

District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
District III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

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

Risk

SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

Sampled
water
Table

PIT REMEDIATION AND CLOSURE REPORT

Operator: KOCH Exploration Co. Telephone: 505) 334-9111
Address: P.O. Box 489 Aztec, NM 87410
Facility or: Dryden 2E
Well Name _____
Location: Unit or Qtr/Qtr Sec I sec 22 T28N R 8W County San Juan
Pit Type: Separator ☒ Dehydrator _____ Other _____
Land Type: BLM ☒, State _____, Fee _____, Other _____

Pit Location: Pit dimensions: length 20', width 20', depth 19'
(Attach diagram) Reference: wellhead ☒, other _____
Footage from reference: 85
Direction from reference: 65 Degrees _____ East North ☒
_____ of _____
_____ West South ☒

Depth To Ground Water: Less than 50 feet (20 points)
(Vertical distance from 50 feet to 99 feet (10 points)
contaminants to seasonal Greater than 100 feet (0 Points) 20
high water elevation of
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: Less than 200 feet (20 points)
(Horizontal distance to perennial 200 feet to 1000 feet (10 points)
water, ponds, rivers, streams, creeks, Greater than 1000 feet (0 points) 0
irrigation canals and ditches)

RANKING SCORE (TOTAL POINTS): 20

Date Remediation Started: 9/12/95 Dated Completed: 4/28/98

Remediation Method: Excavation ☒ Approx. cubic yards 300
(Check all appropriate sections) Landfarmed ☒ Insitu Bioremediation ☐

Other ☐

Remediation Location: Onsite ☒ Offsite ☐
(ie. landfarmed onsite, name and location of offsite facility)

General Description Of Remedial Action: Contaminated soils were removed and placed in an on-site landfarm. Groundwater was encountered @ 25'. Auger holes were drilled to establish extent of contamination. All earthen pits were replaced with tanks and secondary boundaries.

Ground Water Encountered: No ☐ Yes ☒ Depth 25'

Final Pit:
Closure Sampling:
(if multiple samples, attach sample results and diagram of sample locations and depths)

Sample location pit bottom, mid-pit

Sample depth 19'

Sample date 9/13/95 Sample time 1430

Sample Results

Benzene(ppm) N/A

Total BTEX(ppm) N/A

Field headspace(ppm) 2500+

TPH 14,150

EPA 8015M

Gas. Range 2603 ppm

Dis. Range 3841 ppm

Ground Water Sample: Yes ☒ No ☐ (If yes, attach sample results)

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

DATE 8/10/00

SIGNATURE Donald L. Johnson

PRINTED NAME Donald L. Johnson
AND TITLE Operations Manager

OFF: (505) 325-8786



LAB: (505) 325-5667

TOTAL PETROLEUM HYDROCARBONS

Attn: *Shawn Adams*
Company: *Contract Environmental Services, Inc.*
Address: *P.O. Box 505*
City, State: *Kirtland, NM 87417*

Date: 13-Sep-95
COC No.: 3181
Sample No. 8186
Job No. 2-1000

Project Name: *Koch Exploration - Dryden 2E*
Project Location: *DRYD-100 Pit Bottom*
Sampled by: SA Date: 13-Sep-95 Time: 2:30
Analyzed by: BV Date: 13-Sep-95
Type of Sample: *Soil*

Laboratory Analysis

Laboratory Identification	Sample Identification	Total Petroleum Hydrocarbons
8186-3181	<i>Koch Exploration - Dryden 2E</i> <i>DRYD-100 Pit Bottom</i>	14,150 mg/kg

Method - EPA Method 418.1 Total Petroleum Hydrocarbons

Approved by: *[Signature]*
Date: 9/13/95

P. O. BOX 2606 • FARMINGTON, NM 87499

TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT

OFF: (505) 325-8786



LAB: (505) 325-5667

TOTAL PETROLEUM HYDROCARBONS

Attn: *Shawn Adams*
 Company: *Contract Environmental Services, Inc.*
 Address: *P.O. Box 505*
 City, State: *Kirtland, NM 87417*

Date: *7-Oct-95*
 COC No.: *3181*
 Sample No. *8186*
 Job No. *2-1000*

Project Name: *Koch Exploration - Dryden 2E*
 Project Location: *DRYD-100 Pit Bottom*
 Sampled by: *SA* Date: *13-Sep-95* Time: *2:30*
 Analyzed by: *DC* Date: *5-Oct-95*
 Type of Sample: *Soil*

Laboratory Analysis

Analyte	Result	Units of Measure	Detection Limit	Units of Measure
<i>Gasoline Range (C5 - C9)</i>	<i>2603.0</i>	<i>mg/kg</i>	<i>5.0</i>	<i>mg/kg</i>
<i>Diesel Range (C10 - C28)</i>	<i>3840.9</i>	<i>mg/kg</i>	<i>5.0</i>	<i>mg/kg</i>
<i>TOTAL</i>	<i>6443.8</i>	<i>mg/kg</i>		

Quality Assurance Report

GRO QC No.: *0429-STD*
 DRO QC No.: *0430-STD*

Calibration Check

Analyte	Method Blank	Units of Measure	True Value	Analyzed Value	% Diff	Limit
<i>Gasoline Range (C5 - C9)</i>	<i>< 10</i>	<i>ppb</i>	<i>1,351</i>	<i>1,422</i>	<i>5.3</i>	<i>15%</i>
<i>Diesel Range (C10 - C28)</i>	<i>< 5</i>	<i>ppm</i>	<i>2,000</i>	<i>1,988</i>	<i>0.6</i>	<i>15%</i>

Matrix Spike

Analyte	1- Percent Recovered	2- Percent Recovered	Limit	%RSD	Limit
<i>Gasoline Range (C5-C9)</i>	<i>97</i>	<i>104</i>	<i>(70-130)</i>	<i>5</i>	<i>20%</i>
<i>Diesel Range (C10-C28)</i>	<i>98</i>	<i>101</i>	<i>(70-130)</i>	<i>2</i>	<i>20%</i>

Method - SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by: *Ja H*
 Date: *10/7/95*

P. O. BOX 2606 • FARMINGTON, NM 87499

• HELPING YOU REFINING INDUSTRY WITH THE ENVIRONMENT •



CHAIN OF CUSTODY RECORD

3181

Date: 9/13/95

Page 1 of 1

657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

Purchase Order No.:		Job No.	
Name: <u>Don Johnson</u>		Title:	
Company: <u>Koch Exploration</u>		Company: <u>CONTACT ENVIRONMENTAL SERVICES INC</u>	
Address: <u>PO Box 469</u>		Mailing Address: <u>PO Box 505</u>	
City, State, Zip: <u>Farmington NM 87410</u>		City, State, Zip: <u>Farmington NM 87417</u>	
Sampling Location:		Telephone No.:	
Telephone No.:		Telefax No.:	
REPORT TO		RESULTS TO	
Name: <u>Don Johnson</u>		Name: <u>Sharon Adams</u>	
Company: <u>Koch Exploration</u>		Company: <u>CONTACT ENVIRONMENTAL SERVICES INC</u>	
Address: <u>PO Box 469</u>		Mailing Address: <u>PO Box 505</u>	
City, State, Zip: <u>Farmington NM 87410</u>		City, State, Zip: <u>Farmington NM 87417</u>	
Telephone No.:		Telephone No.:	
Telefax No.:		Telefax No.:	
Number of Containers		ANALYSIS REQUESTED	
1		1	
2		2	
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6		6	
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451			

DATE: 9/12/95

LOCATION: DRYDEN 2E

NOTES: CAME TO LOCATION TO EXCAVATE
CONTAMINATED SOIL. SAND CLEARED TO
19'. LEFT CONTAMINATION IN HOLE
DUG UNTIL 9' DEEP. REMOVED TO
DRYDEN 2

SAMPLE NO.	DEPTH	PID (PPM)
------------	-------	-----------

2'	2500+
----	-------

6'	2500+
----	-------

10'	2500+
-----	-------

14'	2500+
-----	-------

19'	2500+
-----	-------

SOIL SAMPLE 402. TAKEN FOR PIT

BOTTOM CLEARANCE	RESULTS (PPM)
------------------	---------------

DRYD-100 PIT bottom	14,150
---------------------	--------

AND DRYD-100	GAS 2,603	DIESEL 3840.9
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9/13/95

DRYDEN 2

TOOK 402. PIT BOTTOM SAMPLE

SAMPLE NO.	RESULTS (PPM)
------------	---------------

DRYD-101 PIT bottom	3,456
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AND DRYD-101	GAS 326.3	DIESEL 725.2
--------------	-----------	--------------

TOTAL PETROLEUM HYDROCARBONS

EPA Method 418.1

Contract Environmental Services, Inc.

Project ID: Dryden #2E
Sample Matrix: Soil
Preservative: Cool
Condition: Intact

Report Date: 10/27/95
Date Sampled: 10/19/95
Date Received: 10/20/95
Date Extracted: 10/26/95
Date Analyzed: 10/26/95

Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
DRYD - 555	1716	ND	20.3
DRYD - 556	1717	ND	16.8
DRYD - 557	1718	ND	20.3
DRYD - 558	1719	ND	14.9
DRYD - 559	1720	ND	18.3
DRYD - 560	1721	ND	21.2
DRYD - 561	1722	ND	23.8
DRYD - 562	1723	ND	17.9

ND- Analyte not detected at the stated detection limit.

Reference: 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:


Analyst


Review

PURGEABLE AROMATICS

Contract Environmental Services, Inc.

Project ID: Dryden #2E
Sample ID: DRYD - 999
Lab ID: 1724
Sample Matrix: Water
Preservative: Cool
Condition: Intact

Report Date: 10/25/95
Date Sampled: 10/19/95
Date Received: 10/20/95
Date Analyzed: 10/25/95

Target Analyte	Concentration (ug/L)	Detection Limit (ug/L)
Benzene	ND	0.50
Toluene	0.67	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	1.03	1.00
o-Xylene	ND	0.50

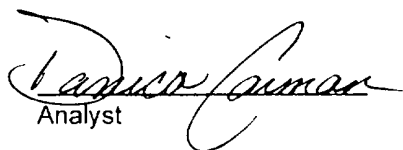
Total BTEX**1.70**

ND - Analyte not detected at the stated detection limit.

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Trifluorotoluene	101	88 - 110%
	Bromofluorobenzene	104	86 - 115%

Reference: Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209,
Oct. 1984.

Comments:


Analyst


Review

ENVIRONMENTAL LABORATORY

PROJECT MANAGER: _____
Analytica Lab I.D.: _____

Analytica Lab I.D.:

COURTNEY ENVIRONMENTAL SERVICES,
PO BOX 505 KIRKLAND WA 98033

Fax:

AME

Bill To:

Koch Extraction

Company:

mil. Oro Tonalá

Address:

EX-100 489 A 260. 07412

Page 1 of 2



2895

54

1

1

1

1

4

Page 2 of 2

ENVIRONMENTAL LABORATORY									
807 S. CARLTON • FARMINGTON, NM 87401 • (505) 326-2395									
PROJECT MANAGER: _____									
Analytica Lab I.D.: _____									
Company: _____									
Address: _____									
Phone: _____									
Fax: _____									
Bill To: _____									
Company: _____									
Address: _____									
Sample ID									
Date									
Time									
Matrix									
Petroleum Hydrocarbons (418.1)									
Gasoline / Diesel (mod. 8015)									
Gasoline (GRO)									
Aromatic HCs BTEX/MTBE (602/8020)									
Chlorinated Hydrocarbons (8010)									
SDWA Volatiles (502.1/503.1)									
Chlorinated Pesticides / PCBs (608 / 8080)									
Herbicides (615 / 8150)									
Volatiles GC/MS (624 / 8240 / 8260)									
Base / Neutral / Acid GC/MS (625 / 8270)									
Polynuclear Aromatic Hydrocarbons (8100)									
TCLP Extraction									
Other (specify):									
Cation / Anion									
Specific Cations (specify):									
Specific Anions (specify):									
BOD / Fecal / Total Coliform									
Solids : TDS / TSS / SS									
Nutrients: NH4+ / NO2- / NO3- / TKN									
Oil and Grease									
Other (specify):									
Priority Pollutants									
RCRA Metals (Total)									
RCRA Metals TCLP (1311)									
Other (specify):									
Comments									

KOCH

DATE: 10/19/95

LOCATION: DRYDEN 2E

NOTES: CAME TO LOCATION TO DRILL
PIERS AND SAMPLE AROUND
EXCAVATION, PHILIP ENVIRONMENTAL
DID DRILLING ARRIVE 8:00 AM.
DEEPEN HOLE 3' INTO GROUNDWATER
TO CATCH A SAMPLE FOR THE LAB
2 - 40 mL VOLS, SOIL SAMPLES
TAKEN FROM LAB @ 20-22',
AND 25-27' DRYD-SSS AND
DRYD-SSG RESPECTIVELY.
4 OZ. SOIL SAMPLES FERTH
BY EPA 418.1. GROUTED HOLE
TO SURFACE, TD = 28'.
GROUNDWATER AT 25'

BORING #1 (LEG 2)

DEPTH P.O (AUG) P.O (PENTAGON)

5-7' 3.0 10.6

10-12' 4.9 16.3

15-17' 2.6 7.3

20-22' 4.3 10.1

25-27' 2.9 7.8

* GROUNDWATER AT 25'

Koch

DATE: 10/19/95

LOCATION: DRYDEN 2E

NOTES: FIELD SKETCH FOR ANAL

EXPLORATION

SAMPLE NO. LOCATION RESULTS (PPB)

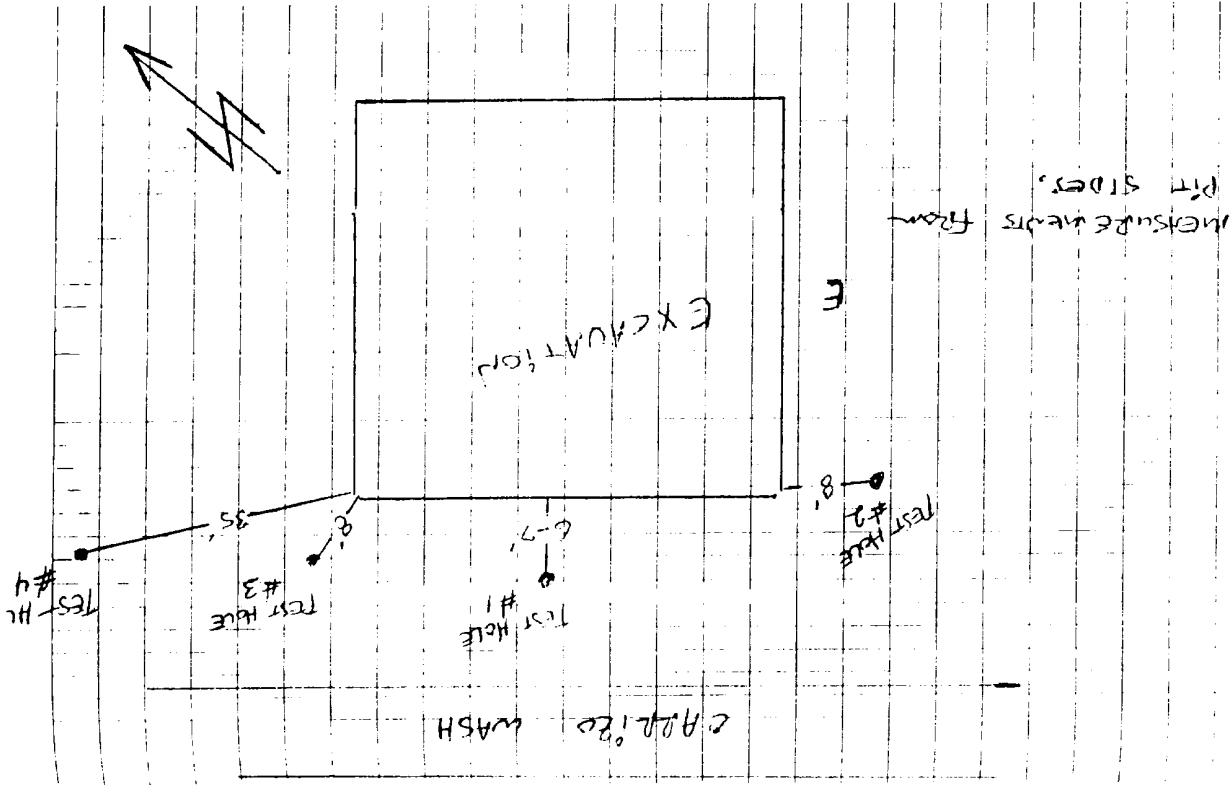
DRYD-999 Boring #1 28' deep B NO

T 0.67

E NO

X 1.03

tot = 1.70 ppb



FOCH

DATE: 10/19/95

LOCATION: DRYDEN 2E

NOTES: NO WATER SAMPLE TAKEN

AT BOTTOM, GROUNDWATER EN-

COUNTERED 25', GROUTED HOLE TO

SURFACE. SOIL SAMPLE TAKEN FOR

LAB CONFIRMATION 4 OZ GLASS

TRH by EPA 418.1 @ 20-22', and

25-27' SAMPLES DRYD-557 and

DRYD-558 TD=25'

SAMPLE NO.	LOCATION	RESULTS (PPM)
DRYD-555	Hole 1 20-22' Deep	ND
DRYD-556	Hole 1 25-27' Deep	ND
DRYD-557	Hole 2 20-22' Deep	ND
DRYD-558	Hole 2 25-27' Deep	ND
DRYD-559	Hole 3 20-22' Deep	ND
DRYD-560	Hole 3 25-27' Deep	ND
DRYD-561	Hole 4 21.5-24.5 Deep	ND
DRYD-562	Hole 4 25-27' Deep	ND

BORING - 2E (5r)

DEPTH	PID (AUG)	PID (PPM)
5-7'	3.4	8.4
10-12'	3.4	8.4
15-17'	4.2	10.8
20-22'	4.0	9.6
25-27'	0.8	2.9

KUCH

DATE: 10/19/95

LOCATION: DRYDEN RE

HOLE #3

NOTES: SAMPLING INTERVALS ALL
CLEAR. AUGERS BROUGHT OUT
OF HOLE WERE CONTAMINATED
FROM 10-20' DARKEST ON
AUGERS! SURPRISE! TP=25'
GROUNDWATER AT 25'.
SS9 - S60?

HOLE #3 (WEST)

DEPTH PID(AUG) PID(PENK)

5-7' 1.0 4.7

10-12' 2.6 6.9

13-17' 4.0 7.5

20-22' 3.7 5.2

25-27' 5.1 10.3

HOLE #4

DEPTH PID(AUG) PID(PENK)

5-7' 2.4 6.2

10-12' 1.9 7.8

13-15' 2.9 7.6

15-17' 2.9 8.7

17.5-19.5 2.9 8.7

20-22' 3.2 7.1

22.5-24.5' 6.5 - 2.8

25-27' 6.8 2.4

(S61) (S62)

(HOLE)

NOTES: NO DISCOLORATION, NO STAIN,
NO ODOR, GROUT ALL WELL BORES
TP=25' BOTTLE # S61 & S62

KCMT

DATE: 10/12/95

LOCATION: DRYDEN 2E

NOTES: CAME TO LOCATION TO DISC SOIL
FARM, SUBMIT TO CLAUDE
KUBOTA 4X4 RED TRACTOR L2950
DISC SOIL FARM, REPLACE BENTON
WITH FRONT-END LOADER

CLEARUP SCORE 100 ≥ 19

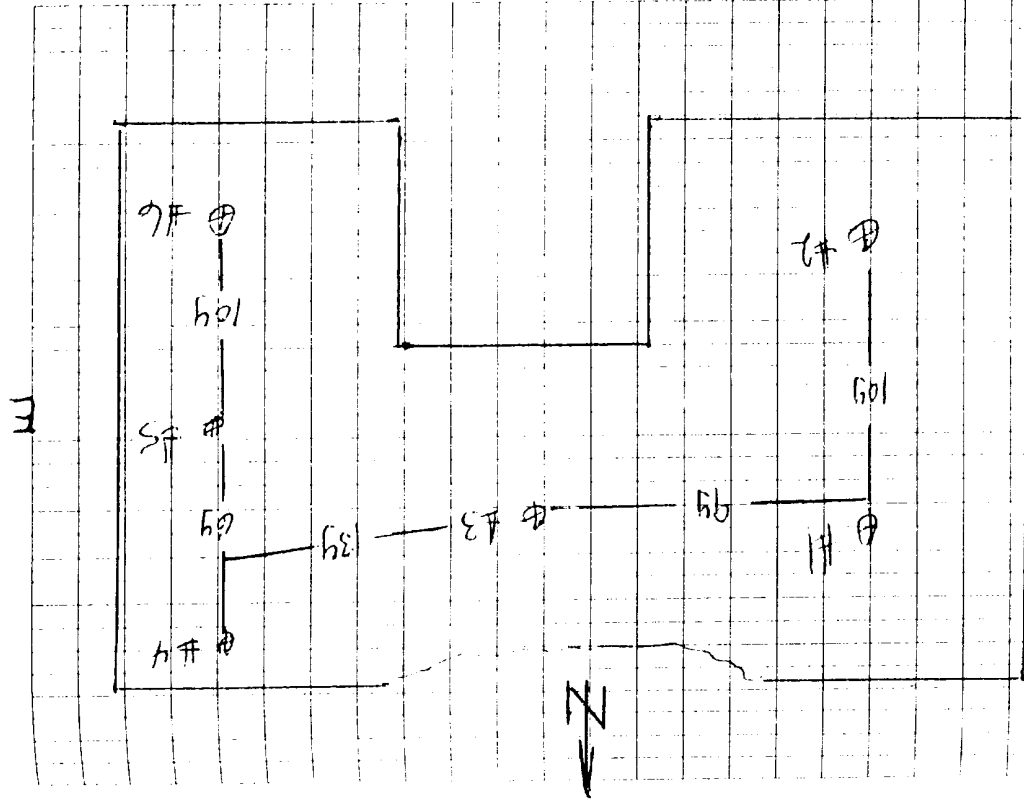
SOIL FARM LOOKS GOOD

NO BLACK OR GRAY SOIL STAINING

NICE EVEN COLOR

SAMPLE NO	P10 (PPM)
#1	96
#2	57
#3	125
#4	728
#5	324
#6	909

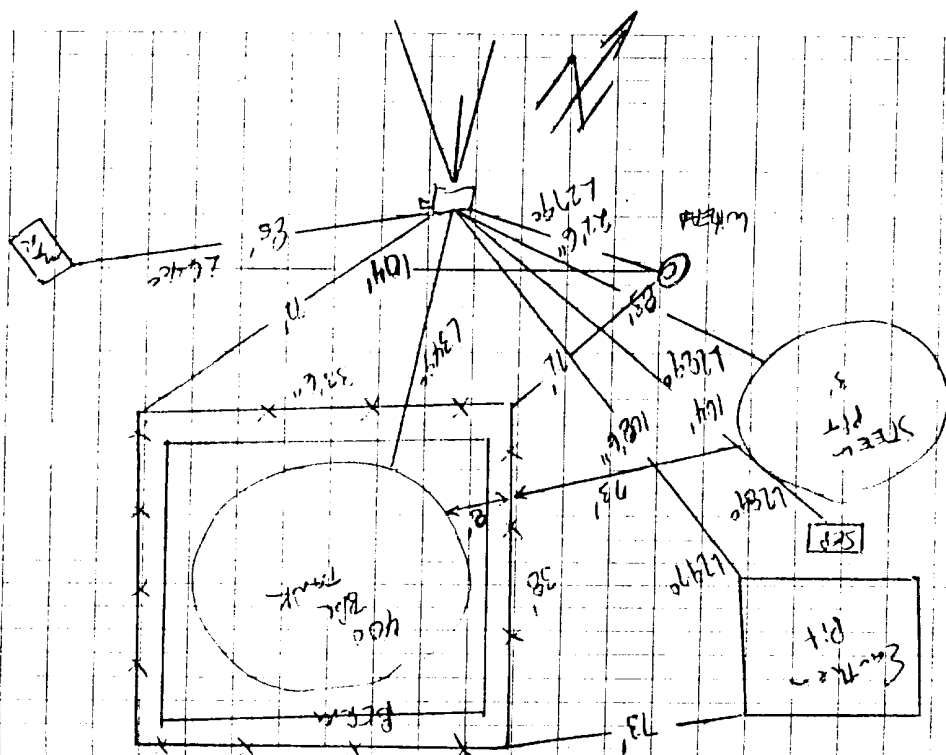
AUGER SAMPLES REQUIRED BY DENNY
FOUST. P100 WE HAVE NOT IMPACTED GROUND
WATER. 3 TEST HOLES 1 UPGRADIENT, 2
DOWNGRADIENT. DEFINE WEST AND HORIZONTAL
EXTENT OF CONTAMINATION.



DATE: 9/14/95

Location: Dryden ZE

Notes. came to location to survey
in surface equip and measure
distances for site plan



KOCH Exploration Company Risk Analysis

Prepared by:

Contract Environmental Services, Inc

Prepared for:

Oil Conservation Division -District III

Date: 7/31/97

Location: Dryden 2E-Separator Pit Unit-I, Sec22, T28N, R8W

Lease Number: NM—
013861

Resources

Ground Water: 25 feet (auger hole drilling)

Closest Surface Water: No down gradient perennial bodies within 1000 feet (visual inspection of the area)

Water Sources: No private, domestic water source is located within 1000 feet of this site.

Risk Management

Natural Barriers: Soil is one natural barrier that will protect groundwater from site contamination.

Additional Investigation: Four auger holes were drilled on this site. Three of the four holes were drilled within 8 feet of the original earthen pit, the fourth was drilled at a distance of 35 feet from the pit. All four auger holes were drilled to a depth of 25-27 feet. All holes were drilled on the southwest side of the pit, toward the Carrizo Wash.

Ground water was encountered at 25 feet in each auger hole.

Field-testing and laboratory analysis was done on the soil and water from these test holes. The results of this analysis and testing are shown in Table 1 on the following page. All data is supported with laboratory result sheets and field data sheets found in this closure package.

All holes were grouted after sampling was completed to assure ground water was protected.

Risk Analysis Contract Environmental Services, Inc.
Post Office Box 3376
Farmington, New Mexico 87499

Additional
Investigation: (continued)

Table 1. Auger hole field and laboratory results summary.

Auger Hole	Sample			
	Depth	Field Headspace Results	TPH* Laboratory Results	Remarks
	(feet)	(PPM)	(PPM)	
Test Hole 1	5-7	10.6		
	10-12	10.3		
	15-17	7.3		
	20-22	10.1	ND	
	25-27	7.8	ND	
Water Sample	28	N/A	1.7	Total-BTEX
Test Hole 2	5-7	8.4		
	10-12	8.4		
	15-17	10.8		
	20-22	9.6	ND	
	25-27	2.9	ND	
Test Hole 3	5-7	4.7		
	10-12	6.9		
	15-17	7.5		
	20-22	8.2	ND	
	25-27	10.3	ND	
Test Hole 4	5-7	8.2		
	10-12	7.8		
	13-15	7.6		
	15-17	8.7		
	17.5-19.5	8.7		
	20-22	7.1		
	22.5-24.5	2.8	ND	
	25-27	2.4	ND	

* Total Petroleum Hydrocarbons (TPH)

Risk

The following table and conclusion summarize the risk this contamination sources poses to the ground water.

Table 2. Total risk table

RISK	CHOICE
Extremely Low	
Low	
Moderate	X
High	

The ground water under this site is at danger of being impacted by contamination from this site. From the low laboratory and field-test results for the four auger holes it is concluded that the **risk of resource contamination is moderate.**

Risk Analysis

Contract Environmental Services,
 Inc. Post Office Box 3376
 Farmington, New Mexico 87499

Farmington, New Mexico 87499

LAND FARMS

Test all Land Farms before turning

Comp 10

	Well	Land Farm	Prior LF PID	Present PID	Sample to Lab	SPRAYED N2	COMMENTS
8-25	Dryden 2E	yes	see notes	North 1.0 ppm West 0.0 ppm South 0.0 ppm	2 Composite samples to Lab	Did not Turn Land Farm	2-8015 m to Lab Dryd-400 + 401
8-25	Dryden 2	yes	see notes	North 0.0 ppm South 0.0 ppm	1 Composite to Lab 8015m	Did not Turn Land Farm	Dryd-402 to Lab 8015m to Lab not requested
8-25	Dryden 1E	yes	none	North 0.0 ppm	1 Composite sample (combined)	Did not Turn Land Farm	Dryd-403
	Dryden 1	Already Cleared Lab Analysis (West-67, Center-43, East-50 ppm)					
8-26	Mansfield 1	yes	none	West LF 0.0 ppm East LF 0.0 ppm	2 Composite samples to Lab	Did not Turn Land Farm	2-8015 m to Lab Mans #600 + #601
8-26	Mansfield 1E	yes	none	East 0.0 West 0.0 Center 0.0	1 Composite sample (combined)	Did not Turn Land Farm	1-8015 m sample to Lab Mans #602
8-25	Gonsales 1	yes	none	NW 0.0 ppm SW 0.0 ppm SE 0.0 ppm	2 Composite samples to Lab	Did not Turn Land Farm	2-8015 m to Lab (NE + SE) + (SW + NW) Composite samples
8-26	Moore 1	NO	NO	LAND FARM			
	Howell 1	NO	No Land Farm				
	Gardner 3A	NO	No Land Farm				
	Gardner 3	NO	No Land Farm				
	Gardner 4A	NO	No Land Farm				
8-19	Gardner 4	yes	none	North 0.8 ppm South 2.0 ppm	NO	Turned Land Farm	No Lab sample PID note re: turning, recently
8-19	Blancett 1	yes	need updates	West pit 16.0 ppm East 0.0 ppm North 1.8 ppm	yes	Turned Land Farm	Test 1 composite sample of each land farm to lab
8-19	Gardner 5	yes	none	East 1.4 ppm West 16.0 ppm	yes	Turned Land Farm	Test 1 composite sample to Lab
8-19	Walker 1R	yes	none	East 2.9 ppm Middle 100 ppm West 2.2 ppm	NO	Turned Land Farm	P3 in note re: working, turned 11 only please test w/3
8-19	Walker 1A	yes	none	Composite 0.9 ppm	1 Composite yes	Turned Land Farm	Slow and check PID note in trip
8-26	Walker 2A	yes	see notes	East 0.0 ppm Center 0.0 ppm West 0.0 ppm	1 Composite yes	Did not Turn Land Farm	1 Composite sample 8015m to Lab Walk #603
8-26	Walker 2	yes	none	NW 1.0 ppm SW 1.0 ppm SE 0.0 ppm NE 0.0 ppm	NO	Turned Land Farm	NO sample to Lab due to spots in land farm oil stained samples taken in sandy soil
8-26	Lambe 3A	yes	none	West 0.0 ppm Center 0.0 ppm East 0.0 ppm	1 Composite yes	Did not Turn Land Farm	1 composite sample 8015m Lambe #604
	Lambe 3	NO	No Land Farm				
8-26	Lambe 1A	yes	none	North 1.0 ppm South 2.0 ppm East 3.0 ppm West 0.0 ppm	2 Composite w/3 samples each	Did not Turn LF	2 Composite samples To Lab 8015m Lambe #605 + 606
8-26	Lambe 2	yes	none	NW 0.0 ppm NE 0.0 ppm SE 0.0 ppm SW 0.0 ppm	2 Composite w/3 samples each	Did not Turn LF	2 Composite samples To Lab 8015m Lambe #607 + 608
8-26	Cain 1A	yes	none	LF #1 0.0 ppm LF #2 0.0 ppm LF #3 0.6 ppm	1 Composite sample w/3 samples	Did not Turn	1 composite sample To Lab 8015m Cain #609
	Lambe 2A	NO	No Land Farm				
8-26	Lambe 1	yes	none	West 0.0 Center 0.0 East 0.1	1 Composite of all 3 samples	Turned Land Farm	1 composite sample to Lab 8015m Lambe #610

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: **Shawn Adams**
 Company: **Contract Environmental Services, Inc.**
 Address: **P.O. Box 3376**
 City, State: **Farmington, NM 87499**

Date: **2-Sep-97**
 COC No.: **4352**
 Sample No.: **15922**
 Job No.: **2-1000**

Project Name: **Koch Exploration - Dryden 2E**
 Project Location: **DRYD-401; Soil Farm, Comp. 1&2**
 Sampled by: **SAA/PRC** Date: **25-Aug-97** Time: **13:30**
 Analyzed by: **DC/HR** GRO Date: **28-Aug-97**
 Sample Matrix: **Soil** DRO Date: **29-Aug-97**

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Gasoline Range Organics (C5 - C9)	ND	mg/kg	0.5	mg/kg
Diesel Range Organics (C10 - C28)	17	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

GRO QC No.: 0537 STD

DRO QC No.: 0548 STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
Gasoline Range (C5 - C9)	ND	ppb	1,801	1,752	2.8	15%
Diesel Range (C10 - C28)	ND	ppm	200	197	1.5	15%

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
Gasoline Range (C5-C9)	91	101	(80-120)	10	20%
Diesel Range (C10-C28)	80	81	(75-125)	1	20%

Method: SW-846 EPA Method 8015A mod - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by: *[Signature]*
 Date: *9/2/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT

CHAIN OF CUSTODY RECORD



ON SITE
TECHNOLOGIES, LTD.

657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

Date: 8/27/97

Purchase Order No.:		Job No.					
Name: DON JOHNSON		Title:					
Company: KOCH EXPLORATION		Company: CONTRACT ENVIRONMENTAL SERVICES, INC					
Address: P.O. Box 489		Mailing Address: P.O. Box 3376					
City, State, Zip: ARIZONA NM 87410		City, State, Zip: FARMINGTON NM 87499					
Sampling Location:		Telephone No.: 325-1198					
DEYDEN 2E, DRYDEN 1E, MANSFIELD 1, WALKER 2A DRYDEN 2, GONSALES 1, MANSFIELD 1E, LAMBE 3E Sampler: SAA / PRC		ANALYSIS REQUESTED 402. Glass Jar EPA 8015 MOD.					
SAMPLE IDENTIFICATION		SAMPLE		MATRIX	PRES.	Containers	LAB ID
		DATE	TIME				
DRYD-400, DRYDEN 2E, COMP 3+4	8/25/97	1:30	Soil	NO	1	X	15771-4352
DRYD-401 " " COMP 1+2 "	" "	" "	"	"	1	X	15772
DRYD-402, DRYDEN 2E, COMP 1 "	" "	2:05	"	"	1	X	15773
DRYD-403, DRYDEN 1E, COMP 1+2 "	" "	2:30	"	"	1	X	15774
GONSALES-404, GONSALES 1, COMP 1+2 "	" "	3:45	"	"	1	X	15775
GONSALES-405, GONSALES 1, COMP 3+4 "	8/25/97	3:45	"	"	1	X	15776
MANSFIELD-600, MANSFIELD 1, COMP 1, 2, 3 "	8/26/97	10:00	"	"	1	X	15777
MANSFIELD-601, MANSFIELD 1, COMP 4, 5, 6 "	" "	10:00	"	"	1	X	15778
MANSFIELD-602, MANSFIELD 1E, COMP 1, 2, 3 "	" "	10:30	"	"	1	X	15779
WALKER-603, WALKER 2A, COMP 1, 2, 3 "	" "	1:15	"	"	1	X	15780
LAMBE-604, LAMBE 3E, COMP 1, 2, 3 "	8/26/97	3:15	"	ICE	1	X	15781
Relinquished by: <i>[Signature]</i>		Date/Time: 8/27/97 9:00		Received by: <i>[Signature]</i>		Date/Time: 8/27/97 10:00	
Relinquished by:		Date/Time:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Received by:		Date/Time:	
Method of Shipment:		Rush		24-48 Hours		10 Working Days	
Authorized by: <i>[Signature]</i>		Date: 8/27/97		Special Instructions:			

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 30-Apr-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Dryden 2E
Work Order:	9804035	Client Sample ID:	DRYD-101 Soil Farm East
Lab ID:	9804035-01A	Matrix:	SOIL
Project:	Koch Exploration	Collection Date:	4/22/98 10:30:00 AM
		COC Record:	4354

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	.62	25		mg/Kg	1	4/28/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C6-C10	ND	180		µg/Kg	1	4/26/98
Surr: Trifluorotoluene	92.6	70-130		%REC	1	4/26/98

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

1 of 1

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

ON SITE

CHAIN OF CUSTODY RECORD

4324

TECHNOLOGIES, LTD. 657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

Date: 4/23/00

Page 1 of 1

Purchase Order No.:		Job No.		Name: <u>Don Tolusan</u>		Title:	
SEND INVOICE TO		Company: <u>KOCH Expl.</u>		Company: <u>Continental Environmental Services Inc</u>			
		Address: <u>P.O. Box 4849</u>		Mailing Address: <u>P.O. Box 2376</u>			
		City, State, Zip: <u>Albuquerque NM 87103</u>		City, State, Zip: <u>Santa Fe NM 87505</u>			
		Sampling Location: <u>Diversion SE Garden 4 Walker Rd</u>		Telephone No. <u>325-1198</u>		Telefax No.:	
		Blancett Coal Gardens		ANALYSIS REQUESTED			
Sampler: <u>Spring</u>							
		SAMPLE IDENTIFICATION		LAB ID			
		DATE		TIME		PRES.	
		12:00		12:00		12:00	
		12:07		12:07		12:07	
		12:08		12:08		12:08	
		12:09		12:09		12:09	
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