

Risk-backlog

OIL CONSERVATION DIVISION

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

RECEIVED
DEC - 6 1999

PIT REMEDIATION AND CLOSURE REPORT

OIL CON. DIV.
DIST. 3

Operator:	Burlington Resources (Williams Field Services)	Telephone:	(801) 584-6361
Address:	P.O. Box 58900, Salt Lake City, Utah 84158-0900		
WellName	SJ 28-6 UNIT #94A MV	(85722)
Location	Unit or Qtr/Qtr Sec P Sec 36 T 28N R 6W County Rio Arriba		
PitType	Dehydrator		
LandType	Fee		

Pit Location: Pit dimensions: length 14 ft., width 14 ft., depth 4 ft. (Attach diagram)	
Reference:	Wellhead
Footage from reference:	110 ft.
Direction from reference:	140 Degrees East 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>10</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) Greater than 1,000 feet (0 points) <u>0</u>
Ranking Score (TOTAL POINTS): <u>10</u>	

Date Remediation Started: 9/16/98

Date Completed: 9/16/98

Remediation Method: Excavation ☒
(check all appropriate sections)

Approx. Cubic Yard 30

Landfarmed ☒

Insitu Bioremediation

Other LF Headspace 12ppm

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 placed into an onsite landfarm.

Ground Water Encountered: No

Final Pit:

Sample location SJ 28-6#94A-V-EXFL

Closure Sampling:

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

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 4 feet

Sample date 9/17/98

Sample time 14:00

Sample Result

Benzene (ppm) <0.050

Total BTEX (ppm) 148.8

Field Headspace (ppm)

TPH (ppm) 2020

Ground Water Sample: No

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

DATE 10-11-99 Rev

SIGNATURE *Mark Harvey*

PRINTED NAME Mark Harvey for Williams Field Services
AND TITLE



Environmental Services
P.O. Box 58900
Salt Lake City, UT 84158-0900

Pit Closure and Retirement Addendum- Risk Assessment

Any residual contamination remaining at the San Juan 28-6 #94 A MV poses low risk to human health and the environment. This conclusion is based in part on the information below:

Toxicity Information

Toxicity values for TPH have not been established due to the variability of the chemical makeup of TPH. Normally, the toxicity is based on the toxicity of the particular constituents of concern which may be present and are evaluated based on health-based standards. The most common constituents examined include benzene, ethylbenzene, toluene, and xylene.

In the absence of constituents of concern or when the concentrations of the constituents of concern are negligible, the acceptable level of TPH is established by considering the following:

- No liquid product should remain in the soil
- The TPH should not harm vegetation
- The TPH concentrations should not create an odor nuisance
- Hydrocarbon vapors which may emanate from the impacted soil should not generate harmful or explosive vapors
- Site monitoring should indicate that TPH levels are stable or declining

While residual TPH and / or BTEX contamination may exist at this site, excavation activities were suspended based on encountering bedrock or production equipment which limited continued safe excavation. Based on the analysis of the soil confirmation sample and the site conditions, closure of this site is warranted for the following reasons:

1. Soils which exhibited high levels of TPH and BTEX have been removed.
2. Residual TPH concentrations are below levels which would be problematic based on the criteria above.
3. Discharge has been eliminated and a steel tank installed to prevent any future release to soils.
4. Depth to groundwater is estimated at greater than 100'.
5. Vertical migration of contamination is limited due to bedrock and/or the low vertical hydraulic conductivity of underlying soils.
6. TPH concentrations will not increase and are likely to degrade over time in-situ.

Since there are no nearby receptors or domestic water sources, this site poses little risk to human health and the environment. Closure is justified based on the relatively low total petroleum hydrocarbon (TPH) concentration and the fact that benzene, toluene, ethylbenzene, and xylene meet applicable closure criteria. Additional information may be found in the Technical Background Document titled: *Risk Based Closure of Unlined Surface Impoundment Sites, San Juan Basin, New Mexico.*

85722

Line Marking Evident? Y N

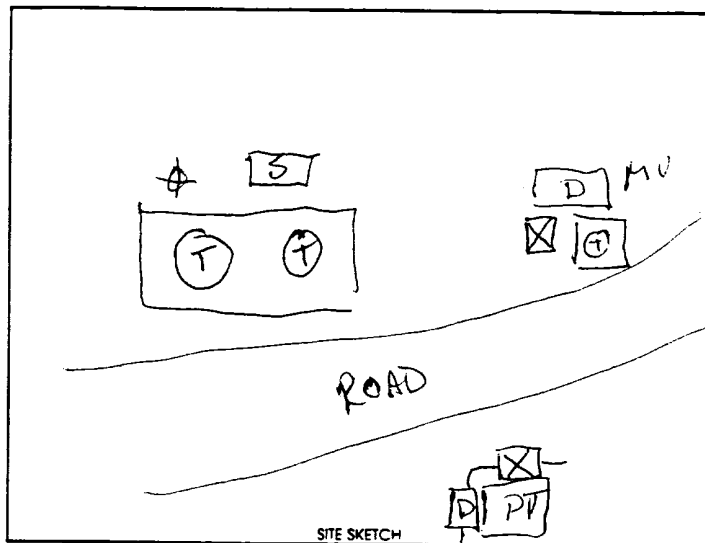
Weather

Sec 36 T 28N R 10W UL P
County PICAPICA

of

_____W S_____

Final Pit Dimensions 14 x 14 x 4



Organic Vapor Readings: Start _____ Soil Description: _____
 @ 2' _____
 @ 4' _____
 @ 6' _____
 @ 8' _____
 @ _____
 @ _____

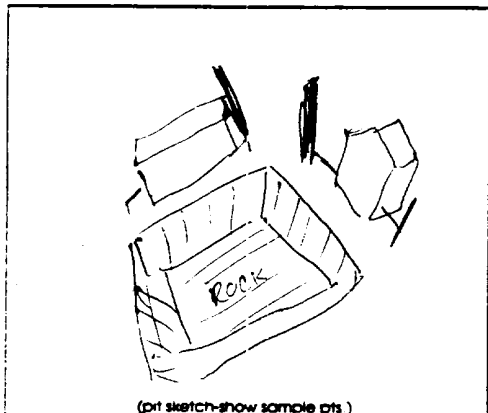
Well Proximity To: Residence, Domestic Water Well, Stock Well _____
Arroyo, Wash, Lake, Stream MUDZ WASH 200 feet NORTH
Estimated or Known Distance to Ground Water >75

Source of Backfill (if other than processed material) _____

Samples collected:

Type	Progress:	Verification:	ID _____	soil / water
	Progress:	Verification:	ID _____	soil / water
	Progress:	Verification:	ID _____	soil / water

Sample sent to Lab Via: Courier Hand Carried Other _____ Preservative: ICE Other



Comments: TANK & LINER IMPIT EXCAVATED
GROSSLY CONTAMINATED SOIL - HIT SANDSTONE
@ 4 feet

Soil Shipped to: _____
Prepared by: AS/T

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 #: 9809965

SENT WILLIAMS FIELD SERVICE-MS4JI
TO: P.O. BOX 58900
SALT LAKE CITY, UTAH 84108
MARK HARVEY

DATE REPORTED: 10/06/98
DATE COLLECTED: 09/17/98
DATE RECEIVED: 09/30/98

PROJECT: PIT REMEDIATION 98

Reference Fraction:9809965-05A

Sample ID: SJ 28-6 #94A-V-EXFL /85722

Sample Matrix: SOIL

Sample Date Collected: 09/17/98 14:00:00

TEST	METHOD	RESULT	UNITS	DL	ANALYZED	BY
TPH	SW846-8015	2020	MG/KG	2.0	10/02/98	SKW
BTEX	SW846 8021			3.0		
BENZENE		ND	MG/KG	0.050	10/01/98	JLO
TOLUENE		24.8	MG/KG	0.050	10/01/98	JLO
ETHYLBENZENE		ND	MG/KG	0.050	10/01/98	JLO
TOTAL XYLENES		124	MG/KG	0.050	10/01/98	JLO
BFB (SURROGATE)		109	125	75		

ND=NONE DETECTED

DL=DETECTION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:

TERRY ROESTER
LABORATORY DIRECTOR

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 #: 9809965

SENT WILLIAMS FIELD SERVICE-MS4JI
TO: P.O. BOX 58900
SALT LAKE CITY, UTAH 84108
MARK HARVEY

DATE REPORTED: 10/06/98
DATE COLLECTED: 09/17/98
DATE RECEIVED: 09/30/98

PROJECT: PIT REMEDIATION 98

Reference Fraction:9809965-06A

Sample ID: SJ 28-6 #94A-V-EXWA /85722

Sample Matrix: SOIL

Sample Date Collected: 09/17/98 14:05:00

TEST	METHOD	RESULT	UNITS	DL	ANALYZED	BY
TPH	SW846-8015	434	MG/KG	2.0	10/02/98	SKW
BTEX	SW846 8021			3.0		
BENZENE		ND	MG/KG	0.050	10/01/98	JLO
TOLUENE		0.302	MG/KG	0.050	10/01/98	JLO
ETHYLBENZENE		ND	MG/KG	0.050	10/01/98	JLO
TOTAL XYLENES		1.72	MG/KG	0.050	10/01/98	JLO
BFB (SURROGATE)		113	125	75		

ND=NONE DETECTED

DL=DETECTION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:

TERRY KOESTER
LABORATORY DIRECTOR

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 #:** 9810160

SENT **WILLIAMS FIELD SERVICE-MS4JI**
TO: **P.O. BOX 58900**
SALT LAKE CITY, UTAH 84108
MARK HARVEY

DATE REPORTED: 10/12/98
DATE COLLECTED: 10/02/98
DATE RECEIVED: 10/06/98

PROJECT: 98 PIT REMEDIATION

Reference Fraction: 9810160-02A

85722

Sample ID: 28-6#94A-V-LF-01

Sample Matrix: SOIL

Sample Date Collected: 10/02/98 16:00:00

TEST	METHOD	RESULT	UNITS	DL	ANALYZED BY
TPH	SW846-8015	783	MG/KG	40.0	10/09/98 SKW

ND=NONE DETECTED

DL=DETECTION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:


TERRY KOESTER
LABORATORY DIRECTOR