Organic Vapor Readings: Start Soll Description: CLAYER SULT. @ 2' @ 4' @ 6' @ 8' @ WWell Proximity To: Residence, Domestic Water Well, Stock Well Arroyo, Wash, Lake, Stream wash 12 your Abatth Estimated or Known Distance to Ground Water 72 - 120 Source of Backfill (if other than processed material Samples collected: Type Progress: Verification: ID 27 - 5 #74 - V - E VFG - 01 COI) water Progress: Verification: ID 27 - 5 #74 - V - E VFG - 01 COI) water Progress: Verification: ID 27 - 5 #74 - V - E VFG - 01 COI) water Progress: Verification: ID 27 - 5 #74 - V - E VFG - 01 COI) water Progress: Verification: ID 27 - 5 #74 - V - E VFG - 01 COI) water Progress: Verification: ID 27 - 5 #74 - V - E VFG - 01 COI) water Progress: Verification: ID 27 - 5 #74 - V - E VFG - 01 COI) water Progress: Verification: ID 27 - 5 #74 - V - E VFG - 01 COI) water Progress: Verification: ID 27 - 5 #74 - V - E VFG - 01 COI) water Progress: Verification: ID 27 - 5 #74 - V - E VFG - 01 COI) water Progress: Verification: ID 27 - 5 #74 - V - E VFG - 01 COI) water Progress: Verification: ID 27 - 5 #74 - V - E VFG - 01 COI) water Progress: Verification: ID 27 - 5 #74 - V - E VFG - 01 COI) water Progress: Verification: ID 27 - 5 #74 - V - E VFG - 01 COI) water Progress: Verification: ID 27 - 5 #74 - V - E VFG - 01 COI) water Progress: Verification: ID 27 - 5 #74 - V - E VFG - 01 COI) water Progress: Verification: ID 27 - 5 #74 - V - E VFG - 01 COI) water Progress: Verification: ID 27 - 5 #74 - V - E VFG - 01 COI) water Progress: Verification: ID 27 - 5 #74 - V - E VFG - 01 COI) water Progress: Verification: ID 27 - 5 #74 - V - E VFG - 01 COI) water Progress: Verification: ID 27 - 5 #74 - V - E VFG - 01 COI) water Progress: Verification: ID 27 - 5 #74 - V - E VFG - 01 COI) water Progress: Verification: ID 27 - 5 #74 - V - E VFG - 01 COI) water Progress: Verification: ID 27 - 5 #74 -			∕Ø N				
Reference Wellhead Ofther Distance from: 100 Direction: 178 Degrees X E N X Off W S S Starting Pit Dimensions 12 X 13 X 3 Final Pit Dimensions 15 X 17 X 11 Organic Vapor Readings: Start Soil Description: 10 CLARCH SILT SILT CLAT © 2	2						
Reference Wellhead Ofther Distance from: 100 Direction: 178 Degrees X E N X Off W S S Starting Pit Dimensions 12 X 13 X 3 Final Pit Dimensions 15 X 17 X 11 Organic Vapor Readings: Start Soil Description: 10 CLARCH SILT SILT CLAT © 2	· · · ·						
Distance from:		1/01/h 0 0 0 1 X	Other				
Starting Pit Dimensions Samples collected: Type Progress: Verification: ID 27-5 #74-V-EVER-01 Soil / wate Progress: Verification: ID 27-5 #74-V-EVER-01 Soil / wate		·	Omer		$\overline{}$		
Starting Pit Dimensions 2		7	~ F N ~	(1	14		
Starting Pit Dimensions X	Direction: 178	Degrees	_		7	TON	EN LOCATION
Starting Pit Dimensions					<u> </u>		
Starting Pit Dimensions 12			w _ s		521	HELLMEAD	
Soli Description: Soli Description: CLASEY SILT	01 11 DIA DIA	12	. 12' 2'	1117		4 JEE	
Organic Vapor Readings: Start Soil Description: CLAYET SILT 2 ' 4 ' 6 ' 8 ' NUTY (LAY Residence, Domestic Water Well, Stock Well Arroyo, Wash, Lake, Stream (MSH) - V3 MILE ABSTH Estimated or Known Distance to Ground Water 75-100' Source of Backfill (if other than processed material Samples collected: Type Progress: Verification: ID 27-5 Tyy-V-EVFL-01 Soil) water Progress: Verification: ID 27-5 Tyy-V-EVFL-01	-			-		107	
Organic Vapor Readings: Start @ 2' @ 4' @ 6'	Final Pit Dimension	ns <u>15</u>)	(<u>17</u> × <u>11</u>	-		~	
Well Proximity To: Residence, Domestic Water Well, Stock Well Arroyo, Wash, Lake, Stream				L		SKETCH	
Well Proximity To: Residence, Domestic Water Well, Stock Well Arroyo, Wash, Lake, Stream WASH - 1/3 MILE MARTH Estimated or Known Distance to Ground Water 25-100' Source of Backfill (if other than processed material Samples collected: Type Progress: Verification: ID 27-5 #74-V-EXFL-01 Soll) water Progress: Verification: ID 27-5 #74-V-EXFL-01 Soll water Progress: Verification: ID 27-5 #74-V-	Organic Vapor Re		Soil De	escription: .			
Well Proximity To: Residence, Domestic Water Well, Stock Well Arroyo, Wash, Lake, Stream Wash Wash Stream Wash Stream Wash Wash Wash Wash Wash Wash Wash Wash			/				
Well Proximity To: Residence, Domestic Water Well, Stock Well Arroyo, Wash, Lake, Stream							
Well Proximity To: Residence, Domestic Water Well, Stock Well Arroyo, Wash, Lake, Stream Wash 73 MLC Abath Estimated or Known Distance to Ground Water 75-100' Source of Backfill (If other than processed material Samples collected: Type Progress: Verification: ID 27-5 #74-V-EXEC-01 Soil) water Progress:							
Well Proximity To: Residence, Domestic Water Well, Stock Well Arroyo, Wash, Lake, Stream), ,	•	
Arroyo, Wash, Lake, Stream		@	/				
Arroyo, Wash, Lake, Stream	NA 11 50 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Davidana - F	, ,	Mall Chaple	14/011		
Source of Backfill (If other than processed material Samples collected: Type Progress: Verification: ID 27-5 *74-V-E-01 Soil) water Progress: Verification: ID 27-5 *74-V-E-WH-01 Soil) water Progress: Verification: ID 57-5 *74-V-E-WH-01 Soil) water	well Proximity 10:						
Samples collected: Type Progress: Verification: ID 27-5 * 74-V-F.XFC-01 Soll) water Progress: Verification: ID 27-5 * 74-V-F.XWA-01 Soll) water Progress: Verification: Verification: ID 2							
Samples collected: Type Progress: Verification: ID 27-5 #74-V-FXWA-01 SOID water Progress: Verification: ID 27-5 #74-V-FXWA-01 SOID water Progress: Verification: ID soil / water Sample sent to Lab Via: Courier Hand Carried Other Preservative: ICE Other Comments: DEHY UNIT REMANDED - SLIGHTLY STAINE SOIL NEAR SURFACE EXCANATE + LADSFARM WEST OF PIT - WALL! CICAN UP 6000 - FLOOR CLEAN - CUT TERRACE - RAMP + OCRM		20111113134 31				-	
Soil Shipped to:	Source of Backfill ((if other than pr	ocessed materic	ıl lı			
Soil Shipped to:					#		
Soil Shipped to:	Samples collected		•	on: ID_	27-5 74-V	VEXFL-01 SOIL) water
Soil Shipped to:			_	on: ID 🔀	17-5 474-0	-FXWA-01 SOIL	/ water
Comments: DEHY UNIT REMOVED - SLIGHTLY STAINE SOIL NEAR SURFACE EXCANATE + LANDFARM WEST OF RIT - WALLS CICAN UP GOOD - FLOOR CLEAN - CUT TERRACE - RAMP + OFRM Soil Shipped to: ON-SITE F		Pr	ogress: verification	on: טו _		SOII	/ waie
EXCANATE + LAJOFARM WEST OF PIT - WALL! CICAN UP GOOD - FLOOR CLEAN - CJT TERRACE - RAMP + OFRM Soil Shipped to: ON-SITE F	Sample sent to Lab	Via: Courier	Hand Carried	Other	Preserv	ative: ICE Other	•
EXCANATE + LAJOFARM WEST OF PIT - WALL! CICAN UP GOOD - FLOOR CLEAN - CJT TERRACE - RAMP + OFRM Soil Shipped to: ON-SITE F			Comments: 1	KUY UNITRE	moven - still	TLY STAINE SOIL NEAR	SURFACE
Soil Shipped to: ON-SITE F							
Soil Shipped to: ON-SITE F		4	*				
	1			TO VILLE			
	TO THE	1 11 1 M M T					
	SEN 3	27					
Eursk Prepared by: W. Educ/			Soil Shipped to	: ON-SITE	£		
(pit sketch-show sample pts.)	(pit sketch-shows	ample pts.)	Prepared by: _	W.A	<u>~</u>		

QWAL LABORATORIES. INC.

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

LABORATORY REPORT:

REFERENCE #: 8402596

SENT WILLIAMS FIELD SERVICE

TO: 295 CHIPETA WAY

SALT LAKE CITY, UTAH 84158

DATE REPORTED: 02/23/00

DATE COLLECTED: 02/16/00 DATE RECEIVED: 02/18/00

MARK HARVEY

PROJECT: WFS/NM-PITS

Reference Fraction:8402596-07A

Sample ID: SJ27-5 74-EX-RS-01(86441)

Sample Date Collected: 02/16/0011:42:00

Sample Matrix: SOIL

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
TPH-DRO	SW846-8015D OA1/8021B	· ND	MG/KG	3.0	02/22/00	
BTEX BENZENE TOLUENE ETHYLBENZENE TOTAL XYLENES BFB (SURROGATE)	ORI/ 6021B	ND ND ND ND 109	MG/KG MG/KG MG/KG MG/KG 125	0.050 0.050 0.050 0.050 75	02/21/00	KKL

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

APPROVED BY: TKOETER

TERRY KOESTER LABORATORY DIRECTOR

OWAL LABORATORIES, INC.

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

LABORATORY REPORT:

REFERENCE #: 9809139

DATE REPORTED: 09/08/98

DATE COLLECTED: 08/29/98

DATE RECEIVED: 09/02/98

SENT WILLIAMS FIELD SERVICE-MS4JI

TO: P.O. BOX 58900

SALT LAKE CITY, UTAH 84108

MARK HARVEY

PROJECT: 98 PIT REMEDIATION (CRZ)

Reference Fraction: 9809139-21A

Sample ID: CRZ/27-5#74 V-EXWA-01 / 86441 Sample Date Collected: 08/29/9807:30:00

Sample Matrix: SOIL

TEST	METROD	RESULT	UNITS	DL	ANALYZED	BY
TPH	SW846-8015 SW846 8021	17.6	MG/KG	2.0	09/05/98	SKW
BTEX BENZENE	511020 0022	ND	MG/KG	0.050	09/05/98	
TOLUENE	-	100	MG/KG	0.050	09/05/98	JLC
ETHYLBENZENE		ND	MG/KG	0.050	09/05/98	JLC
TOTAL XYLENES		МD	MG/KG	0.050	09/05/98	JLC
BFB (SURROGATE)		83	125	75		

ND=NONE DETECTED DL-DETECTION LIMIT SU-STANDARD UNITS B-DETECTED IN METHOD BLANK

APPROVED BY:

LABORATORY DIRECTOR

QWAL LABORATORIES, INC.

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

ABORATORY REPORT:

PEFERENCE #: 9809139

ENT WILLIAMS FIELD SERVICE-MS4JI

DATE REPORTED: 09/08/98 DATE COLLECTED: 08/29/98

P.O. BOX 58900 TO:

DATE RECEIVED: 09/02/98

SALT LAKE CITY, UTAH 84108

MARK HARVEY ROJECT: 98 PIT REMEDIATION (CRZ)

eference Fraction:9809139-22A

ample ID: CRZ/27-5#74 V-EXFL-01 / 86441 ample Date Collected: 08/29/9807:30:00

Sample Matrix: SOIL

EST	METHOD	RESULT	UNITS	DĽ.	ANALYZED	BY
.bH	SW846-8015	55.6	MG/KG	2.0	09/05/98	SKW
HEX BENZENE TOLUENE ETHYLBENZENE TOTAL XYLENES BFB (SURROGATE)	SW846 8021	ND ND ND 81	MG/KG MG/KG MG/KG MG/KG 125	0,050 0.050 0.050 0.050 75	09/05/98	JLO JLO

ND-NONE DETECTED DL-DETECTION 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 #: 9809965

SENT WILLIAMS FIELD SERVICE-MS4JI

TO: P.O. BOX 58900

SALT LAKE CITY, UTAH 84108

MARK HARVEY

DATE COLLECTED: 09/24/98
DATE RECEIVED: 09/30/98

DATE REPORTED:

PROJECT: PIT REMEDIATION 98

Reference Fraction: 9809965-19A

Sample ID: 27-5 #74-V-LF-01 / 86441

Sample Date Collected: 09/24/9810:10:00

Sample Matrix: SOIL

TEST	METHOD	RESULT	UNITS	DL	ANALYZED	BY
TPH BTEX	SW846-8015 SW846 8021	131	MG/KG	2.0	10/03/98	SKW
BENZENE TOLUENE ETHYLBENZENE TOTAL XYLENES BFB (SURROGATE)		ND ND ND ND 108	MG/KG MG/KG MG/KG MG/KG 125	0.050 0.050 0.050 0.050 0.050	10/03/98 10/03/98	JLO

ND=NONE DETECTED
DL=DETECTION LIMIT
SU=STANDARD UNITS
B=DETECTED IN METHOD BLANK

APPROVED BY:

LABORATORY DIRECTOR

10/06/98