NM1 - 1005

ENFORCEMENT

DATE:

8/14/2000

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

August 23, 2000

CERTIFIED MAIL
RETURN RECEIPT NO. 7099-3220-0000-5051-1064

Mr. Jerry Sandel
Basin Disposal, Inc.
P.O. Box 100
Aztec, New Mexico 87401

RE: Complaint
Basin Disposal, Inc. Permit NM-01-0005
Commercial Surface Waste Management Facility
SE/4 NW/4 of Section 3, Township 29 North, Range 11 West, NMPM,
San Juan County, New Mexico

Dear Mr. Sandel:

The New Mexico Oil Conservation Division (OCD) received a complaint regarding odors from Basin Disposal, Inc. commercial surface waste management facility. Please find enclosed a copy of the memorandum of conversation with Ms. Joan Eavenson.

If you have any questions concerning this matter please contact me at (505) 827-7153.

Sincerely,

Martyne J. Kieling
Environmental Geologist

Attachments
xc: Aztec OCD Office

STATE OF NEW MEXICO
ENERGY MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

MEMORANDUM OF MEETING OR CONVERSATION

X Telephone ____ Personal Time 2:00 Date 8-23-00

Originating Party: ~~Ms. Joan Eavenson~~ Ms. Joan Eavenson (505) 632-2057

Other Parties: Roger Anderson, Martyne Kieling

Subject ODORS at Basin Disposal

Ms. Eavenson lives Just North of Basin Disposal and across the Road.

Discussion The Smell is Constant. Ms. Eavenson Has Called Denny Foust with the OCD and Kieth Johnson with Basin and Both Have Been Very Coopartive.
Concern about the Poison Gas Sign. and Questions Concerning how She can be assured that there is nothing Harmfull when it Smells So Bad.
Ms. Eavenson Paper Carrier Has told Her that the odors are unbearable (Gaging) at 3 4 4 o'clock in the Morning when She is Delivering Paper.

Conclusions or Agreements OCD informed Ms. Eavenson that Permit Requirements are Checked and the Facility is inspected. That Little to No H_2S Has been recorded Since the Lawsuit. The Facility Has been Masking the Odors with Chemicals and Controlling the H_2S Generation. We Requested that Ms. Eavenson Note Future odors as to exactly when they are Smelled So as to Aid our Investigations

Distribution
Basin Disposal File NM-01-0005
Denny Foust, OCD, AZTEC OFFICE
Jerry Sandel, Basin Disposal

Signed Martyne J. Kieling

BASIN DISPOSAL, INC.

"SPECIALIZING IN DISPOSAL OF PRODUCED WATER AND DRILLING MUD"

P. O. BOX 100 • AZTEC, NEW MEXICO 87410 • PHONE: (505) 334-3013

August 15, 2000

AUG 18

NMOCD
Martyne Kieling
2040 S. Pacheco
Santa Fe, NM 87505

Dear Martyne,

This letter is in response to the complaint that we received about the odors from our plant on August 10, 2000. This summer has been extremely hot and dry and has been quite a challenge to keep the odors down. We haven't had any complaints for the last couple of months so we feel that we have been doing a good job on keeping them down. I am enclosing a copy of our tracking record that shows when and how much we add to the pond. We had put in 200 gallons of sodium chlorite at 8:00 AM and at 9:00 and 10:00 PM an additional 100 gallons at each time. As you can see from our record we have been pretty regular as to when we add it to the pond. If we have any further problems we will look and see what we can do to improve on our technique. Thank you for your help.

Sincerely,

Keith Johnson
General Manager

cc: Denny Foust

4135

SODIUM CHLORITE TRACKING RECORD

NAME	DATE	TIME	METER BEFORE	METER AFTER	GALLONS	
LN	7-29-00	8:00 PM	2623-0	2633-0	100 GAL	896
Ted	7-30-00	7:00 AM	2633-0	2643-0	100 GAL	796
LELAND	7-30-00	7: PM	2643-0	2653-0	100 GAL	696
Ted	7-31-00	1: PM	2653-0	2663-0	100 GAL	596
LELAND	7-31-00	8:30 PM	2663-0	2673-0	100 GAL	496
Ted	8-1-00	2:00 PM	2673-0	2684-0	110. GAL	396
LELAND	8-1-00	8: PM	2684-0	2694-0	100 GAL	286
ARNOLD	8-2-00	8. AM	2694.0	2704.0	100 GAL	186
ARNOLD	8-2-00	3:30 PM	2704.0	2710.0	60 GAL	086
LELAND	8-2-00	8: PM	2710-0	2720-0	100 GAL	4165
LELAND	8-3-00	4: AM	2720-0	2730-0	100 GAL	4065
Joe	8-3-00	7:30 AM	2730-0	2746-0	160 GAL	3965
Jimmy	8-3-00	2:45 PM	2746.0	2756-0	100 GAL	3805
LELAND	8-3-00	7:00 PM	2756.0	2766.0	100 GAL	3705
LELAND	8-4-00	3:00 AM	2766-0	2776-0	100 GAL	3605
Ted	8-4-00	9:00 AM	2778-0	2788-0	100 GAL	3505
Ted	8-4-00	3:00 PM	2798-0	2808-0	100 GAL	3405
LELAND	8-4-00	8:00 PM	2798-0	2808-0	100 GAL	3305
LELAND	8-5-00	3:00 AM	2808-0	2818-0	100 GAL	3205
Ted	8-5-00	9:00 AM	2818-0	2828-0	100 GAL	3105
Ted	8-5-00	4:30 PM	2828-0	2838-0	100 GAL	3005
LELAND	8-5-00	8:30 PM	2838-0	2849-0	100 GAL	2905
Ted	8-6-00	7:30 AM	2849-0	2860-0	110 GAL	2805
ARNOLD	8-6-00	5:50 PM	2861-0	2871-0	100 GAL	2695
LELAND	8-7-00	3:00 AM	2884-0	2894-0	100 GAL	
Ted	8-7-00	7:30 AM	2894-0	2904-0	100	
Ted	8-7-00	4:30 PM	2904-0	2914-0	100	
LELAND	8-7-00	9: PM	2914-0	2924-0	100	
LELAND	8-8-00	3: AM	2924-0	2934-0	100	
Spencer	8-8-00	8:15 AM	2934-0	2944-0	100	
LELAND	8-8-00	6:30 PM	2944-0	2954-0	100	
LELAND	8-9-00	2: AM	2954-0	2964-0	100	
Spencer	8-9-00	7:30 AM	2965-0	2975-0	100	
Jimmy	8-9-00	9:00 AM	2975.00	2980-00	50 Gal	

SODIUM CHLORITE TRACKING RECO

NAME	DATE	TIME	METER BEFORE	METER AFTER	GALLONS
Jim	8-9-00	10:30 AM	2980	2990	100 Gal
Jer	8-9	8:00 PM	2990	3000	100 Gal
Abd	8-10	8: AM	3000	3020	200 Gal
Jer	8-10	9:00 P	3020	3030	100 Gal
Jer	8-10	10:00 P	3030	3040	100 Gal
DM	8/11	3:00 AM	30400	30500	100 Gal
Ted	8-11-00	9:00 AM	3050-0	3060-0	100 Gal
LELAND	8-11-00	8:00PM	3060	3070	100
DM	8/12	12:00 AM	30700	30800	100 Gal
LELAND	8-12-00	3:30 PM	3080	3090	100
Ted	8-12-00	9: AM	3090	3160	100
ABDUL	8-12-00	3: PM	3100	3110	100
LELAND	8-12-00	7:30 PM	3110	3125	150
LELAND	8-13-00	3:00 AM	3125	3135	100
Ted	8-13-00	10:00 AM	3135	3145	100
LELAND	8-13-00	7: PM	3145	3155	100
LELAND	8-14-00	2: AM	3155	3165	100
Ted	8-14-00	8: AM	3165-0	3175-0	100
Ted	8-14-00	9: AM	3175-0	3180-0	50

STATE OF NEW MEXICO
ENERGY MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

MEMORANDUM OF MEETING OR CONVERSATION

✓ Telephone ____ Personal Time 3:02 Date ~~Kieth Johnson~~ 8-14-00

Originating Party: Martyne Kieling

Other Parties: Kieth Johnson.

Subject: ODOR Response Thursday Night. 10th of August

Discussion: Will Be Sending a Report. Jimmie is Now in Charge of the Plant So it might Be best to call Jimmie or Jerry Direct ly Next time Kieth is handeling the Reporting requirements & Permit

Conclusions or Agreements:

Distribution

Signed Martyne Kieling

Kieling, Martyne

From: Foust, Denny
Sent: Monday, August 14, 2000 8:23 AM
To: Anderson, Roger; Kieling, Martyne
Subject: BASIN DISPOSAL
Importance: High

I HAD A COMPLAINT FRIDAY NIGHT FROM THE EVANSONS WHO COMPLAINED THURSDAY EVENING OF EXCESSIVE ODORS COMING FROM BASIN. I RESPONDED IMMEDIATELY, COMPLAINT RECEIVED AT 18:30, I WAS AT THE EVANSON RESIDENCE BY APPROX 18:45. NO ODOR WAS APPARENT BY 19:10 THE WIND HAD SHIFTED AGAIN AND ODORS WERE PERVASIVE BUT NOT CONSTANT. CHECKING IN AT BASIN AT APPROX 19:30 THEY WERE IN THE PROCESS OF TREATING THE POND, IT HAD BEEN VERY BLACK WHEN THE 19:00 SHIFT CAME ON AND HAD NOT BEEN TREATED SINCE 09:00. JIMMY BARNES SUGGESTS THEY ARE GETTING MORE DARK WATER FROM THE FIELD DUE TO SEDIMENT BUILD UP IN TANKS. IS A LETTER WARRANTED DIRECTING BASIN TO PRE TREAT MORE WATER OR TO TREAT BASIN'S RECEIVING TANKS PERIODICALLY DURING THE DAY OR SOMETHING ALONG THESE LINES

Thursday the 10th Augst - - - - - -

STATE OF NEW MEXICO
ENERGY MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

MEMORANDUM OF MEETING OR CONVERSATION

✓ Telephone ____ Personal Time 8:06 Date 5-25-00

Originating Party: Denny Foust
Other Parties: Marilyn Kicling

Subject: Basin Disposal ODOR complaints

Discussion: Basin is to calculate volume and add a Massive Dose to its Pond and Tanks To curtail ODORS (Not H_2S)

Then Begin again with twice to 4 times Daily Chemical Input.

ODORS Reports seem to Coenside with Warm temperatures.

Conclusions or Agreements: Denny will Monitor the Results.

Distribution

Signed Marilyn J Kicling

Public Regulation Commission

3/6/2000

BASIN DISPOSAL, INC.

MAILING ADDRESS
PO BOX 100 AZTEC NEW MEXICO 87410

SCC Number: **1275171** ***Tax & Revenue Number:*** **02035664001**

INCORPORATED ON JULY 19, 1985 , IN NEW MEXICO.

CORPORATION IS A DOMESTIC PROFIT

CORPORATION IS ACTIVE
GOOD STANDING THROUGH: 3/15/2000

PURPOSE OF THE CORPORATION
PRODUCTION WASTE WATER DISPOSAL

CORPORATION DATES
Taxable Year End Date: 12/31/99 Filing Date: //
Corporate Existence Expiration Date:

SUPPLEMENTAL POST MARK DATES
Supplemental: Name Change: Purpose Change:

PRINCIPAL ADDRESS
15487 HIGHWAY 44 AZTEC NEW MEXICO 87410

PRINCIPAL ADDRESS(Outside New Mexico)

REGISTERED AGENT
D.C. TURNER
607 MERINO KRAAL-BOX 358 FARMINGTON NEW MEXICO 87499-0358

Designation date: 03/14/98 Agent Post Mark Date: Resignation date:

COOP LICENSE INFORMATION
Number: Type: Expiration Year:

SANDEL, JERRY W. ***President***
TURNER, D. C. ***Vice President***
NONE ***Secretary***

NONE ***Treasurer***

DIRECTORS

Date Election of Directors: 12/31/98

SANDEL , JERRY W
15487 HIGHWAY 44 AZTEC , NM 87410
TURNER , DAVID C
15487 HIGHWAY 44 AZTEC , NM 87410
TURNER III , DAVID C
15487 HIGHWAY 44 AZTEC , NM 87410

New Search Inquiry Page

Subsurface Investigation of Abandoned Pit

Basin Disposal, Inc.
No. 6 CR 5046
San Juan County, New Mexico

July 24, 1998

Introduction

Pursuant to an agreement dated June 22, 1998, between Basin Disposal, Inc. and consultants Blagg Engineering, Inc. (BEI) and On Site Technologies, LTD (On-Site), a subsurface investigation of an abandoned mud pit was conducted at No. 6 CR 5046, San Juan County, New Mexico. The purpose of the investigation was to identify the vertical extent of hydrocarbon impacts at the subject abandoned pit to meet New Mexico Oil Conservation Division (NMOCD) requirements. BEI and On-Site teamed to complete the project due to specialized resources available to each entity.

For Pit #3 with inital TPH 5' Intrval 16,300ppm

Based on telephone communication on June 22, 1998 between Jeff Blagg of BEI and Ms. Martyne Kieling of NMOCD-Santa Fe, one (1) borehole to identify the vertical extent of hydrocarbon impacts was required. The constituents of concern were total petroleum hydrocarbons (TPH) and field headspace organic vapor analysis, with a closure standard of 100 ppm each.

The investigation was conducted on June 30, 1998 using a mobile pickup mounted drill unit operated by BEI. On-Site provided field technical support and laboratory test services. Mr. Denny Foust, NMOCD Field Inspector, was on location during the investigation and observed the field sampling and testing.

Scope of Work

The Scope of Work outlined in the agreement dated June 22, 1998 included the following:

- One test boring was to be advanced at an abandoned pit location to be identified by Basin Disposal, Inc. Total depth was to be determined following field screening methods and limited to a depth at which TPH and field OVM headspace measurements recorded less than 100 ppm.
- Soil samples were to be collected at 5-foot intervals.
- Samples were to be field screen for organic vapors testing using the field headspace test procedure.
- Select samples were to be collected for laboratory determination of TPH.

- The test boring was to be backfilled with a bentonite seal.

- A report documenting the findings of the investigation was to be prepared.

Field Test Methods

The field investigation commenced on June 30, 1998. One test boring was advanced using a Simco Earthprobe 200 Mobile Drill Unit with 2-1/2 inch diameter solid auger. The boring as drilled at a location designated by Basin Disposal, Inc. as the center of the abandoned pit. Soil samples were collected off the auger flights at 5', 10' and 13' depths for field testing of organic vapors.

Split spoon samples were collected using a clean, 3/4 inch diameter x 18 inch long spoon sampler. The split spoon samples were obtained at the depths of 14' - 16' and 19' - 21'. These samples were also subject to field testing of organic vapors and one sample was collected for laboratory testing.

Field testing included placing a representative sample half full into a clean plastic bag, sealing the bag, then allowing vapors to accumulate for a minimum of 5-minutes. The ambient air temperature during the investigation was approximately 80°F and no sample heating was indicated. After allowing vapors to accumulate, the probe of a calibrated ThermoEnvironmental Instruments Model 580D photoionization detector organic vapor meter was inserted into the headspace of the bag and the meter deflection units, in parts per million, were recorded.

A soil specimen from the 14' - 16' split spoon sample was collected into a 4-ounce jar with a Teflon® lid, sealed, labelled and placed into an ice chest with ice. This sample was delivered to On Site Technologies Laboratory for laboratory determination of total petroleum hydrocarbons. Chain-of-Custody documentation followed this sample.

The total depth advanced in the test boring was 21 feet below ground surface. After sample collection, this boring was abandoned by filling the hole with bentonite chips and hydrating the chips with clean tap water.

Field Observations and Test Results

The soil type found during the investigation was a uniform sand-silt-clay mixture. The soil was dry from the ground surface to a depth of approximately 2'. From 2' to the total depth tested of 21' minor moisture was evident in the soil. There was no indication of hydrocarbon impact from the ground surface to a depth of approximately 3' below ground surface. Beginning at this depth, minor soil staining by hydrocarbons and minor hydrocarbon odor was present. This staining and odor was observed between the depths of 3' and 13' below ground surface.

From 13' to 21' below ground surface, minimal to no soil staining was observed. There was minor odor of hydrocarbon from 13' to 16', but no hydrocarbon odor was observed from 19' to 21' below ground surface.

Field headspace organic vapor readings were obtained during the investigation. Presented below in Table 1 are the results of those readings:

Table 1

Basin Disposal, Inc.
Abandoned Pit Field Headspace Results
June 30, 1998

Sample Depth	Headspace Reading, Deflection Units, ppm
5'	35.0
10'	88.0
13'	4.0
14'-16'	5.0
19'-21'	9.5

A sample specimen from the 14' - 16' split spoon sample was collected for laboratory TPH analysis. The results of this testing indicated that using U.S. EPA Method 8015 a non-detect of hydrocarbons in the ranges C6-C10 (gasoline) and C10-C28 (diesel) was determined. The laboratory test report is attached.

No groundwater was observed or indicated at the depths investigated.

A log of the boring was prepared and is included as Figure 1.

Conclusions and Recommendations

Based on the results of one (1) test boring advanced at a location designated by Basin Disposal, Inc. as the center of an abandoned pit no hydrocarbon impacts in excess of NMOCD standards were found. No field headspace readings in excess of 100 ppm deflection units were observed in the test boring between the ground surface and the total depth penetrated at 21 feet. A single soil sample collected from the depth of 14'-16' below ground surface and submitted to a laboratory for TPH testing by U.S. EPA Method 8015 indicted a non-detect of hydrocarbons. Therefore, it is the opinion of Blagg Engineering, Inc. and On Site Technologies, LTD that at the location of the test boring there are no hydrocarbon impacts to soils in excess of NMOCD standards that penetrate to a depth greater than 14'-16' below ground surface.

It is recommended that this investigative report be submitted to NMOCD for their review and approval.

Limitations

This report has been prepared by Blagg Engineering, Inc. and On Site Technologies, LTD for the exclusive use of Basin Disposal, Inc. All statements, conclusions and recommendations contained in this report are based on information obtained during the study of soils obtained from a single boring advanced at a location designated by Basin Disposal, Inc.

The scope of services was limited to assessment of the vertical extent of impacts in excess of NMOCD standards at an abandoned pit location. Work was performed in accordance with generally accepted professional practices in environmental and petroleum engineering. No other warranty, expressed or implied, is given.

Respectfully submitted:

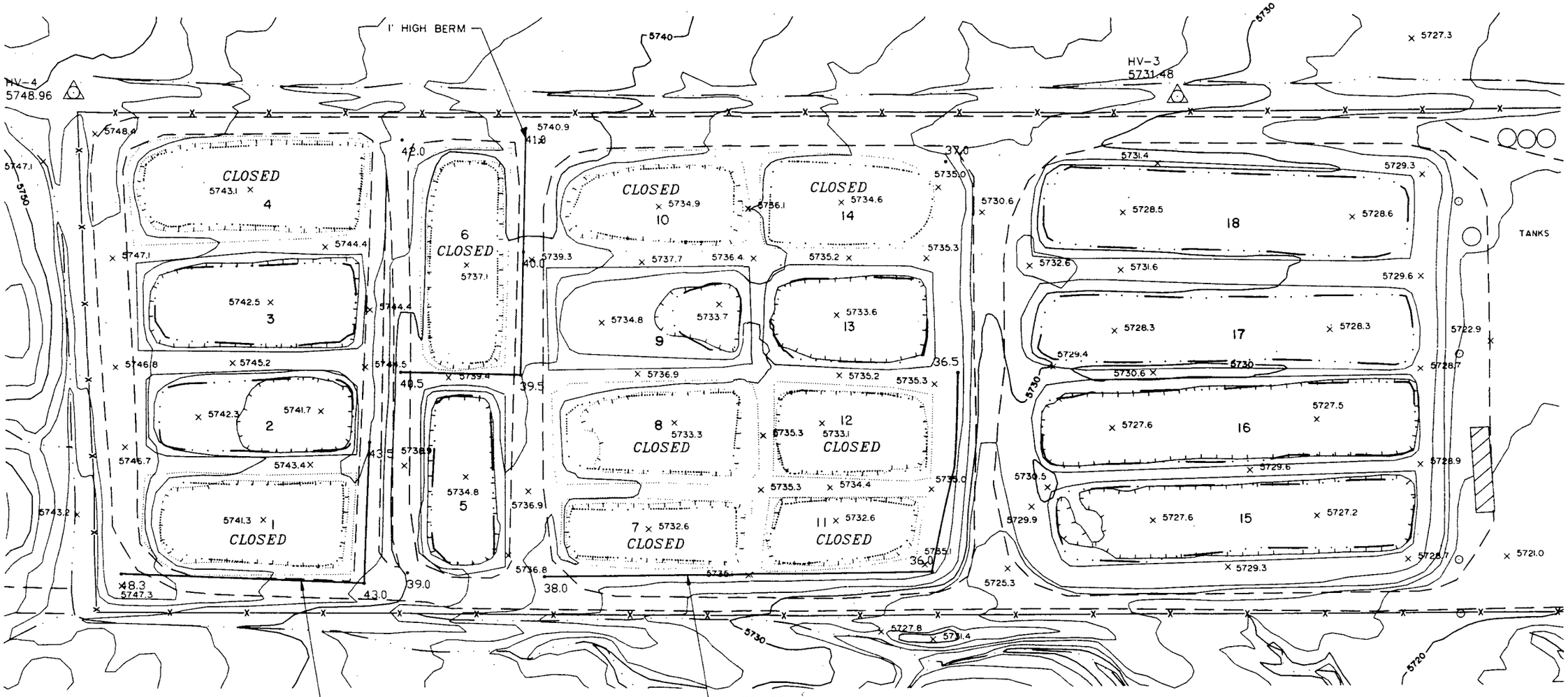
Blagg Engineering, Inc.

Jeffrey C. Blagg, PE
President

On Site Technologies, LTD

Michael K. Lane, PE
Senior Engineering Manager

bsdnsp001.rpt



50 25 0 50 100 150

SCALE IN FEET

RICHARD P. CHENEY REGISTERED PROFESSIONAL ENGINEER AND LAND SURVEYOR 3634 STATE OF NEW MEXICO

MAR 2 4 1993

× nnnn.n = ORIGINAL ELEVATIONS

• NN.N = APPROXIMATE NEW ELEVATIONS OR TOP OF PROPOSED BERM

CHENEY-WALTERS-ECHOLS INC
ENGINEERS • SURVEYORS
809 W. APACHE • FARMINGTON, NEW MEXICO 87401 • (505)327-3303

FILE: 2559
REVISION DATE: 3/17/93

SUBSURFACE INVESTIGATION OF ABANDONED PIT

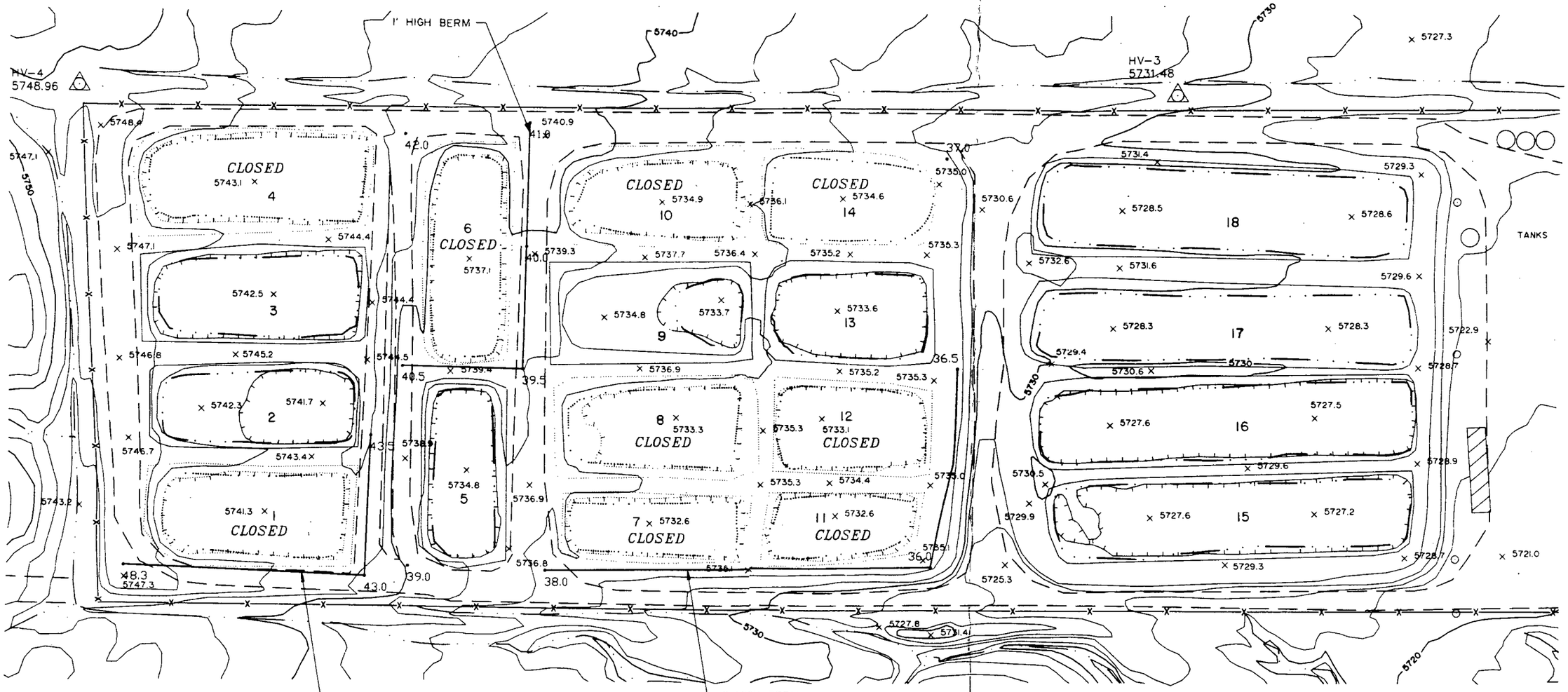
BASIN DISPOSAL, INC.
NO. 6 CR 5046
SAN JUAN COUNTY, NEW MEXICO

JULY 24, 1998

1998
correspon

BLAGG ENGINEERING, INC.
P.O. BOX 87
BLOOMFIELD, NM 87413
(505)632-1199
job: basindisp.001

ON SITE TECHNOLOGIES, LTD
P.O. BOX 2606
FARMINGTON, NM 87499
(505)325-5667
job: 4-1493



RICHARD P. CHENEY
REGISTERED PROFESSIONAL ENGINEER AND LAND SURVEYOR
3634
STATE OF NEW MEXICO

MAR 2 4 1993

× nnnn.n = ORIGINAL ELEVATIONS

• NN.N = APPROXIMATE NEW ELEVATIONS OR TOP OF PROPOSED BERM

CHENEY·WALTERS·ECHOLS INC
ENGINEERS · SURVEYORS
809 W. APACHE · FARMINGTON, NEW MEXICO 87401 · (505)327-5303

FILE: 2559
REVISION DATE: 3/17/93

BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

FIGURE 1

BORING REPORT: BH#1

PROJECT: BASIN DISPOSAL MUD PIT
CLIENT: BASIN DISPOSAL
DRILLING CONTRACTOR: Blagg Engineering, Inc.
EQUIPMENT USED: Simco Earthprobe 200 with 2.5-inch diameter solid auger
DATE START: 6/30/98 DATE FINISH: 6/30/98 DRILLER: E. POTTER LOGGED BY: L. TRUJILLO
TOTAL DEPTH: 21 FEET CASING TYPE & SIZE: NONE SLOT SIZE:
COMMENTS: TEST BORING. BACKFILLED WITH BENTONITE.

DEPTH FEET	USCS	OVM HEADSPACE NDU	GRAPHIC LOG	SAMPLE DESCRIPTION	WELL CONSTRUCTION DETAILS
	SM/SC MIX			Sand-silt-clay mixture, yellow brown, lightly moist, non-cohesive. Minor stain and odor of hydrocarbon beginning at 3' depth and extending to 13' depth. No stain from 13' to 21', minor odor.	BORING BACKFILLED WITH BENTONITE
5		35.0			
10		88.0			
		4.0			
15		5.0		SPLIT SPOON SAMPLE 14' - 16'	
20		9.5		SPLIT SPOON SAMPLE 19' - 21'	
				TOTAL DEPTH PENETRATED 21 FEET BGS	
25					

OFF: (505) 325-5667

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-1556

July 10, 1998

Larry Trujillo
On Site Technologies, Limited Partnership
612 E. Murray Drive
P.O. Box 2606
Farmington, NM 87499
TEL: (505) 325-5667
FAX (505) 327-1496

RE: 4-1493 Order No.: 9806120

Dear Larry Trujillo,

On Site Technologies, LTD. received 1 sample on 6/30/98 for the analyses presented in the following report.

The Samples were analyzed for the following tests:
Diesel Range Organics (SW8015)
Gasoline Range Organics (SW8015)

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

David Cox

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

On Site Technologies, LTD.

Date: *10-Jul-98*

CLIENT: On Site Technologies, Limited Partnership
Project: 4-1493
Lab Order: 9806120

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

P.O. BOX 2606 • FARMINGTON, NM 87499

CHAIN OF CUSTODY RECORD

5166

ON SITE TECHNOLOGIES, LTD.

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

Date: 6/30/98

Page 1 of 1

Purchase Order No.: | Job No. 4-1493

SEND INVOICE TO
Name: Larry Trujillo
Company: Blagg Engineering | Dept.
Address:
City, State, Zip:

REPORT RESULTS TO
Name: Larry Trujillo | Title:
Company: Blagg Engineering
Mailing Address:
City, State, Zip:
Telephone No. | Telefax No.

Sampling Location: Basin Disposal

Sampler: Larry Trujillo

ANALYSIS REQUESTED

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	MATRIX	PRES.	Number of Containers	8015 M	LAB ID
#1 - 14-16'	6/30/98	0930	Soil	None	1	✓	806120-011

Relinquished by: Larry Trujillo | Date/Time 6/30/98/0960 | Received by: Heidi Kuehn | Date/Time 1/07/98 1200
Relinquished by: | Date/Time | Received by: | Date/Time
Relinquished by: | Date/Time | Received by: | Date/Time

Method of Shipment:

Authorized by: _____ Date _____
(Client Signature Must Accompany Request)

Rush | 24-48 Hours | 10 Working Days | Special Instructions:

Distribution: White – On Site Yellow – LAB Pink – Sampler Goldenrod – Client

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *10-Jul-98*

Client:	On Site Technologies, Limited Partnership	**Client Sample Info:**	Basin Disposal Sample at Pit 3 For vertical Extent.
Work Order:	9806120	**Client Sample ID:**	#1 @ 14-16ft.
Lab ID:	9806120-01A **Matrix:** SOIL	**Collection Date:**	6/30/98 8:30:00 AM
Project:	4-1493	**COC Record:**	5166

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		**SW8015**				Analyst: **DC**
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	7/7/98
GASOLINE RANGE ORGANICS		**SW8015**				Analyst: **DC**
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	7/7/98

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

P.O. BOX 2606 • FARMINGTON, NM 87499

On Site Technologies, LTD.

Date: *10-Jul-98*

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9806120
Project: 4-1493

QC SUMMARY REPORT

Method Blank

Sample ID: **MBlank** Batch ID: **8015DR2_S-7** Test Code: **SW8015** Units: **mg/Kg** Analysis Date **7/7/98** Prep Date: **7/7/98**

Client ID: **9806120** Run ID: **GC-2_980707A** SeqNo: **4188**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C28	ND	25									

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: *10-Jul-98*

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9806120
Project: 4-1493

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: **LCS** Batch ID: **8015DR2_S-7** Test Code: **SW8015** Units: **mg/Kg** Analysis Date **7/7/98** Prep Date: **7/7/98**

Client ID: **9806120** Run ID: **GC-2_980707A** SeqNo: **4190**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C28	434.9	25	502	0	86.6%	70	130				

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: *10-Jul-98*

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9806120
Project: 4-1493

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: **CCV CCV1 QC06** Batch ID: **8015DR2_S-7** Test Code: **SW8015** Units: **mg/Kg** Analysis Date **7/7/98** Prep Date:
Client ID: **9806120** Run ID: **GC-2_980707A** SeqNo: **4189**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C28	474.8	25	502	0	94.6%	85	115				

Sample ID: **CCV CCV2 QC06** Batch ID: **8015DR2_S-7** Test Code: **SW8015** Units: **mg/Kg** Analysis Date **7/7/98** Prep Date:
Client ID: **9806120** Run ID: **GC-2_980707A** SeqNo: **4216**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C28	441.5	25	502	0	88.0%	85	115				

Sample ID: **CCV CCV3 QC06** Batch ID: **8015DR2_S-7** Test Code: **SW8015** Units: **mg/Kg** Analysis Date **7/7/98** Prep Date:
Client ID: **9806120** Run ID: **GC-2_980707A** SeqNo: **4217**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C28	566.9	25	502	0	112.9%	85	115				

Sample ID: **CCV CCV4 QC06** Batch ID: **8015DR2_S-7** Test Code: **SW8015** Units: **mg/Kg** Analysis Date **7/7/98** Prep Date:
Client ID: **9806120** Run ID: **GC-2_980707A** SeqNo: **4218**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C28	475.3	25	502	0	94.7%	85	115				

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: *10-Jul-98*

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9806120
Project: 4-1493

QC SUMMARY REPORT
Method Blank

Sample ID: **MB1** Batch ID: **GC-1_980707** Test Code: **SW8015** Units: **mg/Kg** Analysis Date **7/7/98** Prep Date:

Client ID: **9806120** Run ID: **GC-1_980707A** SeqNo: **4142**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C10	.0766	0.18									J

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: *10-Jul-98*

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9806120
Project: 4-1493

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: **LCS Soil** Batch ID: **GC-1_980707** Test Code: **SW8015** Units: **mg/Kg** Analysis Date **7/7/98** Prep Date:

Client ID: **9806120** Run ID: **GC-1_980707A** SeqNo: **4144**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C10	1.862	0.18	1.801	0.0766	99.2%	52	123				

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: *10-Jul-98*

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9806120
Project: 4-1493

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: **CCV1 QC0593** Batch ID: **GC-1_980707** Test Code: **SW8015** Units: **mg/Kg** Analysis Date **7/7/98** Prep Date:
Client ID: **9806120** Run ID: **GC-1_980707A** SeqNo: **4143**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C10	1.965	0.18	1.801	0	109.1%	85	115				
Trifluorotoluene	.0858	0	0.08	0	107.3%	70	130				

Sample ID: **CCV2 QC0593** Batch ID: **GC-1_980707** Test Code: **SW8015** Units: **mg/Kg** Analysis Date **7/7/98** Prep Date:
Client ID: **9806120** Run ID: **GC-1_980707A** SeqNo: **4164**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C10	1.924	0.18	1.801	0	106.8%	85	115				
Trifluorotoluene	.0841	0	0.08	0	105.1%	70	130				

Sample ID: **CCV3 QC0593** Batch ID: **GC-1_980707** Test Code: **SW8015** Units: **mg/Kg** Analysis Date **7/7/98** Prep Date:
Client ID: **9806120** Run ID: **GC-1_980707A** SeqNo: **4165**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C10	2.092	0.18	1.801	0	116.2%	85	115				S
Trifluorotoluene	.0841	0	0.08	0	105.1%	70	130				

Sample ID: **CCV4 QC0593** Batch ID: **GC-1_980707** Test Code: **SW8015** Units: **mg/Kg** Analysis Date **7/7/98** Prep Date:
Client ID: **9806120** Run ID: **GC-1_980707A** SeqNo: **4166**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C10	2.056	0.18	1.801	0	114.2%	85	115				
Trifluorotoluene	.0369	0	0.08	0	46.1%	70	130				S

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

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75 Suttle Street
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Attn: Traci Haber

Received: 5/1/98
Reported: 5/11/98
aqualab ID: 1-805-005-01

SAMPLE IDENTIFICATION: 135576 4/29/98

METHOD AND QUALITY CONTROL:

The results in this report were generated using approved methods referenced by the U.S. EPA and the Arizona Department of Health Services.

RESULTS:

PARAMETER	METHOD	RESULT	UNITS	ADHS NO.	ANALYZED
Benzene	8260B	<0.05	mg/Kg	AZ0563	5/4/98
Ethyl Benzene	8260B	<0.05	mg/Kg	AZ0563	5/4/98
Toluene	8260B	<0.05	mg/Kg	AZ0563	5/4/98
Total Xylenes	8260B	<0.10	mg/Kg	AZ0563	5/4/98

Surrogate:	% Recovery
Dibromofluoromethane	80%
Toluene-d8	91%
4-Bromofluorobenzene	100%

Chain of Costody For AquiaLB
ID# to Pit crossreff.
Map. or Field Notes.

Problem with #3 CDS Lab
TPH 16,800 ppm
Sample Depth?

Robert V. Woods
Laboratory Director

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Received: 5/1/98
Reported: 5/11/98
aqualab ID: 1-805-005-02

SAMPLE IDENTIFICATION: 135577 4/29/98

METHOD AND QUALITY CONTROL:

The results in this report were generated using approved methods referenced by the U.S. EPA and the Arizona Department of Health Services.

RESULTS:

PARAMETER	METHOD	RESULT	UNITS	ADHS NO.	ANALYZED
Benzene	8260B	<0.05	mg/Kg	AZ0563	5/1/98
Ethyl Benzene	8260B	<0.05	mg/Kg	AZ0563	5/1/98
Toluene	8260B	<0.05	mg/Kg	AZ0563	5/1/98
Total Xylenes	8260B	<0.10	mg/Kg	AZ0563	5/1/98

Surrogate:	% Recovery
Dibromofluoromethane	86%
Toluene-d8	96%
4-Bromofluorobenzene	105%

Robert V. Woods
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Received: 5/1/98
Reported: 5/11/98
aqualab ID: 1-805-005-03

SAMPLE IDENTIFICATION: 135578 4/29/98

METHOD AND QUALITY CONTROL:
The results in this report were generated using approved methods referenced by the U.S. EPA and the Arizona Department of Health Services.

RESULTS:

PARAMETER	METHOD	RESULT	UNITS	ADHS NO.	ANALYZED
Benzene	8260B	<0.05	mg/Kg	AZ0563	5/1/98
Ethyl Benzene	8260B	<0.05	mg/Kg	AZ0563	5/1/98
Toluene	8260B	<0.05	mg/Kg	AZ0563	5/1/98
Total Xylenes	8260B	0.39	mg/Kg	AZ0563	5/1/98

Surrogate:	% Recovery
Dibromofluoromethane	80%
Toluene-d8	89%
4-Bromofluorobenzene	98%

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Received: 5/1/98
Reported: 5/11/98
aqualab ID: 1-805-005-04

SAMPLE IDENTIFICATION: 135579 4/29/98

METHOD AND QUALITY CONTROL:

The results in this report were generated using approved methods referenced by the U.S. EPA and the Arizona Department of Health Services.

RESULTS:

PARAMETER	METHOD	RESULT	UNITS	ADHS NO.	ANALYZED
Benzene	8260B	<0.05	mg/Kg	AZ0563	5/4/98
Ethyl Benzene	8260B	<0.05	mg/Kg	AZ0563	5/4/98
Toluene	8260B	<0.05	mg/Kg	AZ0563	5/4/98
Total Xylenes	8260B	<0.10	mg/Kg	AZ0563	5/4/98

Surrogate:	% Recovery
Dibromofluoromethane	80%
Toluene-d8	99%
4-Bromofluorobenzene	109%

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Received: 5/1/98
Reported: 5/11/98
aqualab ID: 1-805-005-05

SAMPLE IDENTIFICATION: 135580 4/29/98

METHOD AND QUALITY CONTROL:

The results in this report were generated using approved methods referenced by the U.S. EPA and the Arizona Department of Health Services.

RESULTS:

PARAMETER	METHOD	RESULT	UNITS	ADHS NO.	ANALYZED
Benzene	8260B	<0.05	mg/Kg	AZ0563	5/4/98
Ethyl Benzene	8260B	<0.05	mg/Kg	AZ0563	5/4/98
Toluene	8260B	<0.05	mg/Kg	AZ0563	5/4/98
Total Xylenes	8260B	0.28	mg/Kg	AZ0563	5/4/98

Surrogate:	% Recovery
Dibromofluoromethane	80%
Toluene-d8	90%
4-Bromofluorobenzene	100%

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Received: 5/1/98
Reported: 5/11/98
aqualab ID: 1-805-005-06

SAMPLE IDENTIFICATION: 135581 4/29/98

METHOD AND QUALITY CONTROL:

*The surrogate recovery demonstrated a sample matrix effect for this sample. This was confirmed by reanalysis.

The results in this report were generated using approved methods referenced by the U.S. EPA and the Arizona Department of Health Services.

RESULTS:

PARAMETER	METHOD	RESULT	UNITS	ADHS NO.	ANALYZED
Benzene	8260B	<0.05	mg/Kg	AZ0563	5/4/98
Ethyl Benzene	8260B	<0.05	mg/Kg	AZ0563	5/4/98
Toluene	8260B	<0.05	mg/Kg	AZ0563	5/4/98
Total Xylenes	8260B	<0.10	mg/Kg	AZ0563	5/4/98

Surrogate:	% Recovery
Dibromofluoromethane	67*%
Toluene-d8	76*%
4-Bromofluorobenzene	92%

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Received: 5/1/98
Reported: 5/11/98
aqualab ID: 1-805-005-07

SAMPLE IDENTIFICATION: 135582 4/29/98

METHOD AND QUALITY CONTROL:

The results in this report were generated using approved methods referenced by the U.S. EPA and the Arizona Department of Health Services.

RESULTS:

PARAMETER	METHOD	RESULT	UNITS	ADHS NO.	ANALYZED
Benzene	8260B	<0.05	mg/Kg	AZ0563	5/4/98
Ethyl Benzene	8260B	<0.05	mg/Kg	AZ0563	5/4/98
Toluene	8260B	<0.05	mg/Kg	AZ0563	5/4/98
Total Xylenes	8260B	<0.10	mg/Kg	AZ0563	5/4/98

Surrogate:	% Recovery
Dibromofluoromethane	81%
Toluene-d8	88%
4-Bromofluorobenzene	97%

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Received: 5/1/98
Reported: 5/11/98
aqualab ID: 1-805-005-08

SAMPLE IDENTIFICATION: 135583 4/29/98

METHOD AND QUALITY CONTROL:

The results in this report were generated using approved methods referenced by the U.S. EPA and the Arizona Department of Health Services.

RESULTS:

PARAMETER	METHOD	RESULT	UNITS	ADHS NO.	ANALYZED
Benzene	8260B	<0.05	mg/Kg	AZ0563	5/4/98
Ethyl Benzene	8260B	<0.05	mg/Kg	AZ0563	5/4/98
Toluene	8260B	<0.05	mg/Kg	AZ0563	5/4/98
Total Xylenes	8260B	<0.10	mg/Kg	AZ0563	5/4/98

Surrogate:	**% Recovery**
Dibromofluoromethane	82%
Toluene-d8	92%
4-Bromofluorobenzene	100%

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Received: 5/1/98
Reported: 5/11/98
aqualab ID: 1-805-005-09

SAMPLE IDENTIFICATION: 135584 4/29/98

METHOD AND QUALITY CONTROL:

The results in this report were generated using approved methods referenced by the U.S. EPA and the Arizona Department of Health Services.

RESULTS:

PARAMETER	METHOD	RESULT	UNITS	ADHS NO.	ANALYZED
Benzene	8260B	<0.05	mg/Kg	AZ0563	5/4/98
Ethyl Benzene	8260B	<0.05	mg/Kg	AZ0563	5/4/98
Toluene	8260B	<0.05	mg/Kg	AZ0563	5/4/98
Total Xylenes	8260B	<0.10	mg/Kg	AZ0563	5/4/98

Surrogate:	% Recovery
Dibromofluoromethane	84%
Toluene-d8	94%
4-Bromofluorobenzene	103%

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Received: 5/1/98
Reported: 5/11/98
aqualab ID: 1-805-005-10

SAMPLE IDENTIFICATION: 135585 4/29/98

METHOD AND QUALITY CONTROL:

The results in this report were generated using approved methods referenced by the U.S. EPA and the Arizona Department of Health Services.

RESULTS:

PARAMETER	METHOD	RESULT	UNITS	ADHS NO.	ANALYZED
Benzene	8260B	<0.05	mg/Kg	AZ0563	5/4/98
Ethyl Benzene	8260B	<0.05	mg/Kg	AZ0563	5/4/98
Toluene	8260B	0.09	mg/Kg	AZ0563	5/4/98
Total Xylenes	8260B	0.67	mg/Kg	AZ0563	5/4/98

Surrogate:	% Recovery
Dibromofluoromethane	82%
Toluene-d8	90%
4-Bromofluorobenzene	96%

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Received: 5/1/98
Reported: 5/11/98
aqualab ID: 1-805-005-11

SAMPLE IDENTIFICATION: 135586 4/29/98

METHOD AND QUALITY CONTROL:

The results in this report were generated using approved methods referenced by the U.S. EPA and the Arizona Department of Health Services.

RESULTS:

PARAMETER	METHOD	RESULT	UNITS	ADHS NO.	ANALYZED
Benzene	8260B	<0.05	mg/Kg	AZ0563	5/4/98
Ethyl Benzene	8260B	<0.05	mg/Kg	AZ0563	5/4/98
Toluene	8260B	0.06	mg/Kg	AZ0563	5/4/98
Total Xylenes	8260B	0.24	mg/Kg	AZ0563	5/4/98

Surrogate:	% Recovery
Dibromofluoromethane	90%
Toluene-d8	99%
4-Bromofluorobenzene	106%

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Received: 5/1/98
Reported: 5/11/98
aqualab ID: 1-805-005-12

SAMPLE IDENTIFICATION: 135587 4/29/98

METHOD AND QUALITY CONTROL:

The results in this report were generated using approved methods referenced by the U.S. EPA and the Arizona Department of Health Services.

RESULTS:

PARAMETER	METHOD	RESULT	UNITS	ADHS NO.	ANALYZED
Benzene	8260B	<0.05	mg/Kg	AZ0563	5/4/98
Ethyl Benzene	8260B	<0.05	mg/Kg	AZ0563	5/4/98
Toluene	8260B	<0.05	mg/Kg	AZ0563	5/4/98
Total Xylenes	8260B	<0.10	mg/Kg	AZ0563	5/4/98

Surrogate:	% Recovery
Dibromofluoromethane	82%
Toluene-d8	92%
4-Bromofluorobenzene	98%

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Received: 5/1/98
Reported: 5/11/98
aqualab ID: 1-805-005-13

SAMPLE IDENTIFICATION: 135588 4/29/98

METHOD AND QUALITY CONTROL:

The results in this report were generated using approved methods referenced by the U.S. EPA and the Arizona Department of Health Services.

RESULTS:

PARAMETER	METHOD	RESULT	UNITS	ADHS NO.	ANALYZED
Benzene	8260B	<0.05	mg/Kg	AZ0563	5/4/98
Ethyl Benzene	8260B	<0.05	mg/Kg	AZ0563	5/4/98
Toluene	8260B	<0.05	mg/Kg	AZ0563	5/4/98
Total Xylenes	8260B	<0.10	mg/Kg	AZ0563	5/4/98

Surrogate:	% Recovery
Dibromofluoromethane	94%
Toluene-d8	103%
4-Bromofluorobenzene	110%

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CDS Laboratories
75 Suttle Street
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Attn: Traci Haber

Received: 5/1/98
Reported: 5/11/98
aqualab ID: 1-805-005-14

SAMPLE IDENTIFICATION: 135589 4/29/98

METHOD AND QUALITY CONTROL:

The results in this report were generated using approved methods referenced by the U.S. EPA and the Arizona Department of Health Services.

RESULTS:

PARAMETER	METHOD	RESULT	UNITS	ADHS NO.	ANALYZED
Benzene	8260B	<0.05	mg/Kg	AZ0563	5/5/98
Ethyl Benzene	8260B	<0.05	mg/Kg	AZ0563	5/5/98
Toluene	8260B	<0.05	mg/Kg	AZ0563	5/5/98
Total Xylenes	8260B	<0.10	mg/Kg	AZ0563	5/5/98

Surrogate:	% Recovery
Dibromofluoromethane	82%
Toluene-d8	89%
4-Bromofluorobenzene	94%

Robert V. Woods
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CDS Laboratories
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Received: 5/1/98
Reported: 5/11/98
aqualab ID: 1-805-005-15

SAMPLE IDENTIFICATION: 135590 4/29/98

METHOD AND QUALITY CONTROL:

The results in this report were generated using approved methods referenced by the U.S. EPA and the Arizona Department of Health Services.

RESULTS:

PARAMETER	METHOD	RESULT	UNITS	ADHS NO.	ANALYZED
Benzene	8260B	<0.05	mg/Kg	AZ0563	5/5/98
Ethyl Benzene	8260B	<0.05	mg/Kg	AZ0563	5/5/98
Toluene	8260B	<0.05	mg/Kg	AZ0563	5/5/98
Total Xylenes	8260B	<0.10	mg/Kg	AZ0563	5/5/98

Surrogate:	% Recovery
Dibromofluoromethane	91%
Toluene-d8	100%
4-Bromofluorobenzene	106%

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Received: 5/1/98
Reported: 5/11/98
aqualab ID: 1-805-005-16

SAMPLE IDENTIFICATION: 135591 4/29/98

METHOD AND QUALITY CONTROL:

The results in this report were generated using approved methods referenced by the U.S. EPA and the Arizona Department of Health Services.

RESULTS:

PARAMETER	METHOD	RESULT	UNITS	ADHS NO.	ANALYZED
Benzene	8260B	<0.05	mg/Kg	AZ0563	5/5/98
Ethyl Benzene	8260B	<0.05	mg/Kg	AZ0563	5/5/98
Toluene	8260B	<0.05	mg/Kg	AZ0563	5/5/98
Total Xylenes	8260B	<0.10	mg/Kg	AZ0563	5/5/98

Surrogate:	% Recovery
Dibromofluoromethane	93%
Toluene-d8	104%
4-Bromofluorobenzene	111%

Robert V. Woods
Laboratory Director

aqualab inc.

3902 E. University Dr. #4 Phoenix AZ 85034 602-437-0979 Fax 437-0826 e-mail *aqualabUSA.com*

CDS Laboratories
75 Suttle Street
Durango, CO 81301
Attn: Traci Haber

Received: 5/1/98
Reported: 5/11/98
aqualab ID: 1-805-005-17

SAMPLE IDENTIFICATION: 135592 4/29/98

METHOD AND QUALITY CONTROL:

The results in this report were generated using approved methods referenced by the U.S. EPA and the Arizona Department of Health Services.

RESULTS:

PARAMETER	METHOD	RESULT	UNITS	ADHS NO.	ANALYZED
Benzene	8260B	<0.05	mg/Kg	AZ0563	5/5/98
Ethyl Benzene	8260B	<0.05	mg/Kg	AZ0563	5/5/98
Toluene	8260B	<0.05	mg/Kg	AZ0563	5/5/98
Total Xylenes	8260B	<0.10	mg/Kg	AZ0563	5/5/98

Surrogate:	% Recovery
Dibromofluoromethane	88%
Toluene-d8	98%
4-Bromofluorobenzene	104%

Robert V. Woods
Laboratory Director

aqualab inc.

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CDS Laboratories
75 Suttle Street
Durango, CO 81301
Attn: Traci Haber

Received: 5/1/98
Reported: 5/11/98
aqualab ID: 1-805-005-18

SAMPLE IDENTIFICATION: 135593 4/29/98

METHOD AND QUALITY CONTROL:

The results in this report were generated using approved methods referenced by the U.S. EPA and the Arizona Department of Health Services.

RESULTS:

PARAMETER	METHOD	RESULT	UNITS	ADHS NO.	ANALYZED
Benzene	8260B	<0.05	mg/Kg	AZ0563	5/5/98
Ethyl Benzene	8260B	<0.05	mg/Kg	AZ0563	5/5/98
Toluene	8260B	<0.05	mg/Kg	AZ0563	5/5/98
Total Xylenes	8260B	<0.10	mg/Kg	AZ0563	5/5/98

Surrogate:	% Recovery
Dibromofluoromethane	91%
Toluene-d8	100%
4-Bromofluorobenzene	105%

Robert V. Woods
Laboratory Director

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QUALITY CONTROL DATA -- VOLATILES

Matrix: Soil
Units: mg/kg

aqualab ID: 1-805-005
Reported: 5/11/98

PARAMETER	EPA METHOD	SAMPLE SPIKED	SAMPLE RESULT	SPIKE AMOUNT	SPIKE RESULT	PERCENT RECOVERY	DUPLICATE RESULT	PERCENT RECOVERY	RPD	DATE ANALYZED
1,1-DCE	8260B	Blank	<0.05	2.5	2.3	92%	NA	NA	NA	5/4/98
TCE	8260B	Blank	<0.05	2.5	2.4	96%	NA	NA	NA	5/4/98
Chlorobenzene	8260B	Blank	<0.05	2.5	2.4	96%	NA	NA	NA	5/4/98
Toluene	8260B	Blank	<0.05	2.5	2.4	96%	NA	NA	NA	5/4/98
Benzene	8260B	Blank	<0.05	2.5	2.4	96%	NA	NA	NA	5/4/98

Samples Linked: 1-805-005 (04-12)

aqualab inc.

3902 E. University Dr. #4 Phoenix AZ 85034 602-437-0979 Fax 437-0826 e-mail *aqualabUSA.com*

QUALITY CONTROL DATA -- VOLATILES

Matrix: Soil
Units: mg/kg

aqualab ID: 1-805-005
Reported: 5/11/98

PARAMETER	EPA METHOD	SAMPLE SPIKED	SAMPLE RESULT	SPIKE AMOUNT	SPIKE RESULT	PERCENT RECOVERY	DUPLICATE RESULT	PERCENT RECOVERY	RPD	DATE ANALYZED
1,1-DCE	8260B	1-805-005-1	<0.05	2.5	2.2	88%	1.7	68%	26	5/4/98
TCE	8260B	1-805-005-1	<0.05	2.5	2.3	92%	2.1	84%	9	5/4/98
Chlorobenzene	8260B	1-805-005-1	<0.05	2.5	2.4	96%	2.2	88%	9	5/4/98
Toluene	8260B	1-805-005-1	<0.05	2.5	2.3	92%	2.2	88%	4	5/4/98
Benzene	8260B	1-805-005-1	<0.05	2.5	2.3	92%	2.0	80%	14	5/4/98

Samples Linked: 1-805-005 (04-12)

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Attn:KEITH JOHNSON

BASIN DISPOSAL
PO BOX 100
AZTEC NM 87410

Sample ID : SAMPLE #1
Date Login: 04/30/98
Date Rec'd: 04/30/98

Depth? ≈ 5 ft.

SAMPLE COLLECTION:
Date/Time/By:
Location:

CDS Lab #:A98-135576 ANALYTICAL REPORT Report Date 05/18/98

Testname	Result	Units	Method	DL	MCL
Silver, TCLP	< 1	ppm	EPA200.7	1	5
Arsenic, TCLP	< 1	ppm	SM3113B	1	5
Barium, TCLP	< 10	ppm	EPA200.7	10	100
Benzene	< 0.05	ppm	EPA 8260	0.05	
Cadmium, TCLP	< 0.5	ppm	EPA200.7	0.5	1.0
Chromium, TCLP	< 1	ppm	EPA200.7	1	5
Ethylbenzene	< 0.05	ppm	EPA 8260	0.05	
Mercury, TCLP	< 0.01	ppm	EPA245.1	0.01	0.20
Lead, TCLP	< 1	ppm	EPA200.7	1	5
Selenium, TCLP	< 0.5	ppm	SM3113B	0.5	1.0
Toluene	< 0.05	ppm	EPA 8260	0.05	
Total Petroleum Hydrocarbons	< 20	ppm	EPA 418.1	20	
Xylene (total)	< 0.10	ppm	EPA 8260	0.10	
TCLP Extract					

Approved By: C Fenendil Checked By: JH

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Attn:KEITH JOHNSON

BASIN DISPOSAL
PO BOX 100
AZTEC NM 87410

Sample ID : SAMPLE #2
Date Login: 04/30/98
Date Rec'd: 04/30/98

SAMPLE COLLECTION:
Date/Time/By:
Location:

CDS Lab #:A98-135577 ANALYTICAL REPORT Report Date 05/18/98

Testname	Result	Units	Method	DL	MCL
Silver, TCLP	< 1	ppm	EPA200.7	1	5
Arsenic, TCLP	< 1	ppm	SM3113B	1	5
Barium, TCLP	< 10	ppm	EPA200.7	10	100
Benzene	< 0.05	ppm	EPA 8260	0.05	
Cadmium, TCLP	< 0.5	ppm	EPA200.7	0.5	1.0
Chromium, TCLP	< 1	ppm	EPA200.7	1	5
Ethylbenzene	< 0.05	ppm	EPA 8260	0.05	
Mercury, TCLP	< 0.01	ppm	EPA245.1	0.01	0.20
Lead, TCLP	< 1	ppm	EPA200.7	1	5
Selenium, TCLP	< 0.5	ppm	SM3113B	0.5	1.0
Toluene	< 0.05	ppm	EPA 8260	0.05	
Total Petroleum Hydrocarbons	< 20	ppm	EPA 418.1	20	
Xylene (total)	< 0.10	ppm	EPA 8260	0.10	
TCLP Extract					

Approved By: C Fernandez Checked By: JH

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Attn:KEITH JOHNSON

BASIN DISPOSAL
PO BOX 100
AZTEC NM 87410

Sample ID : SAMPLE #3
Date Login: 04/30/98
Date Rec'd: 04/30/98

SAMPLE COLLECTION:
Date/Time/By:
Location:

CDS Lab #:A98-135578 ANALYTICAL REPORT Report Date 05/18/98

Testname	Result	Units	Method	DL	MCL
Silver, TCLP	< 1	ppm	EPA200.7	1	5
Arsenic, TCLP	< 1	ppm	SM3113B	1	5
Barium, TCLP	< 10	ppm	EPA200.7	10	100
Benzene	< 0.05	ppm	EPA 8260	0.05	
Cadmium, TCLP	< 0.5	ppm	EPA200.7	0.5	1.0
Chromium, TCLP	< 1	ppm	EPA200.7	1	5
Ethylbenzene	< 0.05	ppm	EPA 8260	0.05	
Mercury, TCLP	< 0.01	ppm	EPA245.1	0.01	0.20
Lead, TCLP	< 1	ppm	EPA200.7	1	5
Selenium, TCLP	< 0.5	ppm	SM3113B	0.5	1.0
Toluene	< 0.05	ppm	EPA 8260	0.05	
Total Petroleum Hydrocarbons	16300	ppm	EPA 418.1	20	
Xylene (total)	0.39	ppm	EPA 8260	0.10	
TCLP Extract					

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Attn:KEITH JOHNSON

BASIN DISPOSAL
PO BOX 100
AZTEC NM 87410

Sample ID : SAMPLE #4
Date Login: 04/30/98
Date Rec'd: 04/30/98

SAMPLE COLLECTION:
Date/Time/By:
Location:

CDS Lab #:A98-135579 ANALYTICAL REPORT Report Date 05/18/98

Testname	Result	Units	Method	DL	MCL
Silver, TCLP	< 1	ppm	EPA200.7	1	5
Arsenic, TCLP	< 1	ppm	SM3113B	1	5
Barium, TCLP	< 10	ppm	EPA200.7	10	100
Benzene	< 0.05	ppm	EPA 8260	0.05	
Cadmium, TCLP	< 0.5	ppm	EPA200.7	0.5	1.0
Chromium, TCLP	< 1	ppm	EPA200.7	1	5
Ethylbenzene	< 0.05	ppm	EPA 8260	0.05	
Mercury, TCLP	< 0.01	ppm	EPA245.1	0.01	0.20
Lead, TCLP	< 1	ppm	EPA200.7	1	5
Selenium, TCLP	< 0.5	ppm	SM3113B	0.5	1.0
Toluene	< 0.05	ppm	EPA 8260	0.05	
Total Petroleum Hydrocarbons	60	ppm	EPA 418.1	20	
Xylene (total)	< 0.10	ppm	EPA 8260	0.10	
TCLP Extract					

Approved By: C Fenendel Checked By: JH

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Attn:KEITH JOHNSON

BASIN DISPOSAL
PO BOX 100
AZTEC NM 87410

Sample ID : SAMPLE #5
Date Login: 04/30/98
Date Rec'd: 04/30/98

SAMPLE COLLECTION:
Date/Time/By:
Location:

CDS Lab #:A98-135580 ANALYTICAL REPORT Report Date 05/18/98

Testname	Result	Units	Method	DL	MCL
Silver, TCLP	< 1	ppm	EPA200.7	1	5
Arsenic, TCLP	< 1	ppm	SM3113B	1	5
Barium, TCLP	< 10	ppm	EPA200.7	10	100
Benzene	< 0.05	ppm	EPA 8260	0.05	
Cadmium, TCLP	< 0.5	ppm	EPA200.7	0.5	1.0
Chromium, TCLP	< 1	ppm	EPA200.7	1	5
Ethylbenzene	< 0.05	ppm	EPA 8260	0.05	
Mercury, TCLP	< 0.01	ppm	EPA245.1	0.01	0.20
Lead, TCLP	< 1	ppm	EPA200.7	1	5
Selenium, TCLP	< 0.5	ppm	SM3113B	0.5	1.0
Toluene	< 0.05	ppm	EPA 8260	0.05	
Total Petroleum Hydrocarbons	110	ppm	EPA 418.1	20	
Xylene (total)	0.28	ppm	EPA 8260	0.10	
TCLP Extract					

Approved By: C Fenendel Checked By: JH

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Attn:KEITH JOHNSON

BASIN DISPOSAL
PO BOX 100
AZTEC NM 87410

Sample ID : SAMPLE #6
Date Login: 04/30/98
Date Rec'd: 04/30/98

SAMPLE COLLECTION:
Date/Time/By:
Location:

CDS Lab #:A98-135581 ANALYTICAL REPORT Report Date 05/18/98

Testname	Result	Units	Method	DL	MCL
Silver, TCLP	< 1	ppm	EPA200.7	1	5
Arsenic, TCLP	< 1	ppm	SM3113B	1	5
Barium, TCLP	< 10	ppm	EPA200.7	10	100
Benzene	< 0.05	ppm	EPA 8260	0.05	
Cadmium, TCLP	< 0.5	ppm	EPA200.7	0.5	1.0
Chromium, TCLP	< 1	ppm	EPA200.7	1	5
Ethylbenzene	< 0.05	ppm	EPA 8260	0.05	
Mercury, TCLP	< 0.01	ppm	EPA245.1	0.01	0.20
Lead, TCLP	< 1	ppm	EPA200.7	1	5
Selenium, TCLP	< 0.5	ppm	SM3113B	0.5	1.0
Toluene	< 0.05	ppm	EPA 8260	0.05	
Total Petroleum Hydrocarbons	2650	ppm	EPA 418.1	20	
Xylene (total)	< 0.10	ppm	EPA 8260	0.10	
TCLP Extract					

Approved By: C Finnerdil Checked By: JH

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Attn:KEITH JOHNSON

BASIN DISPOSAL
PO BOX 100
AZTEC NM 87410

Sample ID : SAMPLE #7
Date Login: 04/30/98
Date Rec'd: 04/30/98

SAMPLE COLLECTION:
Date/Time/By:
Location:

CDS Lab #:A98-135582 ANALYTICAL REPORT Report Date 05/18/98

Testname	Result	Units	Method	DL	MCL
Silver, TCLP	< 1	ppm	EPA200.7	1	5
Arsenic, TCLP	< 1	ppm	SM3113B	1	5
Barium, TCLP	< 10	ppm	EPA200.7	10	100
Benzene	< 0.05	ppm	EPA 8260	0.05	
Cadmium, TCLP	< 0.5	ppm	EPA200.7	0.5	1.0
Chromium, TCLP	< 1	ppm	EPA200.7	1	5
Ethylbenzene	< 0.05	ppm	EPA 8260	0.05	
Mercury, TCLP	< 0.01	ppm	EPA245.1	0.01	0.20
Lead, TCLP	< 1	ppm	EPA200.7	1	5
Selenium, TCLP	< 0.5	ppm	SM3113B	0.5	1.0
Toluene	< 0.05	ppm	EPA 8260	0.05	
Total Petroleum Hydrocarbons	30	ppm	EPA 418.1	20	
Xylene (total)	< 0.10	ppm	EPA 8260	0.10	
TCLP Extract					

Approved By: C Fernandez Checked By: JH

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Attn:KEITH JOHNSON

BASIN DISPOSAL
PO BOX 100
AZTEC NM 87410

Sample ID : SAMPLE #8
Date Login: 04/30/98
Date Rec'd: 04/30/98

SAMPLE COLLECTION:
Date/Time/By:
Location:

CDS Lab #:A98-135583 ANALYTICAL REPORT Report Date 05/18/98

Testname	Result	Units	Method	DL	MCL
Silver, TCLP	< 1	ppm	EPA200.7	1	5
Arsenic, TCLP	< 1	ppm	SM3113B	1	5
Barium, TCLP	< 10	ppm	EPA200.7	10	100
Benzene	< 0.05	ppm	EPA 8260	0.05	
Cadmium, TCLP	< 0.5	ppm	EPA200.7	0.5	1.0
Chromium, TCLP	< 1	ppm	EPA200.7	1	5
Ethylbenzene	< 0.05	ppm	EPA 8260	0.05	
Mercury, TCLP	< 0.01	ppm	EPA245.1	0.01	0.20
Lead, TCLP	< 1	ppm	EPA200.7	1	5
Selenium, TCLP	< 0.5	ppm	SM3113B	0.5	1.0
Toluene	< 0.05	ppm	EPA 8260	0.05	
Total Petroleum Hydrocarbons	< 20	ppm	EPA 418.1	20	
Xylene (total)	< 0.10	ppm	EPA 8260	0.10	
TCLP Extract					

Approved By: C Jenner Checked By: JH

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Attn:KEITH JOHNSON

BASIN DISPOSAL
PO BOX 100
AZTEC NM 87410

Sample ID : SAMPLE #9
Date Login: 04/30/98
Date Rec'd: 04/30/98

SAMPLE COLLECTION:
Date/Time/By:
Location:

CDS Lab #:A98-135584 ANALYTICAL REPORT Report Date 05/18/98

Testname	Result	Units	Method	DL	MCL
Silver, TCLP	< 1	ppm	EPA200.7	1	5
Arsenic, TCLP	< 1	ppm	SM3113B	1	5
Barium, TCLP	< 10	ppm	EPA200.7	10	100
Benzene	< 0.05	ppm	EPA 8260	0.05	
Cadmium, TCLP	< 0.5	ppm	EPA200.7	0.5	1.0
Chromium, TCLP	< 1	ppm	EPA200.7	1	5
Ethylbenzene	< 0.05	ppm	EPA 8260	0.05	
Mercury, TCLP	< 0.01	ppm	EPA245.1	0.01	0.20
Lead, TCLP	< 1	ppm	EPA200.7	1	5
Selenium, TCLP	< 0.5	ppm	SM3113B	0.5	1.0
Toluene	< 0.05	ppm	EPA 8260	0.05	
Total Petroleum Hydrocarbons	40	ppm	EPA 418.1	20	
Xylene (total)	< 0.10	ppm	EPA 8260	0.10	
TCLP Extract					

Approved By: C Fruendich Checked By: JH

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Attn:KEITH JOHNSON

BASIN DISPOSAL
PO BOX 100
AZTEC NM 87410

Sample ID : SAMPLE #10
Date Login: 04/30/98
Date Rec'd: 04/30/98

SAMPLE COLLECTION:
Date/Time/By:
Location:

CDS Lab #:A98-135585 ANALYTICAL REPORT Report Date 05/18/98

Testname	Result	Units	Method	DL	MCL
Silver, TCLP	< 1	ppm	EPA200.7	1	5
Arsenic, TCLP	< 1	ppm	SM3113B	1	5
Barium, TCLP	< 10	ppm	EPA200.7	10	100
*Benzene	< 0.05	ppm	EPA 8260	0.05	
Cadmium, TCLP	< 0.5	ppm	EPA200.7	0.5	1.0
Chromium, TCLP	< 1	ppm	EPA200.7	1	5
Ethylbenzene	< 0.05	ppm	EPA 8260	0.05	
Mercury, TCLP	< 0.01	ppm	EPA245.1	0.01	0.20
Lead, TCLP	< 1	ppm	EPA200.7	1	5
Selenium, TCLP	< 0.5	ppm	SM3113B	0.5	1.0
Toluene	0.09	ppm	EPA 8260	0.05	
*Total Petroleum Hydrocarbons	1230	ppm	EPA 418.1	20.0	
*Xylene (total)	0.67	ppm	EPA 8260	0.10	
TCLP Extract					

Approved By: C Fivendel Checked By: JH

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Attn:KEITH JOHNSON

BASIN DISPOSAL
PO BOX 100
AZTEC NM 87410

Sample ID : SAMPLE #11
Date Login: 04/30/98
Date Rec'd: 04/30/98

SAMPLE COLLECTION:
Date/Time/By:
Location:

CDS Lab #:A98-135586 ANALYTICAL REPORT Report Date 05/18/98

Testname	Result	Units	Method	DL	MCL
Silver, TCLP	< 1	ppm	EPA200.7	1	5
Arsenic, TCLP	< 1	ppm	SM3113B	1	5
Barium, TCLP	< 10	ppm	EPA200.7	10	100
Benzene	< 0.05	ppm	EPA 8260	0.05	
Cadmium, TCLP	< 0.5	ppm	EPA200.7	0.5	1.0
Chromium, TCLP	< 1	ppm	EPA200.7	1	5
Ethylbenzene	< 0.05	ppm	EPA 8260	0.05	
Mercury, TCLP	< 0.01	ppm	EPA245.1	0.01	0.20
Lead, TCLP	< 1	ppm	EPA200.7	1	5
Selenium, TCLP	< 0.5	ppm	SM3113B	0.5	1.0
Toluene	0.06	ppm	EPA 8260	0.05	
Total Petroleum Hydrocarbons	2900	ppm	EPA 418.1	20.0	
Xylene (total)	0.24	ppm	EPA 8260	0.10	
TCLP Extract					

Approved By: C Fernandez Checked By: JH

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Attn:KEITH JOHNSON

BASIN DISPOSAL
PO BOX 100
AZTEC NM 87410

Sample ID : SAMPLE #12
Date Login: 04/30/98
Date Rec'd: 04/30/98

SAMPLE COLLECTION:
Date/Time/By:
Location:

CDS Lab #:A98-135587 ANALYTICAL REPORT Report Date 05/18/98

Testname	Result	Units	Method	DL	MCL
Silver, TCLP	< 1	ppm	EPA200.7	1	5
Arsenic, TCLP	< 1	ppm	SM3113B	1	5
Barium, TCLP	< 10	ppm	EPA200.7	10	100
Benzene	< 0.05	ppm	EPA 8260	0.05	
Cadmium, TCLP	< 0.5	ppm	EPA200.7	0.5	1.0
Chromium, TCLP	< 1	ppm	EPA200.7	1	5
Ethylbenzene	< 0.05	ppm	EPA 8260	0.05	
Mercury, TCLP	< 0.01	ppm	EPA245.1	0.01	0.20
Lead, TCLP	< 1	ppm	EPA200.7	1	5
Selenium, TCLP	< 0.5	ppm	SM3113B	0.5	1.0
Toluene	< 0.05	ppm	EPA 8260	0.05	
Total Petroleum Hydrocarbons	120	ppm	EPA 418.1	20	
Xylene (total)	< 0.10	ppm	EPA 8260	0.10	
TCLP Extract					

Approved By: C Fenendel Checked By: JH

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75 Suttle Street Durango CO 81301
970-247-4220 Fax 247-4227

Attn:KEITH JOHNSON

BASIN DISPOSAL
PO BOX 100
AZTEC NM 87410

Sample ID : SAMPLE #13
Date Login: 04/30/98
Date Rec'd: 04/30/98

SAMPLE COLLECTION:
Date/Time/By:
Location:

CDS Lab #:A98-135588 ANALYTICAL REPORT Report Date 05/18/98

Testname	Result	Units	Method	DL	MCL
Silver, TCLP	< 1	ppm	EPA200.7	1	5
Arsenic, TCLP	< 1	ppm	SM3113B	1	5
Barium, TCLP	< 10	ppm	EPA200.7	10	100
Benzene	< 0.05	ppm	EPA 8260	0.05	
Cadmium, TCLP	< 0.5	ppm	EPA200.7	0.5	1.0
Chromium, TCLP	< 1	ppm	EPA200.7	1	5
Ethylbenzene	< 0.05	ppm	EPA 8260	0.05	
Mercury, TCLP	< 0.01	ppm	EPA245.1	0.01	0.20
Lead, TCLP	< 1	ppm	EPA200.7	1	5
Selenium, TCLP	< 0.5	ppm	SM3113B	0.5	1.0
Toluene	< 0.05	ppm	EPA 8260	0.05	
Total Petroleum Hydrocarbons	< 20	ppm	EPA 418.1	20	
Xylene (total)	< 0.10	ppm	EPA 8260	0.10	
TCLP Extract					

Approved By: C Fenendel Checked By: JH

cds
LABORATORIES
an affiliate of aqualab inc.
75 Suttle Street Durango CO 81301
970-247-4220 Fax 247-4227

Attn:KEITH JOHNSON

BASIN DISPOSAL
PO BOX 100
AZTEC NM 87410

Sample ID : SAMPLE #14
Date Login: 04/30/98
Date Rec'd: 04/30/98

SAMPLE COLLECTION:
Date/Time/By:
Location:

CDS Lab #:A98-135589 ANALYTICAL REPORT Report Date 05/18/98

Testname	Result	Units	Method	DL	MCL
Silver, TCLP	< 1	ppm	EPA200.7	1	5
Arsenic, TCLP	< 1	ppm	SM3113B	1	5
Barium, TCLP	< 10	ppm	EPA200.7	10	100
Benzene	< 0.05	ppm	EPA 8260	0.05	
Cadmium, TCLP	< 0.5	ppm	EPA200.7	0.5	1.0
Chromium, TCLP	< 1	ppm	EPA200.7	1	5
Ethylbenzene	< 0.05	ppm	EPA 8260	0.05	
Mercury, TCLP	< 0.01	ppm	EPA245.1	0.01	0.20
Lead, TCLP	< 1	ppm	EPA200.7	1	5
Selenium, TCLP	< 0.5	ppm	SM3113B	0.5	1.0
Toluene	< 0.05	ppm	EPA 8260	0.05	
Total Petroleum Hydrocarbons	110	ppm	EPA 418.1	20	
Xylene (total)	< 0.10	ppm	EPA 8260	0.10	
TCLP Extract					

Approved By: C Fenendel Checked By: JH

cds
LABORATORIES
an affiliate of aqualab inc.
75 Suttle Street Durango CO 81301
970-247-4220 Fax 247-4227

Attn:KEITH JOHNSON

BASIN DISPOSAL
PO BOX 100
AZTEC NM 87410

Sample ID : SAMPLE #15
Date Login: 04/30/98
Date Rec'd: 04/30/98

SAMPLE COLLECTION:
Date/Time/By:
Location:

CDS Lab #:A98-135590 ANALYTICAL REPORT Report Date 05/18/98

Testname	Result	Units	Method	DL	MCL
Silver, TCLP	< 1	ppm	EPA200.7	1	5
Arsenic, TCLP	< 1	ppm	SM3113B	1	5
Barium, TCLP	< 10	ppm	EPA200.7	10	100
Benzene	< 0.05	ppm	EPA 8260	0.05	
Cadmium, TCLP	< 0.5	ppm	EPA200.7	0.5	1.0
Chromium, TCLP	< 1	ppm	EPA200.7	1	5
Ethylbenzene	< 0.05	ppm	EPA 8260	0.05	
Mercury, TCLP	< 0.01	ppm	EPA245.1	0.01	0.20
Lead, TCLP	< 1	ppm	EPA200.7	1	5
Selenium, TCLP	< 0.5	ppm	SM3113B	0.5	1.0
Toluene	< 0.05	ppm	EPA 8260	0.05	
Total Petroleum Hydrocarbons	30	ppm	EPA 418.1	20	
Xylene (total)	< 0.10	ppm	EPA 8260	0.10	
TCLP Extract					

Approved By: C Fenendrie Checked By: JH

cds
LABORATORIES
an affiliate of aqualab inc.
75 Suttle Street Durango CO 81301
970-247-4220 Fax 247-4227

Attn:KEITH JOHNSON

BASIN DISPOSAL
PO BOX 100
AZTEC NM 87410

Sample ID : SAMPLE #16
Date Login: 04/30/98
Date Rec'd: 04/30/98

SAMPLE COLLECTION:
Date/Time/By:
Location:

CDS Lab #:A98-135591 ANALYTICAL REPORT Report Date 05/18/98

Testname	Result	Units	Method	DL	MCL
Silver, TCLP	< 1	ppm	EPA200.7	1	5
Arsenic, TCLP	< 1	ppm	SM3113B	1	5
Barium, TCLP	< 10	ppm	EPA200.7	10	100
Benzene	< 0.05	ppm	EPA 8260	0.05	
Cadmium, TCLP	< 0.5	ppm	EPA200.7	0.5	1.0
Chromium, TCLP	< 1	ppm	EPA200.7	1	5
Ethylbenzene	< 0.05	ppm	EPA 8260	0.05	
Mercury, TCLP	< 0.01	ppm	EPA245.1	0.01	0.20
Lead, TCLP	< 1	ppm	EPA200.7	1	5
Selenium, TCLP	< 0.5	ppm	SM3113B	0.5	1.0
Toluene	< 0.05	ppm	EPA 8260	0.05	
Total Petroleum Hydrocarbons	60	ppm	EPA 418.1	20	
Xylene (total)	< 0.10	ppm	EPA 8260	0.10	
TCLP Extract					

Approved By: C Fewendel Checked By: JH

cds
LABORATORIES
an affiliate of aqualab inc.
75 Suttle Street Durango CO 81301
970-247-4220 Fax 247-4227

Attn:KEITH JOHNSON

BASIN DISPOSAL
PO BOX 100
AZTEC NM 87410

Sample ID : SAMPLE #17
Date Login: 04/30/98
Date Rec'd: 04/30/98

SAMPLE COLLECTION:
Date/Time/By:
Location:

CDS Lab #:A98-135592 ANALYTICAL REPORT Report Date 05/18/98

Testname	Result	Units	Method	DL	MCL
Silver, TCLP	< 1	ppm	EPA200.7	1	5
Arsenic, TCLP	< 1	ppm	SM3113B	1	5
Barium, TCLP	< 10	ppm	EPA200.7	10	100
Benzene	< 0.05	ppm	EPA 8260	0.05	
Cadmium, TCLP	< 0.5	ppm	EPA200.7	0.5	1.0
Chromium, TCLP	< 1	ppm	EPA200.7	1	5
Ethylbenzene	< 0.05	ppm	EPA 8260	0.05	
Mercury, TCLP	< 0.01	ppm	EPA245.1	0.01	0.20
Lead, TCLP	< 1	ppm	EPA200.7	1	5
Selenium, TCLP	< 0.5	ppm	SM3113B	0.5	1.0
Toluene	< 0.05	ppm	EPA 8260	0.05	
Total Petroleum Hydrocarbons	30	ppm	EPA 418.1	20	
Xylene (total)	< 0.10	ppm	EPA 8260	0.10	
TCLP Extract					

Approved By: C Fernandez Checked By: JH

cds
LABORATORIES
an affiliate of aqualab inc.
75 Suttle Street Durango CO 81301
970-247-4220 Fax 247-4227

Attn:KEITH JOHNSON

BASIN DISPOSAL
PO BOX 100
AZTEC NM 87410

Sample ID : SAMPLE #18
Date Login: 04/30/98
Date Rec'd: 04/30/98

SAMPLE COLLECTION:
Date/Time/By:
Location:

CDS Lab #:A98-135593 ANALYTICAL REPORT Report Date 05/18/98

Testname	Result	Units	Method	DL	MCL
Silver, TCLP	< 1	ppm	EPA200.7	1	5
Arsenic, TCLP	< 1	ppm	SM3113B	1	5
Barium, TCLP	< 10	ppm	EPA200.7	10	100
Benzene	< 0.05	ppm	EPA 8260	0.05	
Cadmium, TCLP	< 0.5	ppm	EPA200.7	0.5	1.0
Chromium, TCLP	< 1	ppm	EPA200.7	1	5
Ethylbenzene	< 0.05	ppm	EPA 8260	0.05	
Mercury, TCLP	< 0.01	ppm	EPA245.1	0.01	0.20
Lead, TCLP	< 1	ppm	EPA200.7	1	5
Selenium, TCLP	< 0.5	ppm	SM3113B	0.5	1.0
Toluene	< 0.05	ppm	EPA 8260	0.05	
Total Petroleum Hydrocarbons	180	ppm	EPA 418.1	20	
Xylene (total)	< 0.10	ppm	EPA 8260	0.10	
TCLP Extract					

Approved By: C Jenendel Checked By: JH

CHAIN OF CUSTODY RECORD **CDS LABORATORIES** Durango, CO 81302

Client: Basin Disposal	Project Identification	ANALYSES REQUESTED	Sampling Notes
	Description of Seal		
Report Address Keith Johnson	Billing Address		
PO Box 100			
Aztec, NM 87410			
Phone (505) 325-6336	Fax (505) 325-6567		

Sample Number Identification	Date	Time	Lab Number	Matrix	TPH	BTEX	RCRA metals	TCLP Extract				Remarks
Sample # 1-18			135576-		X	X	X					
			135588-									
			135593									

Sampled by: (Signature) (Printed)	Date	Time	Received by: (Signature) (Printed)	Date	Time
	Sealed	Y/N		Sealed	Y/N
Relinquished by: (Signature) (Printed)	Date	Time	Received by: (Signature) (Printed)	Date	Time
	Sealed	Y/N		Sealed	Y/N
Relinquished by: (Signature) (Printed)	Date	Time	Received by CDS Laboratories (Signature) Traci Haber (Printed)	Date 4-30-98	Time 8:00
	Sealed	Y/N		Sealed	Y/N

CDS LABORATORIES
75 Suttle Street
P.O. Box 2605
Durango, CO 81302-2605
(970) 247-4220
FAX (970) 247-4227

Nº 16862

PURCHASE ORDER # or CONTRACT # _____
I authorize the requested laboratory Services to be performed and billed to the reference contract or purchase order, or to be billed to:

Signed: _____ Dated _____

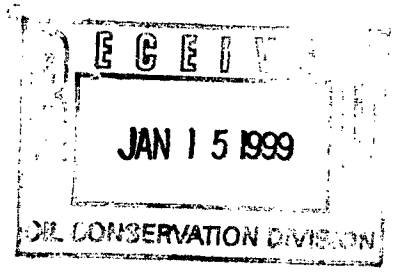
BASIN DISPOSAL, INC.

"SPECIALIZING IN DISPOSAL OF PRODUCED WATER AND DRILLING MUD"

P. O. BOX 100 • AZTEC, NEW MEXICO 87410 • PHONE: (505) 334-3013

January 12, 1999

Oil Conservation Division
Martyne Kieling
2040 S. Pacheco
Santa Fe, NM 87505-5472



RE: Repermitting of Basin Disposal

Dear Martyne,

At our last meeting this past summer you and Roger suggested that we should include in this permit a request to include in our permitted area a portion of the land directly to the north of us. I have included it in my map of our facility, which I have attached to this letter. We have a request that I will be calling you about in the next few days for a temporary use of that parcel that will enable us to completely clean the pond this spring or summer. We are also waiting for an engineer for PESCO to complete a design of a oil/sediment/water separator. I have also included a new copy of our H2S contingency plan and the soil tests from the buried pits. If you have any questions please call me. Thank you very much for all of your help.

Sincerely,

Keith Johnson
General Manager

cc: Denny Foust

BASIN DISPOSAL, INC.

"SPECIALIZING IN DISPOSAL OF PRODUCED WATER AND DRILLING MUD"

P. O. BOX 100 • AZTEC, NEW MEXICO 87410 • PHONE: (505) 334-3013

February , 1998

Mr. Roger Anderson
New Mexico Oil Conservation Division
Environmental Bureau
2040 S. Pacheco St.
Santa Fe, NM 87505-5472

RE: Replacing Hot Oil Truck with a Permanent Tank.

Dear Mr. Anderson:

Basin Disposal requests approval to build a 500 bbl. tank for heat treating oil. This will replace the truck we are using at this time. The new tank will use a propane burner to heat the oil. I have enclosed a diagram of the facility to show where it will be placed and a drawing of the tank and burner. The area around the tank will be bermed and lined with gravel.

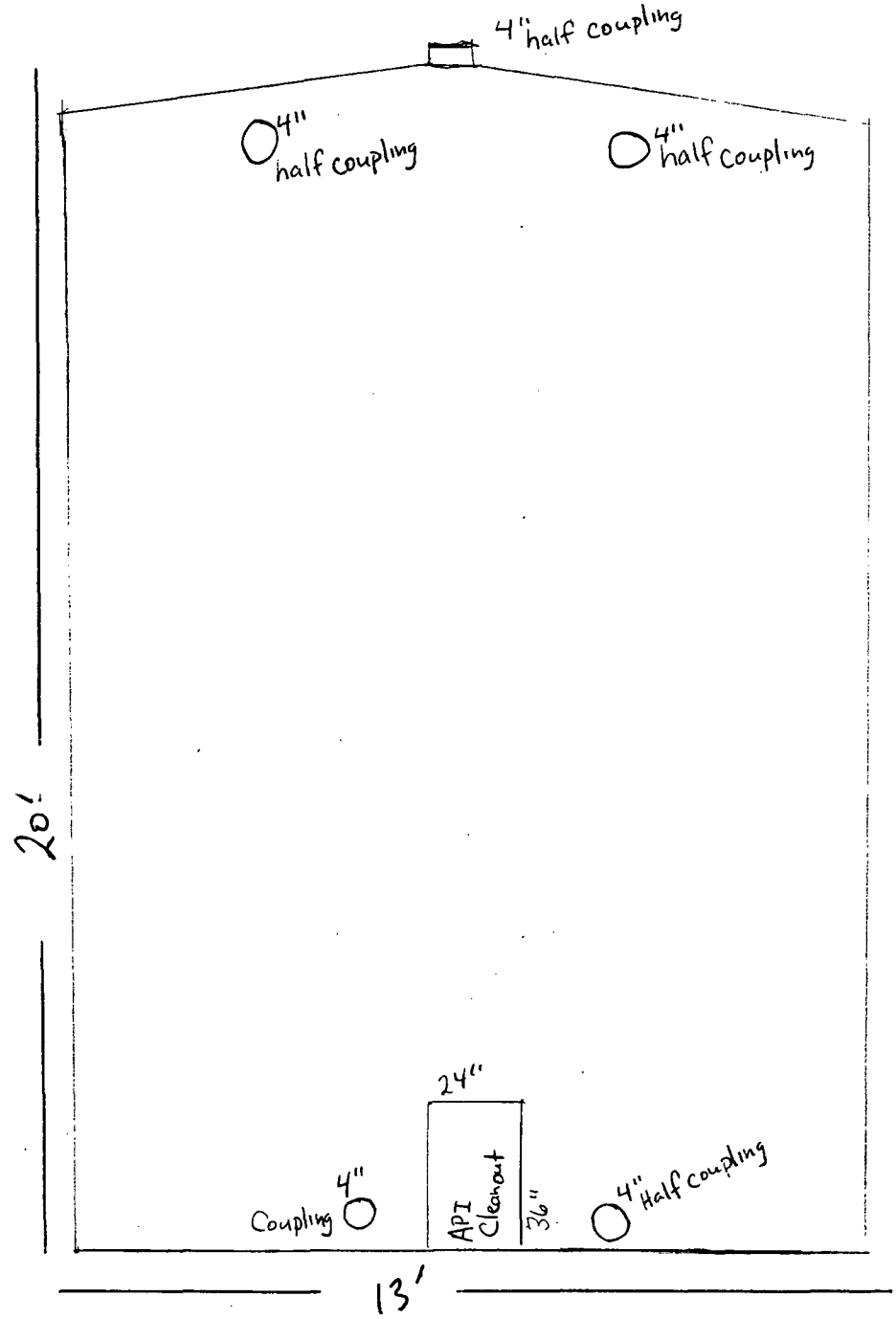
If you have any questions, please call me at 325-6336. Written comments can be faxed at 325-6567.

Sincerely,

Keith Johnson
General Manager

cc: Mr. Jerry Sandel
Mr. David Turner
Mr. Denny Foust, NMOCD

BASIN DISPOSAL'S HOT OIL TANK
500 BARRELS

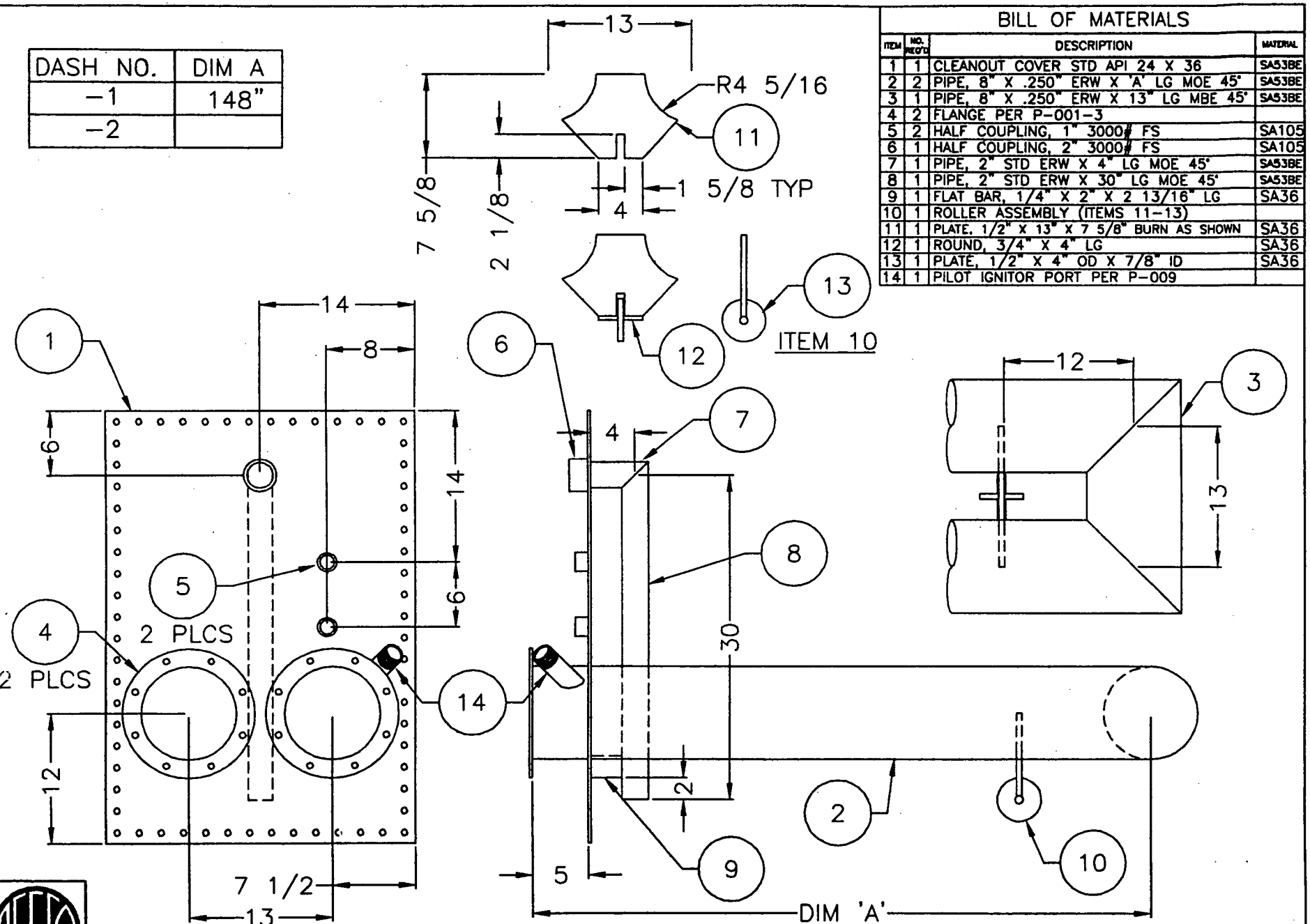


Propane Burner

DASH NO.	DIM A
−1	148"
−2	

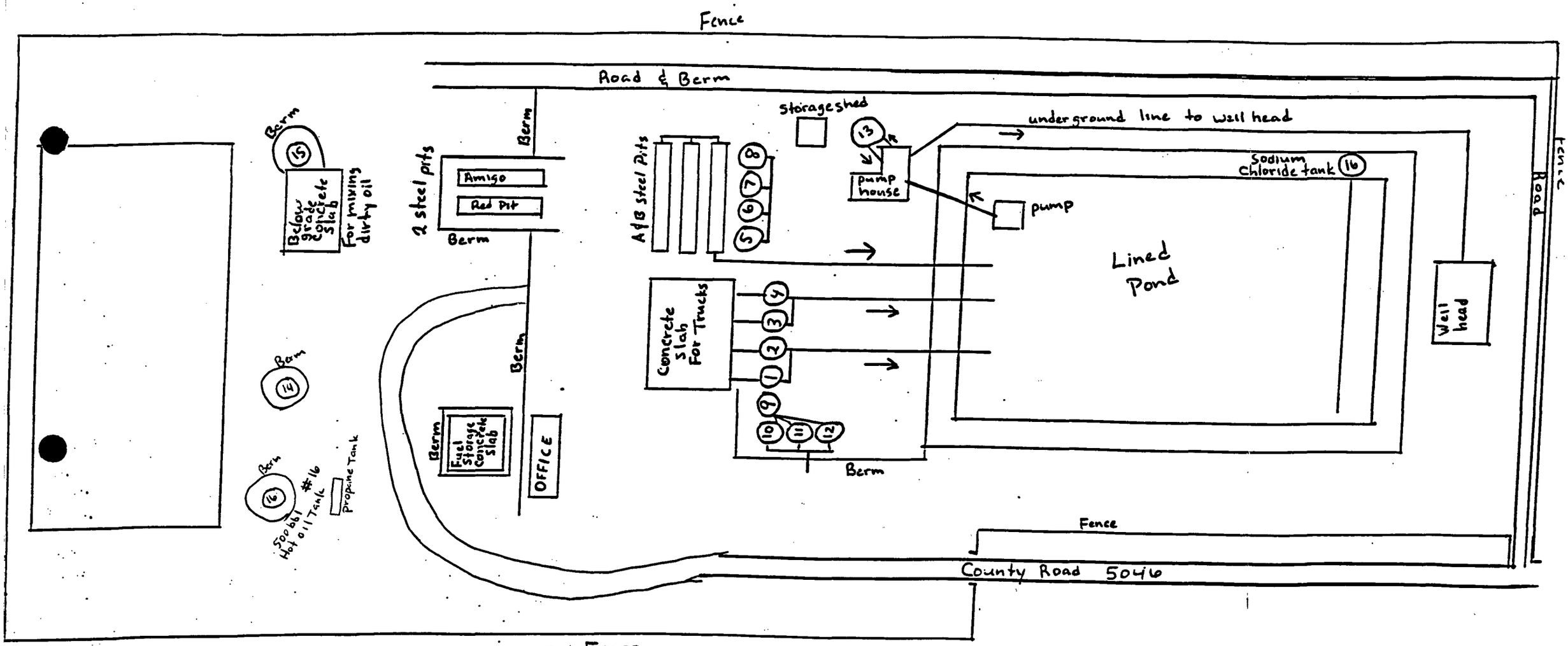
BILL OF MATERIALS

ITEM	NO. REQ'D	DESCRIPTION	MATERIAL
1	1	CLEANOUT COVER STD API 24 X 36	SA53BE
2	2	PIPE, 8" X .250" ERW X 'A' LG MOE 45°	SA53BE
3	1	PIPE, 8" X .250" ERW X 13" LG MBE 45°	SA53BE
4	2	FLANGE PER P-001-3	
5	2	HALF COUPLING, 1" 3000# FS	SA105
6	1	HALF COUPLING, 2" 3000# FS	SA105
7	1	PIPE, 2" STD ERW X 4" LG MOE 45°	SA53BE
8	1	PIPE, 2" STD ERW X 30" LG MOE 45°	SA53BE
9	1	FLAT BAR, 1/4" X 2" X 2 13/16" LG	SA36
10	1	ROLLER ASSEMBLY (ITEMS 11-13)	
11	1	PLATE, 1/2" X 13" X 7 5/8" BURN AS SHOWN	SA36
12	1	ROUND, 3/4" X 4" LG	SA36
13	1	PLATE, 1/2" X 4" OD X 7/8" ID	SA36
14	1	PILOT IGNITOR PORT PER P-009	



PROCESS EQUIPMENT & SERVICE CO.	DATE: 2-4-98	DRAWN BY: JMB	SCALE: 1/12	DESCRIPTION: TANK FIREBOX − 8" X .250" WALL	DWG NO: P-046

Exhibit F



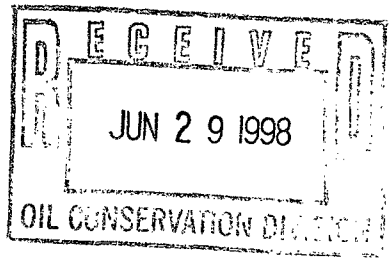
Tank #16 is New Hot oil Tank

BASIN DISPOSAL, INC.

"SPECIALIZING IN DISPOSAL OF PRODUCED WATER AND DRILLING MUD"

P. O. BOX 100 • AZTEC, NEW MEXICO 87410 • PHONE: (505) 334-3013

June 25, 1998



New Mexico Oil Conservation Division
Martyne J. Kieling
Environmental Bureau
2040 So. Pacheco St.
Santa Fe, NM 87505-5472

RE: Bermed and lined pit for sludge

Dear Ms. Kieling,

Basin Disposal requests approval to build a lined and bermed pit that we can put the sludge from cleaning our pond until it dries. It will be about 3 feet deep. This will be just a temporary improvement and we will remove it as soon as possible.

If you have any questions please call me at (505) 325-6336 or 632-8936. A copy can be FAXed to (505) 632-2215.

Sincerely,

Keith Johnson
General Manager

cc: Mr. Jerry Sandel
Mr. David Turner
Mr. Denny Foust, NMOCD

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

MEMORANDUM OF MEETING OR CONVERSATION

☒ Telephone ☐ Personal	Time @ 1:45	Date 6/4/98
Originating Party		**Other Parties**
Denny Foutz OCD Aztec # 320-0200 mobile		Martyne Kieling OCD Santa Fe

Subject Basin Disposal odor

Discussion Denny was called out ~~to~~ Last Night 6/3/98 to Investigate odor From Basin Disposal. The Smell Has been Reported Sence Last week ≈ 5/25/98. H_2S Monitoring Show No H_2S. Smell is Sour water / Hydrocarbon (Produced water) odor. Things that could be done Suggested by Denny 1) Lower Pond 2) add chemical to Bottom 3) Inject Air to the Bottom (Turn Pond over) 4) Move Injection well pump Inlet to the opposite Corner Than The Inlet pipe from Reciving tanks. 5) Stop Receiving Water or Slow Recival of water.

Conclusions or Agreements Residence are upset about the odor. [redacted] Air Quality District Rep Has been Informed twice. Should try and Call Jerry Sandel tomorrow when Roger A. Gets Back. Review Permit one more time. Require Removal of oil

H_2S Prevention 4. Disolved Oxygen -

Distribution 3, 6, 4 O_2

Signed Martyne J Kieling

NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

June 1, 1998
July 1 MK

CERTIFIED MAIL
RETURN RECEIPT NO. P-326-936-458

Mr. Jerry Sandel
Basin Disposal, Inc.
P.O. Box 100
Aztec, New Mexico 87401

RE: Basin Disposal, Inc. Surface Waste Management Facility NM-01-0005 SE/4 NW/4 of Section 3, Township 29 North, Range 11 West, NMPM, San Juan County, New Mexico

Dear Mr. Sandel:

The New Mexico Oil Conservation Division (OCD) has received Basin Disposal, Inc. letter dated June 25, 1998 regarding a request to build a temporary lined and bermed sludge drying pit at the above referenced location. The request for a temporary pit is hereby approved with the following conditions:

1. The temporary pit is authorized for 180 days from the date of this approval.
2. The pit liner shall be a minimum of a 12 mm plastic.
3. The pit will be bermed and maintained to prevent run-on and run-off.
4. The pit will be no more than 3 feet deep.
5. The dry pit sludge will be removed to an OCD approved disposal facility.
6. The pit liner will be disposed of appropriately and the site regraded to prevent any ponding of precipitation.

If you have any questions please do not hesitate to contact me at (505) 827-7153.

Sincerely,

Martyne J. Kieling
Environmental Geologist

xc: Aztec OCD Office

NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

April 24, 1998

CERTIFIED MAIL
RETURN RECEIPT NO. P-326-936-420

Mr. Jerry Sandel
Basin Disposal, Inc.
P.O. Box 100
Aztec, New Mexico 87401

RE: Basin Disposal, Inc. Evaporation Pond and Treating Plant
Inspection and Permit Application Review (NM-01-0005)
SE/4 NW/4 of Section 3, Township 29 North, Range 11 West, NMPM,
San Juan County, New Mexico

Dear Mr. Sandel:

The New Mexico Oil Conservation Division (OCD) has received and is in the process of reviewing the above referenced inspection and permit application information for an oil field related commercial treating plant and evaporation pond located in the SE/4 NW/4 of Section 3, Township 29 North, Range 11 West, NMPM, San Juan County, New Mexico. The following comments and requests for additional information are based on review of the application, dated November 5, 1997, additional information provided February 18,1998 and our discussions at Basin Disposal on April 21, 1998.

In order for the review process to continue the OCD requires Basin Disposal, Inc. to submit the additional information requested in Attachment 1. Submission of the above requested information will allow the review process to continue.

If you have any questions please do not hesitate to contact me at (505) 827-7153.

Sincerely,

Martyne J. Kieling
Environmental Geologist

xc with attachments:
xc: Aztec OCD Office

ATTACHMENT 1
REQUEST FOR ADDITIONAL INFORMATION
APRIL 24, 1998
BASIN DISPOSAL, INC.
SE/4 NW/4 of Section 3, Township 29 North, Range 11 West, NMPM,
San Juan County, New Mexico.

1. Sections one, two, three, four, five, six, seven, eight, and nine (1, 2, 3, 4, 5, 6, 7, 8 and 9 Application Form C-137;

   A. Basin Disposal, Inc. (Basin Disposal) has completed sections one, two, three, four, five, six, seven, eight, and nine (1, 2, 3, 4, 5, 6, 7, 8 and 9).

2. Section ten (10) Application Form C-137;

   A. The closure plan that Basin Disposal has submitted is higher than that calculated by the OCD. The OCD closure cost estimate was based upon a 52 acre facility with seventeen (17) above ground tanks, five (5) steel pits, one (1) lined evaporation pond, one (1) below grade concrete solidification pit, and three (3) buildings, The OCD cost breakdown is in Attachment 2.

   Any future additions, modifications or changes to the facility may result in a new closure cost and an increase or decrease in financial assurance. The five (5) year permit review and facility inspection may require additional preventative measures to protect human health or environmental re modifications of the facility and permit to be environmentally an increase or decreased in the financial assurance amount

3. Sections eleven and twelve (11 and 12) Application Form C-137;

   A. Basin Disposal has completed sections eleven and twelve (11 and 12).

4. Section thirteen (13) Application Form C-137;

   A. Basin Disposal shall incorporate the following additions **(in bold)** into the H_2S prevention and contingency plan submitted.

      1. All incoming loads of produced water will be tested for hydrogen sulfide (H_2S) concentrations. **Any loads with measurable H_2S concentrations will be treated in a closed system. The treatment reaction will be driven to completion to eliminate all measurable H_2S prior to disposal into the pond.**

2. **Daily tests will be conducted and records made of the pH in the pond. If the pH falls below 8.0, remedial steps will be taken immediately to raise the pH to 8.0.**

3. **Weekly test will be conducted and records made of the dissolved sulfide concentrations in the pond.**

4. The aeration system will be operated to provide sufficient oxygen to the pond to maintain a residual oxygen concentration of 0.5 ppm one foot off the bottom of the pond. Tests will be conducted and records made to determine the dissolved oxygen levels in the pond according to the following procedure:

    a. Test will be conducted at the beginning of each day, or at least once per 24 hour period;

    b. The sample for each test will be taken one foot form the bottom of the pond;

    c. The location of each test will vary around the pond;

    d. If any test shows a dissolved residual oxygen level of less that 0.5 ppm, immediate steps will be undertaken to oxygenate the pond and create a residual oxygen level to at least 0.5 ppm. Remedial measures may include adding chemicals or increased aeration.

5. **Test of ambient H_2S levels will be conducted and records made. Such tests will be made at varying locations around the berm of the pond. Tests will be conducted twice per day. The wind speed and direction will be recorded in conjunction with each test.**

6. If an H_2S reading of 0.1 ppm or greater is obtained:

    a. A second reading will be taken on the down wind berm with in one hour;

    b. The dissolved oxygen and dissolved sulfide levels of the pond shall be tested immediately and the need for immediate treatment determined;

    c. Tests for H_2S levels will be made at the fence line,

downwind form the pond.

7. If two consecutive H_2S readings of 0.1 ppm or greater are obtained:

   a. The operator will notify the OCD Aztec Office immediately;

   b. The operator will commence hourly monitoring on a 24-hour basis;

   c. **The operator will obtain daily analysis of dissolved sulfides in the pond.**

8. If an H_2S reading of 10.0 ppm or greater at the facility fence line is obtained:

   a. The operator will **immediately** notify the OCD Aztec office and the following public safety agencies.

      State Police
      Bloomfield Police
      County Sheriff
      Fire Department

   b. The operator will initiate notification of all persons residing within one-half (½) mile of the fence line and assist public safety officials with evacuation as requested.

9. At least 1000 gallons of a treatment chemical will be stored on-site and will not be retained for a period in excess of the manufacturer's stated shelf life. Expired chemicals may be disposed of in the pond.

5. Section fourteen (14) Application Form C-137;

   A. Basin Disposal shall submit analytical results for the final closure of the eighteen (18) mud/oil pits that were located on the upper west end of the facility. One soil sample shall be taken from the center of each pit location at approximately five (5) feet bgs. The material sampled should characterize the materials left in place above the liners of the former pits. The soil analysis shall include total petroleum hydrocarbons (TPH); benzene, toluene, ethel benzene, and xylene (BTEX); and RCRA TCLP metals (arsenic, barium, cadmium,

chromium, lead, mercury selenium, silver).

Upon receipt of this information the OCD shall make a determination as to weather additional samples are required to determine extent of potential contamination or if the material may be left in place. The current financial assurance estimate included within (Attachment 2) does not include remedial action on the 18 mud/oil pits.

B The current temporary frac tanks that are at the upper west end of the facility will be included in the new permit as temporary and must be either added to the permit or removed within 180 days of the new permit approval date.

6. Section fifteen (15) Application Form C-137;

A. Basin Disposal has completed section fifteen (15).

ATTACHMENT 2
OCD Environmental Bureau Closure Cost Estimate
For
Basin Disposal, Inc. Treating Plant and Evaporation Pond

Electricity Required for Water Disposal
Basin Disposal Estimated Costs

30 days of Pumping Operations = **$7,000.00 Electricity**

Personnel for Water Disposal
Basin Disposal Estimated Costs

2 personnel for 24 hours a day for 30 days = **$14,400.00 Water Disposal**

Filters
Basin Disposal Estimated Costs

36 filter/day for 30 days = **$3,000.00 Filters**

Removal of Piping and Roustabout Costs

= **$15,000.00 Piping Removal**

Analytical Analysis for site characterization

State Contract Laboratory Prices per analysis:

BTEX	$ 40.00	x 40 samples	= $1,600.00
TPH	$ 50.00	x 40 samples	= $2,000.00
Metals	$200.00	x 40 samples	= $8,000.00
			$11,600.00 Analytical

Quarterly Sampling Time and Labor for 40 samples

Labor 2 personnel $55.00/hour
Sample 30 min per sample
Travel 2 hour
Delivery & Paperwork 2 hours

Total Time = (30 min/sample x 40 samples) + 2 hour + 2 hours = 24 hours

24 hours x $55.00/hour x 2 persons = **$2,640.00 Sampling Event**

Removal of 500 yd^3 of residual contaminated Soil to a Local OCD Permitted Landfarm

Price and Time Quotes from Equipment Operators: Approximately 13 truck loads.

410 Backhoe and operator	$45.00/hour	x	30 hours =	$1,350.00
950 loader and operator	$75.00/hour	x	30 hours =	$2,250.00
24 yd^3 Dump Truck and operator	$75.00/hour	x	30 hours =	$2,250.00

$5,850.00 Removal of Soil

Disposal of 500 yd^3 of residual contaminated Soil to a Local OCD Permitted Landfarm

Price Quotes from Landfarm Operators:

volume of soil = 500 yd^3
Price /yd^3 = $18.00 / yd^3

$18.00/$yd^3$ x 500 yd^3 = **$9,000.00 Disposal of Soil**

Level and Contour Pit and Remove 17 Tanks and 6 Steel Pits

Price from Basin Disposal

= **$25,000.00 Level, Contour and Remove**

Reseeding for 53 Acres

Price and application Quotes from Seed Companies

Equipment an labor cost
Tractor and seed drill $40.00/hour @ 30 min/acre for 53 acres = $1,080.00

Materials Cost
Seed $10.00/lb @ 5 lb/acre for 53 acres = $2,650.00

$1,080.00 + $2,650.00 = **$3,730.00 Reseeding**

Total Closure and Reseeding Cost of Basin Disposal's 53 acre facility = $97,220.00

Closure cost bonds will be no more than $250,000.00 per existing facility as per Rule 711.

NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

March 12, 1998

CERTIFIED MAIL
RETURN RECEIPT NO. P-326-936-404

Mr. Jerry Sandel
Basin Disposal, Inc.
P.O. Box 100
Aztec, New Mexico 87401

RE: Basin Disposal, Inc.
Request For Minor Permit Modification Permit (NM-01-0005)
SE/4 NW/4 of Section 3, Township 29 North, Range 11 West, NMPM,
San Juan County, New Mexico

Dear Mr. Sandel:

The New Mexico Oil Conservation Division (OCD), has reviewed Basin Disposal, Inc. (Basin Disposal) letter requesting a minor permit modification to facility operations dated on February, 1997. The new tank will be installed according to new tank installation requirements stipulated in Basin Disposal's inspection report for June 10, 1997. Basin Disposal's request to replace the hot oil truck with at permanent tank is hereby approved with the following conditions:

1 Above Ground Tanks: All above ground tanks which contain fluids other than fresh water must be bermed to contain a volume of one-third more than the total volume of the largest tank or of all interconnected tanks. All new facilities or modifications to existing facilities must place the tank on an impermeable type pad within the berm so that leaks can be identified.

2. Below Grade Tanks/Sumps: All below grade tanks, sumps, and pits must be approved by the OCD prior to installation or upon modification and must incorporate secondary containment and leak-detection into the design. All pre-existing sumps and below grade tanks must demonstrate integrity on an annual basis. Integrity tests include pressure testing and/or visual inspection of cleaned out tanks or sumps, or other OCD approved methods.

If you have any questions please do not hesitate to contact me at (505) 827-7153.

Sincerely,

Martyne J. Kieling
Environmental Geologist

xc: Aztec OCD Office

From Basin Disposal

[illegible]

_____
Date

Dear _____:

We hereby establish our Irrevocable Letter of Credit in your favor at our offices in Farmington, New Mexico, for the account of _____ up to an amount not to exceed $_____ available by your drafts at sight.

Each draft must also [illegible] Letter of Credit #_____.

Each draft must be accompanied by [statement] [affidavit] [promissory note] [etc.].

We will have at least ten (10) days to examine documents and to honor or give notice of dishonor.

This letter of credit expires on _____ or one year from date hereof and may be extended for an additional period of one year by mutual agreement of the parties as shown by an instrument in writing executed by both parties and furnished to you prior to the expiration date.

We hereby agree with the drawee, endorser and bona fide holders of all such drafts drawn under and in compliance with the terms of this letter of credit that such drafts will be honored upon presentation to the drawee accompanied by the required documents.

Except to the extent otherwise expressly provided herein, this letter of credit is subject to the provisions of the Uniform Customs and Practice for Documentary Credits, 1993 Revision, International Chamber of Commerce Publication No. 500, which is incorporated into the text of this letter of credit by this reference, and to the extent not inconsistent therewith, to the Law of the State of New Mexico, including Article 5 of the New Mexico Uniform Commercial Code.

Sincerely yours,

CITIZENS BANK

By_____

DAVID TURNER
President

PHONES:
(505) 325-1845 & 325-2396

CHIEF TRANSPORT CO.

WATER & [illegible] SERVICE
P. O. BOX 358 • [illegible]: 604 WEST PINON
FARMINGTON, NEW MEXICO 87499

FAX MESSAGE COVER SHEET

DATE: 11/5/97

TO: NMOCD

ATTN: Roger or Martin

TRANSMISSION CONSISTS OF COVER SHEET PLUS 1 PAGES.

MESSAGES:

IF THERE IS ANY PROBLEM WITH THIS TRANSMISSION, PLEASE CALL (505) 325-1845.

SIGNED:

Basin Disposal

6/10/97

Basin Disposal

6/10/97

BasinDisposal
6/10/97

Basin Disposal

6/10/97

Basin Disposal

6/10/97

Basin Disposal

6/10/97

Basin Disposal

6/10/97


14

Basin Disposal

6/10/97


15

Basin Disposal

6/10/97

Treating Plant/Evap Pond

Basin Disposal Treating Plant / Evap Pond

6/10/97

FILED
DISTRICT COURT
SAN JUAN COUNTY,
NM

Jun 25 4 38 PM '87

STATE OF NEW MEXICO
COUNTY OF SAN JUAN

IN THE DISTRICT COURT

STATE OF NEW MEXICO; TIMOTHY PAYNE, indivídually and as next friend of, DOUGLAS BURKE SHIP, LYNN D. PAYNE and AMANDA J. PAYNE; TERESA L. PAYNE; MAC MANTLE; LILA SAIZ; PAT HARGISS; TERRY CRAWFORD, individually and as next friend of, TIMOTHY CRAWFORD, JESSICA CRAWFORD and JENNIFER CRAWFORD; and JUDY CRAWFORD,

Plaintiffs,

vs. No. CV 87-569-3

BASIN DISPOSAL INC., a New Mexico corporation; JERRY SANDEL, individually and as an officer and director of Basin Disposal; D. C. TURNER, individually and as an officer and director of Basin Disposal; DAVID TURNER, individually and as an officer and director of Basin Disposal; CHIEF TRANSPORT CO., a New Mexico corporation, SSS TRUCKING, a New Mexico corporation; JOHN DOE TRUCKING COMPANIES #I, II, and III; and JOHN DOES #IV, V and VI.

Defendants.

FIRST AMENDED COMPLAINT FOR INJUNCTIVE RELIEF; FOR PERSONAL INJURY AND PROPERTY DAMAGE

COME NOW the Plaintiffs and for their cause state:

1. Plaintiffs are residents of San Juan County, New Mexico.

2. Defendant, Basin Disposal Inc., is a New Mexico corporation doing business in San Juan County, New Mexico.

3. Defendants Jerry Sandel, D. C. Turner and David Turner, are individuals residing in San Juan County and officers and

directors of Defendant, Basin Disposal.

4. Defendant Chief Transport Co. is, on information and belief, a New Mexico corporation having its principal place of business in San Juan County, New Mexico.

5. Defendant SSS Trucking is, on information and belief, a New Mexico corporation having its principal place of business in San Juan County, New Mexico.

6. Defendants John Doe Trucking Companies #I, II and III are, information and belief, business organizations doing business in San Juan County, New Mexico.

7. Individual John Does #IV, V and VI are employees of the corporate Defendants performing services as truck drivers in San Juan County, New Mexico.

8. The State of New Mexico is named as a party Plaintiff pursuant to Section 30-8-8, N.M.S.A. 1978 (Rep.Pamp. 1984).

COUNT I - PETITION FOR INJUNCTIVE RELIEF

1. Plaintiffs reallege and incorporate the jurisdictional paragraphs as though fully set forth.

2. Plaintiffs reside or own property within one-half mile of the waste disposal site operated by Defendant Basin Disposal.

3. Chemicals and matter deposited in the disposal site create fumes, gases, and particles which are allowed to escape in to the atmosphere.

4. Seepage from the materials at the disposal site escape

into the surface water through overflows and through seepage.

5. The fumes, gases, particles and seepage invade the property owned by Plaintiffs.

6. The fumes and gases escaping the disposal site, in particular the hydrogen sulfide when present in sufficient quantities, are lethal to humans and animals.

7. Unknown substances, in addition to the hydrogen sulfide gas escaping from the site, are taken into the bodies of the Plaintiffs and members of Plaintiffs' families.

8. Each of the Plaintiffs, as well as members of the public at large, have been rendered physically ill by exposure to the fumes, gases and other materials escaping from Defendant Basin Disposal's facility.

9. Some of the Plaintiffs have been forced to seek emergency medical care because of the effects from their exposure to the toxins and pollutants of Defendants.

10. The Plaintiffs homes were located at the present site prior to the creation of the disposal site.

11. The Plaintiffs have great fear that they and their families will be irreparably harmed by the exposure to the fumes, gases and other contaminants produced by the Defendants.

12. There is no adequate remedy at law for the past, present and continuing destruction of the health of the Plaintiffs and their families. The destruction of the health and of the property of the Plaintiffs constitutes immediate and irreparable

injury.

13. The interests of the public in general would be furthered by the order of the Court that the Defendants cease their operations at the disposal site, accept no more truck or tank loads of chemicals, and proceed forthwith to clean up the disposal location.

14. A Judgment for abatement of a public nuisance entitles counsel for Plaintiffs to a reasonable attorney's fee.

WHEREFORE, Plaintiffs pray that the Defendants, and each of them, be preliminarily enjoined from continuing to operate the waste disposal site; for their costs, attorney fees and that the Defendants be required to clean up the disposal site and such other and further relief as the Court deem just.

COUNT II

1. Plaintiffs reallege and reincorporate the proceeding paragraphs as though fully set forth.

2. The operation by the Defendants of the disposal site constitutes both and public and a private nuisance.

3.. The public and private nuisance operated by the Defendants has caused immediate and irreparable injury to these Plaintiffs.

4. The actions of these Defendants have cause personal injury to the Plaintiffs, lost wages, medical expenses, have forced Plaintiffs to live virtual prisoners inside their homes,

unable to venture forth onto their properties; has caused great pain and suffering both of the mind and of the bodies of the Plaintiffs and in addition has caused damage to the value of the properties, both personal and real, of the Plaintiffs.

5. These Defendants have operated and continue to operate and deposit materials in the disposal site with knowledge, both actual and implied, that their actions have caused immediate and irreparable harm to the Plaintiffs.

6. The Defendants have acted in a willful, wanton, and grossly reckless manner in conducting their operations at the location of the disposal site.

WHEREFORE, Plaintiffs respectfully pray this Court issue its injunction enjoining these Defendants from operating a waste disposal site at its present location and requiring these Defendants to clean up the existing site, Judgment for damages for the Plaintiffs and against the Defendants, both compensatory and punitive, in an amount to be determined by the Court; their costs, attorneys fees, and such other and further relief as the Court deem just.

COUNT III - TRESPASS

1. Plaintiffs reallege and reincorporate the provisions of the proceeding paragraphs a though fully set forth.

2. The actions of the Defendants in allowing contaminants and water to escape from the property of Defendant Basin Disposal

onto the lands of the Plaintiffs constitute a trespass.

3. The trespass has occurred in the past and, on information and belief, will continue to occur in the future.

4. The trespass permitted by these Defendants has caused immediate and irreparable to these Plaintiffs.

WHEREFORE, Plaintiffs respectfully pray this Court issue its injunction enjoining these Defendants from operating a waste disposal site at its present location and requiring these Defendants to clean up the existing site, and for damages for the Plaintiffs and against the Defendants, both compensatory and punitive, in an amount to be determined by the Court; their costs, attorneys fees, and such other and further relief as the Court deem just.

COUNT IV - STRICT LIABILITY

1. Plaintiffs reallege and reincorporate the proceeding paragraphs as though fully set forth.

2. The action of the Defendants in operating and contributing to a disposal site of ultra hazardous material gives rise to strict liability for all damages proximately caused by the activities aforementioned.

3. These Defendants knew or should have known that their actions in operating and contributing to the disposal site filled with ultra hazardous material would cause damages to the Plaintiffs.

4. The actions of the Defendants have caused damages to Plaintiffs, and will continue to cause damage to them.

WHEREFORE, Plaintiffs pray that the Defendants, and each of them, be preliminarily enjoined from continuing to operate the waste disposal site and that the Defendants be required to clean up the disposal site, for damages for Plaintiffs and against Defendants; for their costs, attorneys fees and such other and further relief as the Court deem just.

COUNT V - MISREPRESENTATION

1. Plaintiffs reallege and reincorporate proceeding paragraphs as though fully set forth.

2. Representatives of the Defendant Basin Disposal, prior to the creation of the waste disposal site, represented to Plaintiffs that the creation of the waste disposal site would not create any fumes, odors, gases, or in any way interfere with the Plaintiffs possession and control of Plaintiff's property.

3. Statements of the agents of Defendants that benefits would accrue to the Plaintiffs from the creation and operation of the waste disposal site were not true.

4. Plaintiffs reasonably relied on the representation of the agents of Defendants that no harm would come to the Plaintiffs and in fact that benefits would accrue to the Plaintiffs from the creation and operation of the disposal site.

5. Representations were false.

6. These Plaintiffs have been harmed by their reliance on the representations of the Defendants and their agents.

WHEREFORE, Plaintiffs pray that the Defendants, and each of them, be preliminarily enjoined from continuing to operate the waste disposal site and that the Defendants be required to clean up the disposal site, for damages for Plaintiffs and against Defendants; for their costs, attorneys fees and such other and further relief as the Court deem just.

COUNT VI - NEGLIGENCE

1. Plaintiffs reallege and reincorporate the proceeding paragraphs as though fully set forth.

2. Defendant Basin Disposal, its officers, directors, and agents have operated the waste disposal site in negligent manner.

3. Defendants have failed and refused to utilize any standards in the inspection of materials brought into the waste disposal site.

4. Agent of the Defendants trucking companies deposited ultra hazardous materials in the waste disposal site knowing that harm would incur to these Plaintiffs as a result of their actions.

5. Plaintiffs have suffered injuries both physical and to property as a direct approximate result of the actions Defendants.

WHEREFORE, Plaintiffs pray that the Defendants, and each of them, be preliminarily enjoined from continuing to operate the waste disposal site and that the Defendants be required to clean

up the disposal site, for damages for Plaintiffs and against Defendants; for costs, attorneys fees and such other and further relief as the Court deem just.

Respectfully submitted,

F. Chester Miller, III
F. CHESTER MILLER, III
Attorney for Plaintiffs
406 Airport
Farmington, New Mexico 87401

V E R I F I C A T I O N

STATE OF NEW MEXICO)
)
COUNTY OF SAN JUAN)

TIMOTHY PAYNE, being first duly sworn, on oath deposes and states that he is a Plaintiff in the above-entitled cause, that he has read the foregoing Complaint, knows the contents thereof, and that they are true and correct, to the best of his information and belief.

Timothy Payne
TIMOTHY PAYNE

SUBSCRIBED AND SWORN to before me this _____ day of June, 1987.

My Commission Expires:

1/10/91

OFFICIAL SEAL
F. Chester Miller III
NOTARY PUBLIC
F. CHESTER MILLER III
NOTARY PUBLIC STATE OF NEW MEXICO
My Commission Expires: _____