1R - 335

REPORTS

DATE:

1998

Sheeley, Paul IRO 335

From: Price, Wayne
Sent: Wednesday, December 05, 2001 3:48 PM
To: Sheeley, Paul
Cc: Olson, William
Subject: Site 33 playa

Dear Paul please make us a copy of the entire file and send it up here!

Thanks Wayne

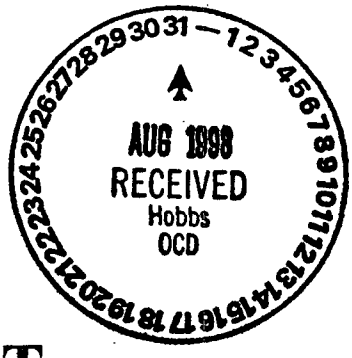
Presented to:

CONOCO INC.

1410 West County Road
Hobbs, New Mexico 88240

PLAYA SITE

Unit L Sec.33, T18S, R38E of Lea Co. NM



SITE ASSESSMENT REPORT

From:

Western Environmental Consultants
4007 Lovington Hwy.
Hobbs, New Mexico 88240

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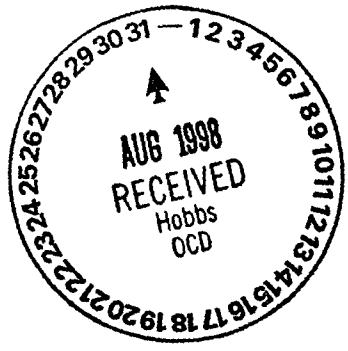
- **Overview of Site**
- **Third Party Lab Analysis**
- **Site maps**
- **Site Photos**
- **Aerial Photos**

Overview of Site



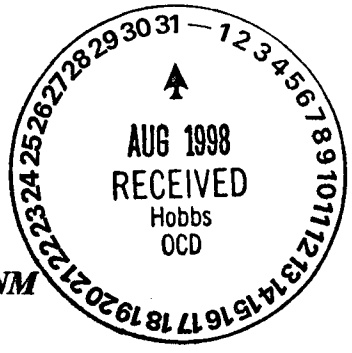
WESTERN ENVIRONMENTAL CONSULTANTS

P.O. Box 1816
bbs, New Mexico 88241

Phone (505) 392-5021
Fax (505) 397-2597

August 17, 1998

Conoco Inc.
1410 West Co. Rd.
Hobbs, New Mexico 88240



Attn. Mr. John Inlow
SHEAR Specialist

RE: MSA of the Playa Located in Unit L Sec.33, T18S, R38E of Lea Co. NM

Western Environmental Consultants (WEC) would like to take this time to thank you and Conoco Inc. for the opportunity to work with you on the MSA of the Playa located at the above site. The following is an overview and summary with analytical of the findings and conclusions found at the Playa site.

Overview of Site

The Playa located in Unit Letter L Sec.33, T18S, R38E of Lea County New Mexico is an historic site that has been impacted numerous times in the past and most recently from a flow line leak. The site shows cross contamation with floatables visible over the whole site from rains that have filled the Playa with water. There is evidence of domestic waste over the site such as burn piles, oil cans and trash some of which could be hazardous.

The Playa is split in half by a road that runs east and west with two flowlines, one on the north side of the road that is under ground and one on the south side that is above ground. This report mostly deals with the south side even though there are signs of cross contamation from the north side of the Playa. A hand auger was used to collect soil samples from three areas on the south side, HAB # 1, HAB # 2 and HAB # 3 you may refer to the site map for the exact location.

The first soil boring HAB # 1 was taken in the center of the Playa about 50' south of the surface flowline, this area shows evidence of cross contamation with visible floatables and domestic waste. The lab analysis showed TPH levels that are above the MCL's for the NMOCD witch regulates clean up of the Oil and Gas Industry.

which "witch"

All of the samples from the soil borings were sent to a third party lab to be tested for TPH, BTEX, Pb and Cr refer to lab analysis for the levels.

The well located on the south side of the playa and the old septic pit in the southwest corner show some evidence of impact that has happened in the past. A soil sample was taken in this area using a hand auger to collect the samples. This soil boring is HAB # 2 with samples taken from 4" to 6" in depth and at 2' you may refer to the site map for the location. This sample showed MCL's for TPH that were above the NMOCD guidelines for clean up.

The well located on the west side of the Playa # 33-131 shows evidence of impact that has come from the location in the northeast corner and has run into the playa. A soil sample HAB # 3 was taken in a visible hot spot east of the location on the west side of the Playa. Samples were taken from 4" to 6" in depth and at 2' refer to the site map for the location. These samples showed MCL's for TPH that were above the NMOCD guidelines for clean up.

A review of the aerial photos from 1964 shows that there may have been some pits in the Playa that are undefined as to there use at this time. This photo shows that there may have been some type of release on the north side of the Playa that has run into the Playa from the north. The 1978 photos show that the pits have been taken out of service with signs of dirt work in the Playa. This photo shows signs that impacted or source material has been pushed across the Playa from the north. This was confirmed during the site walk. The 1988 photos still show the scares of the old pit on the north side of the Playa.

SCARS

Findings

1. Pursuant to NMOCD guidelines for clean up, the site at an elevation <50' above the top of ground water has MCL's for TPH that are above the guidelines for clean up.

2. The ground water is estimated to be at 46.9' below surface as per the New Mexico State Engineers office in Roswell, NM.

3. The Playa as a whole shows cross contamation with undefined sources. This includes visible floatable hydrocarbons, domestic waste and burned debris piles.

4. During the site walk visual impact was found along the east side of the Playa confirming the 1978 aerial photos showing that source material has been pushed across the Playa from the north.

5. The impacted soils on the south side of the Playa appear to be limited to the near surface soils with the vertical depth undefined.

6. The impacted area on the north side of the Playa will continue to cross contaminate the site with leachable and floatable hydrocarbons as long as that source material remains in the Playa.

7. The sample with the highest TPH, HAB # 3 4" to 6" was additionally tested for total Chromium / Cr and Lead / Pb looking for the evidence of used motor oil. The results were very low for totals and the lab was unable to say that it was or was not from used motor oil. Comparing the totals to TCLP MCL'S that are 20 times less Cr was at 0.308 ppm and Pb was at 1.41 ppm you may refer to the lab analysis for the total levels.

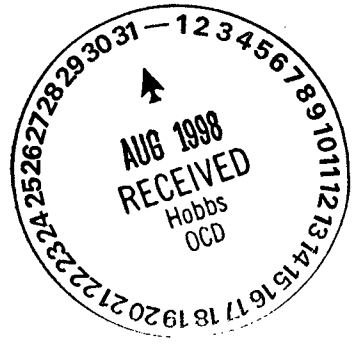
Conclusions

1. A complete assessment of the site will need to be done to define the total amount of impacted soils at the site; this may include the use of a drilling rig to define the vertical depth.

2. There is domestic waste scattered over the site that is not from the Oil and Gas Industry.

3. With every rain the source material and floatable hydrocarbons will continue to cross contaminate and move over the Playa as a whole.

4. Due to the amount of cross contamination it is hard to define what came from where except the hot spots that are visible.



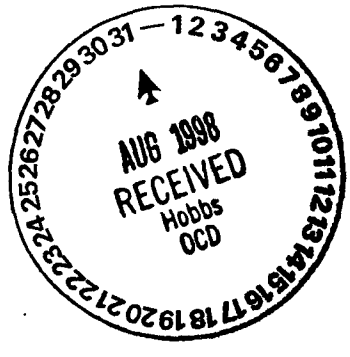
NOTE This report may include and/or disclose sensitive information and is intended only for the use of the client, (CONOCO INC.) except as limited and/or required by the consultant to disclose certain findings to governmental agencies. All data, maps, test results, notes and other information held by the consultant are confidential and restricted, and are only available to the client.

If you have any questions or need any additional information in regards to this project, please call at any time 505-392-4498 or page me at 1-800-848-2105

Sincerely

Allen Hodge, REM
VP Operations
Western Environmental Consultants

Hobbs Operations Manager
Rhino Environmental Services, Inc.



Third Party Lab Analysis

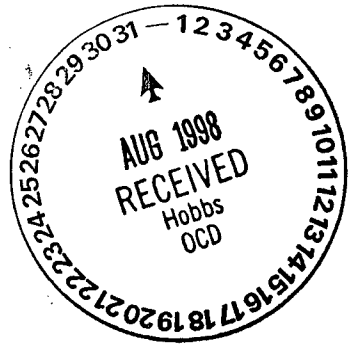
ANACHEM INC.

8 Prestige Circle, Suite 104 Allen, Texas 75002
972/727-9003 • FAX # 972/727-9886 • 1-800-966-1186

Customer Name: Rhino Env. - Hobbs
Date Received: August 7, 1998 at 10:00:00
Date Reported: August 10, 1998
Submission #: 9808000068
Project: PLAYA UNIT L SEC. 33, T185, R38E

SAMPLES The submission consisted of 6 samples with sample I.D.'s shown in the attached data tables.

TESTS The samples listed in the attached result pages were analyzed for:
* BTEX (EPA 8020)
* TPH (EPA 418.1)



Distribution Of Reports
1-Mr. Allen Hodge of Rhino Env. - Hobbs
Ph. 505-392-4498 Fax 505-392-4498

Respectfully Submitted,
Anachem,Inc.

Howard H. Hayden, B.S.
Chemist

Submission #: 9808000068 lims

NOTE: Submitted material will be retained for 60 days unless notified or consumed in analysis. Material determined to be hazardous will be returned or a $20 disposal fee will be assessed. Our letters and reports are for the exclusive use of the client to whom they are addressed. The use of our name must receive our prior written approval. Our letters and reports apply to the sample tested and/or inspected, and are not necessarily indicative of the qualitites of apparently identical or similar materials.

111876 to 111880

Client Name: Rhino Env. - Hobbs
Submission #: 9808000068
Project Name: PLAYA UNIT L SEC. 33, T185, R38E
Report Date: 08/10/98

Client Sample #: HAB #1 4" TO 6"
Laboratory ID #: 111875 *Order Type: Normal Matrix: Soil*
Sample Container: *4oz EPA Approved Glass Jar\Black lid*
Sampling Location: *HOBBS, NM*
Sampling Date : *08/06/98*

BTEX (EPA 8020)

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	<0.50	0.50
Xylenes	<0.50	0.50

TPH (EPA 418.1)
TPH Prep Date: 08/10/98

Analyte	Results(mg/kg)	Detection Limit
Total Petroleum Hydrocarbons	230	10

Client Sample #: HAB #1 2'
Laboratory ID #: 111876 *Order Type: Normal Matrix: Soil*
Sample Container: *4oz EPA Approved Glass Jar\Black lid*
Sampling Location: *HOBBS, NM*
Sampling Date : *08/06/98*

BTEX (EPA 8020)

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	<0.50	0.50
Xylenes	<0.50	0.50

TPH (EPA 418.1)
TPH Prep Date: 08/10/98

Analyte	Results(mg/kg)	Detection Limit
Total Petroleum Hydrocarbons	180	10

Client Sample #: HAB #2 4" TO 6"
Laboratory ID #: 111877 *Order Type: Normal Matrix: Soil*
Sample Container: *4oz EPA Approved Glass Jar\Black lid*
Sampling Location: *HOBBS, NM*
Sampling Date : *08/06/98*

BTEX (EPA 8020)

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	<0.50	0.50
Xylenes	<0.50	0.50

TPH (EPA 418.1)
TPH Prep Date: 08/10/98

Analyte	Results(mg/kg)	Detection Limit
Total Petroleum Hydrocarbons	2500	10

Client Name: Rh[redacted] Env. - Hobbs
Submission #: 9808000068
Project Name: PLAYA UNIT L SEC. 33, T185, R38E
Report Date: 08/10/98

Client Sample #: HAB #2 2'
Laboratory ID #: 111878 *Order Type: Normal Matrix: Soil*
Sample Container: *4oz EPA Approved Glass Jar\Black lid*
Sampling Location: *HOBBS, NM*
Sampling Date : *08/06/98*

BTEX (EPA 8020)

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	<0.50	0.50
Xylenes	<0.50	0.50

TPH (EPA 418.1)
TPH Prep Date: 08/10/98

Analyte	Results(mg/kg)	Detection Limit
Total Petroleum Hydrocarbons	**1600**	10

Client Sample #: HAB #3 4" TO 6"
Laboratory ID #: 111879 *Order Type: Normal Matrix: Soil*
Sample Container: *4oz EPA Approved Glass Jar\Black lid*
Sampling Location: *HOBBS, NM*
Sampling Date : *08/06/98*

BTEX (EPA 8020)

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	<0.50	0.50
Xylenes	<0.50	0.50

TPH (EPA 418.1)
TPH Prep Date: 08/10/98

Analyte	Results(mg/kg)	Detection Limit
Total Petroleum Hydrocarbons	**5500**	10

Client Sample #: HAB #3 2'
Laboratory ID #: 111880 *Order Type: Normal Matrix: Soil*
Sample Container: *4oz EPA Approved Glass Jar\Black lid*
Sampling Location: *HOBBS, NM*
Sampling Date : *08/06/98*

BTEX (EPA 8020)

Analyte	Results(mg/kg)	Detection Limit
Benzene	<0.40	0.40
Toluene	<0.50	0.50
Ethyl Benzene	<0.50	0.50
Xylenes	<0.50	0.50

TPH (EPA 418.1)
TPH Prep Date: 08/10/98

Analyte	Results(mg/kg)	Detection Limit
Total Petroleum Hydrocarbons	**580**	10

AUG 1998 RECEIVED Hobbs OCD

Client Name: Rhino Env. - Hobbs
Submission #: 9808000068
Project Name: PLAYA UNIT L SEC. 33, T185, R38E
Report Date: 08/11/98

ADDITIONAL ANALYSIS

Client Sample #: HAB #3 4" TO 6"
Laboratory ID #: 112093 *Order Type: Additional Matrix: Soil*
Sample Container: *4oz EPA Approved Glass Jar\Black lid*
Sampling Location: *HOBBS, NM*
Sampling Date : *08/06/98*

CHROMIUM/Cr (EPA 6010)

Analyte	Results(mg/kg)	Detection Limit
Chromium	**6.16**	0.375

LEAD/Pb (EPA 6010)

Analyte	Results(mg/kg)	Detection Limit
Lead	**28.2**	2.00

MICROWAVE DIGESTION (EPA 3051) SOLID
Microwave Digestion Date: 08/11/98

AUG 1998
RECEIVED
Hobbs
OCD

ADDITIONAL ANALYSIS

Report To: Rhino Environmental Services
Project: Playa Unit L Sec. 33 T185, R38E
Lab Number: 9808000068
Page 3 of 3

QUALITY CONTROL DATA

ANALYTE	DATE ANALYZED	SPIKE (ppm)	STAND. DEV.	COEFF. OF VAR %	REC1/%	REC2/%
Chromium	8/11/98	4.0	0.248	4.5	105.2	112.2
Lead	8/11/98	4.0	0.248	3.6	103.0	110.0

Standard Deviation = (x1-x2)/1.414
Coefficient of Variability % = (S.D./Avg.) X 100
Recovery % = [(spiked-unspiked)/expected] X 100

Purchase Order/Chain Of Custody

Page___of ___.

Anachem, Inc. 8 Prestige Circle, Suite 104, Allen, TX 75002 Phone: 972-727-9003 Fax: 972-727-9686

Report To: ALLEN Hodge	Bill To: (Buyer) SAME
Company: RHINO ENV. SER. INC	Purchase Order #:
Address: 4007 LOVINGTON HWY	Address: PO25547
City, State, Zip: Hobbs, NM 88240	City, State, Zip: ALBQ., NM. 87125
Phone: 505-392-4498 Fax: 505-392-9376	Phone: 1-800-762-0891 Fax: 505-797-4874
Project Name: PLAYA UNIT L SEC. 33, T18S, R38E	Quote #:
Project Location: Hobbs	City, State: NEW MEXICO
Date Due: ASAP Rush: 0% 25% 50% (100%)	Sampled By: ALLEN Hodge

Lab#	Client Sample ID	Matrix	Date/Time	Sample Notes	Analysis: TPH 418.1	BTEX 8020		TOTAL Pb TCLP	ON HIGHEST TPH SAMPLE			
111875	1. HAB #1 4" TO 6"	SOIL	8-6-98	1300	X	X		?				
76	2. HAB #1 2'	SOIL	8-6-98	1320	X	X						
77	3. HAB #2 4" TO 6"	SOIL	8-6-98	1340	X	X						
78	4. HAB #2 2'	SOIL	8-6-98	1400	X	X						
79	5. HAB #3 4" TO 6"	SOIL	8-6-98	1420	X	X						
80	6. HAB #3 2'	SOIL	8-6-98	1440	X	X		?				
	7.											
	8.											
	9.											
	10.											

Relinquished By	Date	Time	Received By	Date	Time
[signature]	8-6-98	1500	[signature]	8/7/98	10:00

Sample Receipt Notes
Temperature
Preserved Properly
COC Seals Intact
Method of Shipment

In the event that Anachem determines that a sample is hazardous, the client agrees to:
Pay For Sample Disposal____
Accept Returned Sample ____

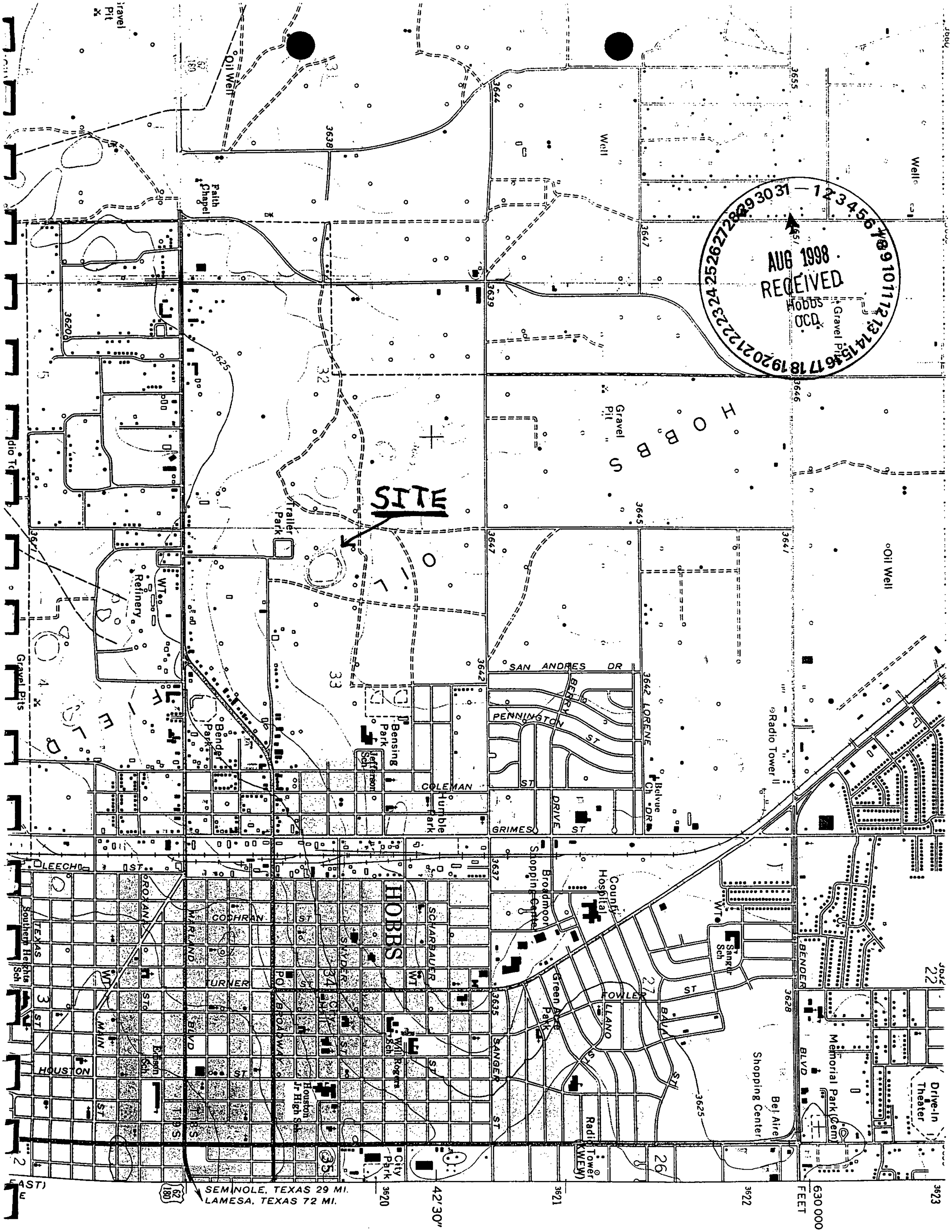
Submission # 9808-68

RECEIVED AUG 1998 Hobbs

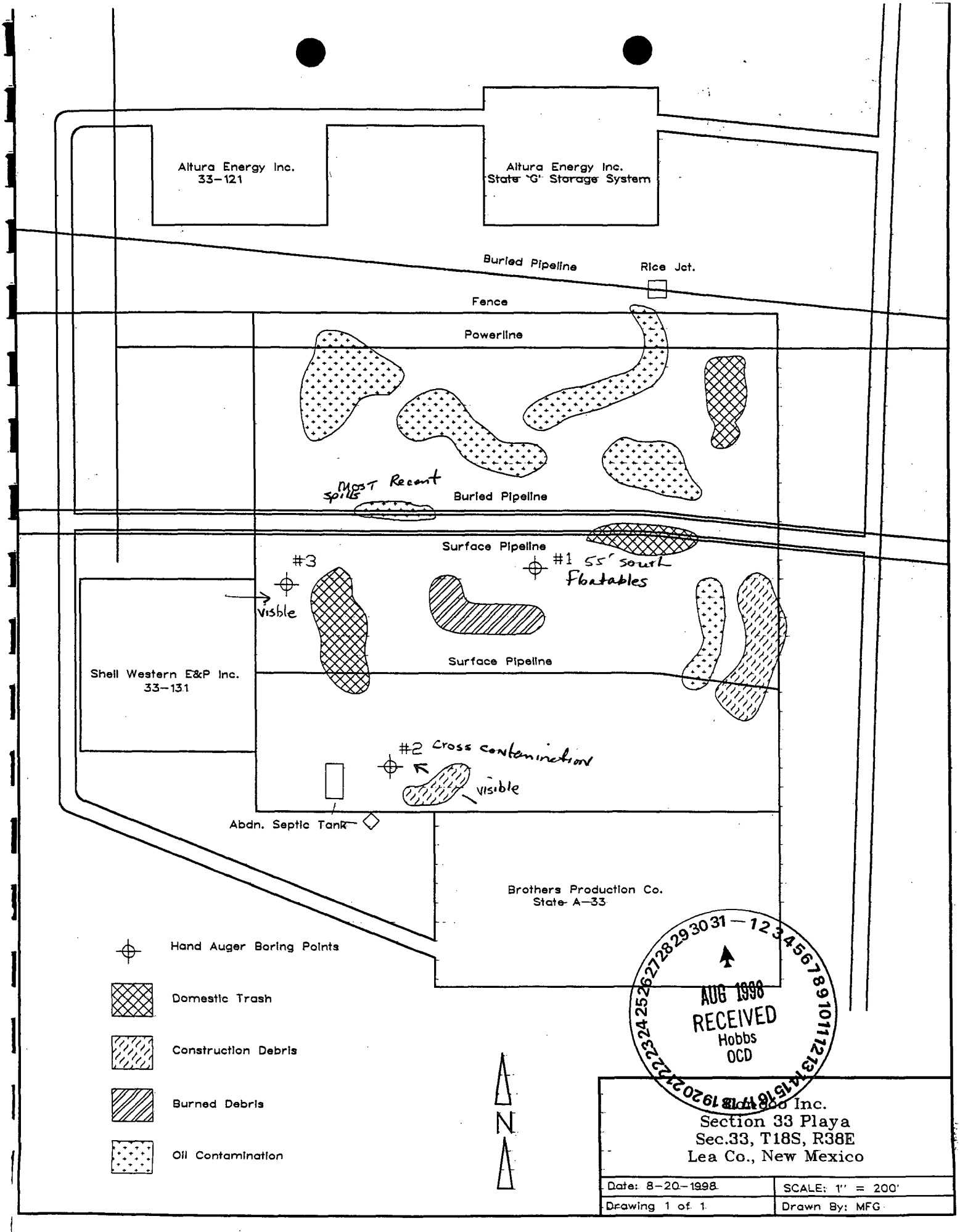
010 REV 5/97

Sample information is vital for proper login and reporting. This is a contract subject to the terms and conditions on the reverse side.

Site Maps


SITE
AUG 1998
RECEIVED
Hobbs
OCD
HOBBS
Faith Chapel
Oil Well
Gravel Pit
Well
Trailer Park
Refinery
Bender Park
Bensing Park
Jefferson Sch
Humble Park
SAN ANDRES DR
PENNINGTON ST
BERRY DR
LORENE
COLEMAN
GRIMES
DRIVE ST
Belvue Ch
Radio Tower
LEECH ST
COCHRAN ST
TURNER
HOUSTON
ST
SCHARBAUER
SNYDER
BROADWAY
MARLAND BLVD
MAIN
TEXAS
FOWLER ST
LLANO
SANGER
BENDER BLVD
Broadmoor Shopping Center
County Hospital
Green Acre Park
Sanger Sch
Southern Heights Sch
Edison Sch
Will Rogers Sch
Houston Jr High Sch
City Park
Bel Aire Shopping Center
Memorial Park (Cem)
Drive-In Theater
Radio Tower (KWEW)
Gravel Pits
SEMINOLE, TEXAS 29 MI.
LAMESA, TEXAS 72 MI.
42'30"
630 000 FEET
62
180

Hmm! Seems like most of the oil-field contamination is on Alturas side!


Altura Energy Inc.
33-121
Altura Energy Inc.
State 'G' Storage System
Buried Pipeline
Rice Jct.
Fence
Powerline
Most Recent Spills
Buried Pipeline
Surface Pipeline
#3
Visible
#1 55' south
Floatables
Shell Western E&P Inc.
33-131
Surface Pipeline
#2 Cross contamination
Visible
Abdn. Septic Tank
Brothers Production Co.
State A-33
Hand Auger Boring Points
Domestic Trash
Construction Debris
Burned Debris
Oil Contamination
N
AUG 1998
RECEIVED
Hobbs
OCD
Inc.
Section 33 Playa
Sec.33, T18S, R38E
Lea Co., New Mexico
Date: 8-20-1998
SCALE: 1" = 200'
Drawing 1 of 1
Drawn By: MFG

Site Photos

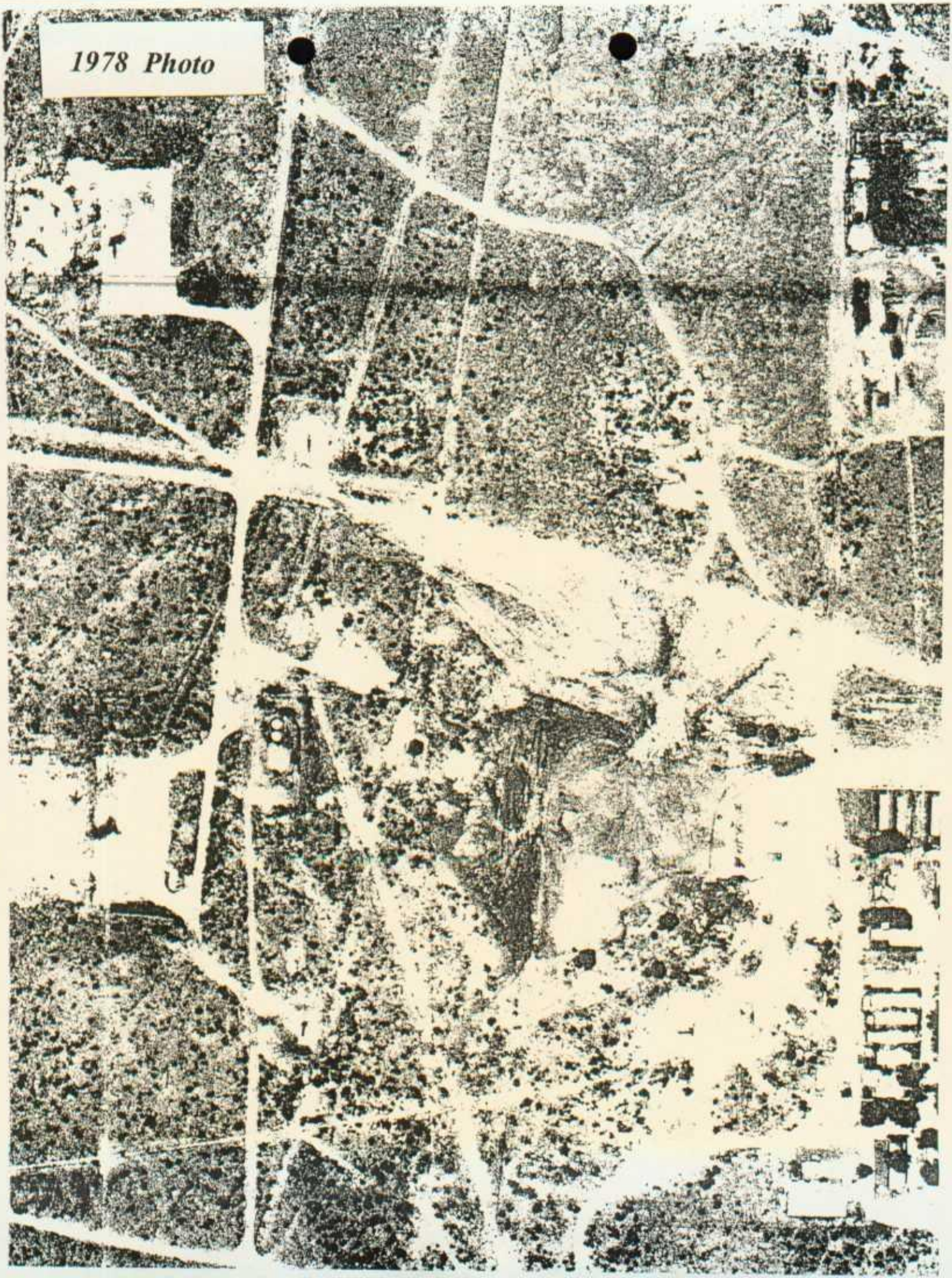
Source Materal North Side

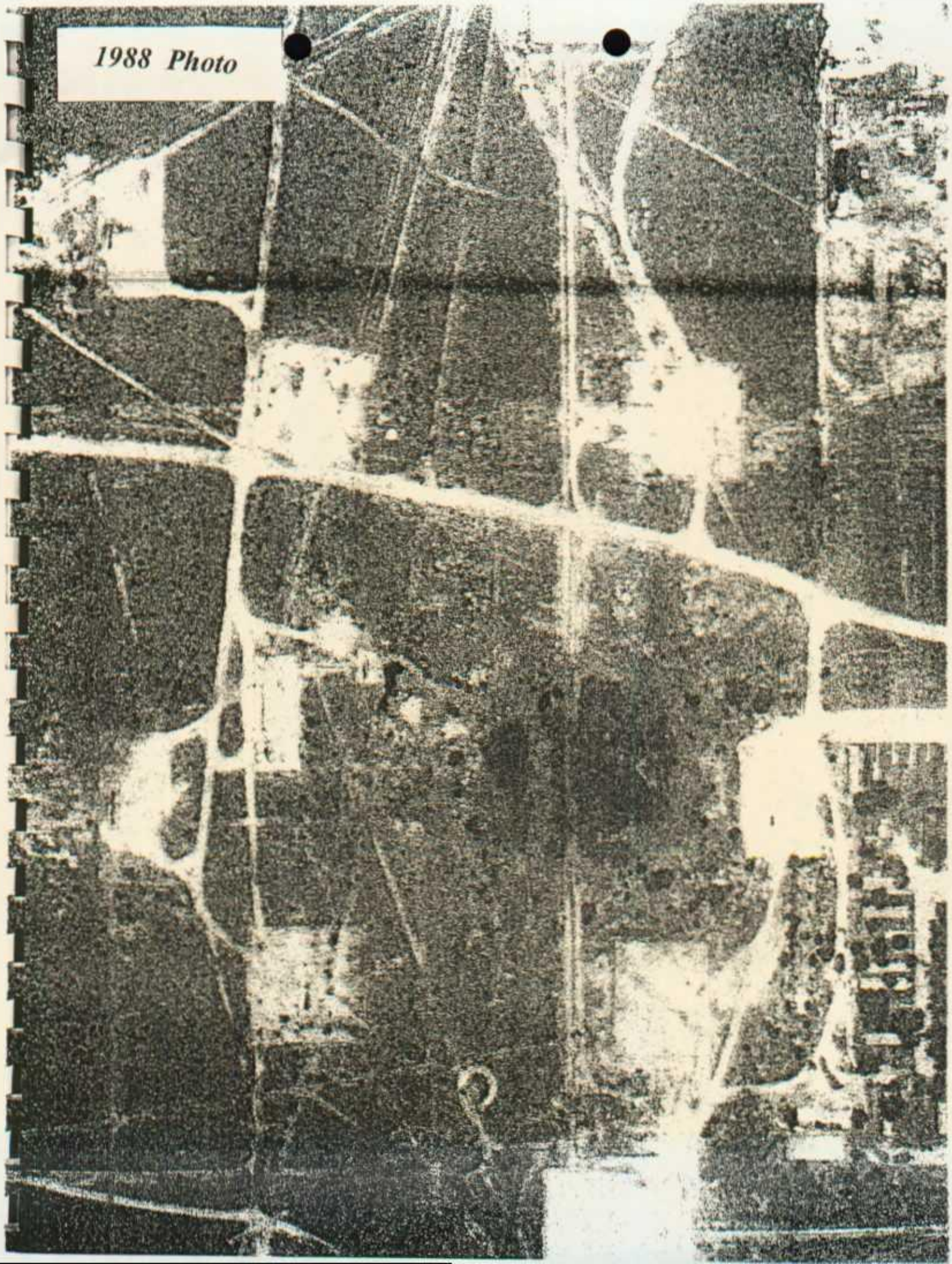
Septic pits Southwest Corner

Domestic Waste

Aerial Photos


1964 Photo


1978 Photo


1988 Photo