

SAN JUAN BASIN

PIT CLOSURE DOCUMENTATION

LOCATION:

SALMON 1 (P-30-24-11)

RCRA EXEMPT
WASTES:Yes ☒ No ☐

PIT TYPE:

TDP

ATE FLOW TO PIT STOPPED:

BEFORE 1991

Denny E. Faust
DEPUTY OIL & GAS INSPECTOR

ACREAGE

TYPE:

☐ FEDERAL☐ JICARILLA☐ NAVAHO☐ STATE☒ FEE

JUN 11 9 1995

SITE ASSESSMENT

1) Groundwater Depth:

< 50'

Ranking Score:

Basis:

LOCATION CLOSE TO RIVER, WTR TABLE @ SURFACE

20

2) Wellhead Protection Area:

Distance To

Water Sources:

> 1000'

Private Domestic Water Sources:

> 200'

Basis:

NO FRESH WTL EXTRACTION IN IMMEDIATE VICINITY

0

3) Distance To Surface Body of Water:

± 1000'

Basis:

SAN JUAN RIVER APPROX. 1000' NORTH

10

Total Score:

30

Soil Characteristic



Highly Contaminated/Saturated

HAS GROUND WATER IN PIT



Unsaturated Contaminated

RANKING CRITERIA

Depth to Groundwater	Wellhead Protection Area	Distance to Surface Water Body	Score	Rank
<50 ft	yes	<200' horiz	20	20
<50 - 99	no	200 - 1000' horiz	10	10
>100 ft		>1000' horiz	0	0

GUIDELINE REMEDIATION LEVELS

	Total Ranking Score		
	>19	10-19	0-9
Benzene (ppm)	10	10	10
BTEX (ppm)	50	50	50
Field Headspace			
Method for BTEX	100	100	100
TPH (ppm) **	100	1,000	5,000

** Concentration above background

DEFINITION OF CONTAMINATION

Date:

Depth Excavated:

6-8-93

Full Excavation:



Maximum Extent Practicable

PIT HAD GROUND WATER IN IT.

ALL SAMPLE RESULTS ARE SHOWN ON "SAMPLE RESULTS NOTES" FORM

Groundwater Encountered:

Yes



No

If yes, approximate depth:

WTR IN PIT

Groundwater Sampling?



Yes



No

Where was gw sample taken?

IN MIDDLE OF PIT AREA ON WEST SIDE

Attach GW Sample Results

NOTES:

O.M.

REMEDIATION PROFILESoil Treated Onsite ☐Date Remediation Started: 10-26-93☒ In Situ Bio☐ w/vapor venting☐ Landfarmed☐ CompostedDate: 10-28-93

Description

Amount/Rate

Date: _____

Description

Amount/Rate

Tilled	TURNED SOIL w/ BACKHOE 2' DEEP			
Nutrients	FERTILIZER 25-4-4			
Moisture				
Bulking Agent				
Organic Material				

Date: _____

Description

Amount/Rate

Date: _____

Description

Amount/Rate

Tilled				
Nutrients				
Moisture				
Bulking Agent				
Organic Material				

ALL SAMPLE RESULTS ARE SHOWN ON "SAMPLING RESULTS NOTES" FORM

SOIL TREATED/HANDLED OFFSITE**TO SITE (ATTACH MANIFEST)**

Where Treated: _____

Type of Land (Fed/Nav/Jic/State/Fee): _____

Quantity Moved: _____

Quantity Disposed At Envirotech: _____

FROM SITE (ATTACH MANIFEST)

To This Location From: _____

Type of Land (Fed/Nav/Jic/State/Fee): _____

Quantity Moved: _____

FINAL CLOSUREBTEX: ND ppm (From Headspace Analysis)TPH: ND ppm (From Lab Results)

Revegetated:

yes ☐no ☒

Active Well or Facility Pad:

yes ☒no ☐NOTES: 6-8-93 - Groundwater in pit, pulled water sample for TPH &BTEX ANAL. Lab results indicate ND on both BTEX & TPH, 9-30-93GW subsided ± 18" below surface, pulled soaked TPH - BTEX ANAL IN ATAREA. 10-26-93 - EXCAVATED PIT AREA w/ BACKHOE, SOIL CONTAMINATION APPEARS TO BE CON-TAINED PIT. 10-28-93 - TURNED SOIL ± 3' DEEP WITHIN PIT AREA, FERTILIZED w/ 25-4-4.AREA EXCAVATED 35' X 35' X 3' - MIXED IN SOIL AROUND BERM WALL, BERMED AROUNDCONTAMINATED AREA.

a m 2

NOTES: 8-26-94 - PERFORMED SPT TPH COMPOSITE & DUM ASSESSMENT ON PIT. DUM BELOW REQUIREMENT, TPH SLIGHTLY ABOVE REQUIREMENT. PREPARE TO TURN PIT.

11-29-94 - HAULED IN 30 YDS CLEAN FIELD DIRT - ROSENBAUM CONST.

12-9-94 - MIXED CLEAN SOIL IN TDP

12-13-94 - RESAMPLED PIT FOR TPH ANAL. - ANALYSIS BELOW REQUIREMENT TO CLOSE

12-21-94 - CLOSED PIT, CONTOURED & SEEDING P&A LOCATION.

PIT CLOSURE DOCUMENTATION - SAMPLING RESULTS NOTES

LOCATION OF PIT		TYPE OF PIT: TDP									
LOCATION OF PIT		SALMON 1									
DESCRIPTION OF SAMPLE	SAMPLE EVENT # 1	SAMPLE EVENT # 2	SAMPLE EVENT # 3	SAMPLE EVENT # 4	SAMPLE EVENT # 5	SAMPLE EVENT # 6	SAMPLE EVENT # 7	SAMPLE EVENT # 8			
DATE OF SAMPLE	6-8-93	9-30-93	10-26-93	10-26-93	10-26-93	10-26-93	8/26/94	12-13-0			
LOCATION OF SAMPLE	CLOSE TO MIDDLE TDP		5' FROM NORTH SIDE OF PIT	5' FROM EAST SIDE OF PIT	5' FROM SOUTH SIDE OF PIT	5' FROM WEST SIDE OF PIT	TDP	TDP			
TYPE OF SAMPLE: (GRAB/COMPOSITE)	WTL	SOIL COMPOSITE	COMPOSITE	COMPOSITE	COMPOSITE	COMPOSITE	SP	SP			
DEPTH OF SAMPLE(S)	SURFACE	0-3'	0-3'	0-3'	0-3'	0-3'	0-3'	0-3'			
TEMPERATURE OF SAMPLE		61°	58°	60°	58°	61°	74°	-			
FIELD METHOD RESULTS (PPMS)											
TPH VAPORS (EQUIV UNITS)		218	0	0	0	0	49	-			
BENZENE RESPONSE FACTOR		.47	-	-	-	-	.47	-			
ADJUSTED FOR BENZENE EQUIV UNITS							24	-			
LAB RESULTS IN PPM: METHOD (418.1 OR MOD 8015)		418.1					418.1	418.1			
TPH	NA	989					177	40			
NOTES	PULLED SAMPLE FOR TPH/BTEX	GW LEVEL ± 18" BELOW SURFACE, PULLED TPH ÷ BTEX	ND ON DUM	ND ON DUM	ND ON DUM	ND ON DUM	RESAMPLED PIT	RESAMPLE AFTER MIXING 30 YDS CLEAN SOIL			
	PULLED MTR SAMPLE FROM MIDDLE OF PIT ON WEST SIDE										
	BTEX NA										

**TOTAL PETROLEUM HYDROCARBONS
EPA METHOD 418.1****Conoco Inc.**

Project: Soil TPH
Matrix: Soil
Condition: Intact/Cool

Date Reported: 12/20/94
Date Sampled: 12/13/94
Date Received: 12/13/94
Date Extracted: 12/20/94
Date Analyzed: 12/20/94

Sample ID	Lab ID	Result (mg/kg)	Detection Limit
Salmon #1 TDP	2236	40	19

ND - Analyte not detected at stated detection level.

References:

Method 418.1: Petroleum Hydrocarbons, Total Recoverable, USEPA Chemical Analysis of Water and Waste, 1978.

Method 3550: Ultrasonic Extraction of Non-Volatile and Semi-Volatile Organic Compounds from Solids, USEPA SW-846, Rev. 1, July 1992.

Analyst:



Reviewed:

