GW - 98

REPORTS

YEAR(S):

1996

B. Wilson
V Pat Sanchez

DOLAN & DOMENICI, P.C.
ATTORNEYS AT LAW
5801 Osuna N.E., Suite 104
Albuquerque, New Mexico 87109
(505) 883-6250

DANIEL R. DOLAN, II[1,2,3]
PETER V. DOMENICI, JR.[2]

Licensed in [1] KY; [2] N.M.; [3] TX.

Fax: (505) 884-3424

December 12, 1996

Mr. Denny Foust
State of New Mexico Energy Minerals and Natural Resources
O.C.D. Division
1000 Rio Brazos Road
Aztec, New Mexico 87410

Re: McClelland v. Weskem-Hall, Inc., et al.
No. SJ-CV-93-62

Dear Mr. Foust:

I have enclosed a copy of the April 22, 1996 "Soil Assessment Report for Former Weatherford Yard", prepared by John Casey of Basin Engineering, Inc. Mr. Dolan asked that you review the report prior to your deposition on December 17, 1996.

Should you have any questions, please do not hesitate to call me. Thank you for your attention to this matter.

Sincerely,

DOLAN & DOMENICI, P.C.

Jeanne Cameron Muniz

JEANNE CAMERON MUNIZ, Esq.

/JCM

Enclosure

cc: T. Hnasko, Esq.

SOIL ASSESSMENT REPORT
for

FORMER WEATHERFORD YARD
5432 U. S. HIGHWAY 64
FARMINGTON, NEW MEXICO

April 22, 1996

Prepared for:

C. E. McClelland
5916 Inverness Drive
Farmington, New Mexico 87401

Prepared by:

Basin Engineering, Inc.
P.O. Box 389
Farmington, New Mexico 87499

John E. Casey, P. E.
President

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

LIST OF APPENDICES

1.0 EXECUTIVE SUMMARY

The purpose of this Soil Assessment Report is to present the methods and findings of investigations conducted on and around the property located at 5432 U. S. Highway 64 in Farmington, New Mexico. The purpose of the investigations was to assess any impacts to site soils as a result of adjacent property uses. The property is currently occupied by Weatherford, a oil field supply company. The work described in this report was authorized by Mr. C. E. McClelland (property owner) of Farmington, New Mexico and executed by Basin Engineering, Inc. (BASIN) of Farmington, New Mexico.

The investigations described in this report included advancement of two (2) test pits in August 1995 and collection of soil samples for a comprehensive laboratory analysis. Another sampling program was executed in February 1996 and consisted of excavating three (3) additional test pits and advancement of five (5) hand auger borings. The soil samples collected during February 1996 were subjected to a comprehensive laboratory analysis. The analytical suites completed for both sampling events included EPA Method 8240 with library search, EPA Method Modified 8000, EPA Method 8270 with library search and soil pH.

The soils beneath the site are generally described as light brown, fine to medium grained sands with varying amounts of small gravels and cobbles. Sandstone underlies the sandy soils on this site at varying depths. Test pits were advanced to depths ranging from 2 feet to 10 feet below local ground surface. Hand auger borings were advanced to depths of 1.5 to 2.0 feet below ground surface.

At all sample locations the soils were visually stained yellow to black. Soil samples SS-4 and SS-5 had hydrocarbon odors. Results of the soil laboratory analysis revealed compounds which matched during the library search and were labeled as tentatively identified compounds. Based on the visual observations, laboratory analysis and consultation with the analytical laboratory, the soils sampled on and near this subject property have been impacted by chemicals.

2.0 INTRODUCTION

2.1 Authorization

The work described in this report was authorized by Mr. C. E. McClelland of Farmington, New Mexico and executed by Basin Engineering, Inc. (BASIN) of Farmington, New Mexico.

2.2 Purpose

The purpose of this Soil Assessment is to determine what, if any impacts, exist due to operation of adjacent industrial facilities. The property is located at 5432 U. S. Highway 64, Farmington, New Mexico. Weatherford currently occupies the facility as a tenant. Uses of the property have included fabrication of oil field related equipment such as surface storage tanks, oil/water separators and natural gas dehydrators and storage of oil field drilling equipment. Figure 1 is a vicinity map and Figure 2 illustrates the project site.

2.3 Scope

The scope of work for the soil assessment described in this report included the following tasks:

- Advancement of two (2) on-site test pits in August 1995 for the purpose of collecting soil samples for laboratory analysis to identify chemical presence and concentrations according to various EPA methods;
- Advancement of three (3) test pits and five (5) hand augered borings on February 7, 1996 for the purpose of collecting soil samples for laboratory analysis;

- Preparation of this Report to present the findings and conclusions of the investigations.

2.4 Site Characteristics

The subject property is slopes moderately to the southwest and for the most part is unvegetated. The commercial building occupies the southeastern portion of the property. All stormwater generated on this property sheet flows to the southwest. During storm events, stromwater flowing from Weskem flows across the subject property. Documentation exists showing chemical releases from the Weskem property which have spilled onto the subject property.

3.0 METHODS OF INVESTIGATION

3.1 Soil Sampling

As part of this investigation, a total of five (5) test pits were excavated within the project area at the locations shown on Figure 2 and labeled TP-1 through TP-5 inclusive. BASIN personnel also advanced a total of five (5) hand augered boring for soil impact assessment purposes. Test pits TP-1 and TP-2 were excavated on August 22, 1995 and TP-3, TP-4 and TP-5 were completed on February 7, 1996. The hand augering was also performed on February 7, 1996. Depths of the soil sampling efforts ranged from approximately 8 inches to 10 feet below existing ground surface. Ground water was not encountered during the course of the investigations.

The soils were logged by BASIN personnel according to the Unified Soil Classification System of visual-manual identification. Photographs of sampling activities and selected soil profiles are enclosed as Appendix A and copies of the test pit and hand augered boring logs are presented as Appendix B.

Samples were collected from soil intervals which were visually stained and/or had olfactory impact. Test pit soil samples were collected from the pit walls or from the bucket of the backhoe while hand auger samples were removed by the auger sampling spoon and placed in appropriate containers. The sample jar was used to collect soil samples directly from the excavation sidewalls and the middle of the backhoe bucket thus eliminating anything touching the soil sample, except the jar. The bucket auger was decontaminated between sample locations with an Alconox solution and a triple rinse of distilled water.

A total of eleven (11) soil samples were collected for laboratory analysis, sealed in glass jars, supplied by the analytical laboratory, placed on ice in a cooler and delivered by Federal Express with chain of custody documentation to Core/Gulf States Analytical in Houston, Texas. A split soil sample collected during the February 7, 1996 sampling event was forwarded in the same manner to Assaigai Analytical Laboratory in Albuquerque, New Mexico. The analytical suites completed for both sampling events included EPA Method 8240 with library search, EPA Method Modified 8000, EPA Method 8270 with library search and soil ph.

4.0 RESULTS OF INVESTIGATION

4.1 Soil Sample Analyses

As previously mentioned, there have been two distinct sampling events performed at the Weatherford Yard. The first sampling event in August 1995 resulted in two (2) samples being forwarded for laboratory analysis and the February 1996 program resulted in nine (9) samples. The complete analytical suite for both sampling events included the following analyses.

TEST NAME	TEST METHOD
ph of Water Extract, Solids	SW-846 9045
Methanol, Solids	SW 846 8015 MOD
GC FID Parameters, nonroutine	SW-846 8000
Volatiles with Library Search	SW-846 8240
Semivolatiles, with Library Search	SW-846 8270

The complete laboratory results for the August 1995 analysis is attached in Appendix C. Appendix D contains the laboratory reports for the February 1996 analysis and Appendix E contains the split sample analysis. The split sample was taken from TP-5 at 1 foot.

The analytical results for the soil from TP-1 indicated a soil ph of 7.53. The analysis for Volatiles, TCL OLMOI.8 List detected the compound acetone at a concentration of 14 ug/L, while the library search for volatiles did not identify any additional compounds. The analysis for Semi-volatiles TCL OLMOI.8 List did not detect any EPA listed compounds, however the library search identified seven (7) compounds, five of which were unknown (generally some type of hydrocarbons) at concentrations ranging from 350 ug/kg to 30,000

ug/kg. The two known compounds were varieties of cyclohexane at 200 ug/kg and 260 ug/kg, respectively.

The analytical results for the soil from TP-2 indicated a soil pH of 8.53. The analysis for Volatiles, TCL OLMOI.8 List did not detect any listed compounds and the library search for volatiles did not identify any additional compounds. The analysis for Semi-volatiles TCL OLMOI.8 List did not detect any EPA listed compounds, however the library search identified eleven (11) compounds, eight of which were unknown (generally some type of hydrocarbons). Two (2) of the tentatively identified compounds (TIC) were varieties of cyclohexane at 18 ug/kg and 29 ug/kg, respectively. The third TIC was sulphur at a concentration of 75 ug/kg.

The analytical results for the soil from TP-3 at a depth of 2.5 feet indicated a soil pH of 7.45. The analysis for Volatiles, TCL OLMOI.8 List did not detect any listed compounds, however the library search for volatiles did identify ten (10) additional TIC's. Three (3) of the TIC's were unknown alkanes and two (2) were unknown. The compounds undecane, dodecane and tridecane were found in concentrations of 12 ug/kg, 23 ug/kg and 11 ug/kg. The compound cyclotetrasiloxane was found in concentrations of 21 ug/kg and an unknown cycloalkane found at 9 ug/kg. The analysis for Semi-volatiles TCL OLMOI.8 List did not detect any EPA listed compounds, however the library search identified three (3) compounds, two of which were unknown Aldol condensate at concentrations of 41,720 ug/kg and 2,399 ug/kg. The third compound was identified as an unknown at a concentration of 1292 ug/kg.

The analytical results for the soil from TP-4 at a depth of 8.0 feet indicated a soil pH of 8.40. The analysis for Volatiles, TCL OLMOI.8 List did not detect any listed compounds,

nor did the library search for volatiles did identify any TIC's. The analysis for Semi-volatiles TCL OLMOI.8 List did not detect any EPA listed compounds, however the library search identified three (3) compounds, two of which were unknown Aldol condensates at concentrations of 45,490 ug/kg and 2,686 ug/kg. The third compound was unknown at a concentration of 1,438 ug/kg.

The analytical results for the soil from surface sample SS-1 at a depth of 4 inches indicated a soil pH of 7.86. The analysis for Volatiles, TCL OLMOI.8 List did not detect any listed compounds, however the library search for volatiles did identify five (5) additional TIC's. Two (2) of the TIC's were unknown at concentration of 16 ug/kg and 17 ug/kg. A third compound was identified as naphthalene at a concentration of 7 ug/kg. A fourth compound was identified as cyclotetrasiloxane at a concentration of 28 ug/kg. The fifth compound was identified as 2,5-cyclohexadiene. The analysis for Semi-volatiles TCL OLMOI.8 List did not detect any EPA listed compounds, however the library search identified seven (7) compounds, five of which were unknown's ranging in concentrations from 9 ug/kg to 360 ug/kg. Two compounds were identified as an unknown Aldol condensate at a concentration of 37,00 ug/kg and 2,100 ug/kg.

The analytical results for the soil from surface sample SS-2 at a depth of 6 inches indicated a soil pH of 7.77. The analysis for Volatiles, TCL OLMOI.8 List did not detect any listed compounds. The library search for volatiles identified twenty four (24) additional TIC's. eight (8) of the TIC's were unknown at concentrations of 12 ug/kg to 170 ug/kg. There were nine (9) TIC's for unknown aromatic hydrocarbons. The compound naphthalene was found at a concentration of 34 ug/kg. The compound cyclotetrasiloxane was identified at a concentration of 22 ug/kg. The compounds decane, undecane and dodecane were found in concentrations of 35 ug/kg, 180 ug/kg and 130 ug/kg. The compound benzene with 1,2,4-

trimethyl was found at a concentration of 46 ug/kg and the compound naphthalene with 1,2,3,4,- tetrahyro was found at a concentration of 61 ug/kg. The analysis for Semi-volatiles TCL OLMOI.8 List did not detect any EPA listed compounds, however the library search identified three (3) compounds, two of which were unknown Aldol condensates at a concentration of 42,000 and 2,500 ug/kg. The third compound was unknown.

The analytical results for the soil from test pit TP-5 at a depth of 1 foot indicated a soil pH of 9.04. The analysis for Volatiles, TCL OLMOI.8 List did not detect any listed compounds. The library search for volatiles identified eight (8) additional TIC's. Two (2) of the TIC's were unknown at concentrations of 8 ug/kg and 35 ug/kg. One (1) of the TIC's were identified as unknown cycloalkane at a concentration of 6 ug/kg. The compound cyclotetrasiloxane, benzoic acid, dodecane, 2,5-cyclohexadiene and tridecane were found in concentrations of 12, 24, 12, 26 and 7 ug/kg respectively. The analysis for Semi-volatiles TCL OLMOI.8 List did not detect any EPA listed compounds, however the library search identified three (3) compounds, one of which was an unknown at a concentration of 680 ug/kg. Two (2) compounds were identified as an unknown Aldol condensate at a concentrations of 42,000 ug/kg and 2,600 ug/kg.

The analytical results for the soil from test pit TP-5 at a depth of 2 feet indicated a soil pH of 7.72. The analysis for Volatiles, TCL OLMOI.8 List did not detect any listed compounds. The library search for volatiles identified six (6) additional TIC's. Four (4) of the TIC's were unknowns at concentrations ranging from 28 ug/kg to 170 ug/kg. The compound was naphthalene with 1,2,3,4-tetrahydro at a concentration of 17 ug/kg. The compound cyclotetrasiloxane was found at a concentration of 120 ug/kg. The analysis for Semi-volatiles TCL OLMOI.8 List did not detect any EPA listed compounds, however the library search identified two (2) compounds, both of which were Aldol condensates at

concentrations of 2,680 ug/kg and 41,910 ug/kg.

The analytical results for the soil from surface sample SS-3 at a depth of 1 foot indicated a soil pH of 8.05. The analysis for Volatiles, TCL OLMOI.8 List did not detect any listed compounds. The library search for volatiles identified eight (8) additional TIC's. Five (5) of the TIC's were unknowns at concentrations of 10 ug/kg to 180 ug/kg. A TIC was identified as naphthalene with 1,2,3,4-tetrahydro at a concentration of 17 ug/kg. The compound 2,5-cyclohexadiene-1,4dione was found at a concentration of 14 ug/kg. The compound cyclotetrasiloxane was found at a concentration of 30 ug/kg. The analysis for Semi-volatiles TCL OLMOI.8 List did not detect any EPA listed compounds, however the library search identified three (3) compounds, two (2) of which was an unknown aldol condensate at a concentration of 44,000 ug/kg and another unknown was detected at 2,600 ug/kg. The third compound was identified as an unknown at a concentration of 570 ug/kg.

The analytical results for the soil from surface sample SS-4 at a depth of 6 inches indicated a soil pH of 8.81. The analysis for Volatiles, TCL OLMOI.8 List did not detect any listed compounds. The library search for volatiles identified thirty (30) additional TIC's. A list of the TIC's can be seen on page 000033 of Appendix D. The analysis for Semi-volatiles TCL OLMOI.8 List did identify one (1) EPA listed compound as 2-methylnapthalene at a concentration of 5,750 ug/kg. The library search identified twenty seven (27) compounds. Twelve (12) of the TIC's were unknown alkanes, six (6) were unknowns and the remaining nine (9) TIC's were comprised of unknown aldol condensate, naphthalene, benzene, decane, heptadecane, octadecane, undecane, unknown oxygenate and 1-napthalenecarboxylic acid. Concentrations of the various TIC's ranged from 290 ug/kg to 24,000 ug/kg.

The analytical results for the soil from surface sample SS-5 at a depth of 6 inches indicated a soil pH of 8.67. The analysis for Volatiles, TCL OLMOI.8 List did not detect any listed compounds. The library search for volatiles identified fourteen (14) additional TIC's, two (2) of which were unknowns at concentrations ranging from 560 ug/kg to 120 ug/kg. Six (6) TIC's were identified as unknown alkane at concentrations ranging from 170 ug/kg to 1,300 ug/kg. Other TIC's found were cyclotetrasiloxane, undecane, benzoic acid, dodecane and tridecane in concentrations ranging from 420 ug/kg to 2,200 ug/kg. The analysis for Semi-volatiles TCL OLMOI.8 List detected the EPA listed compound of 2-methylnapthalene at concentration of 378 ug/kg. The library search identified seventy (70) compounds which are listed in pages 000038 and 000039 of Appendix D.

Concentrations of aldol condensate were reported in all samples. Several steps in the extraction and analysis of soil samples seemed likely to provide conditions favorable to the aldol condensate reaction. According to the analytical chemist the aldol condensate as reported in these samples is due to the analysis process.

An additional soil sample was collected by the property owner in April of 1995 after a release from the Weskem facility. The soil sample was tested for soil pH and the result was 2.02. Copies of that analysis are attached in Appendix F.

5.0 CONCLUSIONS

5.1 Soil Impact Conclusions

Review of the analytical data shows that numerous chemical compounds exist within the soils found on and near the subject property. The soils are dis-colored yellow to black which is typical for acid and hydrocarbon staining. The soil sampled exhibit odors upon exposure by excavation or boring. Based on the laboratory analysis, visual staining and conversations with the chemical analysist the soils sampled have been impacted by chemical compounds. According to the analytical laboratory possible sources of the soil impact are naphtha solvent and gasoline. The alkane compounds originate from naphtha solvent and gasoline. The decane, undecane, heptadecane and octadecane compounds originate from naphtha solvent. The overall chromatographic pattern is similar to what is expected of a naphtha solvent.

A probable source of the soil impact is migration from the Weskem Facility. This source is located upgradient of the subject property and the storm water runoff from the source property is a viable mechanism for transport the chemicals found in the soils at the subject property.

TABLE 1

CORE LAB

GULF STATES ANALYTICAL

6310 Rothway, Houston, Texas 77040, (713) 690-4444, Fax (713) 690-5646

Volatile Extended Library Search								
Parameter	*106501*	*106503*	*106504*	*106505*	*106506*	*106507*	*106508*	*106509*
Hexamethylcyclotrisiloxane							11.556	
4-Methyloctane							12.559	
Nonane							13.335	
Unknown Alkane							13.772	
Unknown Alkane							13.882	
2,6-Dimethyloctane							14.065	
Unknown Cyclohexane							14.202	
3-Methylnonane							14.819	
Octamethyl-cyclo-tetrasiloxane	15.023	15.020	15.022	15.021	15.024	15.025	15.025	15.021
Decane			15.319				15.345	
Unknown Alkane							15.642	
4-Methyldecane							15.779	
1,2,4-Trimethylbenzene			15.799					
Unknown Alkane							15.894	
Unknown Alkane							16.031	
Unknown Cycloalkane							16.191	
Unknown			16.210					
Unknown					16.279	16.303		
Unknown Aromatic Hydrocarbon			16.439					
Unknown Alkane							16.511	
3-Methyl Decane							16.672	
Unknown Aromatic Hydrocarbon			16.873				16.901	
Unknown					17.101	17.103		
Undecane	17.123		17.125				17.175	17.120

CORE LAB

GULF STATES ANALYTICAL

6310 Rothway, Houston, Texas 77040, (713) 690-4444, Fax (713) 690-5646

Volatile Extended Library Search								
Parameter	*106501*	*106503*	*106504*	*106505*	*106506*	*106507*	*106508*	*106509*
Unknown Aromatic Hydrocarbon			17.331					
Unknown Aromatic Hydrocarbon/Unknown Alkane			17.422				17.450	17.417
Unknown Aromatic Hydrocarbon			17.628				17.656	
Unknown	17.785	17.778	17.788	17.779	17.786	17.787		17.783
Unknown Cycloalkane							18.000	
Unknown Aromatic Hydrocarbon			18.063					
Unknown Alkane								18.035
Unknown Alkane							18.184	18.149
Unknown		18.120			18.243	18.244		
Unknown Alkane/Unknown Aromatic	18.265						18.321	18.263
Unknown			18.452					
Dodecane	18.676		18.681	18.669			18.734	18.675
1,2,3,4-Tetrahydrodimethylnapthalene			18.887					
Unknown Alkane							18.940	
Unknown				18.989				
Unknown Alkane	18.904							18.904
Unknown			19.093					
Unknown Aromatic Hydrocarbon			19.185					
Unknown Cyclohexane	19.453			19.468			19.491	19.477
Naphthalene			19.482					
2,5-Cyclohexadiene-1,4-dione		19.602		19.651		19.659		

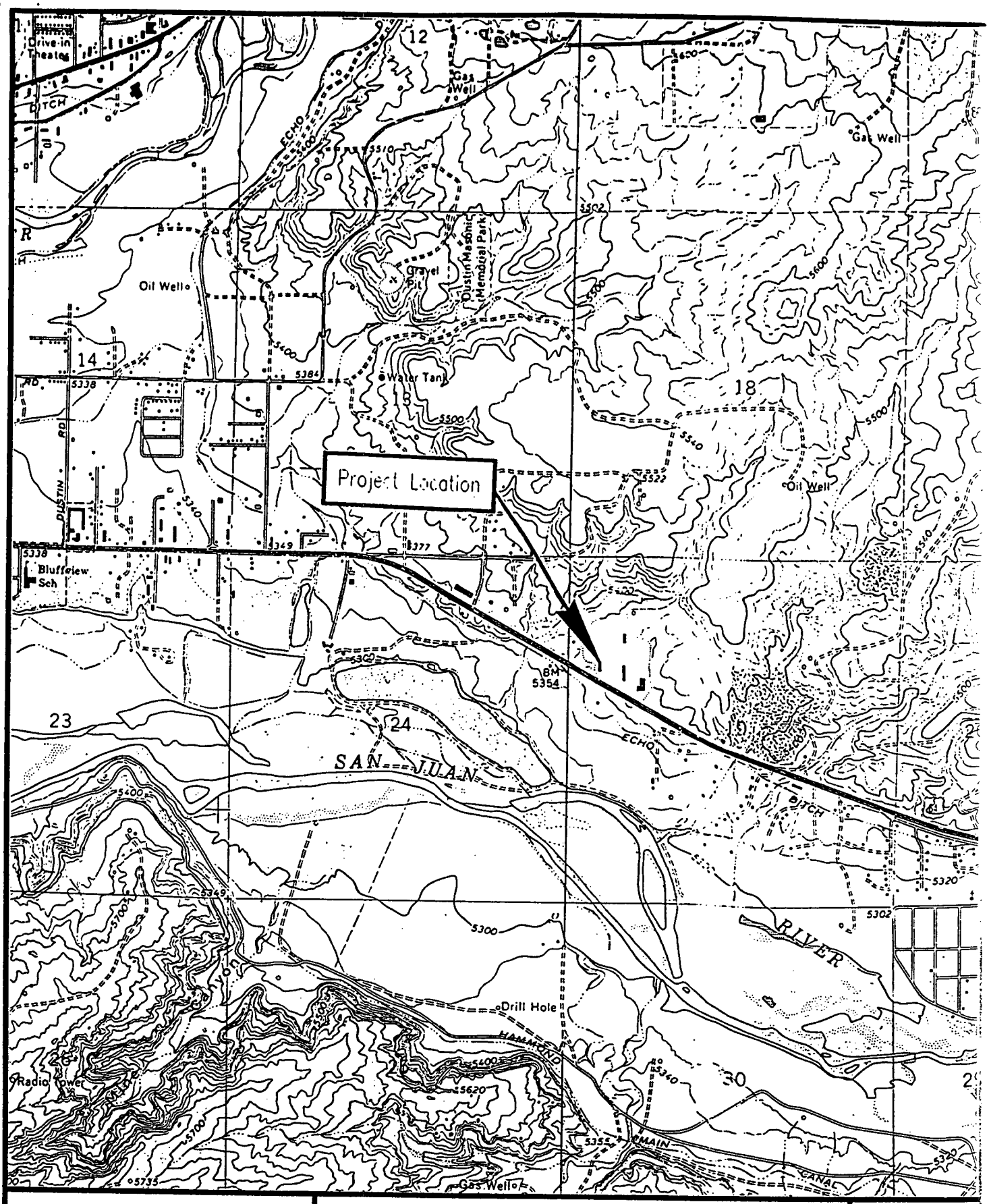
CORE LAB

GULF STATES ANALYTICAL

6310 Rothway, Houston, Texas 77040, (713) 690-4444, Fax (713) 690-5646

Volatile Extended Library Search								
Parameter	*106501*	*106503*	*106504*	*106505*	*106506*	*106507*	*106508*	*106509*
Unknown Alkane	19.681							19.684
Unknown			19.985			19.979		
Tridecane	20.069			20.062			20.064	20.073
Unknown Aromatic Hydrocarbon			20.145					
Unknown	20.275			20.267				
5,6-Dimethylindane							20.362*	
Unknown Aromatic Hydrocarbon			20.602					
Unknown Aromatic Hydrocarbon			20.945					
1,2,3,4-Tetrahydro-1,6-Dimethylnaphthalene		20.560			20.617	20.641		20.807
Unknown			21.105					
Unknown			21.311					

*+Alkane



BASIN ENGINEERING, INC

Drawn by	Date	Checked by	Date
LRH	2-27-96	JEC	

Vicinity Map

Soil Assessment Report

C.E. McClelland – Weatherford Yard

5432 U.S. Hwy. 64

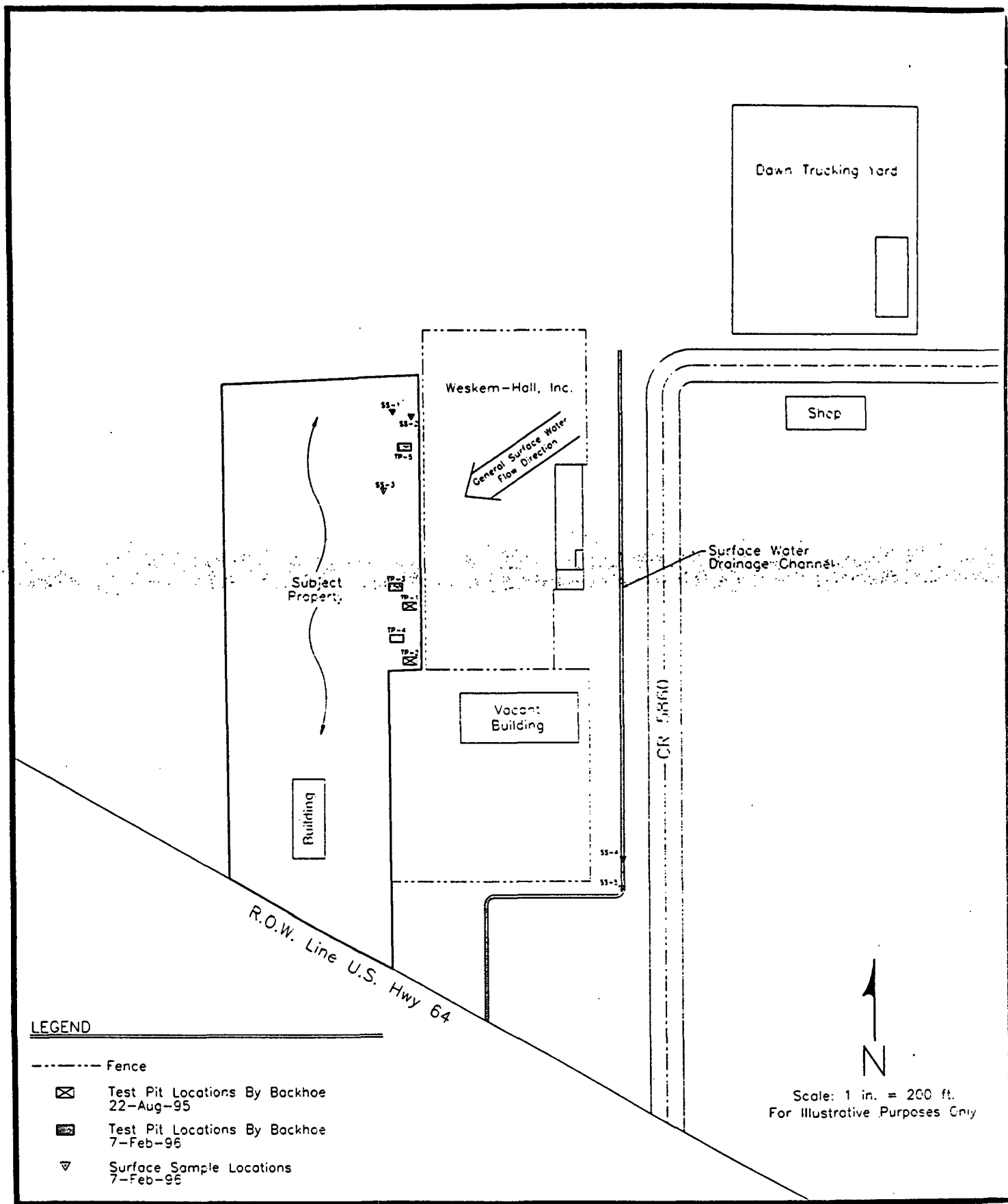
Farmington, New Mexico

Project No.

951401

Figure No.

1



BASIN ENGINEERING, INC

Drawn by: JF Date: 3-27-96

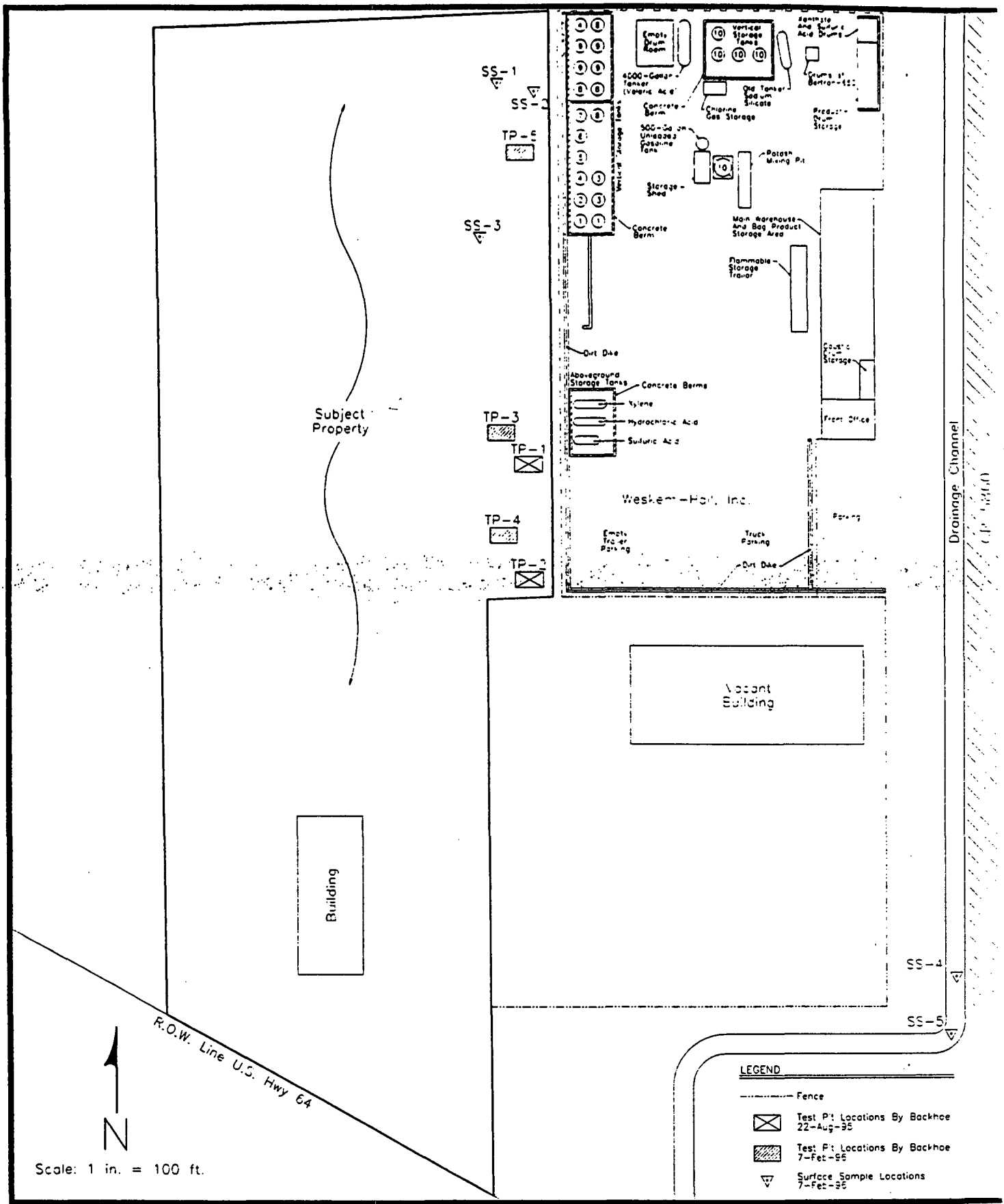
Checked by: JEC Date:

Site Plan with Adjacent Properties

Soil Assessment Report
C.E. McClelland – Weatherford Yard
5432 U.S. Hwy 64
Farmington, New Mexico

Project No. 951401

Figure No. 2



BASIN ENGINEERING, INC

Drawn by: LPH Date: 2-27-96

Checked by: JEC Date:

Site Plan

Site Assessment Report
C.E. McClelland - Westnerford Yard
5432 Hwy. 64
Farmington, New Mexico

Project No.
951401

Figure No.
3

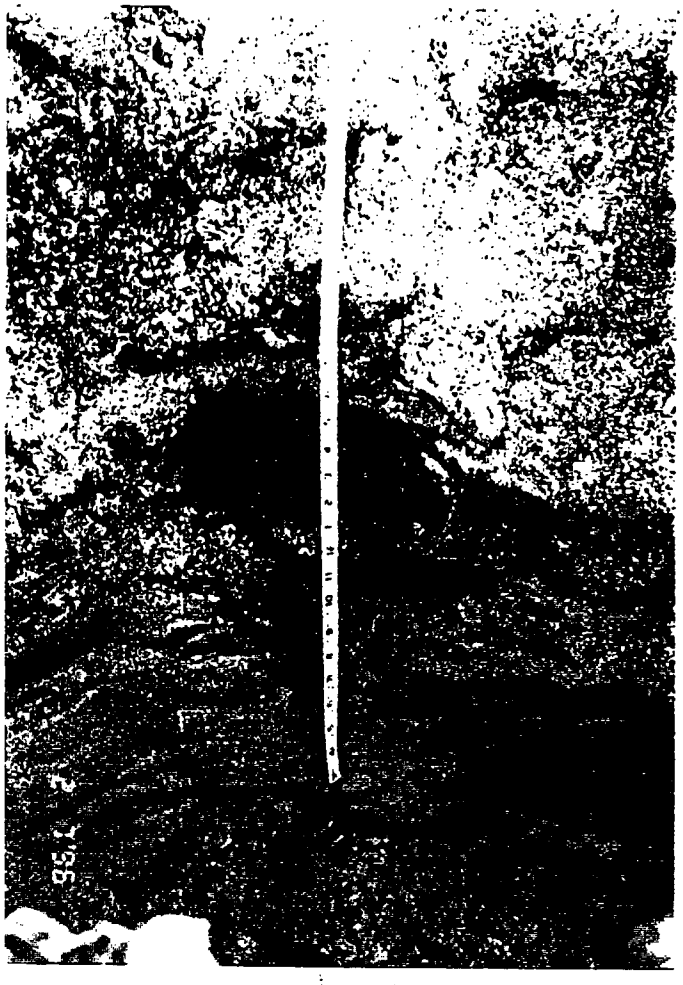
APPENDIX A

VIEW OF DRAINAGE SWALE EAST OF PROPERTY LOOKING NORTH

VIEW OF BASIN PERSONNEL SAMPLING IN DRAINAGE SWALE

VIEW OF TEST PIT EXCAVATION ACTIVITIES LOOKING SOUTH

VIEW OF SOIL PROFILE TEST PIT TP-3



CLOSE UP VIEW OF SOIL EXPOSED IN TEST PIT TP-3

APPENDIX B

TEST PIT LOG
TEST PIT NO. TP-1

BASIN ENGINEERING, INC

PROJECT: Weatherford Yard
CLIENT: CE McClelland
LOCATION: 5432 U.S. Hwy 64
EXCAVATION METHOD: Hand Auger
DEPTH TO WATER (FT): N/A

PROJECT NO.: 951401
DATE: 22-Aug-95
ELEVATION (FT): N/A
DATUM: Ground Surface
LOGGED BY: K. Turner

DEPTH (FT)	DESCRIPTION	SOIL TYPE	ODOR	SAMPLES	TPH GASOLINE	TPH DIESEL	DEPTH (FT)
0	Silty sand: with gravel and some cobbles, yellow staining present						0
2	Cobbles and gravel: with silty sand, yellow to black staining in soils and on cobbles to 6' BGS						2
4	Analytical sample taken at 5' BGS		None				4
6	...staining less apparent						6
8							8
10	Total depth of test pit = 10' BGS						10
12							12

NOTES:

TEST PIT LOG
TEST PIT NO. TP-2

BASIN ENGINEERING, INC

PROJECT: Weatherford Yard
CLIENT: CE McClelland
LOCATION: 5432 U.S. Hwy 64
EXCAVATION METHOD: Hand Auger
DEPTH TO WATER (FT): N/A

PROJECT NO.: 951401
DATE: 22-Aug-95
ELEVATION (FT): N/A
DATUM: Ground Surface
LOGGED BY: K. Turner

DEPTH (FT)	DESCRIPTION	SOIL TYPE	ODOR	SAMPLES	TPH GASOLINE	TPH DIESEL	DEPTH (FT)
0	Silty sand: with gravel, yellow staining in soils and on cobbles						0
2	Cobbles and gravel: with silty sand, yellow staining						2
4							4
6	...cobbles very stained yellow almost rusted black Analytical sample taken 7' BGS		None				6
8	Silty sand: with gravels, trace of cobbles, lense with sewage odor						8
10	Total depth of test pit = 10' BGS						10
12							12

NOTES:

TEST PIT LOG
TEST PIT NO. TP-3

BASIN ENGINEERING, INC

PROJECT: Weatherford Yard
CLIENT: CE McClelland
LOCATION: 5432 U.S. Hwy 64
EXCAVATION METHOD: John Deere 4100 Backhoe
DEPTH TO WATER (FT): N/A

PROJECT NO.: 951401
DATE: 7-Feb-96
ELEVATION (FT): N/A
DATUM: Ground Surface
LOGGED BY: J. Casey/T. Watson

DEPTH (FT)	DESCRIPTION	SOIL TYPE	ODOR	SAMPLES	TPH GASOLINE	TPH DIESEL	DEPTH (FT)
0	Cobbles and gravel: with silty sand						0
2	First impact noted at 2.0' and continued to 5.0'. Soils were stained in a stratified manner with black, orange, yellow & white layers.		None				2
4							4
6	Total Depth = 5.5'						6
8							8
10							10
12							12

NOTES: Sample taken from test pit wall.

TEST PIT LOG
TEST PIT NO. TP-4

BASIN ENGINEERING, INC

PROJECT: Weatherford Yard
CLIENT: CE McClelland
LOCATION: 5432 U.S. Hwy 64
EXCAVATION METHOD: John Deere 4100 Backhoe
DEPTH TO WATER (FT): N/A

PROJECT NO.: 951401
DATE: 7-Feb-96
ELEVATION (FT): N/A
DATUM: Ground Surface
LOGGED BY: J. Casey/T. Watson

DEPTH (FT)	DESCRIPTION	SOIL TYPE	ODOR	SAMPLES	TPH GASOLINE	TPH DIESEL	DEPTH (FT)
0	Cobbles and gravel: with silty sand						0
2							2
4							4
6	First impact noted at 6.5'. Soils were stained in a stratified manner with black, orange, yellow & white layers.						6
8	Sample was taken at 8.0'.		None				8
10	Total Depth = 10.0'						10
12							12

NOTES: Sample collected from bucket of backhoe.

TEST PIT LOG
TEST PIT NO. TP-5

BASIN ENGINEERING, INC

PROJECT: Weatherford Yard
CLIENT: CE McClelland
LOCATION: 5432 U.S. Hwy 64
EXCAVATION METHOD: John Deere 4100 Backhoe
DEPTH TO WATER (FT): N/A

PROJECT NO.: 951401
DATE: 7-Feb-96
ELEVATION (FT): N/A
DATUM: Ground Surface
LOGGED BY: J. Casey/T. Watson

DEPTH (FT)	DESCRIPTION	SOIL TYPE	ODOR	SAMPLES	TPH GASOLINE	TPH DIESEL	DEPTH (FT)
0	Poorly graded sand with gravel						0
	Impact lense was approximately 3"- 4" thick running horizontal in test pit. Slight odor noticed, concentrated on black stained soil.		Slight				
2	Total Depth = 2'						2
4							4
6							6
8							8
10							10
12							12

NOTES: Two samples were collected on the East wall of pit for split samples and third sample collected at south end.

SOIL BORING LOG

BORING NO.: SS-1

BASIN ENGINEERING, INC

PROJECT: Weatherford Yard
CLIENT: C.E. McClelland
LOCATION: 5432 U.S. Hwy 64
DRILLER: J. Casey/T. Watson
DRILLING METHOD: Hand Auger
DEPTH TO WATER (FT): N/A

PROJECT NO.: 951401
DATE: 7-Feb-96
ELEVATION (FT): N/A
DATUM: Ground Surface
LOGGED BY: J. Casey/T. Watson
WELL DIAMETER (IN): N/A

ELEVATION/ DEPTH (FT)	DESCRIPTION	SOIL TYPE	ODOR	OVM (ppm)	SAMPLERS	ELEVATION/ DEPTH (FT)	MONITOR WELL INSTALLATION DETAILS
0	Poorly Graded Sand: fine to medium grained, with gravel, no odor		None			0	
0.5						0.5	
1						1	
1.5	Total Depth = 18"					1.5	
2						2	
2.5						2.5	
3						3	

NOTES:

SOIL BORING LOG

BORING NO.: SS-2

BASIN ENGINEERING, INC

PROJECT: Weatherford Yard
CLIENT: C.E. McClelland
LOCATION: 5432 U.S. Hwy 64
DRILLER: J. Casey/T. Watson
DRILLING METHOD: Hand Auger
DEPTH TO WATER (FT): N/A

PROJECT NO.: 951401
DATE: 7-Feb-96
ELEVATION (FT): N/A
DATUM: Ground Surface
LOGGED BY: J. Casey/T. Watson
WELL DIAMETER (IN): N/A

ELEVATION/ DEPTH (FT)	DESCRIPTION	SOIL TYPE	ODOR	OVM (ppm)	SAMPLERS	ELEVATION/ DEPTH (FT)	MONITOR WELL INSTALLATION DETAILS
0	Poorly Graded Sand: fine to medium grained, with gravel, no odor					0	
0.5						0.5	
1	Total Depth = 12"		None			1	
1.5						1.5	
2						2	
2.5						2.5	
3						3	

NOTES:

SOIL BORING LOG
BORING NO.: SS-3

BASIN ENGINEERING, INC

PROJECT: Weatherford Yard
CLIENT: C.E. McClelland
LOCATION: 5432 U.S. Hwy 64
DRILLER: J. Casey/T. Watson
DRILLING METHOD: Hand Auger
DEPTH TO WATER (FT): N/A

PROJECT NO.: 951401
DATE: 7-Feb-96
ELEVATION (FT): N/A
DATUM: Ground Surface
LOGGED BY: J. Casey/T. Watson
WELL DIAMETER (IN): N/A

ELEVATION/ DEPTH (FT)	DESCRIPTION	SOIL TYPE	ODOR	OVM (ppm)	SAMPLERS	ELEVATION/ DEPTH (FT)	MONITOR WELL INSTALLATION DETAILS
0	Poorly Graded Sand: fine to medium grained, with gravel, no odor					0	
0.5						0.5	
			None				
1	Total Depth = 10"					1	
1.5						1.5	
2						2	
2.5						2.5	
3						3	

NOTES:

SOIL BORING LOG
BORING NO.: SS-4

BASIN ENGINEERING, INC

PROJECT: Weatherford Yard
CLIENT: C.E. McClelland
LOCATION: 5432 U.S. Hwy 64
DRILLER: J. Casey/T. Watson
DRILLING METHOD: Hand Auger
DEPTH TO WATER (FT): N/A

PROJECT NO.: 951401
DATE: 7-Feb-96
ELEVATION (FT): N/A
DATUM: Ground Surface
LOGGED BY: J. Casey/T. Watson
WELL DIAMETER (IN): N/A

ELEVATION/ DEPTH (FT)	DESCRIPTION	SOIL TYPE	ODOR	OVM (ppm)	SAMPLERS	ELEVATION/ DEPTH (FT)	MONITOR WELL INSTALLATION DETAILS
0	Silty Sand: fine to medium grained, strong hydrocarbon odor					0	
0.5			Strong			0.5	
	Total Depth = 8"						
1						1	
1.5						1.5	
2						2	
2.5						2.5	
3						3	

NOTES:

SOIL BORING LOG
BORING NO.: SS-5

BASIN ENGINEERING, INC

PROJECT: Weatherford Yard
CLIENT: C.E. McClelland
LOCATION: 5432 U.S. Hwy 64
DRILLER: J. Casey/T. Watson
DRILLING METHOD: Hand Auger
DEPTH TO WATER (FT): N/A

PROJECT NO.: 951401
DATE: 7-Feb-96
ELEVATION (FT): N/A
DATUM: Ground Surface
LOGGED BY: J. Casey/T. Watson
WELL DIAMETER (IN): N/A

ELEVATION/ DEPTH (FT)	DESCRIPTION	SOIL TYPE	ODOR	OVM (ppm)	SAMPLERS	ELEVATION/ DEPTH (FT)	MONITOR WELL INSTALLATION DETAILS
0	Silty Sand: fine to medium grained, strong hydrocarbon odor					0	
0.5			Strong			0.5	
	Total Depth = 8"						
1						1	
1.5						1.5	
2						2	
2.5						2.5	
3						3	

NOTES:

APPENDIX C

GULF STATES ANALYTICAL, INC.
6310 Rothway • Houston, Texas 77040
(713) 690-4444 • FAX (713) 690-5646

09/13/95

Mr. John Casey
Basin Engineering, Inc.
2550 La Plata Highway
Farmington, NM 87401

Reference:
Project: CE McClelland/Weatherford
Project No.: 9514-01
Date Received: 08/25/95
GSAI Group: 17563 Group Report Date: 09/13/95

Dear Mr. Casey:

Enclosed are the analytical results for your above referenced project. The following samples are included in the report.

TP-1 TP-2

All holding times were met for the tests performed on these samples.

Our A2LA accreditation requires that, should this report be reproduced, it must be reproduced in total.

Enclosed please find the Quality Control Summary. All quality control results for the QC batch that are applicable to this sample(s) are acceptable.

If the report is acceptable, please approve the enclosed invoice and forward it for payment.

Thank you for selecting Gulf States Analytical, Inc. to serve as your analytical laboratory on this project. If you have any questions concerning these results, please feel free to contact me at any time.

We look forward to working with you on future projects.

Sincerely yours,

Lisa Mayfield
Lisa Mayfield
Project Manager

GULF STATES ANALYTICAL, INC.
6310 Rothway • Houston, Texas 77040
(713) 690-4444 • FAX (713) 690-5646

ANALYSIS SUMMARY REPORT

Basin Engineering, Inc.
2550 La Plata Highway
Farmington, NM 87401

GSAI Group: 17563
Date Reported: 09/13/95
Date Received: 08/25/95

Attn: Mr. John Casey
Project: CE McClelland/Weatherford

Purchase Order:
Project No.: 9514-01

Test	Analysis	Results as Received	Units	Limit of Quantitation
Sample: 95053 - 08/22/95 - TP-1				
0394	pH of Water Extract, Solids	7.53	Std. Units	0.01
1241	Methanol, Solids	ND	mg/kg	2.5
2736A	GC FID Parameters, Nonroutine			
	Ethylene glycol	ND	mg/kg	0.5
	Diethylene glycol	ND	mg/kg	
	Triethylene glycol	ND	mg/kg	
0890	Library Search, Volatiles	SEE ATTACHED	ug/l	
1178A	Volatiles, TCL OLM01.8 List			
	Acetone	14	ug/kg	10
	Benzene	ND	ug/kg	5
	Bromodichloromethane	ND	ug/kg	5
	Bromoform	ND	ug/kg	5
	Bromomethane (Methyl bromide)	ND	ug/kg	10
	2-Butanone (MEK)	ND	ug/kg	50
	Carbon disulfide	ND	ug/kg	5
	Carbon tetrachloride	ND	ug/kg	5
	Chlorodibromomethane	ND	ug/kg	5
	Chlorobenzene	ND	ug/kg	5
	Chloroethane (Ethyl chloride)	ND	ug/kg	10
	Chloroform	ND	ug/kg	5
	Chloromethane (Methyl chloride)	ND	ug/kg	10
	1,1-Dichloroethane	ND	ug/kg	5
	1,2-Dichloroethane	ND	ug/kg	5
	1,1-Dichloroethene	ND	ug/kg	5
	1,2-Dichloroethene (total)	ND	ug/kg	5
	1,2-Dichloropropane	ND	ug/kg	5
	cis-1,3-Dichloropropene	ND	ug/kg	5
	trans-1,3-Dichloropropene	ND	ug/kg	5
	Ethylbenzene	ND	ug/kg	5
	2-Hexanone	ND	ug/kg	10
	Dichloromethane (Methylene chloride)	ND	ug/kg	5
	4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10
	Styrene	ND	ug/kg	5
	1,1,2,2-Tetrachloroethane	ND	ug/kg	5
	Tetrachloroethene	ND	ug/kg	5
	Toluene	ND	ug/kg	5

Basin Engineering, Inc. GSAI Group: 17563

Test	Analysis	Results as Received	Units	Limit of Quantitation
Sample:95053 - 08/22/95 - TP-1				
1178A	Volatiles, TCL OLM01.8 List			
	1,1,1-Trichloroethane	ND	ug/kg	5
	1,1,2-Trichloroethane	ND	ug/kg	5
	Trichloroethene	ND	ug/kg	5
	Vinyl chloride	ND	ug/kg	10
	Xylene (total)	ND	ug/kg	5
0893	Library Search, Semivolatiles	SEE ATTACHED		
1201E	Semivolatiles, TCL OLM01.8 List			
	Acenaphthene	ND	ug/kg	330
	Acenaphthylene	ND	ug/kg	330
	Anthracene	ND	ug/kg	330
	Benzo(a)anthracene	ND	ug/kg	330
	Benzo(b)fluoranthene	ND	ug/kg	330
	Benzo(k)fluoranthene	ND	ug/kg	330
	Benzo(ghi)perylene	ND	ug/kg	330
	Benzo(a)pyrene	ND	ug/kg	330
	bis(2-Chloroethoxy)methane	ND	ug/kg	330
	bis(2-Chloroethyl)ether	ND	ug/kg	330
	bis(2-Ethylhexyl)phthalate	ND	ug/kg	330
	4-Bromophenyl-phenylether	ND	ug/kg	330
	Butylbenzyl phthalate	ND	ug/kg	330
	Carbazole	ND	ug/kg	330
	4-Chloroaniline	ND	ug/kg	330
	4-Chloro-3-methylphenol	ND	ug/kg	330
	2-Chloronaphthalene	ND	ug/kg	330
	2-Chlorophenol	ND	ug/kg	330
	4-Chlorophenyl-phenylether	ND	ug/kg	330
	Chrysene	ND	ug/kg	330
	o-Cresol (2-Methylphenol)	ND	ug/kg	330
	p-Cresol (4-Methylphenol)	ND	ug/kg	330
	Di-n-butyl phthalate	ND	ug/kg	330
	Dibenzo(a,h)anthracene	ND	ug/kg	330
	Dibenzofuran	ND	ug/kg	330
	1,2-Dichlorobenzene	ND	ug/kg	330
	1,3-Dichlorobenzene	ND	ug/kg	330
	1,4-Dichlorobenzene	ND	ug/kg	330
	3,3'-Dichlorobenzidine	ND	ug/kg	660
	2,2'-oxybis(1-Chloropropane)	ND	ug/kg	330
	2,4-Dichlorophenol	ND	ug/kg	330
	Diethylphthalate	ND	ug/kg	330
	2,4-Dimethylphenol	ND	ug/kg	330
	Dimethylphthalate	ND	ug/kg	330
	4,6-Dinitro-o-cresol	ND	ug/kg	1,600

Basin Engineering, Inc. GSAI Group: 17563

Test	Analysis	Results as Received	Units	Limit of Quantitation
Sample:95053 - 08/22/95 - TP-1				
1201E	Semivolatiles, TCL OLM01.8 List			
	2,4-Dinitrophenol	ND	ug/kg	1,600
	2,4-Dinitrotoluene	ND	ug/kg	330
	2,6-Dinitrotoluene	ND	ug/kg	330
	Di-n-octyl phthalate	ND	ug/kg	330
	Fluoranthene	ND	ug/kg	330
	Fluorene	ND	ug/kg	330
	Hexachlorobenzene	ND	ug/kg	330
	Hexachlorocyclopentadiene	ND	ug/kg	330
	Hexachloroethane	ND	ug/kg	330
	Hexachloro-1,3-butadiene	ND	ug/kg	330
	Indeno(1,2,3-cd)pyrene	ND	ug/kg	330
	Isophorone	ND	ug/kg	330
	2-Methylnaphthalene	ND	ug/kg	330
	Naphthalene	ND	ug/kg	330
	2-Nitroaniline	ND	ug/kg	330
	3-Nitroaniline	ND	ug/kg	330
	4-Nitroaniline	ND	ug/kg	330
	Nitrobenzene	ND	ug/kg	330
	2-Nitrophenol	ND	ug/kg	330
	4-Nitrophenol	ND	ug/kg	1,600
	N-Nitrosodiphenylamine	ND	ug/kg	330
	N-Nitrosodi-n-propylamine	ND	ug/kg	330
	Pentachlorophenol	ND	ug/kg	1,600
	Phenanthrene	ND	ug/kg	330
	Phenol	ND	ug/kg	330
	Pyrene	ND	ug/kg	330
	1,2,4-Trichlorobenzene	ND	ug/kg	330
	2,4,5-Trichlorophenol	ND	ug/kg	330
	2,4,6-Trichlorophenol	ND	ug/kg	330
Sample:95054 - 08/22/95 - TP-2				
0394	pH of Water Extract, Solids	8.53	Std. Units	0.01
1241	Methanol, Solids	ND	mg/kg	2.5
2736A	GC FID Parameters, Nonroutine			
	Ethylene glycol	ND	mg/kg	0.5
	Diethylene glycol	ND	mg/kg	
	Triethylene glycol	ND	mg/kg	
0890	Library Search, Volatiles	SEE ATTACHED	ug/l	
1178A	Volatiles, TCL OLM01.8 List			
	Acetone	ND	ug/kg	10
	Benzene	ND	ug/kg	5
	Bromodichloromethane	ND	ug/kg	5

Basin Engineering, Inc. GSAI Group: 17563

Test	Analysis	Results as Received	Units	Limit of Quantitation
Sample:95054 - 08/22/95 - TP-2				
1178A	Volatiles, TCL OLM01.8 List			
	Bromoform	ND	ug/kg	5
	Bromomethane (Methyl bromide)	ND	ug/kg	10
	2-Butanone (MEK)	ND	ug/kg	50
	Carbon disulfide	ND	ug/kg	5
	Carbon tetrachloride	ND	ug/kg	5
	Chlorodibromomethane	ND	ug/kg	5
	Chlorobenzene	ND	ug/kg	5
	Chloroethane (Ethyl chloride)	ND	ug/kg	10
	Chloroform	ND	ug/kg	5
	Chloromethane (Methyl chloride)	ND	ug/kg	10
	1,1-Dichloroethane	ND	ug/kg	5
	1,2-Dichloroethane	ND	ug/kg	5
	1,1-Dichloroethene	ND	ug/kg	5
	1,2-Dichloroethene (total)	ND	ug/kg	5
	1,2-Dichloropropane	ND	ug/kg	5
	cis-1,3-Dichloropropene	ND	ug/kg	5
	trans-1,3-Dichloropropene	ND	ug/kg	5
	Ethylbenzene	ND	ug/kg	5
	2-Hexanone	ND	ug/kg	10
	Dichloromethane (Methylene chloride)	ND	ug/kg	5
	4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10
	Styrene	ND	ug/kg	5
	1,1,2,2-Tetrachloroethane	ND	ug/kg	5
	Tetrachloroethene	ND	ug/kg	5
	Toluene	ND	ug/kg	5
	1,1,1-Trichloroethane	ND	ug/kg	5
	1,1,2-Trichloroethane	ND	ug/kg	5
	Trichloroethene	ND	ug/kg	5
	Vinyl chloride	ND	ug/kg	10
	Xylene (total)	ND	ug/kg	5
0893	Library Search, Semivolatiles	SEE ATTACHED		
1201E	Semivolatiles, TCL OLM01.8 List			
	Acenaphthene	ND	ug/kg	330
	Acenaphthylene	ND	ug/kg	330
	Anthracene	ND	ug/kg	330
	Benzo(a)anthracene	ND	ug/kg	330
	Benzo(b)fluoranthene	ND	ug/kg	330
	Benzo(k)fluoranthene	ND	ug/kg	330
	Benzo(ghi)perylene	ND	ug/kg	330
	Benzo(a)pyrene	ND	ug/kg	330
	bis(2-Chloroethoxy)methane	ND	ug/kg	330
	bis(2-Chloroethyl)ether	ND	ug/kg	330

Basin Engineering, Inc.

GSAI Group: 17563

Test	Analysis	Results as Received	Units	Limit of Quantitation
Sample:95054 - 08/22/95 - TP-2				
1201E	Semivolatiles, TCL OLM01.8 List			
	bis(2-Ethylhexyl)phthalate	ND	ug/kg	330
	4-Bromophenyl-phenylether	ND	ug/kg	330
	Butylbenzyl phthalate	ND	ug/kg	330
	Carbazole	ND	ug/kg	330
	4-Chloroaniline	ND	ug/kg	330
	4-Chloro-3-methylphenol	ND	ug/kg	330
	2-Chloronaphthalene	ND	ug/kg	330
	2-Chlorophenol	ND	ug/kg	330
	4-Chlorophenyl-phenylether	ND	ug/kg	330
	Chrysene	ND	ug/kg	330
	o-Cresol (2-Methylphenol)	ND	ug/kg	330
	p-Cresol (4-Methylphenol)	ND	ug/kg	330
	Di-n-butyl phthalate	ND	ug/kg	330
	Dibenzo(a,h)anthracene	ND	ug/kg	330
	Dibenzofuran	ND	ug/kg	330
	1,2-Dichlorobenzene	ND	ug/kg	330
	1,3-Dichlorobenzene	ND	ug/kg	330
	1,4-Dichlorobenzene	ND	ug/kg	330
	3,3'-Dichlorobenzidine	ND	ug/kg	660
	2,2'-oxybis(1-Chloropropane)	ND	ug/kg	330
	2,4-Dichlorophenol	ND	ug/kg	330
	Diethylphthalate	ND	ug/kg	330
	2,4-Dimethylphenol	ND	ug/kg	330
	Dimethylphthalate	ND	ug/kg	330
	4,6-Dinitro-o-cresol	ND	ug/kg	1,600
	2,4-Dinitrophenol	ND	ug/kg	1,600
	2,4-Dinitrotoluene	ND	ug/kg	330
	2,6-Dinitrotoluene	ND	ug/kg	330
	Di-n-octyl phthalate	ND	ug/kg	330
	Fluoranthene	ND	ug/kg	330
	Fluorene	ND	ug/kg	330
	Hexachlorobenzene	ND	ug/kg	330
	Hexachlorocyclopentadiene	ND	ug/kg	330
	Hexachloroethane	ND	ug/kg	330
	Hexachloro-1,3-butadiene	ND	ug/kg	330
	Indeno(1,2,3-cd)pyrene	ND	ug/kg	330
	Isophorone	ND	ug/kg	330
	2-Methylnaphthalene	ND	ug/kg	330
	Naphthalene	ND	ug/kg	330
	2-Nitroaniline	ND	ug/kg	330
	3-Nitroaniline	ND	ug/kg	330
	4-Nitroaniline	ND	ug/kg	330

Basin Engineering, Inc. GSAI Group: 17563

Test	Analysis	Results as Received	Units	Limit of Quantitation
Sample:95054 - 08/22/95 - TP-2				
1201E	Semivolatiles, TCL OLM01.8 List			
	Nitrobenzene	ND	ug/kg	330
	2-Nitrophenol	ND	ug/kg	330
	4-Nitrophenol	ND	ug/kg	1,600
	N-Nitrosodiphenylamine	ND	ug/kg	330
	N-Nitrosodi-n-propylamine	ND	ug/kg	330
	Pentachlorophenol	ND	ug/kg	1,600
	Phenanthrene	ND	ug/kg	330
	Phenol	ND	ug/kg	330
	Pyrene	ND	ug/kg	330
	1,2,4-Trichlorobenzene	ND	ug/kg	330
	2,4,5-Trichlorophenol	ND	ug/kg	330
	2,4,6-Trichlorophenol	ND	ug/kg	330

Test Method Summary:

0394 - SW-846 9045
0890 - SW-846 8240
0893 - SW-846 8270
[illegible]78A- SW-846 8240
1201E- SW-846 8270
1241 - SW-846 8015 MOD
6A- SW-846 8000

ND - Compound was analyzed but not detected.

Respectfully Submitted,
Reviewed and Approved by:

Lisa Mayfield

Lisa Mayfield
Project Manager

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TP-1

Lab Name:	GULF STATES ANALYTICAL, INC.			Contract:	
Lab Code:	GSAI	Case No.:	SAS No.:	SDG No.:	17563
Matrix: (soil/water)	SOIL			Lab Sample ID:	95053
Sample wt/vol:	5	(g/mL) g		Lab File ID:	>C248O
Level: (low/med)	LOW			Date Received:	08/25/95
% Moisture: not dec.				Date Analyzed:	09/05/95
GC Column:	DB624	ID: 0.53	(mm)	Dilution Factor:	1.0
Soil Extract Volume:		(uL)		Soil Aliquot Volume:	(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg): ug/Kg

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Data File: /chem/MSD2522.i/sq254b.b/D254N.d
Report Date: 12-Sep-1995 15:48

Gulf States Analytical, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: TP-1
Operator : BRENT SUPER GRP.
Sample Location:
Sample Matrix: SOIL
Analysis Type: SV

Client SDG: sq254b
Client Smp ID: TP-1 95053
Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 7

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	638-04-0	Cyclohexane, 1,3-dimethyl-,	4.081	200	NJ
2.		Unknown Aldol Condensate	4.772	350	J
3.		Unknown Hydrocarbon	5.321	1000	J
4.		Unknown Hydrocarbon	5.566	3300	J
5.		Unknown Hydrocarbon	5.810	4300	J
6.	3073-66-3	Cyclohexane, 1,1,3-trimethy	5.993	260	NJ
7.		Unknown Aldol Condensate	6.461	30000	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TP-2

Lab Name:	GULF STATES ANALYTICAL, INC.			Contract:	
Lab Code:	GSAI	Case No.:	SAS No.:	SDG No.:	17563
Matrix: (soil/water)	SOIL			Lab Sample ID:	95054
Sample wt/vol:	5	(g/mL) g		Lab File ID:	>C248P
Level: (low/med)	LOW			Date Received:	08/25/95
% Moisture: not dec.				Date Analyzed:	09/05/95
GC Column:	DB624	ID: 0.53	(mm)	Dilution Factor:	1.0
Soil Extract Volume:		(uL)		Soil Aliquot Volume:	(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg): ug/Kg

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Data File: /chem/MSD2522.i/sq254b.b/D2540.d
Report Date: 12-Sep-1995 16:03

Gulf States Analytical, Inc.

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: TP-2
Operator : BRENT SUPER GRP.
Sample Location:
Sample Matrix: SOIL
Analysis Type: SV

Client SDG: sq254b
Client Smp ID: TP-2 95054
Sample Date:
Sample Point:
Date Received:
Level: LOW

Number TICs found: 11

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown Aldol Condensate	3.257	13	J
2.	638-04-0	Cyclohexane, 1,3-dimethyl-,	4.112	18	NJ
3.		Unknown Aldol Condensate	4.803	41	J
4.		Unknown Hydrocarbon	5.251	23	J
5.		Unknown Hydrocarbon	5.353	110	J
6.		Unknown Hydrocarbon	5.617	330	J
7.		Unknown Hydrocarbon	5.841	420	J
8.	3073-66-3	Cyclohexane, 1,1,3-trimethy	6.024	29	NJ
9.		Unknown Aldol Condensate	6.594	3000	J
10.	10544-50-0	Sulfur, mol. (S8)	24.736	75	NJ
11.		Unknown	32.002	19	J

Gulf States Analytical, Inc.
Daily QC Batching Data
Data Released for Reporting

09/13/95
11:16:57
Group: 17563

sis Batch Number: 0394 -08/26/95-1121-1
Test Identification : 0394 -pH of Water Extract, Solids Units: Std. Units Sequence:
Number of Samples : 6
Batch Data-Date/Time : 08/28/95 / 17:23:24

DUPLICATE

SAMPLE#	ANALYTE	RESULT 1	RESULT 2	RPD #	LIMIT	DILUTION
17567-95079	pH of water extract	7.5900	7.6000	0.1	3.0	1.00

CONTROL

SAMPLE#	ANALYTE	CONC FOUND	CONC KNOWN	% REC #	QC LIMITS LOWER	QC LIMITS UPPER
LCS-082695	pH of water extract	6.9800	7.0000	99.7	99.0	102.0
ICV-082695-2	pH of water extract	7.0000	7.0000	100.0	99.0	102.0

CCV #	ANALYTE	TRUE VALUE	BATCH READ	% REC #	QC LIMITS LOWER	QC LIMITS UPPER
CCV-082695	pH of water extract	7.0000	7.0000	100.0	90.0	110.0

Groups & Samples

17563-95053 17563-95054 17567-95076 17567-95077 17567-95078 17567-95079

Gulf States Analytical, Inc.
Daily QC Batching Data
Data Released for Reporting

09/13/95
11:17:00
Group: 1756

Analysis Batch Number: 1178 -09/05/95-1008-1
Test Identification : 1178 -Volatiles, TCL 2/88 List Units: ug/kg Sequence: C248Q
Number of Samples : 22
Batch Data-Date/Time : 09/07/95 / 10:01:53

BLANK#	ANALYTE	CONC FOUND #	LMT OF QUANTITATION
BLK-090595	Dichloromethane (Methylene chloride	1.7020	5.0000

SPIKE SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	CONC SPIKE	% REC #	QC LIMITS LOWER	QC LIMITS UPPER
17563-95053	1,1-Dichloroethene	50.0000	0.0000	43.2140	86.4	46.0	141.0
	Trichloroethene	50.0000	0.0000	38.4840	77.0	73.0	127.0
	Benzene	50.0000	0.0000	47.8640	95.7	78.0	133.0
	Toluene	50.0000	0.0000	45.3500	90.7	79.0	133.0
	Chlorobenzene	50.0000	0.0000	43.6260	87.3	82.0	124.0

MSD SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	RESULT 2	%REC2 #	QC LIMITS LOWER	QC LIMITS UPPER	RPD #	LIMI
17563-95053	1,1-Dichloroethene	50.0000	0.0000	42.8240	85.6	46.0	141.0	0.9	16.
	Trichloroethene	50.0000	0.0000	38.8980	77.8	73.0	127.0	1.0	9.
	Benzene	50.0000	0.0000	48.4240	96.8	78.0	133.0	1.1	11.
	Toluene	50.0000	0.0000	46.2320	92.5	79.0	133.0	2.0	13.
	Chlorobenzene	50.0000	0.0000	44.3500	88.7	82.0	124.0	1.6	10.

OL LE#	ANALYTE	CONC FOUND	CONC KNOWN	% REC #	QC LIMITS LOWER	QC LIMITS UPPER
LCS-090595	Acetone	59.1820	50.0000	118.4	10.0	253.0
	Benzene	54.8300	50.0000	109.7	81.0	125.0
	Bromodichloromethane	60.5830	50.0000	121.2	82.0	138.0
	Bromoform	54.4690	50.0000	108.9	71.0	140.0
	Bromomethane (Methyl bromide)	49.8500	50.0000	99.7	28.0	149.0
	2-Butanone (MEK)	56.7910	50.0000	113.6	20.0	205.0
	Carbon disulfide	22.7780	50.0000	45.6	17.0	172.0
	Carbon tetrachloride	53.7570	50.0000	107.5	72.0	137.0
	Chlorodibromomethane	60.0220	50.0000	120.0	78.0	140.0
	Chlorobenzene	55.5660	50.0000	111.1	81.0	123.0
	Chloroethane (Ethyl chloride)	55.6430	50.0000	111.3	25.0	144.0
	Chloroform	54.0690	50.0000	108.1	78.0	124.0
	Chloromethane (Methyl chloride)	53.4750	50.0000	107.0	23.0	133.0
	1,1-Dichloroethane	53.7830	50.0000	107.6	76.0	128.0
	1,2-Dichloroethane	54.7890	50.0000	109.6	79.0	128.0
	1,1-Dichloroethene	53.1810	50.0000	106.4	62.0	124.0
	cis-1,2-Dichloroethene	59.6680	50.0000	119.3	76.0	142.0
	trans-1,2-Dichloroethene	56.9000	50.0000	113.8	71.0	129.0
	1,2-Dichloropropane	59.9140	50.0000	119.8	78.0	131.0
	cis-1,3-Dichloropropene	55.1400	50.0000	110.3	76.0	131.0
	trans-1,3-Dichloropropene	55.4220	50.0000	110.8	75.0	139.0
	Ethylbenzene	53.1850	50.0000	106.4	84.0	125.0
	2-Hexanone	58.6870	50.0000	117.4	38.0	215.0
	Dichloromethane (Methylene chloride	53.3640	50.0000	106.7	55.0	156.0
	4-Methyl-2-pentanone (MIBK)	57.3090	50.0000	114.6	54.0	157.0
	Styrene	56.1240	50.0000	112.2	83.0	125.0
	1,1,2,2-Tetrachloroethane	54.6100	50.0000	109.2	65.0	143.0
	Tetrachloroethene	53.4070	50.0000	106.8	82.0	128.0
	Toluene	54.8170	50.0000	109.6	86.0	124.0
	1,1,1-Trichloroethane	54.6470	50.0000	109.3	81.0	130.0

Gulf States Analytical, Inc.
Daily QC Batching Data
Data Released for Reporting

Analysis Batch Number: 1178 -09/05/95-1008-1
Test Identification : 1178 -Volatiles, TCL 2/88 List Units: ug/kg Sequence: C248Q
Number of Samples : 22
Batch Data-Date/Time : 09/07/95 / 10:01:53

CONTROL SAMPLE#	ANALYTE	CONC FOUND	CONC KNOWN	% REC #	QC LIMITS LOWER	QC LIMITS UPPER
LCS-090595	1,1,2-Trichloroethane	54.9860	50.0000	110.0	76.0	137.0
	Trichloroethene	54.8190	50.0000	109.6	59.0	156.0
	Vinyl chloride	58.4860	50.0000	117.0	26.0	152.0
	o-Xylene	54.7680	50.0000	109.5	83.0	127.0
	m,p-Xylene	116.8900	100.0000	116.9	84.0	123.0

SURG #:30-1178 -S-SG

SAMPLE#	TOL #	BFB #	DCE #
SAMPLE 17572-95099	95	89	89
SAMPLE 17572-95101	97	92	92
SAMPLE 17572-95102	98	93	97
SAMPLE 17572-95103	100	96	104
SAMPLE 17572-95105	99	94	104
SAMPLE 17572-95106	99	94	107
SAMPLE 17572-95110	98	94	108
SAMPLE 17572-95111	98	94	109
SAMPLE 17572-95113	100	93	108
E 17572-95116	99	94	108
SAMPLE 17579-95155	98	94	104
SAMPLE 17579-95158	99	92	106
SAMPLE 17579-95159	97	93	106
SAMPLE 17579-95160	97	94	107
SAMPLE 17579-95161	98	92	110
SAMPLE 17579-95162	105	80	102
SAMPLE 17579-95145	98	92	102
SAMPLE 17579-95157	98	94	105
SAMPLE 17646-95491	128(B1)	58(B1)	108
SAMPLE 17646-95491	118(A)	75	105
SAMPLE 17563-95053	97	92	107
SAMPLE 17563-95054	98	94	107
BLK 1 BLK-090595	94	90	88
SPK 1 17563-95053	98	95	111
CTL 1 LCS-090595	105	102	108
MSD 1 17563-95053	98	95	111

30-1178 -S-SG - VOA SURROGATES, SOIL SRG ABRV =	SURROGATE DESCRIPTION	QC LIMITS LOWER	QC LIMITS UPPER
TOL	Toluene-d8	81.0	117.0
BFB	p-Bromofluorobenzene	74.0	121.0
DCE	1,2-Dichloroethane-d4	70.0	121.0

---------- Result Footnotes ----------
(*) - Sample(s) rerun to confirm matrix interference.
Matrix Interference

Gulf States Analytical, Inc.
Daily QC Batching Data
Data Released for Reporting

Analysis Batch Number: 1178 -09/05/95-1008-1
Test Identification : 1178 -Volatiles, TCL 2/88 List Units: ug/kg Sequence: C2480
Number of Samples : 22
Batch Data-Date/Time : 09/07/95 / 10:01:53

Groups & Samples

17563-95053	17563-95054	17572-95099	17572-95101	17572-95102	17572-95103	17572-95105	17572-95106
17572-95110	17572-95111	17572-95113	17572-95116	17579-95145	17579-95155	17579-95157	17579-95158
17579-95159	17579-95160	17579-95161	17579-95162	17646-95491			

Gulf States Analytical, Inc.
Daily QC Batching Data
Data Released for Reporting

09/19/95
15:12:48
Group: 1756

Analysis Batch Number: 1201 -09/11/95-1005-1
Test Identification : 1201 -Semivolatiles, TCL, Solids Units: ug/kg Sequence: D254
Number of Samples : 9
Batch Data-Date/Time : 09/19/95 / 13:40:15

BLANK#	ANALYTE	CONC FOUND #	LMT OF QUANTITATION
SBLKS-09/01	none detected		

SPIKE

SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	CONC SPIKE	% REC #	QC LIMITS LOWER	QC LIMITS UPPER
17599-95275	Phenol	3333.0000	0.0000	3093.7000	92.8	29.0	121.0
	2-Chlorophenol	3333.0000	0.0000	3165.3000	95.0	28.0	117.0
	1,4-Dichlorobenzene	1667.0000	0.0000	1449.5000	87.0	32.0	115.0
	N-Nitrosodi-n-propylamine	1667.0000	0.0000	1995.1666	119.7	22.0	156.0
	1,2,4-Trichlorobenzene	1667.0000	0.0000	1450.5000	87.0	34.0	146.0
	4-Chloro-3-methylphenol	3333.0000	0.0000	3190.7666	95.7	36.0	149.0
	Acenaphthene	1667.0000	0.0000	1692.3000	101.5	18.0	170.0
	4-Nitrophenol	3333.0000	0.0000	3535.0000	106.1	10.0	173.0
	2,4-Dinitrotoluene	1667.0000	0.0000	1647.9666	98.9	10.0	143.0
	Pentachlorophenol	3333.0000	0.0000	3117.9333	93.5	10.0	154.0
	Pyrene	1667.0000	0.0000	1999.8000	120.0	12.0	189.0

MSD

SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	RESULT 2	%REC2 #	QC LIMITS LOWER	QC LIMITS UPPER	RPD #	LIMI
17 -95275	Phenol	3333.0000	0.0000	2493.9666	74.8	29.0	121.0	21.5	27.0
	2-Chlorophenol	3333.0000	0.0000	2945.6000	88.4	28.0	117.0	7.2	27.0
	1,4-Dichlorobenzene	1667.0000	0.0000	1437.4000	86.2	32.0	115.0	0.9	34.0
	N-Nitrosodi-n-propylamine	1667.0000	0.0000	1958.2333	117.5	22.0	156.0	1.9	38.0
	1,2,4-Trichlorobenzene	1667.0000	0.0000	1505.5000	90.3	34.0	146.0	3.7	25.0
	4-Chloro-3-methylphenol	3333.0000	0.0000	3238.1000	97.2	36.0	149.0	1.6	29.0
	Acenaphthene	1667.0000	0.0000	1618.6333	97.1	18.0	170.0	4.4	38.0
	4-Nitrophenol	3333.0000	0.0000	3093.2666	92.8	10.0	173.0	13.4	59.0
	2,4-Dinitrotoluene	1667.0000	0.0000	1525.2333	91.5	10.0	143.0	7.8	45.0
	Pentachlorophenol	3333.0000	0.0000	3046.3000	91.4	10.0	154.0	2.3	59.0
	Pyrene	1667.0000	0.0000	1911.9333	114.7	12.0	189.0	4.5	44.0

CONTROL

SAMPLE#	ANALYTE	CONC FOUND	CONC KNOWN	% REC #	QC LIMITS LOWER	QC LIMITS UPPER
LCS-09/01	Phenol	0.0000	3333.0000	0.0(C)	44.0	106.0
	bis(2-Chloroethyl)ether	0.0000	3333.0000	0.0(C)	42.0	114.0
	2-Chlorophenol	0.0000	3333.0000	0.0(C)	52.0	101.0
	1,3-Dichlorobenzene	0.0000	3333.0000	0.0(C)	45.0	105.0
	1,4-Dichlorobenzene	0.0000	3333.0000	0.0(C)	42.0	103.0
	1,2-Dichlorobenzene	0.0000	3333.0000	0.0(C)	47.0	106.0
	Benzyl alcohol	0.0000	3333.0000	0.0(C)	54.0	104.0
	o-Cresol (2-Methylphenol)	0.0000	3333.0000	0.0(C)	50.0	104.0
	2,2'-oxybis(1-Chloropropane)	0.0000	3333.0000	0.0(C)	16.0	125.0
	p-Cresol (4-Methylphenol)	0.0000	3333.0000	0.0(C)	52.0	107.0
	N-Nitrosodi-n-propylamine	0.0000	3333.0000	0.0(C)	49.0	112.0
	Hexachloroethane	0.0000	3333.0000	0.0(C)	40.0	113.0
	Nitrobenzene	0.0000	3333.0000	0.0(C)	51.0	108.0
	Isophorone	0.0000	3333.0000	0.0(C)	47.0	103.0
	2-Nitrophenol	0.0000	3333.0000	0.0(C)	53.0	107.0
	Benzoic acid	0.0000	3333.0000	0.0(C)	10.0	169.0
	2,4-Dimethylphenol	0.0000	3333.0000	0.0(C)	48.0	116.0
	bis(2-Chloroethoxy)methane	0.0000	3333.0000	0.0(C)	50.0	113.0

Gulf States Analytical, Inc.
Daily QC Batching Data
Data Released for Reporting

Analysis Batch Number: 1201 -09/11/95-1005-1
Test Identification : 1201 -Semivolatiles, TCL, Solids Units: ug/kg Sequence: D254
Number of Samples : 9
Batch Data-Date/Time : 09/19/95 / 13:40:15

CONTROL SAMPLE#	ANALYTE	CONC FOUND	CONC KNOWN	% REC #	QC LIMITS LOWER	QC LIMITS UPPER
LCS-09/01	2,4-Dichlorophenol	0.0000	3333.0000	0.0(C)	42.0	113.0
	1,2,4-Trichlorobenzene	0.0000	3333.0000	0.0(C)	48.0	108.0
	Naphthalene	0.0000	3333.0000	0.0(C)	45.0	109.0
	4-Chloroaniline	0.0000	3333.0000	0.0(C)	10.0	101.0
	Hexachloro-1,3-butadiene	0.0000	3333.0000	0.0(C)	41.0	113.0
	4-Chloro-3-methylphenol	0.0000	3333.0000	0.0(C)	57.0	119.0
	2-Methylnaphthalene	0.0000	3333.0000	0.0(C)	48.0	115.0
	Hexachlorocyclopentadiene	0.0000	3333.0000	0.0(C)	10.0	110.0
	2,4,6-Trichlorophenol	0.0000	3333.0000	0.0(C)	53.0	113.0
	2,4,5-Trichlorophenol	0.0000	3333.0000	0.0(C)	57.0	115.0
	2-Chloronaphthalene	0.0000	3333.0000	0.0(C)	46.0	111.0
	2-Nitroaniline	0.0000	3333.0000	0.0(C)	59.0	115.0
	Dimethylphthalate	0.0000	3333.0000	0.0(C)	60.0	118.0
	Acenaphthylene	0.0000	3333.0000	0.0(C)	34.0	114.0
	2,6-Dinitrotoluene	0.0000	3333.0000	0.0(C)	56.0	122.0
	3-Nitroaniline	0.0000	3333.0000	0.0(C)	18.0	126.0
	Acenaphthene	0.0000	3333.0000	0.0(C)	46.0	114.0
	2,4-Dinitrophenol	0.0000	3333.0000	0.0(C)	10.0	149.0
	4-Nitrophenol	0.0000	3333.0000	0.0(C)	46.0	148.0
	Dibenzofuran	0.0000	3333.0000	0.0(C)	51.0	116.0
	2,4-Dinitrotoluene	0.0000	3333.0000	0.0(C)	53.0	132.0
	Diethylphthalate	0.0000	3333.0000	0.0(C)	57.0	123.0
	4-Chlorophenyl-phenylether	0.0000	3333.0000	0.0(C)	49.0	119.0
	Fluorene	0.0000	3333.0000	0.0(C)	55.0	117.0
	4-Nitroaniline	0.0000	3333.0000	0.0(C)	26.0	168.0
	4,6-Dinitro-o-cresol	0.0000	3333.0000	0.0(C)	10.0	142.0
	N-Nitrosodiphenylamine	0.0000	3333.0000	0.0(C)	28.0	107.0
	4-Bromophenyl-phenylether	0.0000	3333.0000	0.0(C)	52.0	118.0
	Hexachlorobenzene	0.0000	3333.0000	0.0(C)	54.0	123.0
	Pentachlorophenol	0.0000	3333.0000	0.0(C)	15.0	150.0
	Phenanthrene	0.0000	3333.0000	0.0(C)	58.0	119.0
	Anthracene	0.0000	3333.0000	0.0(C)	51.0	120.0
	Carbazole	0.0000	3333.0000	0.0(C)	10.0	202.0
	Di-n-butyl phthalate	0.0000	3333.0000	0.0(C)	52.0	125.0
	Fluoranthene	0.0000	3333.0000	0.0(C)	57.0	127.0
	Pyrene	0.0000	3333.0000	0.0(C)	48.0	129.0
	Butylbenzyl phthalate	0.0000	3333.0000	0.0(C)	54.0	128.0
	3,3'-Dichlorobenzidine	0.0000	3333.0000	0.0(C)	10.0	231.0
	Benzo(a)anthracene	0.0000	3333.0000	0.0(C)	65.0	120.0
	bis(2-Ethylhexyl)phthalate	0.0000	3333.0000	0.0(C)	54.0	125.0
	Chrysene	0.0000	3333.0000	0.0(C)	62.0	123.0
	Di-n-octyl phthalate	0.0000	3333.0000	0.0(C)	35.0	147.0
	Benzo(b)fluoranthene	0.0000	3333.0000	0.0(C)	57.0	131.0
	Benzo(k)fluoranthene	0.0000	3333.0000	0.0(C)	27.0	130.0
	Benzo(a)pyrene	0.0000	3333.0000	0.0(C)	61.0	114.0
	Indeno(1,2,3-cd)pyrene	0.0000	3333.0000	0.0(C)	46.0	139.0
	Dibenzo(a,h)anthracene	0.0000	3333.0000	0.0(C)	53.0	138.0
	Benzo(ghi)perylene	0.0000	3333.0000	0.0(C)	30.0	150.0

Gulf States Analytical, Inc.
Daily QC Batching Data
Data Released for Reporting

Analysis Batch Number: 1201 -09/11/95-1005-1
Test Identification : 1201 -Semivolatiles, TCL, Solids Units: ug/kg Sequence: D254
Number of Samples : 9
Batch Data-Date/Time : 09/19/95 / 13:40:15

SURG #:35-1201 -S-S

SAMPLE#	NBZ #	FBP #	TPH #	PHL #	2FP #	TBP #
SAMPLE 17599-95275	93	95	121	111	95	70
SAMPLE 17599-95273	75	75	115	82	70	81
SAMPLE 17599-95274	100	91	129	92	77	87
SAMPLE 17563-95053	82	84	128	86	76	82
SAMPLE 17563-95054	101	103	128	93	84	81
SAMPLE 17646-95491	101	113	237(A)	115(A)	95	92
SAMPLE 17597-95268	0(D)	0(D)	0(D)	0(D)	0(D)	0(D)
SAMPLE 17597-95269	0(D)	164(D)	230(D)	27	123(D)	0(D)
SAMPLE 17597-95270	0(D)	0(D)	0(D)	0(D)	0(D)	0(D)
BLK 1 SBLKS-09/01	96	93	118	92	76	96
SPK 1 17599-95275	95	89	125	98	87	109
CTL 1 LCS-09/01	97	97	129	95	82	86
MSD 1 17599-95275	95	88	121	86	79	95

35-1201 -S-S - SEMIVOLATILE SURROGATES, SOLIDS		QC LIMITS	
SRG ABRV =	SURROGATE DESCRIPTION	LOWER	UPPER
NBZ	Nitrobenzene-d5	23.0	120.0
FBP	2-Fluorobiphenyl	30.0	115.0
TPH	Terphenyl-d14	18.0	137.0
PHL	Phenol-d6	24.0	113.0
2FP	2-Fluorophenol	25.0	121.0
TBP	2,4,6-Tribromophenol	19.0	122.0

---------- Result Footnotes ----------
(C) - Analyst Error
(A) - Matrix Interference
(D) - Surrogate is diluted out

Groups & Samples

17563-95053 17563-95054 17597-95268 17597-95269 17597-95270 17599-95273 17599-95274 17599-95275
17646-95491

Gulf States Analytical, Inc.
Daily QC Batching Data
Data Released for Reporting

09/13/95
11:17:07
Group: 17563

Analysis Batch Number: 1241 -09/05/95-1076-1
Test Identification : 1241 -Methanol, Solids Units: mg/kg Sequence: ALC1867
Number of Samples : 3
Batch Data-Date/Time : 09/08/95 / 13:00:25

BLANK#	ANALYTE	CONC FOUND	#	LMT OF QUANTITATION
MB-090695	Methanol	0.8420		2.5000

SPIKE

SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	CONC SPIKE	% REC	#	QC LIMITS LOWER	QC LIMITS UPPER
17563-95053	Methanol	250.0000	0.5700	224.9500	89.8		75.0	125.0

MSD

SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	RESULT 2	%REC2	#	QC LIMITS LOWER	QC LIMITS UPPER	RPD	#	LIMI
17563-95053	Methanol	250.0000	0.5700	246.9900	98.6		75.0	125.0	9.3		20.

Groups & Samples

17563-95053 17563-95054 17597-95269

Gulf States Analytical, Inc.
Daily QC Batching Data
Data Released for Reporting

09/19/95
16:16:19

/ :is Batch Number: 2736 -09/06/95-1094-1
Te.. Identification : 2736 -GC FID Parameters, Nonroutine Units: mg/l Sequence: TRI0869Q
Number of Samples : 3
Batch Data-Date/Time : 09/19/95 / 15:36:07

BLANK#	ANALYTE	CONC FOUND #	LMT OF QUANTITATION
MB-090695	Ethylene glycol	ND	0.5000
	Diethylene glycol	ND	0.5000
	Propylene glycol	ND	0.5000
	Triethylene glycol	ND	0.5000

SPIKE

SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	CONC SPIKE	% REC #	QC LIMITS LOWER	QC LIMITS UPPER
17563-95053	Ethylene glycol	25.0000	0.0000	25.1800	100.7	50.0	150.0

MSD

SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	RESULT 2	%REC2 #	QC LIMITS LOWER	QC LIMITS UPPER	RPD #	LIMI
17563-95053	Ethylene glycol	25.0000	0.0000	27.6330	110.5	50.0	150.0	9.3	20.

CCV #	ANALYTE	TRUE VALUE	BATCH READ	% REC #	QC LIMITS LOWER	QC LIMITS UPPER
1	Ethylene glycol	25.0000	23.3780	93.5	85.0	115.0
	Diethylene glycol	25.0000	20.5000	82.0(K1)	85.0	115.0
	Propylene glycol	25.0000	24.2100	96.8	85.0	115.0
	Triethylene glycol	25.0000	14.1150	56.5(K1)	85.0	115.0

---------- Result Footnotes ----------
(K1) - See comment for explanation

---------- Batch Notes ----------
Diethylene glycol and triethylene glycol are later eluting compounds which exhibit low recoveries for the continuing calibration standard. Since no samples contained these analytes, this data was released for reporting.

Groups & Samples

17563-95053 17563-95054 17612-95303

11563

GULF STATES ANALYTICAL, INC.

6310 Rothway • Houston, TX 77040
(713) 690-4444 • FAX (713) 690-5646

Company: ❶ BASIN ENGINEERING INC.

Address: PO 389 FARMINGTON NM 87499

Tele #: 505-325-0261

Fax #: 505 325-9128

Reports Sent To: ABOVE

P O #:

Project #: 9514-01

Project Name: C.E. McCLELLAND

Project Location: WEATHERFORD YARD

Sampler(s) Name: (Signature) Kenny Cuno

Courier: FED EX

Relinquished by Sampler: (Signature) ❼ Kenny Cuno — Date: 8-22-95 — Time: 12:00

Relinquished by: (Signature) — Date: — Time:

Received by: (Signature) — Date: — Time:

Relinquished by: (Signature) — Date: — Time:

Received by Laboratory: (Signature) Nelda Moore — Date: 8/24/95 — Time: 09:08

❷ Field Sample ID	❸ Sampling Date	❸ Sampling Time	❹ Matrix: Water	Soil	Sludge	Oil	Other	# of Containers	Haz. Sample (Y/N)
1. TP-1	8-22-95	9:00		X				3	
2. TP-2	8-22-95	9:20		X				3	
3.									
4.									
5.									
6.									
7.									
8.									
9.									
10.									
11.									
12.									
13.									

❺ Request for Analysis

EPA 8240 w/ LIBRARY SEARCH	EPA MODIFIED 8000	EPA 8015 TPH	EPA 8270 w/ LIBRARY SEARCH	EPA 8270 w/ LIBRARY SEARCH
X	X	X	X	X
X	X	X	X	X

❻ Remarks:

Requested Turnaround: NORMAL

GSAI Group:

Special Detection Limits

QC Package: (check one)
☐ CLP ☐ Site Specific
☐ Tier 1 ☐ Tier 2 ☐ QC Summary

SOUTHERN LITHOGRAPH, INC. - (713) 780-0400

White Copy to Accompany Samples to Lab — Yellow Copy Retained by Client

GULF STATES ANALYTICAL, INC.
SAMPLE RECEIPT CHECKLIST

CLIENT: Basin Engineering Inc. CONTACT: John Casey

PROJECT: C.E McClelland CARRIER: FedEx

DATE RECEIVED: 1995 AUG 25 AM 9:08 UNPACKED STAMP: 1995 AUG 25 AM 11:11

DATE SHIPPED: 8/24/95 UNPACKED BY: CH

NUMBER OF KITS RECEIVED: 1 GROUP# 17563 B.O.# 6359

KIT CHECKLIST

KIT ID	COC PRESENT	CUSTODY TAPE		COOLER TEMP	# OF SAMPLE CONTAINERS
		PRESENT?	INTACT?		
956	Yes	C Yes	Yes	20°c	6
		B No	No		
		C			
		B			
		C			
		B			

C = COOLER B= BOTTLES

INCONSISTENCIES

SAMPLE	PARAMETER	INCONSISTENCY
All	All	Small blue ice melted

PRESERVATIVES CHECKED YES_____ NO_____ SEE ABOVE NOTES_____

ACTION TAKEN

PERSON CONTACTED:_____ DATE:_____

RESOLUTION_____

GSAI EMPLOYEE_____ DATE:_____

☐ HNO3 ☐ HCL ☐ H2SO4 ☐ NAOH ☐ Na2S2O3 ☐ NEAT ☐ OT/PRE.

__VOA
__WET CHEM

__VOA
__OTHER

Remaning Samples in Group _____

Project Manager LRM

# Cont.	Mtrx.
6	So
-	
Total 6	So

APPENDIX D

CORE LAB

GULF STATES ANALYTICAL

04/12/96

Mr. John Casey
Basin Engineering, Inc.
2550 La Plata Highway
Farmington, NM 87401

Reference:
Project: CE McClelland/Weatherford Yard
Project No.: 9514-01
Date Received: 02/08/96
GSA Group: 19574 Group Report Date: 02/22/96

Dear Mr. Casey:

Enclosed are the analytical results for your above referenced project. The following samples are included in the report.

TP-3/2.5'	TP-4/8.0'	SS-1/4''
SS-2/6''	TP-5/1'	TP-5/2'
SS-3/1'	SS-4/6''	SS-5/6''
Trip Blank		

All holding times were met for the tests performed on these samples.

Our A2LA accreditation requires that, should this report be reproduced, it must be reproduced in total.

Enclosed please find the Quality Control Summary. All quality control results for the QC batch that are applicable to this sample(s) are acceptable.

If the report is acceptable, please approve the enclosed invoice and forward it for payment.

Thank you for selecting Gulf States Analytical, Inc. to serve as your analytical laboratory on this project. If you have any questions concerning these results, please feel free to contact me at any time.

We look forward to working with you on future projects.

Sincerely yours,

Lisa R. Mayfield

Lisa R. Mayfield
Project Manager

ANALYTICAL REPORT

CORELAB

GULF STATES ANALYTICAL

ANALYSIS SUMMARY REPORT

Basin Engineering, Inc.
2550 La Plata Highway
Farmington, NM 87401

GSA Group: 19574
Date Reported: 02/22/96
Date Received: 02/08/96

Attn: Mr. John Casey
Project: CE McClelland/Weatherford Yard

Purchase Order:
Project No.: 9514-01

Test	Analysis	Results as Received	Units	Limit of Quantitation
Sample:106501 - 02/07/96 - TP-3/2.5'				
0394	pH of Water Extract, Solids	7.45	Std. Units	0.01
1241	Methanol, Solids	ND	mg/kg	2.5
2736A	GC FID Parameters, Nonroutine			
	Ethylene glycol	ND	mg/kg	0.5
	Diethylene glycol	ND	mg/kg	
	Triethylene glycol	ND	mg/kg	
0890	Library Search, Volatiles	SEE ATTACHED	ug/l	
1178A	Volatiles, TCL OLM01.8 List			
	Acetone	ND	ug/kg	10
	Benzene	ND	ug/kg	5
	Bromodichloromethane	ND	ug/kg	5
	Bromoform	ND	ug/kg	5
	Bromomethane (Methyl bromide)	ND	ug/kg	10
	2-Butanone (MEK)	ND	ug/kg	50
	Carbon disulfide	ND	ug/kg	5
	Carbon tetrachloride	ND	ug/kg	5
	Chlorodibromomethane	ND	ug/kg	5
	Chlorobenzene	ND	ug/kg	5
	Chloroethane (Ethyl chloride)	ND	ug/kg	10
	Chloroform	ND	ug/kg	5
	Chloromethane (Methyl chloride)	ND	ug/kg	10
	1,1-Dichloroethane	ND	ug/kg	5
	1,2-Dichloroethane	ND	ug/kg	5
	1,1-Dichloroethene	ND	ug/kg	5
	1,2-Dichloroethene (total)	ND	ug/kg	5
	1,2-Dichloropropane	ND	ug/kg	5
	cis-1,3-Dichloropropene	ND	ug/kg	5
	trans-1,3-Dichloropropene	ND	ug/kg	5
	Ethylbenzene	ND	ug/kg	5
	2-Hexanone	ND	ug/kg	10
	Dichloromethane	ND	ug/kg	5
	4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10
	Styrene	ND	ug/kg	5
	1,1,2,2-Tetrachloroethane	ND	ug/kg	5
	Tetrachloroethene	ND	ug/kg	5
	Toluene	ND	ug/kg	5

CCCCC

Basin Engineering, Inc.

GSA Group: 19574

Test	Analysis	Results as Received	Units	Limit of Quantitation
Sample:106501 - 02/07/96 - TP-3/2.5'				
1178A	Volatiles, TCL OLM01.8 List			
	1,1,1-Trichloroethane	ND	ug/kg	5
	1,1,2-Trichloroethane	ND	ug/kg	5
	Trichloroethene	ND	ug/kg	5
	Vinyl chloride	ND	ug/kg	10
	Xylene (total)	ND	ug/kg	5
0893	Library Search, Semivolatiles	SEE ATTACHED		
1201E	Semivolatiles, TCL OLM01.8 List			
	Acenaphthene	ND	ug/kg	330
	Acenaphthylene	ND	ug/kg	330
	Anthracene	ND	ug/kg	330
	Benzo(a)anthracene	ND	ug/kg	330
	Benzo(b)fluoranthene	ND	ug/kg	330
	Benzo(k)fluoranthene	ND	ug/kg	330
	Benzo(ghi)perylene	ND	ug/kg	330
	Benzo(a)pyrene	ND	ug/kg	330
	bis(2-Chloroethoxy)methane	ND	ug/kg	330
	bis(2-Chloroethyl)ether	ND	ug/kg	330
	bis(2-Ethylhexyl)phthalate	ND	ug/kg	330
	4-Bromophenyl-phenylether	ND	ug/kg	330
	Butylbenzyl phthalate	ND	ug/kg	330
	Carbazole	ND	ug/kg	330
	4-Chloroaniline	ND	ug/kg	330
	4-Chloro-3-methylphenol	ND	ug/kg	330
	2-Chloronaphthalene	ND	ug/kg	330
	2-Chlorophenol	ND	ug/kg	330
	4-Chlorophenyl-phenylether	ND	ug/kg	330
	Chrysene	ND	ug/kg	330
	o-Cresol (2-Methylphenol)	ND	ug/kg	330
	p-Cresol (4-Methylphenol)	ND	ug/kg	330
	Di-n-butyl phthalate	ND	ug/kg	330
	Dibenzo(a,h)anthracene	ND	ug/kg	330
	Dibenzofuran	ND	ug/kg	330
	1,2-Dichlorobenzene	ND	ug/kg	330
	1,3-Dichlorobenzene	ND	ug/kg	330
	1,4-Dichlorobenzene	ND	ug/kg	330
	3,3'-Dichlorobenzidine	ND	ug/kg	660
	2,2'-oxybis(1-Chloropropane)	ND	ug/kg	330
	2,4-Dichlorophenol	ND	ug/kg	330
	Diethylphthalate	ND	ug/kg	330
	2,4-Dimethylphenol	ND	ug/kg	330
	Dimethylphthalate	ND	ug/kg	330
	4,6-Dinitro-o-cresol	ND	ug/kg	1,600

Basin Engineering, Inc. GSA Group: 19574

Test	Analysis	Results as Received	Units	Limit of Quantitation
Sample:106501 - 02/07/96 - TP-3/2.5'				
1201E	Semivolatiles, TCL OLM01.8 List			
	2,4-Dinitrophenol	ND	ug/kg	1,600
	2,4-Dinitrotoluene	ND	ug/kg	330
	2,6-Dinitrotoluene	ND	ug/kg	330
	Di-n-octyl phthalate	ND	ug/kg	330
	Fluoranthene	ND	ug/kg	330
	Fluorene	ND	ug/kg	330
	Hexachlorobenzene	ND	ug/kg	330
	Hexachlorocyclopentadiene	ND	ug/kg	330
	Hexachloroethane	ND	ug/kg	330
	Hexachloro-1,3-butadiene	ND	ug/kg	330
	Indeno(1,2,3-cd)pyrene	ND	ug/kg	330
	Isophorone	ND	ug/kg	330
	2-Methylnaphthalene	ND	ug/kg	330
	Naphthalene	ND	ug/kg	330
	2-Nitroaniline	ND	ug/kg	330
	3-Nitroaniline	ND	ug/kg	330
	4-Nitroaniline	ND	ug/kg	330
	Nitrobenzene	ND	ug/kg	330
	2-Nitrophenol	ND	ug/kg	330
	4-Nitrophenol	ND	ug/kg	1,600
	N-Nitrosodiphenylamine	ND	ug/kg	330
	N-Nitrosodi-n-propylamine	ND	ug/kg	330
	Pentachlorophenol	ND	ug/kg	1,600
	Phenanthrene	ND	ug/kg	330
	Phenol	ND	ug/kg	330
	Pyrene	ND	ug/kg	330
	1,2,4-Trichlorobenzene	ND	ug/kg	330
	2,4,5-Trichlorophenol	ND	ug/kg	330
	2,4,6-Trichlorophenol	ND	ug/kg	330
Sample:106502 - 02/07/96 - TP-4/8.0'				
0394	pH of Water Extract, Solids	8.40	Std. Units	0.01
1241	Methanol, Solids	ND	mg/kg	2.5
2736A	GC FID Parameters, Nonroutine			
	Ethylene glycol	ND	mg/kg	0.5
	Diethylene glycol	ND	mg/kg	
	Triethylene glycol	ND	mg/kg	
0890	Library Search, Volatiles	SEE ATTACHED	ug/l	
1178A	Volatiles, TCL OLM01.8 List			
	Acetone	ND	ug/kg	10
	Benzene	ND	ug/kg	5
	Bromodichloromethane	ND	ug/kg	5

Basin Engineering, Inc. GSA Group: 19574

Test	Analysis	Results as Received	Units	Limit of Quantitation
Sample:106502 - 02/07/96 - TP-4/8.0'				
1178A	Volatiles, TCL OLM01.8 List			
	Bromoform	ND	ug/kg	5
	Bromomethane (Methyl bromide)	ND	ug/kg	10
	2-Butanone (MEK)	ND	ug/kg	50
	Carbon disulfide	ND	ug/kg	5
	Carbon tetrachloride	ND	ug/kg	5
	Chlorodibromomethane	ND	ug/kg	5
	Chlorobenzene	ND	ug/kg	5
	Chloroethane (Ethyl chloride)	ND	ug/kg	10
	Chloroform	ND	ug/kg	5
	Chloromethane (Methyl chloride)	ND	ug/kg	10
	1,1-Dichloroethane	ND	ug/kg	5
	1,2-Dichloroethane	ND	ug/kg	5
	1,1-Dichloroethene	ND	ug/kg	5
	1,2-Dichloroethene (total)	ND	ug/kg	5
	1,2-Dichloropropane	ND	ug/kg	5
	cis-1,3-Dichloropropene	ND	ug/kg	5
	trans-1,3-Dichloropropene	ND	ug/kg	5
	Ethylbenzene	ND	ug/kg	5
	2-Hexanone	ND	ug/kg	10
	Dichloromethane	ND	ug/kg	5
	4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10
	Styrene	ND	ug/kg	5
	1,1,2,2-Tetrachloroethane	ND	ug/kg	5
	Tetrachloroethene	ND	ug/kg	5
	Toluene	ND	ug/kg	5
	1,1,1-Trichloroethane	ND	ug/kg	5
	1,1,2-Trichloroethane	ND	ug/kg	5
	Trichloroethene	ND	ug/kg	5
	Vinyl chloride	ND	ug/kg	10
	Xylene (total)	ND	ug/kg	5
0893	Library Search, Semivolatiles	SEE ATTACHED		
1201E	Semivolatiles, TCL OLM01.8 List			
	Acenaphthene	ND	ug/kg	330
	Acenaphthylene	ND	ug/kg	330
	Anthracene	ND	ug/kg	330
	Benzo(a)anthracene	ND	ug/kg	330
	Benzo(b)fluoranthene	ND	ug/kg	330
	Benzo(k)fluoranthene	ND	ug/kg	330
	Benzo(ghi)perylene	ND	ug/kg	330
	Benzo(a)pyrene	ND	ug/kg	330
	bis(2-Chloroethoxy)methane	ND	ug/kg	330
	bis(2-Chloroethyl)ether	ND	ug/kg	330

Basin Engineering, Inc. GSA Group: 19574

Test	Analysis	Results as Received	Units	Limit of Quantitation
Sample:106502 - 02/07/96 - TP-4/8.0'				
1201E	Semivolatiles, TCL OLM01.8 List			
	bis(2-Ethylhexyl)phthalate	ND	ug/kg	330
	4-Bromophenyl-phenylether	ND	ug/kg	330
	Butylbenzyl phthalate	ND	ug/kg	330
	Carbazole	ND	ug/kg	330
	4-Chloroaniline	ND	ug/kg	330
	4-Chloro-3-methylphenol	ND	ug/kg	330
	2-Chloronaphthalene	ND	ug/kg	330
	2-Chlorophenol	ND	ug/kg	330
	4-Chlorophenyl-phenylether	ND	ug/kg	330
	Chrysene	ND	ug/kg	330
	o-Cresol (2-Methylphenol)	ND	ug/kg	330
	p-Cresol (4-Methylphenol)	ND	ug/kg	330
	Di-n-butyl phthalate	ND	ug/kg	330
	Dibenzo(a,h)anthracene	ND	ug/kg	330
	Dibenzofuran	ND	ug/kg	330
	1,2-Dichlorobenzene	ND	ug/kg	330
	1,3-Dichlorobenzene	ND	ug/kg	330
	1,4-Dichlorobenzene	ND	ug/kg	330
	3,3'-Dichlorobenzidine	ND	ug/kg	660
	2,2'-oxybis(1-Chloropropane)	ND	ug/kg	330
	2,4-Dichlorophenol	ND	ug/kg	330
	Diethylphthalate	ND	ug/kg	330
	2,4-Dimethylphenol	ND	ug/kg	330
	Dimethylphthalate	ND	ug/kg	330
	4,6-Dinitro-o-cresol	ND	ug/kg	1,600
	2,4-Dinitrophenol	ND	ug/kg	1,600
	2,4-Dinitrotoluene	ND	ug/kg	330
	2,6-Dinitrotoluene	ND	ug/kg	330
	Di-n-octyl phthalate	ND	ug/kg	330
	Fluoranthene	ND	ug/kg	330
	Fluorene	ND	ug/kg	330
	Hexachlorobenzene	ND	ug/kg	330
	Hexachlorocyclopentadiene	ND	ug/kg	330
	Hexachloroethane	ND	ug/kg	330
	Hexachloro-1,3-butadiene	ND	ug/kg	330
	Indeno(1,2,3-cd)pyrene	ND	ug/kg	330
	Isophorone	ND	ug/kg	330
	2-Methylnaphthalene	ND	ug/kg	330
	Naphthalene	ND	ug/kg	330
	2-Nitroaniline	ND	ug/kg	330
	3-Nitroaniline	ND	ug/kg	330
	4-Nitroaniline	ND	ug/kg	330

Basin Engineering, Inc. GSA Group: 19574

Test	Analysis	Results as Received	Units	Limit of Quantitation
Sample:106502 - 02/07/96 - TP-4/8.0'				
1201E	Semivolatiles, TCL OLM01.8 List			
	Nitrobenzene	ND	ug/kg	330
	2-Nitrophenol	ND	ug/kg	330
	4-Nitrophenol	ND	ug/kg	1,600
	N-Nitrosodiphenylamine	ND	ug/kg	330
	N-Nitrosodi-n-propylamine	ND	ug/kg	330
	Pentachlorophenol	ND	ug/kg	1,600
	Phenanthrene	ND	ug/kg	330
	Phenol	ND	ug/kg	330
	Pyrene	ND	ug/kg	330
	1,2,4-Trichlorobenzene	ND	ug/kg	330
	2,4,5-Trichlorophenol	ND	ug/kg	330
	2,4,6-Trichlorophenol	ND	ug/kg	330
Sample:106503 - 02/07/96 - SS-1/4''				
0394	pH of Water Extract, Solids	7.86	Std. Units	0.01
1241	Methanol, Solids	ND	mg/kg	2.5
2736A	GC FID Parameters, Nonroutine			
	Ethylene glycol	ND	mg/kg	0.5
	Diethylene glycol	ND	mg/kg	
	Triethylene glycol	ND	mg/kg	
0890	Library Search, Volatiles	SEE ATTACHED	ug/l	
1178A	Volatiles, TCL OLM01.8 List			
	Acetone	ND	ug/kg	10
	Benzene	ND	ug/kg	5
	Bromodichloromethane	ND	ug/kg	5
	Bromoform	ND	ug/kg	5
	Bromomethane (Methyl bromide)	ND	ug/kg	10
	2-Butanone (MEK)	ND	ug/kg	50
	Carbon disulfide	ND	ug/kg	5
	Carbon tetrachloride	ND	ug/kg	5
	Chlorodibromomethane	ND	ug/kg	5
	Chlorobenzene	ND	ug/kg	5
	Chloroethane (Ethyl chloride)	ND	ug/kg	10
	Chloroform	ND	ug/kg	5
	Chloromethane (Methyl chloride)	ND	ug/kg	10
	1,1-Dichloroethane	ND	ug/kg	5
	1,2-Dichloroethane	ND	ug/kg	5
	1,1-Dichloroethene	ND	ug/kg	5
	1,2-Dichloroethene (total)	ND	ug/kg	5
	1,2-Dichloropropane	ND	ug/kg	5
	cis-1,3-Dichloropropene	ND	ug/kg	5
	trans-1,3-Dichloropropene	ND	ug/kg	5

Basin Engineering, Inc. GSA Group: 19574

Test	Analysis	Results as Received	Units	Limit of Quantitation
Sample:106503 - 02/07/96 - SS-1/4''				
1178A	Volatiles, TCL OLM01.8 List			
	Ethylbenzene	ND	ug/kg	5
	2-Hexanone	ND	ug/kg	10
	Dichloromethane	ND	ug/kg	5
	4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10
	Styrene	ND	ug/kg	5
	1,1,2,2-Tetrachloroethane	ND	ug/kg	5
	Tetrachloroethene	ND	ug/kg	5
	Toluene	ND	ug/kg	5
	1,1,1-Trichloroethane	ND	ug/kg	5
	1,1,2-Trichloroethane	ND	ug/kg	5
	Trichloroethene	ND	ug/kg	5
	Vinyl chloride	ND	ug/kg	10
	Xylene (total)	ND	ug/kg	5
0893	Library Search, Semivolatiles	SEE ATTACHED		
1201E	Semivolatiles, TCL OLM01.8 List			
	Acenaphthene	ND	ug/kg	330
	Acenaphthylene	ND	ug/kg	330
	Anthracene	ND	ug/kg	330
	Benzo(a)anthracene	ND	ug/kg	330
	Benzo(b)fluoranthene	ND	ug/kg	330
	Benzo(k)fluoranthene	ND	ug/kg	330
	Benzo(ghi)perylene	ND	ug/kg	330
	Benzo(a)pyrene	ND	ug/kg	330
	bis(2-Chloroethoxy)methane	ND	ug/kg	330
	bis(2-Chloroethyl)ether	ND	ug/kg	330
	bis(2-Ethylhexyl)phthalate	ND	ug/kg	330
	4-Bromophenyl-phenylether	ND	ug/kg	330
	Butylbenzyl phthalate	ND	ug/kg	330
	Carbazole	ND	ug/kg	330
	4-Chloroaniline	ND	ug/kg	330
	4-Chloro-3-methylphenol	ND	ug/kg	330
	2-Chloronaphthalene	ND	ug/kg	330
	2-Chlorophenol	ND	ug/kg	330
	4-Chlorophenyl-phenylether	ND	ug/kg	330
	Chrysene	ND	ug/kg	330
	o-Cresol (2-Methylphenol)	ND	ug/kg	330
	p-Cresol (4-Methylphenol)	ND	ug/kg	330
	Di-n-butyl phthalate	ND	ug/kg	330
	Dibenzo(a,h)anthracene	ND	ug/kg	330
	Dibenzofuran	ND	ug/kg	330
	1,2-Dichlorobenzene	ND	ug/kg	330
	1,3-Dichlorobenzene	ND	ug/kg	330

Basin Engineering, Inc.

GSA Group: 19574

Test	Analysis	Results as Received	Units	Limit of Quantitation
Sample:106503 - 02/07/96 - SS-1/4''				
1201E	Semivolatiles, TCL OLM01.8 List			
	1,4-Dichlorobenzene	ND	ug/kg	330
	3,3'-Dichlorobenzidine	ND	ug/kg	660
	2,2'-oxybis(1-Chloropropane)	ND	ug/kg	330
	2,4-Dichlorophenol	ND	ug/kg	330
	Diethylphthalate	ND	ug/kg	330
	2,4-Dimethylphenol	ND	ug/kg	330
	Dimethylphthalate	ND	ug/kg	330
	4,6-Dinitro-o-cresol	ND	ug/kg	1,600
	2,4-Dinitrophenol	ND	ug/kg	1,600
	2,4-Dinitrotoluene	ND	ug/kg	330
	2,6-Dinitrotoluene	ND	ug/kg	330
	Di-n-octyl phthalate	ND	ug/kg	330
	Fluoranthene	ND	ug/kg	330
	Fluorene	ND	ug/kg	330
	Hexachlorobenzene	ND	ug/kg	330
	Hexachlorocyclopentadiene	ND	ug/kg	330
	Hexachloroethane	ND	ug/kg	330
	Hexachloro-1,3-butadiene	ND	ug/kg	330
	Indeno(1,2,3-cd)pyrene	ND	ug/kg	330
	Isophorone	ND	ug/kg	330
	2-Methylnaphthalene	ND	ug/kg	330
	Naphthalene	ND	ug/kg	330
	2-Nitroaniline	ND	ug/kg	330
	3-Nitroaniline	ND	ug/kg	330
	4-Nitroaniline	ND	ug/kg	330
	Nitrobenzene	ND	ug/kg	330
	2-Nitrophenol	ND	ug/kg	330
	4-Nitrophenol	ND	ug/kg	1,600
	N-Nitrosodiphenylamine	ND	ug/kg	330
	N-Nitrosodi-n-propylamine	ND	ug/kg	330
	Pentachlorophenol	ND	ug/kg	1,600
	Phenanthrene	ND	ug/kg	330
	Phenol	ND	ug/kg	330
	Pyrene	ND	ug/kg	330
	1,2,4-Trichlorobenzene	ND	ug/kg	330
	2,4,5-Trichlorophenol	ND	ug/kg	330
	2,4,6-Trichlorophenol	ND	ug/kg	330
Sample:106504 - 02/07/96 - SS-2/6''				
0394	pH of Water Extract, Solids	7.77	Std. Units	0.01
1241	Methanol, Solids	ND	mg/kg	2.5
2736A	GC FID Parameters, Nonroutine			
	Ethylene glycol	ND	mg/kg	0.5

Basin Engineering, Inc. GSA Group: 19574

Test	Analysis	Results as Received	Units	Limit of Quantitation
Sample:106504 - 02/07/96 - SS-2/6''				
2736A	GC FID Parameters, Nonroutine			
	Diethylene glycol	ND	mg/kg	
	Triethylene glycol	ND	mg/kg	
0890	Library Search, Volatiles	SEE ATTACHED	ug/l	
1178A	Volatiles, TCL OLM01.8 List			
	Acetone	ND	ug/kg	10
	Benzene	ND	ug/kg	5
	Bromodichloromethane	ND	ug/kg	5
	Bromoform	ND	ug/kg	5
	Bromomethane (Methyl bromide)	ND	ug/kg	10
	2-Butanone (MEK)	ND	ug/kg	50
	Carbon disulfide	ND	ug/kg	5
	Carbon tetrachloride	ND	ug/kg	5
	Chlorodibromomethane	ND	ug/kg	5
	Chlorobenzene	ND	ug/kg	5
	Chloroethane (Ethyl chloride)	ND	ug/kg	10
	Chloroform	ND	ug/kg	5
	Chloromethane (Methyl chloride)	ND	ug/kg	10
	1,1-Dichloroethane	ND	ug/kg	5
	1,2-Dichloroethane	ND	ug/kg	5
	1,1-Dichloroethene	ND	ug/kg	5
	1,2-Dichloroethene (total)	ND	ug/kg	5
	1,2-Dichloropropane	ND	ug/kg	5
	cis-1,3-Dichloropropene	ND	ug/kg	5
	trans-1,3-Dichloropropene	ND	ug/kg	5
	Ethylbenzene	ND	ug/kg	5
	2-Hexanone	ND	ug/kg	10
	Dichloromethane	ND	ug/kg	5
	4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10
	Styrene	ND	ug/kg	5
	1,1,2,2-Tetrachloroethane	ND	ug/kg	5
	Tetrachloroethene	ND	ug/kg	5
	Toluene	ND	ug/kg	5
	1,1,1-Trichloroethane	ND	ug/kg	5
	1,1,2-Trichloroethane	ND	ug/kg	5
	Trichloroethene	ND	ug/kg	5
	Vinyl chloride	ND	ug/kg	10
	Xylene (total)	8	ug/kg	5
0893	Library Search, Semivolatiles	SEE ATTACHED		
1201E	Semivolatiles, TCL OLM01.8 List			
	Acenaphthene	ND	ug/kg	330
	Acenaphthylene	ND	ug/kg	330
	Anthracene	ND	ug/kg	330

Basin Engineering, Inc.

GSA Group: 19574

Test	Analysis	Results as Received	Units	Limit of Quantitation
Sample:106504 - 02/07/96 - SS-2/6''				
1201E	Semivolatiles, TCL OLM01.8 List			
	Benzo(a)anthracene	ND	ug/kg	330
	Benzo(b)fluoranthene	ND	ug/kg	330
	Benzo(k)fluoranthene	ND	ug/kg	330
	Benzo(ghi)perylene	ND	ug/kg	330
	Benzo(a)pyrene	ND	ug/kg	330
	bis(2-Chloroethoxy)methane	ND	ug/kg	330
	bis(2-Chloroethyl)ether	ND	ug/kg	330
	bis(2-Ethylhexyl)phthalate	ND	ug/kg	330
	4-Bromophenyl-phenylether	ND	ug/kg	330
	Butylbenzyl phthalate	ND	ug/kg	330
	Carbazole	ND	ug/kg	330
	4-Chloroaniline	ND	ug/kg	330
	4-Chloro-3-methylphenol	ND	ug/kg	330
	2-Chloronaphthalene	ND	ug/kg	330
	2-Chlorophenol	ND	ug/kg	330
	4-Chlorophenyl-phenylether	ND	ug/kg	330
	Chrysene	ND	ug/kg	330
	o-Cresol (2-Methylphenol)	ND	ug/kg	330
	p-Cresol (4-Methylphenol)	ND	ug/kg	330
	Di-n-butyl phthalate	ND	ug/kg	330
	Dibenzo(a,h)anthracene	ND	ug/kg	330
	Dibenzofuran	ND	ug/kg	330
	1,2-Dichlorobenzene	ND	ug/kg	330
	1,3-Dichlorobenzene	ND	ug/kg	330
	1,4-Dichlorobenzene	ND	ug/kg	330
	3,3'-Dichlorobenzidine	ND	ug/kg	660
	2,2'-oxybis(1-Chloropropane)	ND	ug/kg	330
	2,4-Dichlorophenol	ND	ug/kg	330
	Diethylphthalate	ND	ug/kg	330
	2,4-Dimethylphenol	ND	ug/kg	330
	Dimethylphthalate	ND	ug/kg	330
	4,6-Dinitro-o-cresol	ND	ug/kg	1,600
	2,4-Dinitrophenol	ND	ug/kg	1,600
	2,4-Dinitrotoluene	ND	ug/kg	330
	2,6-Dinitrotoluene	ND	ug/kg	330
	Di-n-octyl phthalate	ND	ug/kg	330
	Fluoranthene	ND	ug/kg	330
	Fluorene	ND	ug/kg	330
	Hexachlorobenzene	ND	ug/kg	330
	Hexachlorocyclopentadiene	ND	ug/kg	330
	Hexachloroethane	ND	ug/kg	330
	Hexachloro-1,3-butadiene	ND	ug/kg	330

Basin Engineering, Inc. GSA Group: 19574

Test	Analysis	Results as Received	Units	Limit of Quantitation
Sample:106504 - 02/07/96 - SS-2/6''				
1201E	Semivolatiles, TCL OLM01.8 List			
	Indeno(1,2,3-cd)pyrene	ND	ug/kg	330
	Isophorone	ND	ug/kg	330
	2-Methylnaphthalene	ND	ug/kg	330
	Naphthalene	ND	ug/kg	330
	2-Nitroaniline	ND	ug/kg	330
	3-Nitroaniline	ND	ug/kg	330
	4-Nitroaniline	ND	ug/kg	330
	Nitrobenzene	ND	ug/kg	330
	2-Nitrophenol	ND	ug/kg	330
	4-Nitrophenol	ND	ug/kg	1,600
	N-Nitrosodiphenylamine	ND	ug/kg	330
	N-Nitrosodi-n-propylamine	ND	ug/kg	330
	Pentachlorophenol	ND	ug/kg	1,600
	Phenanthrene	ND	ug/kg	330
	Phenol	ND	ug/kg	330
	Pyrene	ND	ug/kg	330
	1,2,4-Trichlorobenzene	ND	ug/kg	330
	2,4,5-Trichlorophenol	ND	ug/kg	330
	2,4,6-Trichlorophenol	ND	ug/kg	330
Sample:106505 - 02/07/96 - TP-5/1'				
0394	pH of Water Extract, Solids	9.04	Std. Units	0.01
1241	Methanol, Solids	ND	mg/kg	2.5
2736A	GC FID Parameters, Nonroutine			
	Ethylene glycol	ND	mg/kg	0.5
	Diethylene glycol	ND	mg/kg	
	Triethylene glycol	ND	mg/kg	
0890	Library Search, Volatiles	SEE ATTACHED	ug/l	
1178A	Volatiles, TCL OLM01.8 List			
	Acetone	ND	ug/kg	10
	Benzene	ND	ug/kg	5
	Bromodichloromethane	ND	ug/kg	5
	Bromoform	ND	ug/kg	5
	Bromomethane (Methyl bromide)	ND	ug/kg	10
	2-Butanone (MEK)	ND	ug/kg	50
	Carbon disulfide	ND	ug/kg	5
	Carbon tetrachloride	ND	ug/kg	5
	Chlorodibromomethane	ND	ug/kg	5
	Chlorobenzene	ND	ug/kg	5
	Chloroethane (Ethyl chloride)	ND	ug/kg	10
	Chloroform	ND	ug/kg	5
	Chloromethane (Methyl chloride)	ND	ug/kg	10

Basin Engineering, Inc. GSA Group: 19574

Test	Analysis	Results as Received	Units	Limit of Quantitation
Sample:106505 - 02/07/96 - TP-5/1'				
1178A	Volatiles, TCL OLM01.8 List			
	1,1-Dichloroethane	ND	ug/kg	5
	1,2-Dichloroethane	ND	ug/kg	5
	1,1-Dichloroethene	ND	ug/kg	5
	1,2-Dichloroethene (total)	ND	ug/kg	5
	1,2-Dichloropropane	ND	ug/kg	5
	cis-1,3-Dichloropropene	ND	ug/kg	5
	trans-1,3-Dichloropropene	ND	ug/kg	5
	Ethylbenzene	ND	ug/kg	5
	2-Hexanone	ND	ug/kg	10
	Dichloromethane	ND	ug/kg	5
	4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10
	Styrene	ND	ug/kg	5
	1,1,2,2-Tetrachloroethane	ND	ug/kg	5
	Tetrachloroethene	ND	ug/kg	5
	Toluene	ND	ug/kg	5
	1,1,1-Trichloroethane	ND	ug/kg	5
	1,1,2-Trichloroethane	ND	ug/kg	5
	Trichloroethene	ND	ug/kg	5
	Vinyl chloride	ND	ug/kg	10
	Xylene (total)	ND	ug/kg	5
0893	Library Search, Semivolatiles	SEE ATTACHED		
1201E	Semivolatiles, TCL OLM01.8 List			
	Acenaphthene	ND	ug/kg	330
	Acenaphthylene	ND	ug/kg	330
	Anthracene	ND	ug/kg	330
	Benzo(a)anthracene	ND	ug/kg	330
	Benzo(b)fluoranthene	ND	ug/kg	330
	Benzo(k)fluoranthene	ND	ug/kg	330
	Benzo(ghi)perylene	ND	ug/kg	330
	Benzo(a)pyrene	ND	ug/kg	330
	bis(2-Chloroethoxy)methane	ND	ug/kg	330
	bis(2-Chloroethyl)ether	ND	ug/kg	330
	bis(2-Ethylhexyl)phthalate	ND	ug/kg	330
	4-Bromophenyl-phenylether	ND	ug/kg	330
	Butylbenzyl phthalate	ND	ug/kg	330
	Carbazole	ND	ug/kg	330
	4-Chloroaniline	ND	ug/kg	330
	4-Chloro-3-methylphenol	ND	ug/kg	330
	2-Chloronaphthalene	ND	ug/kg	330
	2-Chlorophenol	ND	ug/kg	330
	4-Chlorophenyl-phenylether	ND	ug/kg	330
	Chrysene	ND	ug/kg	330

Basin Engineering, Inc.

GSA Group: 19574

Test	Analysis	Results as Received	Units	Limit of Quantitation
Sample:106505 - 02/07/96 - TP-5/1'				
1201E	Semivolatiles, TCL OLM01.8 List			
	o-Cresol (2-Methylphenol)	ND	ug/kg	330
	p-Cresol (4-Methylphenol)	ND	ug/kg	330
	Di-n-butyl phthalate	ND	ug/kg	330
	Dibenzo(a,h)anthracene	ND	ug/kg	330
	Dibenzofuran	ND	ug/kg	330
	1,2-Dichlorobenzene	ND	ug/kg	330
	1,3-Dichlorobenzene	ND	ug/kg	330
	1,4-Dichlorobenzene	ND	ug/kg	330
	3,3'-Dichlorobenzidine	ND	ug/kg	660
	2,2'-oxybis(1-Chloropropane)	ND	ug/kg	330
	2,4-Dichlorophenol	ND	ug/kg	330
	Diethylphthalate	ND	ug/kg	330
	2,4-Dimethylphenol	ND	ug/kg	330
	Dimethylphthalate	ND	ug/kg	330
	4,6-Dinitro-o-cresol	ND	ug/kg	1,600
	2,4-Dinitrophenol	ND	ug/kg	1,600
	2,4-Dinitrotoluene	ND	ug/kg	330
	2,6-Dinitrotoluene	ND	ug/kg	330
	Di-n-octyl phthalate	ND	ug/kg	330
	Fluoranthene	ND	ug/kg	330
	Fluorene	ND	ug/kg	330
	Hexachlorobenzene	ND	ug/kg	330
	Hexachlorocyclopentadiene	ND	ug/kg	330
	Hexachloroethane	ND	ug/kg	330
	Hexachloro-1,3-butadiene	ND	ug/kg	330
	Indeno(1,2,3-cd)pyrene	ND	ug/kg	330
	Isophorone	ND	ug/kg	330
	2-Methylnaphthalene	ND	ug/kg	330
	Naphthalene	ND	ug/kg	330
	2-Nitroaniline	ND	ug/kg	330
	3-Nitroaniline	ND	ug/kg	330
	4-Nitroaniline	ND	ug/kg	330
	Nitrobenzene	ND	ug/kg	330
	2-Nitrophenol	ND	ug/kg	330
	4-Nitrophenol	ND	ug/kg	1,600
	N-Nitrosodiphenylamine	ND	ug/kg	330
	N-Nitrosodi-n-propylamine	ND	ug/kg	330
	Pentachlorophenol	ND	ug/kg	1,600
	Phenanthrene	ND	ug/kg	330
	Phenol	ND	ug/kg	330
	Pyrene	ND	ug/kg	330
	1,2,4-Trichlorobenzene	ND	ug/kg	330

Basin Engineering, Inc. GSA Group: 19574

Test	Analysis	Results as Received	Units	Limit of Quantitation
Sample:106505 - 02/07/96 - TP-5/1'				
1201E	Semivolatiles, TCL OLM01.8 List			
	2,4,5-Trichlorophenol	ND	ug/kg	330
	2,4,6-Trichlorophenol	ND	ug/kg	330
Sample:106506 - 02/07/96 - TP-5/2'				
0394	pH of Water Extract, Solids	7.72	Std. Units	0.01
1241	Methanol, Solids	ND	mg/kg	2.5
2736A	GC FID Parameters, Nonroutine			
	Ethylene glycol	ND	mg/kg	0.5
	Diethylene glycol	ND	mg/kg	
	Triethylene glycol	ND	mg/kg	
0890	Library Search, Volatiles	SEE ATTACHED	ug/l	
1178A	Volatiles, TCL OLM01.8 List			
	Acetone	ND	ug/kg	10
	Benzene	ND	ug/kg	5
	Bromodichloromethane	ND	ug/kg	5
	Bromoform	ND	ug/kg	5
	Bromomethane (Methyl bromide)	ND	ug/kg	10
	2-Butanone (MEK)	ND	ug/kg	50
	Carbon disulfide	ND	ug/kg	5
	Carbon tetrachloride	ND	ug/kg	5
	Chlorodibromomethane	ND	ug/kg	5
	Chlorobenzene	ND	ug/kg	5
	Chloroethane (Ethyl chloride)	ND	ug/kg	10
	Chloroform	ND	ug/kg	5
	Chloromethane (Methyl chloride)	ND	ug/kg	10
	1,1-Dichloroethane	ND	ug/kg	5
	1,2-Dichloroethane	ND	ug/kg	5
	1,1-Dichloroethene	ND	ug/kg	5
	1,2-Dichloroethene (total)	ND	ug/kg	5
	1,2-Dichloropropane	ND	ug/kg	5
	cis-1,3-Dichloropropene	ND	ug/kg	5
	trans-1,3-Dichloropropene	ND	ug/kg	5
	Ethylbenzene	ND	ug/kg	5
	2-Hexanone	ND	ug/kg	10
	Dichloromethane	ND	ug/kg	5
	4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10
	Styrene	ND	ug/kg	5
	1,1,2,2-Tetrachloroethane	ND	ug/kg	5
	Tetrachloroethene	ND	ug/kg	5
	Toluene	ND	ug/kg	5
	1,1,1-Trichloroethane	ND	ug/kg	5
	1,1,2-Trichloroethane	ND	ug/kg	5

ANALYSIS SUMMARY REPORT

Basin Engineering, Inc. GSA Group: 19574

Test	Analysis	Results as Received	Units	Limit of Quantitation
Sample:106506 - 02/07/96 - TP-5/2'				
1178A	Volatiles, TCL OLM01.8 List			
	Trichloroethene	ND	ug/kg	5
	Vinyl chloride	ND	ug/kg	10
	Xylene (total)	ND	ug/kg	5
0893	Library Search, Semivolatiles	SEE ATTACHED		
1201E	Semivolatiles, TCL OLM01.8 List			
	Acenaphthene	ND	ug/kg	330
	Acenaphthylene	ND	ug/kg	330
	Anthracene	ND	ug/kg	330
	Benzo(a)anthracene	ND	ug/kg	330
	Benzo(b)fluoranthene	ND	ug/kg	330
	Benzo(k)fluoranthene	ND	ug/kg	330
	Benzo(ghi)perylene	ND	ug/kg	330
	Benzo(a)pyrene	ND	ug/kg	330
	bis(2-Chloroethoxy)methane	ND	ug/kg	330
	bis(2-Chloroethyl)ether	ND	ug/kg	330
	bis(2-Ethylhexyl)phthalate	ND	ug/kg	330
	4-Bromophenyl-phenylether	ND	ug/kg	330
	Butylbenzyl phthalate	ND	ug/kg	330
	Carbazole	ND	ug/kg	330
	4-Chloroaniline	ND	ug/kg	330
	4-Chloro-3-methylphenol	ND	ug/kg	330
	2-Chloronaphthalene	ND	ug/kg	330
	2-Chlorophenol	ND	ug/kg	330
	4-Chlorophenyl-phenylether	ND	ug/kg	330
	Chrysene	ND	ug/kg	330
	o-Cresol (2-Methylphenol)	ND	ug/kg	330
	p-Cresol (4-Methylphenol)	ND	ug/kg	330
	Di-n-butyl phthalate	ND	ug/kg	330
	Dibenzo(a,h)anthracene	ND	ug/kg	330
	Dibenzofuran	ND	ug/kg	330
	1,2-Dichlorobenzene	ND	ug/kg	330
	1,3-Dichlorobenzene	ND	ug/kg	330
	1,4-Dichlorobenzene	ND	ug/kg	330
	3,3'-Dichlorobenzidine	ND	ug/kg	660
	2,2'-oxybis(1-Chloropropane)	ND	ug/kg	330
	2,4-Dichlorophenol	ND	ug/kg	330
	Diethylphthalate	ND	ug/kg	330
	2,4-Dimethylphenol	ND	ug/kg	330
	Dimethylphthalate	ND	ug/kg	330
	4,6-Dinitro-o-cresol	ND	ug/kg	1,600
	2,4-Dinitrophenol	ND	ug/kg	1,600
	2,4-Dinitrotoluene	ND	ug/kg	330

Basin Engineering, Inc. GSA Group: 19574

Test	Analysis	Results as Received	Units	Limit of Quantitation
Sample:106506 - 02/07/96 - TP-5/2'				
1201E	Semivolatiles, TCL OLM01.8 List			
	2,6-Dinitrotoluene	ND	ug/kg	330
	Di-n-octyl phthalate	ND	ug/kg	330
	Fluoranthene	ND	ug/kg	330
	Fluorene	ND	ug/kg	330
	Hexachlorobenzene	ND	ug/kg	330
	Hexachlorocyclopentadiene	ND	ug/kg	330
	Hexachloroethane	ND	ug/kg	330
	Hexachloro-1,3-butadiene	ND	ug/kg	330
	Indeno(1,2,3-cd)pyrene	ND	ug/kg	330
	Isophorone	ND	ug/kg	330
	2-Methylnaphthalene	ND	ug/kg	330
	Naphthalene	ND	ug/kg	330
	2-Nitroaniline	ND	ug/kg	330
	3-Nitroaniline	ND	ug/kg	330
	4-Nitroaniline	ND	ug/kg	330
	Nitrobenzene	ND	ug/kg	330
	2-Nitrophenol	ND	ug/kg	330
	4-Nitrophenol	ND	ug/kg	1,600
	N-Nitrosodiphenylamine	ND	ug/kg	330
	N-Nitrosodi-n-propylamine	ND	ug/kg	330
	Pentachlorophenol	ND	ug/kg	1,600
	Phenanthrene	ND	ug/kg	330
	Phenol	ND	ug/kg	330
	Pyrene	ND	ug/kg	330
	1,2,4-Trichlorobenzene	ND	ug/kg	330
	2,4,5-Trichlorophenol	ND	ug/kg	330
	2,4,6-Trichlorophenol	ND	ug/kg	330
Sample:106507 - 02/07/96 - SS-3/1'				
0394	pH of Water Extract, Solids	8.05	Std. Units	0.01
1241	Methanol, Solids	ND	mg/kg	2.5
2736A	GC FID Parameters, Nonroutine			
	Ethylene glycol	ND	mg/kg	0.5
	Diethylene glycol	ND	mg/kg	
	Triethylene glycol	ND	mg/kg	
0890	Library Search, Volatiles	SEE ATTACHED	ug/l	
1178A	Volatiles, TCL OLM01.8 List			
	Acetone	ND	ug/kg	10
	Benzene	ND	ug/kg	5
	Bromodichloromethane	ND	ug/kg	5
	Bromoform	ND	ug/kg	5
	Bromomethane (Methyl bromide)	ND	ug/kg	10

Basin Engineering, Inc. GSA Group: 19574

Test	Analysis	Results as Received	Units	Limit of Quantitation
Sample:106507 - 02/07/96 - SS-3/1'				
1178A	Volatiles, TCL OLM01.8 List			
	2-Butanone (MEK)	ND	ug/kg	50
	Carbon disulfide	ND	ug/kg	5
	Carbon tetrachloride	ND	ug/kg	5
	Chlorodibromomethane	ND	ug/kg	5
	Chlorobenzene	ND	ug/kg	5
	Chloroethane (Ethyl chloride)	ND	ug/kg	10
	Chloroform	ND	ug/kg	5
	Chloromethane (Methyl chloride)	ND	ug/kg	10
	1,1-Dichloroethane	ND	ug/kg	5
	1,2-Dichloroethane	ND	ug/kg	5
	1,1-Dichloroethene	ND	ug/kg	5
	1,2-Dichloroethene (total)	ND	ug/kg	5
	1,2-Dichloropropane	ND	ug/kg	5
	cis-1,3-Dichloropropene	ND	ug/kg	5
	trans-1,3-Dichloropropene	ND	ug/kg	5
	Ethylbenzene	ND	ug/kg	5
	2-Hexanone	ND	ug/kg	10
	Dichloromethane	ND	ug/kg	5
	4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10
	Styrene	ND	ug/kg	5
	1,1,2,2-Tetrachloroethane	ND	ug/kg	5
	Tetrachloroethene	ND	ug/kg	5
	Toluene	ND	ug/kg	5
	1,1,1-Trichloroethane	ND	ug/kg	5
	1,1,2-Trichloroethane	ND	ug/kg	5
	Trichloroethene	ND	ug/kg	5
	Vinyl chloride	ND	ug/kg	10
	Xylene (total)	ND	ug/kg	5
0893	Library Search, Semivolatiles	SEE ATTACHED		
1201E	Semivolatiles, TCL OLM01.8 List			
	Acenaphthene	ND	ug/kg	330
	Acenaphthylene	ND	ug/kg	330
	Anthracene	ND	ug/kg	330
	Benzo(a)anthracene	ND	ug/kg	330
	Benzo(b)fluoranthene	ND	ug/kg	330
	Benzo(k)fluoranthene	ND	ug/kg	330
	Benzo(ghi)perylene	ND	ug/kg	330
	Benzo(a)pyrene	ND	ug/kg	330
	bis(2-Chloroethoxy)methane	ND	ug/kg	330
	bis(2-Chloroethyl)ether	ND	ug/kg	330
	bis(2-Ethylhexyl)phthalate	ND	ug/kg	330
	4-Bromophenyl-phenylether	ND	ug/kg	330

Basin Engineering, Inc. GSA Group: 19574

Test	Analysis	Results as Received	Units	Limit of Quantitation
Sample:106507 - 02/07/96 - SS-3/1'				
1201E	Semivolatiles, TCL OLM01.8 List			
	Butylbenzyl phthalate	ND	ug/kg	330
	Carbazole	ND	ug/kg	330
	4-Chloroaniline	ND	ug/kg	330
	4-Chloro-3-methylphenol	ND	ug/kg	330
	2-Chloronaphthalene	ND	ug/kg	330
	2-Chlorophenol	ND	ug/kg	330
	4-Chlorophenyl-phenylether	ND	ug/kg	330
	Chrysene	ND	ug/kg	330
	o-Cresol (2-Methylphenol)	ND	ug/kg	330
	p-Cresol (4-Methylphenol)	ND	ug/kg	330
	Di-n-butyl phthalate	ND	ug/kg	330
	Dibenzo(a,h)anthracene	ND	ug/kg	330
	Dibenzofuran	ND	ug/kg	330
	1,2-Dichlorobenzene	ND	ug/kg	330
	1,3-Dichlorobenzene	ND	ug/kg	330
	1,4-Dichlorobenzene	ND	ug/kg	330
	3,3'-Dichlorobenzidine	ND	ug/kg	660
	2,2'-oxybis(1-Chloropropane)	ND	ug/kg	330
	2,4-Dichlorophenol	ND	ug/kg	330
	Diethylphthalate	ND	ug/kg	330
	2,4-Dimethylphenol	ND	ug/kg	330
	Dimethylphthalate	ND	ug/kg	330
	4,6-Dinitro-o-cresol	ND	ug/kg	1,600
	2,4-Dinitrophenol	ND	ug/kg	1,600
	2,4-Dinitrotoluene	ND	ug/kg	330
	2,6-Dinitrotoluene	ND	ug/kg	330
	Di-n-octyl phthalate	ND	ug/kg	330
	Fluoranthene	ND	ug/kg	330
	Fluorene	ND	ug/kg	330
	Hexachlorobenzene	ND	ug/kg	330
	Hexachlorocyclopentadiene	ND	ug/kg	330
	Hexachloroethane	ND	ug/kg	330
	Hexachloro-1,3-butadiene	ND	ug/kg	330
	Indeno(1,2,3-cd)pyrene	ND	ug/kg	330
	Isophorone	ND	ug/kg	330
	2-Methylnaphthalene	ND	ug/kg	330
	Naphthalene	ND	ug/kg	330
	2-Nitroaniline	ND	ug/kg	330
	3-Nitroaniline	ND	ug/kg	330
	4-Nitroaniline	ND	ug/kg	330
	Nitrobenzene	ND	ug/kg	330
	2-Nitrophenol	ND	ug/kg	330

Basin Engineering, Inc.

GSA Group: 19574

Test	Analysis	Results as Received	Units	Limit of Quantitation
Sample:106507 - 02/07/96 - SS-3/1'				
1201E	Semivolatiles, TCL OLM01.8 List			
	4-Nitrophenol	ND	ug/kg	1,600
	N-Nitrosodiphenylamine	ND	ug/kg	330
	N-Nitrosodi-n-propylamine	ND	ug/kg	330
	Pentachlorophenol	ND	ug/kg	1,600
	Phenanthrene	ND	ug/kg	330
	Phenol	ND	ug/kg	330
	Pyrene	ND	ug/kg	330
	1,2,4-Trichlorobenzene	ND	ug/kg	330
	2,4,5-Trichlorophenol	ND	ug/kg	330
	2,4,6-Trichlorophenol	ND	ug/kg	330
Sample:106508 - 02/07/96 - SS-4/6''				
0394	pH of Water Extract, Solids	8.81	Std. Units	0.01
1241	Methanol, Solids	ND	mg/kg	2.5
2736A	GC FID Parameters, Nonroutine			
	Ethylene glycol	ND	mg/kg	0.5
	Diethylene glycol	ND	mg/kg	
	Triethylene glycol	ND	mg/kg	
3090	Library Search, Volatiles	SEE ATTACHED	ug/l	
1178A	Volatiles, TCL OLM01.8 List			
	Acetone	ND	ug/kg	50
	Benzene	ND	ug/kg	20
	Bromodichloromethane	ND	ug/kg	20
	Bromoform	ND	ug/kg	20
	Bromomethane (Methyl bromide)	ND	ug/kg	50
	2-Butanone (MEK)	ND	ug/kg	200
	Carbon disulfide	ND	ug/kg	20
	Carbon tetrachloride	ND	ug/kg	20
	Chlorodibromomethane	ND	ug/kg	20
	Chlorobenzene	ND	ug/kg	20
	Chloroethane (Ethyl chloride)	ND	ug/kg	50
	Chloroform	ND	ug/kg	20
	Chloromethane (Methyl chloride)	ND	ug/kg	50
	1,1-Dichloroethane	ND	ug/kg	20
	1,2-Dichloroethane	ND	ug/kg	20
	1,1-Dichloroethene	ND	ug/kg	20
	1,2-Dichloroethene (total)	ND	ug/kg	20
	1,2-Dichloropropane	ND	ug/kg	20
	cis-1,3-Dichloropropene	ND	ug/kg	20
	trans-1,3-Dichloropropene	ND	ug/kg	20
	Ethylbenzene	ND	ug/kg	20
	2-Hexanone	ND	ug/kg	50

Basin Engineering, Inc.

GSA Group: 19574

Test	Analysis	Results as Received	Units	Limit of Quantitation
Sample:106508 - 02/07/96 - SS-4/6''				
1178A	Volatiles, TCL OLM01.8 List			
	Dichloromethane	ND	ug/kg	20
	4-Methyl-2-pentanone (MIBK)	ND	ug/kg	50
	Styrene	ND	ug/kg	20
	1,1,2,2-Tetrachloroethane	ND	ug/kg	20
	Tetrachloroethene	ND	ug/kg	20
	Toluene	ND	ug/kg	20
	1,1,1-Trichloroethane	ND	ug/kg	20
	1,1,2-Trichloroethane	ND	ug/kg	20
	Trichloroethene	ND	ug/kg	20
	Vinyl chloride	ND	ug/kg	20
	Xylene (total)	ND	ug/kg	50
0893	Library Search, Semivolatiles	SEE ATTACHED		20
1201E	Semivolatiles, TCL OLM01.8 List			
	Acenaphthene	ND	ug/kg	330
	Acenaphthylene	ND	ug/kg	330
	Anthracene	ND	ug/kg	330
	Benzo(a)anthracene	ND	ug/kg	330
	Benzo(b)fluoranthene	ND	ug/kg	330
	Benzo(k)fluoranthene	ND	ug/kg	330
	Benzo(ghi)perylene	ND	ug/kg	330
	Benzo(a)pyrene	ND	ug/kg	330
	bis(2-Chloroethoxy)methane	ND	ug/kg	330
	bis(2-Chloroethyl)ether	ND	ug/kg	330
	bis(2-Ethylhexyl)phthalate	ND	ug/kg	330
	4-Bromophenyl-phenylether	ND	ug/kg	330
	Butylbenzyl phthalate	ND	ug/kg	330
	Carbazole	ND	ug/kg	330
	4-Chloroaniline	ND	ug/kg	330
	4-Chloro-3-methylphenol	ND	ug/kg	330
	2-Chloronaphthalene	ND	ug/kg	330
	2-Chlorophenol	ND	ug/kg	330
	4-Chlorophenyl-phenylether	ND	ug/kg	330
	Chrysene	ND	ug/kg	330
	o-Cresol (2-Methylphenol)	ND	ug/kg	330
	p-Cresol (4-Methylphenol)	ND	ug/kg	330
	Di-n-butyl phthalate	ND	ug/kg	330
	Dibenzo(a,h)anthracene	ND	ug/kg	330
	Dibenzofuran	ND	ug/kg	330
	1,2-Dichlorobenzene	ND	ug/kg	330
	1,3-Dichlorobenzene	ND	ug/kg	330
	1,4-Dichlorobenzene	ND	ug/kg	330
	3,3'-Dichlorobenzidine	ND	ug/kg	660

Basin Engineering, Inc. GSA Group: 19574

Test	Analysis	Results as Received	Units	Limit of Quantitation
Sample:106508 - 02/07/96 - SS-4/6''				
1201E	Semivolatiles, TCL OLM01.8 List			
	2,2'-oxybis(1-Chloropropane)	ND	ug/kg	330
	2,4-Dichlorophenol	ND	ug/kg	330
	Diethylphthalate	ND	ug/kg	330
	2,4-Dimethylphenol	ND	ug/kg	330
	Dimethylphthalate	ND	ug/kg	330
	4,6-Dinitro-o-cresol	ND	ug/kg	1,600
	2,4-Dinitrophenol	ND	ug/kg	1,600
	2,4-Dinitrotoluene	ND	ug/kg	330
	2,6-Dinitrotoluene	ND	ug/kg	330
	Di-n-octyl phthalate	ND	ug/kg	330
	Fluoranthene	ND	ug/kg	330
	Fluorene	348	ug/kg	330
	Hexachlorobenzene	ND	ug/kg	330
	Hexachlorocyclopentadiene	ND	ug/kg	330
	Hexachloroethane	ND	ug/kg	330
	Hexachloro-1,3-butadiene	ND	ug/kg	330
	Indeno(1,2,3-cd)pyrene	ND	ug/kg	330
	Isophorone	ND	ug/kg	330
	2-Methylnaphthalene	5,750	ug/kg	1,600
	Naphthalene	ND	ug/kg	330
	2-Nitroaniline	ND	ug/kg	330
	3-Nitroaniline	ND	ug/kg	330
	4-Nitroaniline	ND	ug/kg	330
	Nitrobenzene	ND	ug/kg	330
	2-Nitrophenol	ND	ug/kg	330
	4-Nitrophenol	ND	ug/kg	1,600
	N-Nitrosodiphenylamine	ND	ug/kg	330
	N-Nitrosodi-n-propylamine	ND	ug/kg	330
	Pentachlorophenol	ND	ug/kg	1,600
	Phenanthrene	ND	ug/kg	330
	Phenol	ND	ug/kg	330
	Pyrene	ND	ug/kg	330
	1,2,4-Trichlorobenzene	ND	ug/kg	330
	2,4,5-Trichlorophenol	ND	ug/kg	330
	2,4,6-Trichlorophenol	ND	ug/kg	330
Sample:106509 - 02/07/96 - SS-5/6''				
0394	pH of Water Extract, Solids	8.67	Std. Units	0.01
1241	Methanol, Solids	ND	mg/kg	2.5
2736A	GC FID Parameters, Nonroutine			
	Ethylene glycol	ND	mg/kg	0.5
	Diethylene glycol	ND	mg/kg	

Basin Engineering, Inc. GSA Group: 19574

Test	Analysis	Results as Received	Units	Limit of Quantitation
Sample:106509 - 02/07/96 - SS-5/6''				
2736A	GC FID Parameters, Nonroutine			
	Triethylene glycol	ND	mg/kg	
0890	Library Search, Volatiles	SEE ATTACHED	ug/l	
1178A	Volatiles, TCL OLM01.8 List			
	Acetone	ND	ug/kg	50
	Benzene	ND	ug/kg	20
	Bromodichloromethane	ND	ug/kg	20
	Bromoform	ND	ug/kg	20
	Bromomethane (Methyl bromide)	ND	ug/kg	50
	2-Butanone (MEK)	ND	ug/kg	200
	Carbon disulfide	ND	ug/kg	20
	Carbon tetrachloride	ND	ug/kg	20
	Chlorodibromomethane	ND	ug/kg	20
	Chlorobenzene	ND	ug/kg	20
	Chloroethane (Ethyl chloride)	ND	ug/kg	50
	Chloroform	ND	ug/kg	20
	Chloromethane (Methyl chloride)	ND	ug/kg	50
	1,1-Dichloroethane	ND	ug/kg	20
	1,2-Dichloroethane	ND	ug/kg	20
	1,1-Dichloroethene	ND	ug/kg	20
	1,2-Dichloroethene (total)	ND	ug/kg	20
	1,2-Dichloropropane	ND	ug/kg	20
	cis-1,3-Dichloropropene	ND	ug/kg	20
	trans-1,3-Dichloropropene	ND	ug/kg	20
	Ethylbenzene	ND	ug/kg	20
	2-Hexanone	ND	ug/kg	50
	Dichloromethane	ND	ug/kg	20
	4-Methyl-2-pentanone (MIBK)	ND	ug/kg	50
	Styrene	ND	ug/kg	20
	1,1,2,2-Tetrachloroethane	ND	ug/kg	20
	Tetrachloroethene	ND	ug/kg	20
	Toluene	ND	ug/kg	20
	1,1,1-Trichloroethane	ND	ug/kg	20
	1,1,2-Trichloroethane	ND	ug/kg	20
	Trichloroethene	ND	ug/kg	20
	Vinyl chloride	ND	ug/kg	50
	Xylene (total)	ND	ug/kg	20
0893	Library Search, Semivolatiles	SEE ATTACHED		
1201E	Semivolatiles, TCL OLM01.8 List			
	Acenaphthene	ND	ug/kg	330
	Acenaphthylene	ND	ug/kg	330
	Anthracene	ND	ug/kg	330
	Benzo(a)anthracene	ND	ug/kg	330

Basin Engineering, Inc. GSA Group: 19574

Test	Analysis	Results as Received	Units	Limit of Quantitation
Sample:106509 - 02/07/96 - SS-5/6''				
1201E	Semivolatiles, TCL OLM01.8 List			
	Benzo(b)fluoranthene	ND	ug/kg	330
	Benzo(k)fluoranthene	ND	ug/kg	330
	Benzo(ghi)perylene	ND	ug/kg	330
	Benzo(a)pyrene	ND	ug/kg	330
	bis(2-Chloroethoxy)methane	ND	ug/kg	330
	bis(2-Chloroethyl)ether	ND	ug/kg	330
	bis(2-Ethylhexyl)phthalate	ND	ug/kg	330
	4-Bromophenyl-phenylether	ND	ug/kg	330
	Butylbenzyl phthalate	ND	ug/kg	330
	Carbazole	ND	ug/kg	330
	4-Chloroaniline	ND	ug/kg	330
	4-Chloro-3-methylphenol	ND	ug/kg	330
	2-Chloronaphthalene	ND	ug/kg	330
	2-Chlorophenol	ND	ug/kg	330
	4-Chlorophenyl-phenylether	ND	ug/kg	330
	Chrysene	ND	ug/kg	330
	o-Cresol (2-Methylphenol)	ND	ug/kg	330
	p-Cresol (4-Methylphenol)	ND	ug/kg	330
	Di-n-butyl phthalate	ND	ug/kg	330
	Dibenzo(a,h)anthracene	ND	ug/kg	330
	Dibenzofuran	ND	ug/kg	330
	1,2-Dichlorobenzene	ND	ug/kg	330
	1,3-Dichlorobenzene	ND	ug/kg	330
	1,4-Dichlorobenzene	ND	ug/kg	330
	3,3'-Dichlorobenzidine	ND	ug/kg	660
	2,2'-oxybis(1-Chloropropane)	ND	ug/kg	330
	2,4-Dichlorophenol	ND	ug/kg	330
	Diethylphthalate	ND	ug/kg	330
	2,4-Dimethylphenol	ND	ug/kg	330
	Dimethylphthalate	ND	ug/kg	330
	4,6-Dinitro-o-cresol	ND	ug/kg	1,600
	2,4-Dinitrophenol	ND	ug/kg	1,600
	2,4-Dinitrotoluene	ND	ug/kg	330
	2,6-Dinitrotoluene	ND	ug/kg	330
	Di-n-octyl phthalate	ND	ug/kg	330
	Fluoranthene	ND	ug/kg	330
	Fluorene	ND	ug/kg	330
	Hexachlorobenzene	ND	ug/kg	330
	Hexachlorocyclopentadiene	ND	ug/kg	330
	Hexachloroethane	ND	ug/kg	330
	Hexachloro-1,3-butadiene	ND	ug/kg	330
	Indeno(1,2,3-cd)pyrene	ND	ug/kg	330

Basin Engineering, Inc. GSA Group: 19574

Test	Analysis	Results as Received	Units	Limit of Quantitation
Sample:106509 - 02/07/96 - SS-5/6''				
1201E	Semivolatiles, TCL OLM01.8 List			
	Isophorone	ND	ug/kg	330
	2-Methylnaphthalene	378	ug/kg	330
	Naphthalene	ND	ug/kg	330
	2-Nitroaniline	ND	ug/kg	330
	3-Nitroaniline	ND	ug/kg	330
	4-Nitroaniline	ND	ug/kg	330
	Nitrobenzene	ND	ug/kg	330
	2-Nitrophenol	ND	ug/kg	330
	4-Nitrophenol	ND	ug/kg	1,600
	N-Nitrosodiphenylamine	ND	ug/kg	330
	N-Nitrosodi-n-propylamine	ND	ug/kg	330
	Pentachlorophenol	ND	ug/kg	1,600
	Phenanthrene	ND	ug/kg	330
	Phenol	ND	ug/kg	330
	Pyrene	ND	ug/kg	330
	1,2,4-Trichlorobenzene	ND	ug/kg	330
	2,4,5-Trichlorophenol	ND	ug/kg	330
	2,4,6-Trichlorophenol	ND	ug/kg	330
Sample:106510 - 02/07/96 - Trip Blank				
0922A	Volatiles, TCL OLM01.8 List			
	Acetone	ND	ug/l	10
	Benzene	ND	ug/l	5
	Bromodichloromethane	ND	ug/l	5
	Bromoform	ND	ug/l	5
	Bromomethane (Methyl bromide)	ND	ug/l	10
	2-Butanone (MEK)	ND	ug/l	50
	Carbon disulfide	ND	ug/l	5
	Carbon tetrachloride	ND	ug/l	5
	Chlorodibromomethane	ND	ug/l	5
	Chlorobenzene	ND	ug/l	5
	Chloroethane (Ethyl chloride)	ND	ug/l	10
	Chloroform	ND	ug/l	5
	Chloromethane (Methyl chloride)	ND	ug/l	10
	1,1-Dichloroethane	ND	ug/l	5
	1,2-Dichloroethane	ND	ug/l	5
	1,1-Dichloroethene	ND	ug/l	5
	1,2-Dichloroethene (total)	ND	ug/l	5
	1,2-Dichloropropane	ND	ug/l	5
	cis-1,3-Dichloropropene	ND	ug/l	5
	trans-1,3-Dichloropropene	ND	ug/l	5
	Ethylbenzene	ND	ug/l	5

ANALYSIS SUMMARY REPORT

Basin Engineering, Inc. GSA Group: 19574

Test	Analysis	Results as Received	Units	Limit of Quantitation
Sample:106510 - 02/07/96 - Trip Blank				
0922A	Volatiles, TCL OLM01.8 List			
	2-Hexanone	ND	ug/l	10
	Dichloromethane	ND	ug/l	5
	4-Methyl-2-pentanone (MIBK)	ND	ug/l	10
	Styrene	ND	ug/l	5
	1,1,2,2-Tetrachloroethane	ND	ug/l	5
	Tetrachloroethene	ND	ug/l	5
	Toluene	ND	ug/l	5
	1,1,1-Trichloroethane	ND	ug/l	5
	1,1,2-Trichloroethane	ND	ug/l	5
	Trichloroethene	ND	ug/l	5
	Vinyl chloride	ND	ug/l	10
	Xylene (total)	ND	ug/l	5

Test Method Summary:

0394 - SW-846 9045	0890 - SW-846 8240	0893 - SW-846 8270
0922A- SW-846 8240	1178A- SW-846 8240	1201E- SW-846 8270
41 - SW-846 8015 MOD	2736A- SW-846 8000	

ND - Compound was analyzed but not detected.

Respectfully Submitted,
Reviewed and Approved by:

Lisa R. Mayfield

Lisa R. Mayfield
Project Manager

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SS-14

Lab Name: GULF STATES ANALYTICAL Contract:

Lab Code: GSAI Case No.: SAS No.: SDG No.: 19574

Matrix: (soil/water) SOIL Lab Sample ID: 106503

Sample wt/vol: 5.0 (G/mL) G Lab File ID: V052I

Level: (low/med) LOW Date Received: 02/08/96

% Moisture: not dec. _____ Date Analyzed: 02/21/96

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	556-67-2	CYCLOTETRASILOXANE, OCTAMETH	15.02	28	NJ
2.		UNKNOWN	17.78	16	J
3.		UNKNOWN	18.12	17	J
4.	719-22-2	2,5-CYCLOHEXADIENE-1,4-DIONE	19.60	31	NJ
5.	483-77-2	NAPHTHALENE, 1,2,3,4-TETRAHY	20.56	7	NJ
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1F

EPA SAMPLE NO.

SS-1/4

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GULF STATES ANALYTICAL Contract:

Lab Code: GSAI Case No.: SAS No.: SDG No.: 19574

Matrix: (soil/water) SOIL Lab Sample ID: 106503

Sample wt/vol: 30.0 (g/mL) G Lab File ID: X051C

Level: (low/med) LOW Date Received: 02/08/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/12/96

Concentrated Extract Volume: 1(mL) Date Analyzed: 02/20/96

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 7

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	3.78	24	J
2.		UNKNOWN	5.92	360	J
3.		UNKNOWN ALDOL CONDENSATE	6.93	37000	J
4.		UNKNOWN ALDOL CONDENSATE	8.66	2100	J
5.		UNKNOWN	9.16	9	J
6.		UNKNOWN	10.81	10	J
7.		UNKNOWN	13.80	19	J
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SS-26

Lab Name: GULF STATES ANALYTICAL Contract:

Lab Code: GSAI Case No.: SAS No.: SDG No.: 19574

Matrix: (soil/water) SOIL Lab Sample ID: 106504

Sample wt/vol: 5.0 (G/mL) G Lab File ID: V052J

Level: (low/med) LOW Date Received: 02/08/96

% Moisture: not dec. _____ Date Analyzed: 02/21/96

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 24

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	556-67-2	CYCLOTETRASILOXANE, OCTAMETH	15.02	22	NJ
2.	124-18-5	DECANE	15.32	35	NJ
3.	95-63-6	BENZENE, 1,2,4-TRIMETHYL-	15.80	46	NJ
4.		UNKNOWN	16.21	42	J
5.		UNKNOWN AROMATIC HYDROCARBON	16.44	28	J
6.		UNKNOWN AROMATIC HYDROCARBON	16.87	52	J
7.	1120-21-4	UNDECANE	17.12	180	NJ
8.		UNKNOWN AROMATIC HYDROCARBON	17.33	40	J
9.		UNKNOWN AROMATIC HYDROCARBON	17.42	38	J
10.		UNKNOWN AROMATIC HYDROCARBON	17.63	29	J
11.		UNKNOWN	17.79	37	J
12.		UNKNOWN	18.06	170	J
13.		UNKNOWN	18.45	15	J
14.	112-40-3	DODECANE	18.68	130	NJ
15.	119-64-2	NAPHTHALENE, 1,2,3,4-TETRAHY	18.89	61	NJ
16.		UNKNOWN	19.09	12	J
17.		UNKNOWN AROMATIC HYDROCARBON	19.18	24	J
18.	91-20-3	NAPHTHALENE	19.48	34	NJ
19.		UNKNOWN	19.99	17	J
20.		UNKNOWN AROMATIC HYDROCARBON	20.15	33	J
21.		UNKNOWN AROMATIC HYDROCARBON	20.60	10	J
22.		UNKNOWN AROMATIC HYDROCARBON	20.95	14	J
23.		UNKNOWN	21.11	12	J
24.		UNKNOWN	21.31	16	J
25.					
26.					
27.					
28.					
29.					
30.					

1F

EPA SAMPLE NO.

SS-2/6

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GULF STATES ANALYTICAL Contract:

Lab Code: GSAI Case No.: SAS No.: SDG No.: 19574

Matrix: (soil/water) SOIL Lab Sample ID: 106504

Sample wt/vol: 30.0 (g/mL) G Lab File ID: X051D

Level: (low/med) LOW Date Received: 02/08/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/12/96

Concentrated Extract Volume: 1(mL) Date Analyzed: 02/20/96

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	5.92	400	J
2.		UNKNOWN ALDOL CONDENSATE	6.95	42000	J
3.		UNKNOWN ALDOL CONDENSATE	8.66	2500	J
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SS-31

Lab Name: GULF STATES ANALYTICAL Contract:

Lab Code: GSAI Case No.: SAS No.: SDG No.: 19574

Matrix: (soil/water) SOIL Lab Sample ID: 106507

Sample wt/vol: 5.0 (G/mL) G Lab File ID: V052M

Level: (low/med) LOW Date Received: 02/08/96

% Moisture: not dec. _____ Date Analyzed: 02/21/96

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 8

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	556-67-2	CYCLOTETRASILOXANE, OCTAMETH	15.03	30	NJ
2.		UNKNOWN	16.30	40	J
3.		UNKNOWN	17.10	36	J
4.		UNKNOWN	17.79	26	J
5.		UNKNOWN	18.24	180	J
6.	719-22-2	2,5-CYCLOHEXADIENE-1,4-DIONE	19.66	14	NJ
7.		UNKNOWN	19.98	10	J
8.	483-77-2	NAPHTHALENE, 1,2,3,4-TETRAHY	20.64	17	NJ
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SS-3/1

Lab Name: GULF STATES ANALYTICAL Contract:

Lab Code: GSAI Case No.: SAS No.: SDG No.: 19574

Matrix: (soil/water) SOIL Lab Sample ID: 106507

Sample wt/vol: 30.0 (g/mL) G Lab File ID: X051F

Level: (low/med) LOW Date Received: 02/08/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/12/96

Concentrated Extract Volume: 1(mL) Date Analyzed: 02/20/96

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	5.93	570	J
2.		UNKNOWN ALDOL CONDENSATE	6.97	44000	J
3.		UNKNOWN ALDOL CONDENSATE	8.68	2600	J
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SS-46

Lab Name: GULF STATES ANALYTICAL Contract:

Lab Code: GSAI Case No.: SAS No.: SDG No.: 19574

Matrix: (soil/water) SOIL Lab Sample ID: 106508

Sample wt/vol: 1.0 (G/mL) G Lab File ID: V052N

Level: (low/med) LOW Date Received: 02/08/96

% Moisture: not dec. _____ Date Analyzed: 02/21/96

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 5.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 30

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	541-05-9	CYCLOTRISILOXANE, HEXAMETHYL	11.56	73	NJ
2.	2216-34-4	OCTANE, 4-METHYL-	12.56	48	NJ
3.	111-84-2	NONANE	13.33	76	NJ
4.		UNKNOWN ALKANE	13.72	180	J
5.		UNKNOWN ALKANE	13.88	130	J
6.	2051-30-1	OCTANE, 2,6-DIMETHYL-	14.06	180	NJ
7.		UNKNOWN CYCLOALKANE	14.20	330	J
8.	5911-04-6	NONANE, 3-METHYL-	14.82	750	NJ
9.	556-67-2	CYCLOTETRASILOXANE, OCTAMETH	15.02	510	NJ
10.	124-18-5	DECANE	15.34	3500	NJ
11.		UNKNOWN ALKANE	15.64	830	J
12.	2847-72-5	DECANE, 4-METHYL-	15.78	1300	NJ
13.		UNKNOWN ALKANE	15.89	580	J
14.		UNKNOWN ALKANE	16.03	620	J
15.		UNKNOWN CYCLOALKANE	16.19	570	J
16.		UNKNOWN ALKANE	16.51	5500	J
17.	13151-34-3	DECANE, 3-METHYL-	16.67	2400	NJ
18.		UNKNOWN AROMATIC HYDROCARBON	16.90	1600	J
19.	1120-21-4	UNDECANE	17.18	10000	NJ
20.		UNKNOWN	17.45	4000	J
21.		UNKNOWN AROMATIC HYDROCARBON	17.66	910	J
22.		UNKNOWN CYCLOALKANE	18.00	2500	J
23.		UNKNOWN ALKANE	18.18	7000	J
24.		UNKNOWN	18.32	3000	J
25.	112-40-3	DODECANE	18.73	8700	NJ
26.		UNKNOWN ALKANE	18.94	4500	J
27.		UNKNOWN CYCLOALKANE	19.49	2600	J
28.	629-50-5	TRIDECANE	20.06	1300	NJ
29.	1075-22-5	INDAN, 5,6-DIMETHYL-	20.36	750	NJ
30.		UNKNOWN	20.91	180	J

1F

EPA SAMPLE NO.

SS-4/6

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GULF STATES ANALYTICAL Contract:

Lab Code: GSAI Case No.: SAS No.: SDG No.: 19574

Matrix: (soil/water) SOIL Lab Sample ID: 106508

Sample wt/vol: 30.0 (g/mL) G Lab File ID: X051G

Level: (low/med) LOW Date Received: 02/08/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/12/96

Concentrated Extract Volume: 1(mL) Date Analyzed: 02/20/96

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 27

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	5.31	5900	J
2.		UNKNOWN	5.87	2200	J
3.		UNKNOWN ALDOL CONDENSATE	6.91	77000	J
4.		UNKNOWN OXYGENATE	8.64	4400	J
5.		UNKNOWN ALKANE	9.53	360	J
6.		UNKNOWN ALKANE	9.67	660	J
7.		UNKNOWN ALKANE	9.88	1100	J
8.	124-18-5	DECANE	10.49	6300	NJ
9.		UNKNOWN ALKANE	10.93	1100	J
10.	1074-43-7	BENZENE, 1-METHYL-3-PROPYL-	11.48	1200	NJ
11.		UNKNOWN ALKANE	11.71	2700	J
12.	1120-21-4	UNDECANE	12.38	24000	NJ
13.		UNKNOWN ALKANE	17.92	350	J
14.		UNKNOWN	18.80	290	J
15.		UNKNOWN	18.94	240	J
16.	829-26-5	NAPHTHALENE, 2,3,6-TRIMETHYL	19.02	300	NJ
17.		UNKNOWN	20.20	680	J
18.		UNKNOWN ALKANE	20.27	570	J
19.		UNKNOWN ALKANE	20.37	430	J
20.	86-55-5	1-NAPHTHALENECARBOXYLIC ACID	20.61	1200	NJ
21.	629-78-7	HEPTADECANE	20.73	2600	NJ
22.		UNKNOWN ALKANE	20.82	720	J
23.		UNKNOWN ALKANE	21.28	390	J
24.	593-45-3	OCTADECANE	21.97	990	NJ
25.		UNKNOWN ALKANE	22.10	450	J
26.		UNKNOWN ALKANE	23.21	570	J
27.		UNKNOWN	24.39	330	J
28.					
29.					
30.					

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SS-4/6DL

Lab Name: GULF STATES ANALYTICAL Contract:

Lab Code: GSAI Case No.: SAS No.: SDG No.: 19574

Matrix: (soil/water) SOIL Lab Sample ID: 106508DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: X052D

Level: (low/med) LOW Date Received: 02/08/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/12/96

Concentrated Extract Volume: 1(mL) Date Analyzed: 02/21/96

Injection Volume: _____(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 60

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN ALDOL CONDENSATE	6.63	63000	JD
2.		UNKNOWN ALDOL CONDENSATE	8.58	3600	JD
3.		UNKNOWN	9.71	1100	JD
4.		UNKNOWN ALKANE	9.86	1200	JD
5.	124-18-5	DECANE	10.47	9100	NJD
6.		UNKNOWN	10.75	2000	JD
7.		UNKNOWN ALKANE	10.91	5200	JD
8.		UNKNOWN ALKANE	11.01	1800	JD
9.		UNKNOWN ALKANE	11.14	1300	JD
10.		UNKNOWN ALKANE	11.22	3000	JD
11.		UNKNOWN ALKANE	11.46	5300	JD
12.		UNKNOWN AROMATIC HYDROCARBON	11.58	6800	JD
13.		UNKNOWN	11.62	5900	JD
14.		UNKNOWN ALKANE	11.69	13000	JD
15.		UNKNOWN ALKANE	11.81	10000	JD
16.	1120-21-4	UNDECANE	12.38	24000	NJD
17.		UNKNOWN ALKANE	12.62	7200	JD
18.		UNKNOWN CYCLOALKANE	12.93	5200	JD
19.	2050-24-0	BENZENE, 1,3-DIETHYL-5-METHY	13.09	2000	NJD
20.		UNKNOWN ALKANE	13.46	15000	JD
21.	112-40-3	DODECANE	14.13	56000	NJD
22.		UNKNOWN ALKANE	14.27	17000	JD
23.		UNKNOWN CYCLOALKANE	14.66	9600	JD
24.		UNKNOWN ALKANE	14.89	29000	JD
25.		UNKNOWN ALKANE	15.17	26000	JD
26.	629-50-5	TRIDECANE	15.66	49000	NJD
27.		UNKNOWN	15.72	7200	JD
28.		UNKNOWN ALKANE	15.80	8500	JD
29.	64394-35-0	(2,3,4-TRIMETHYLPHENYL)-2-PR	15.91	7500	NJD
30.		UNKNOWN ALKANE	15.99	12000	JD

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SS-4/6DL

Lab Name: GULF STATES ANALYTICAL Contract:

Lab Code: GSAI Case No.: SAS No.: SDG No.: 19574

Matrix: (soil/water) SOIL Lab Sample ID: 106508DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: X052D

Level: (low/med) LOW Date Received: 02/08/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/12/96

Concentrated Extract Volume: 1(mL) Date Analyzed: 02/21/96

Injection Volume: _____(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 60

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	4292-75-5	CYCLOHEXANE, HEXYL-	16.15	18000	NJD
2.		UNKNOWN ALKANE	16.34	8700	JD
3.		UNKNOWN ALKANE	16.40	18000	JD
4.		UNKNOWN ALKANE	16.50	15000	JD
5.		UNKNOWN ALKANE	16.58	30000	JD
6.		UNKNOWN	16.70	1800	JD
7.		UNKNOWN HYDROCARBON	16.77	2800	JD
8.	629-59-4	TETRADECANE	16.95	62000	NJD
9.		DIMETHYLNAPHTHALENE ISOMER	17.03	23000	JD
10.		UNKNOWN	17.13	2200	JD
11.		DIMETHYLNAPHTHALENE ISOMER	17.26	29000	JD
12.		UNKNOWN ALKANE	17.52	26000	JD
13.		UNKNOWN ALKANE	17.60	7800	JD
14.		UNKNOWN ALKANE	17.66	17000	JD
15.		UNKNOWN ALKANE	17.77	8700	JD
16.		UNKNOWN ALKANE	17.87	4200	JD
17.	629-62-9	PENTADECANE	18.16	34000	NJD
18.		METHYLETHYLNAPHTHALENE ISOME	18.32	3700	JD
19.		UNKNOWN ALKANE	18.48	910	JD
20.		UNKNOWN HYDROCARBON	18.71	2900	JD
21.		UNKNOWN ALKANE	18.93	4600	JD
22.		UNKNOWN ALKANE	19.03	1800	JD
23.		TRIMETHYLNAPHTHALENE ISOMER	19.09	1300	JD
24.	544-76-3	HEXADECANE	19.42	9600	NJD
25.		UNKNOWN	20.15	820	JD
26.	86-55-5	1-NAPHTHALENECARBOXYLIC ACID	20.56	700	NJD
27.	629-78-7	HEPTADECANE	20.70	3800	NJD
28.		UNKNOWN ALKANE	20.76	990	JD
29.		UNKNOWN ALKANE	21.96	1200	JD
30.		UNKNOWN ALKANE	23.18	720	JD

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SS-56

Lab Name: GULF STATES ANALYTICAL Contract:

Lab Code: GSAI Case No.: SAS No.: SDG No.: 19574

Matrix: (soil/water) SOIL Lab Sample ID: 106509

Sample wt/vol: 1.0 (G/mL) G Lab File ID: V0520

Level: (low/med) LOW Date Received: 02/08/96

% Moisture: not dec. _____ Date Analyzed: 02/21/96

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 5.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 14

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	556-67-2	CYCLOTETRASILOXANE, OCTAMETH	15.02	420	NJ
2.	1120-21-4	UNDECANE	17.12	450	NJ
3.		UNKNOWN ALKANE	17.42	170	J
4.	3789-85-3	BENZOIC ACID, 2-[(TRIMETHYLS	17.78	230	NJ
5.		UNKNOWN ALKANE	18.03	410	J
6.		UNKNOWN ALKANE	18.15	650	J
7.		UNKNOWN ALKANE	18.26	380	J
8.	112-40-3	DODECANE	18.68	2200	NJ
9.		UNKNOWN ALKANE	18.90	1400	J
10.		UNKNOWN CYCLOALKANE	19.48	1400	J
11.		UNKNOWN ALKANE	19.68	1300	J
12.	629-50-5	TRIDECANE	20.07	2000	NJ
13.		UNKNOWN	20.35	560	J
14.		UNKNOWN	20.81	120	J
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1F

EPA SAMPLE NO.

SS-5/6

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GULF STATES ANALYTICAL Contract:

Lab Code: GSAI Case No.: SAS No.: SDG No.: 19574

Matrix: (soil/water) SOIL Lab Sample ID: 106509

Sample wt/vol: 30.0 (g/mL) G Lab File ID: X051H

Level: (low/med) LOW Date Received: 02/08/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/12/96

Concentrated Extract Volume: 1(mL) Date Analyzed: 02/20/96

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 70

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	5.16	1700	J
2.	108-21-4	ACETIC ACID, 1-METHYLETHYL E	6.06	1300	NJ
3.		UNKNOWN ALDOL CONDENSATE	6.99	50000	J
4.		UNKNOWN ALDOL CONDENSATE	8.68	2500	J
5.	1120-21-4	UNDECANE	12.33	480	NJ
6.		UNKNOWN ALKANE	12.62	150	J
7.		UNKNOWN ALKANE	12.72	86	J
8.		UNKNOWN ALKANE	12.80	220	J
9.		UNKNOWN ALKANE	12.90	220	J
10.		UNKNOWN	13.00	62	J
11.		UNKNOWN AROMATIC HYDROCARBON	13.09	120	J
12.		UNKNOWN	13.17	160	J
13.		UNKNOWN ALKANE	13.25	790	J
14.		UNKNOWN ALKANE	13.33	540	J
15.		UNKNOWN ALKANE	13.39	1100	J
16.		UNKNOWN ALKANE	13.49	750	J
17.	112-40-3	DODECANE	14.00	6500	NJ
18.		UNKNOWN ALKANE	14.18	3700	J
19.		UNKNOWN ALKANE	14.47	640	J
20.		UNKNOWN CYCLOALKANE	14.57	1200	J
21.		UNKNOWN ALKANE	14.78	3500	J
22.		UNKNOWN	14.86	830	J
23.		UNKNOWN ALKANE	14.94	3000	J
24.		UNKNOWN ALKANE	15.06	5100	J
25.	629-50-5	TRIDECANE	15.51	11000	J
26.		UNKNOWN ALKANE	15.61	1600	J
27.		UNKNOWN ALKANE	15.71	2800	J
28.		UNKNOWN ALKANE	15.84	1300	J
29.		UNKNOWN ALKANE	15.92	1500	J
30.		UNKNOWN CYCLOALKANE	16.08	2100	J

1F

EPA SAMPLE NO.

SS-5/6

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GULF STATES ANALYTICAL Contract:

Lab Code: GSAI Case No.: SAS No.: SDG No.: 19574

Matrix: (soil/water) SOIL Lab Sample ID: 106509

Sample wt/vol: 30.0 (g/mL) G Lab File ID: X051H

Level: (low/med) LOW Date Received: 02/08/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/12/96

Concentrated Extract Volume: 1(mL) Date Analyzed: 02/20/96

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 70

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN ALKANE	16.14	5000	J
2.		UNKNOWN ALKANE	16.27	2000	J
3.	1560-96-9	TRIDECANE, 2-METHYL-	16.33	3100	NJ
4.		UNKNOWN ALKANE	16.51	2400	J
5.	629-59-4	TETRADECANE	16.86	10000	NJ
6.		UNKNOWN ALKANE	16.96	1800	J
7.		UNKNOWN	17.08	520	J
8.		UNKNOWN ALKANE	17.45	3600	J
9.		UNKNOWN ALKANE	17.57	1300	J
10.		UNKNOWN ALKANE	17.63	3000	J
11.		UNKNOWN ALKANE	17.74	1400	J
12.	629-62-9	PENTADECANE	18.14	4500	NJ
13.		UNKNOWN	18.23	260	J
14.		TRIMETHYLNAPHTHALENE ISOMER	18.65	140	J
15.		UNKNOWN ALKANE	18.71	530	J
16.		UNKNOWN ALKANE	18.94	590	J
17.		UNKNOWN ALKANE	19.04	240	J
18.		TRIMETHYLNAPHTHALENE ISOMER	19.10	98	J
19.		UNKNOWN	19.53	110	J
20.		UNKNOWN	20.18	240	J
21.	544-76-3	HEXADECANE	20.24	160	NJ
22.		UNKNOWN ALKANE	20.34	110	J
23.	629-78-7	HEPTADECANE	20.71	1100	NJ
24.		UNKNOWN ALKANE	20.79	520	J
25.		UNKNOWN ALKANE	21.28	180	J
26.		UNKNOWN	21.38	110	J
27.		UNKNOWN CYCLOALKANE	21.52	160	J
28.		UNKNOWN	21.62	55	J
29.		UNKNOWN ALKANE	21.99	830	J
30.		UNKNOWN ALKANE	22.11	380	J

1F

EPA SAMPLE NO.

SS-5/6

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GULF STATES ANALYTICAL Contract:

Lab Code: GSAI Case No.: SAS No.: SDG No.: 19574

Matrix: (soil/water) SOIL Lab Sample ID: 106509

Sample wt/vol: 30.0 (g/mL) G Lab File ID: X051H

Level: (low/med) LOW Date Received: 02/08/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/12/96

Concentrated Extract Volume: 1(mL) Date Analyzed: 02/20/96

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 70

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN ALKANE	22.50	96	J
2.		UNKNOWN	22.70	55	J
3.		UNKNOWN ALKANE	22.76	99	J
4.		UNKNOWN ALKANE	23.13	110	J
5.	629-92-5	NONADECANE	23.21	760	NJ
6.		UNKNOWN	23.90	100	J
7.	112-95-8	EICOSANE	24.39	700	NJ
8.		UNKNOWN ALKANE	25.55	660	J
9.		UNKNOWN ALKANE	27.70	450	J
10.		UNKNOWN ALKANE	28.72	410	J
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

TP-32.5

Lab Name: GULF STATES ANALYTICAL Contract:

Lab Code: GSAI Case No.: SAS No.: SDG No.: 19574

Matrix: (soil/water) SOIL Lab Sample ID: 106501

Sample wt/vol: 5.0 (G/mL) G Lab File ID: V052P

Level: (low/med) LOW Date Received: 02/08/96

% Moisture: not dec. _____ Date Analyzed: 02/21/96

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	556-67-2	CYCLOTETRASILOXANE, OCTAMETH	15.02	21	NJ
2.	1120-21-4	UNDECANE	17.12	12	NJ
3.		UNKNOWN	17.79	36	J
4.		UNKNOWN ALKANE	18.27	6	J
5.	112-40-3	DODECANE	18.68	23	NJ
6.		UNKNOWN ALKANE	18.90	7	J
7.		UNKNOWN CYCLOALKANE	19.45	9	J
8.		UNKNOWN ALKANE	19.68	6	J
9.	629-50-5	TRIDECANE	20.07	11	NJ
10.		UNKNOWN	20.28	37	J
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TP-3/2.5

Lab Name: GULF STATES ANALYTICAL Contract:

Lab Code: GSAI Case No.: SAS No.: SDG No.: 19574

Matrix: (soil/water) SOIL Lab Sample ID: 106501

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S049H

Level: (low/med) LOW Date Received: 02/08/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/12/96

Concentrated Extract Volume: 1(mL) Date Analyzed: 02/19/96

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	6.02	1292	J
2.		UNKNOWN ALDOL CONDENSATE	6.99	41720	J
3.		UNKNOWN ALDOL CONDENSATE	8.72	2399	J
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TP-48.0

Lab Name: GULF STATES ANALYTICAL Contract:

Lab Code: GSAI Case No.: SAS No.: SDG No.: 19574

Matrix: (soil/water) SOIL Lab Sample ID: 106502

Sample wt/vol: 5.0 (G/mL) G Lab File ID: V052H

Level: (low/med) LOW Date Received: 02/08/96

% Moisture: not dec. _____ Date Analyzed: 02/21/96

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

TP-4/8.0

Lab Name: GULF STATES ANALYTICAL Contract:

Lab Code: GSAI Case No.: SAS No.: SDG No.: 19574

Matrix: (soil/water) SOIL Lab Sample ID: 106502

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S049I

Level: (low/med) LOW Date Received: 02/08/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/12/96

Concentrated Extract Volume: 1(mL) Date Analyzed: 02/19/96

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	6.12	1438	J
2.		UNKNOWN ALDOL CONDENSATE	7.02	45490	J
3.		UNKNOWN ALDOL CONDENSATE	8.72	2686	J
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TP-51

Lab Name: GULF STATES ANALYTICAL Contract:

Lab Code: GSAI Case No.: SAS No.: SDG No.: 19574

Matrix: (soil/water) SOIL Lab Sample ID: 106505

Sample wt/vol: 5.0 (G/mL) G Lab File ID: V052Q

Level: (low/med) LOW Date Received: 02/08/96

% Moisture: not dec. _____ Date Analyzed: 02/21/96

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 8

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	556-67-2	CYCLOTETRASILOXANE, OCTAMETH	15.02	12	NJ
2.	3789-85-3	BENZOIC ACID, 2-[(TRIMETHYLS	17.78	24	NJ
3.	112-40-3	DODECANE	18.67	12	NJ
4.		UNKNOWN	18.99	8	J
5.		UNKNOWN CYCLOALKANE	19.47	6	J
6.	719-22-2	2,5-CYCLOHEXADIENE-1,4-DIONE	19.65	26	NJ
7.	629-50-5	TRIDECANE	20.06	7	NJ
8.		UNKNOWN	20.27	35	J
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

TP-5/1

Lab Name: GULF STATES ANALYTICAL Contract:

Lab Code: GSAI Case No.: SAS No.: SDG No.: 19574

Matrix: (soil/water) SOIL Lab Sample ID: 106505

Sample wt/vol: 30.0 (g/mL) G Lab File ID: X051E

Level: (low/med) LOW Date Received: 02/08/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/12/96

Concentrated Extract Volume: 1(mL) Date Analyzed: 02/20/96

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	5.98	680	J
2.		UNKNOWN ALDOL CONDENSATE	6.99	42000	J
3.		UNKNOWN ALDOL CONDENSATE	8.68	2600	J
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TP-52

Lab Name: GULF STATES ANALYTICAL Contract:

Lab Code: GSAI Case No.: SAS No.: SDG No.: 19574

Matrix: (soil/water) SOIL Lab Sample ID: 106506

Sample wt/vol: 5.0 (G/mL) G Lab File ID: V052L

Level: (low/med) LOW Date Received: 02/08/96

% Moisture: not dec. _____ Date Analyzed: 02/21/96

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	556-67-2	CYCLOTETRASILOXANE, OCTAMETH	15.02	120	NJ
2.		UNKNOWN	16.28	32	J
3.		UNKNOWN	17.10	28	J
4.		UNKNOWN	17.79	160	J
5.		UNKNOWN	18.24	170	J
6.	483-77-2	NAPHTHALENE, 1,2,3,4-TETRAHY	20.62	17	NJ
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

TP-5/2

Lab Name: GULF STATES ANALYTICAL Contract:

Lab Code: GSAI Case No.: SAS No.: SDG No.: 19574

Matrix: (soil/water) SOIL Lab Sample ID: 106506

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S049E

Level: (low/med) LOW Date Received: 02/08/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted:02/12/96

Concentrated Extract Volume: 1(mL) Date Analyzed: 02/19/96

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN ALDOL CONDENSATE	6.98	41910	J
2.		UNKNOWN ALDOL CONDENSATE	8.70	2680	J
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIP BLANK

Lab Name: GULF STATES ANALYTICAL Contract:

Lab Code: GSAI Case No.: SAS No.: SDG No.: 19574

Matrix: (soil/water) WATER Lab Sample ID: 106510

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: B051F

Level: (low/med) LOW Date Received: 02/08/96

% Moisture: not dec. _____ Date Analyzed: 02/20/96

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	16.80	7	J
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

GW-098
RECEIVED
NOV 21 1996
Environmental Bureau
Oil Conservation Division

GENERAL NOTES

1. THE GOVERNING CODE IS THE UNIFORM BUILDING CODE, 199[illegible] EDITION.

2. MINIMUM DESIGN LIVE LOADS SHALL BE:
   - 90,000 LB - MAXIMUM GROSS VEHICLE WEIGHT
   - 62.4 PCF - CONTAINMENT FLUID PRESSURE
   - 35 PCF - EQUIVALENT BACKFILL FLUID PRESSURE
   - SEISMIC ZONE [illegible] REQUIREMENTS

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION OF THE STRUCTURE, ORIENTATION, BENCH MARKS, REFERENCE ELEVATIONS, LINES AND GRADES.

4. FOUNDATION DESIGN IS BASED UPON A MAXIMUM ASSUMED SOIL BEARING CAPACITY OF 2000 PSF. SOIL BEARING MATERIALS ARE ANTICIPATED TO CONSIST OF NATIVE SILTY SANDS WITH SOME INTERSPERSED GRAVEL AND/OR COBBLE ROCK. IT IS RECOMMENDED THAT TWO FEET (2'-0") OF THE EXISTING "SURFACE SOIL" BE REMOVED AND THE EXPOSED SURFACE "PROOF ROLLED" TO DISCLOSE ANY OBVIOUS "SOFT SPOTS" OR AREAS OF POTENTIAL CONSOLIDATION. STOCKPILED SOIL SHOULD THEN BE MOISTENED WITHIN THREE PERCENT (3%) OF OPTIMUM AND REPLACED IN SIX INCH (6") LIFTS, COMPACTED TO AT LEAST 9[illegible]% OF THE MODIFIED PROCTOR DENSITY ACCORDING TO ASTM D-1557. A GEOTECHNICAL ENGINEER SHOULD BE CONSULTED IF FIELD DENSITY TESTS CONSISTENTLY FAIL TO ACHIEVE THE SPECIFIED COMPACTION. AT LEAST EIGHT INCHES (8") OF AGGREGATE BASE COURSE SHALL BE PROVIDED BENEATH THE CONCRETE SLAB AND SHALL ALSO BE COMPACTED TO AT LEAST 95% OF MODIFIED PROCTOR DENSITY.

5. SITE DRAINAGE OF SURFACE MOISTURE SHALL PROVIDE A POSITIVE SLOPE OF FINISH GRADE AWAY FROM ALL SIDES OF THE PERIMETER OF THE CONTAINMENT SLAB. WHEREVER SITE DRAINAGE CANNOT BE EASILY ATTAINED, BACKSLOPING AND/OR PAVING ARE RECOMMENDED.

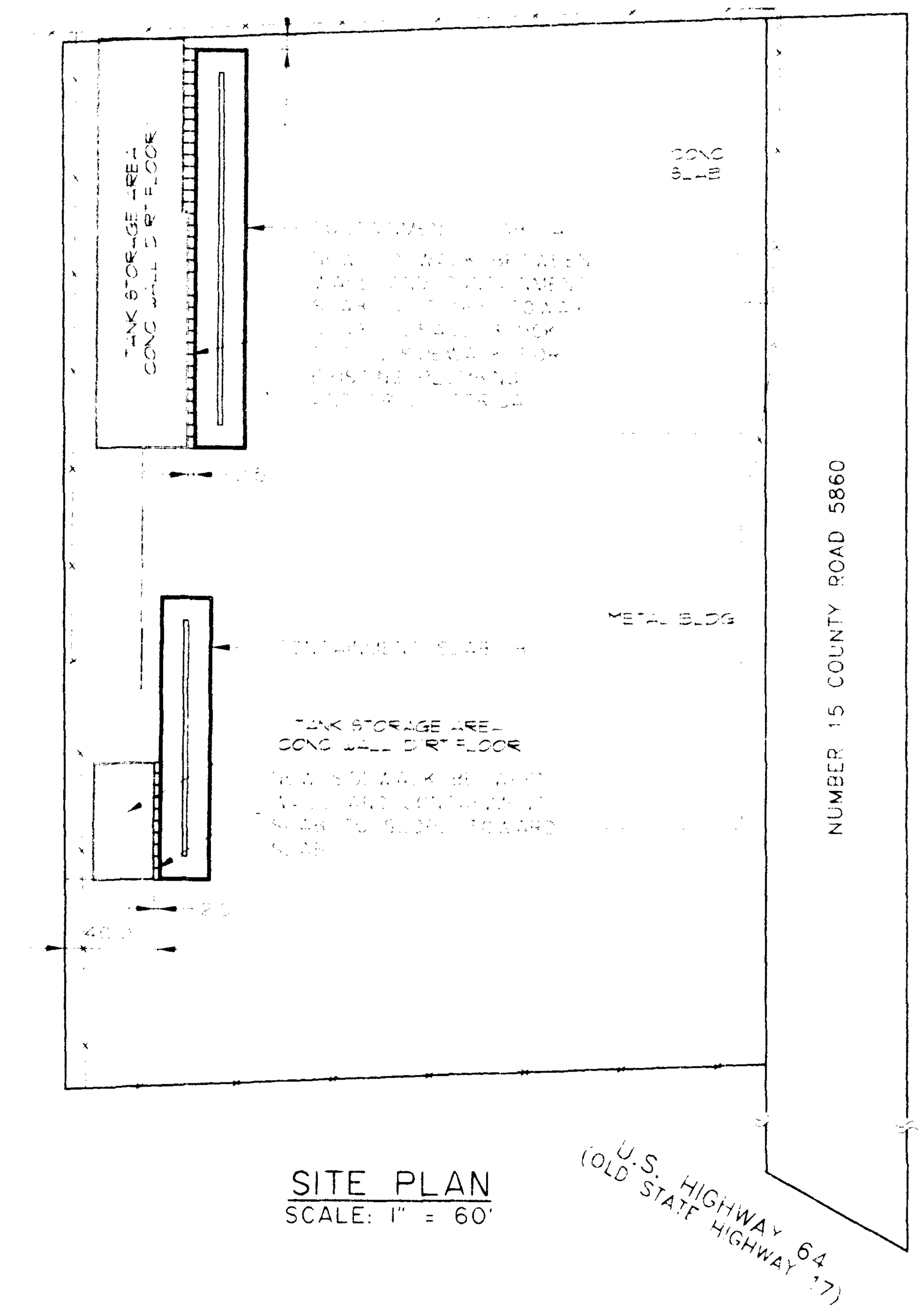
6. SITE-CAST CONCRETE SHALL BE MADE WITH TYPE [illegible] (ALKALI RESISTIVE) CEMENT AND SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI WITHIN 28 DAYS. THE MIX DESIGN SHALL INCLUDE 5% (±1%) AIR ENTRAINMENT AND SHALL BE PLACED AND CURED IN ACCORDANCE WITH THE ACI MANUAL OF CONCRETE PRACTICE, VOLUMES [illegible] THRU 5. SLUMP AT THE TIME OF PLACEMENT SHALL NOT EXCEED FOUR INCHES (4"), AND MECHANICAL VIBRATION SHALL BE EMPLOYED FOR CONSOLIDATION TO ELIMINATE VOIDS AND HONEYCOMBING. USE OF "SUPER PLASTICIZER" ADMIXTURES IS NOT RECOMMENDED.

7. CHLORIDE SALTS (ESPECIALLY CALCIUM CHLORIDE) SHALL NOT BE USED TO ACCELERATE HARDENING OF THE CONCRETE. NO ADMIXTURES SHALL BE INCORPORATED IN THE CONCRETE MIX DESIGN WITHOUT THE KNOWLEDGE AND APPROVAL OF THE ENGINEER.

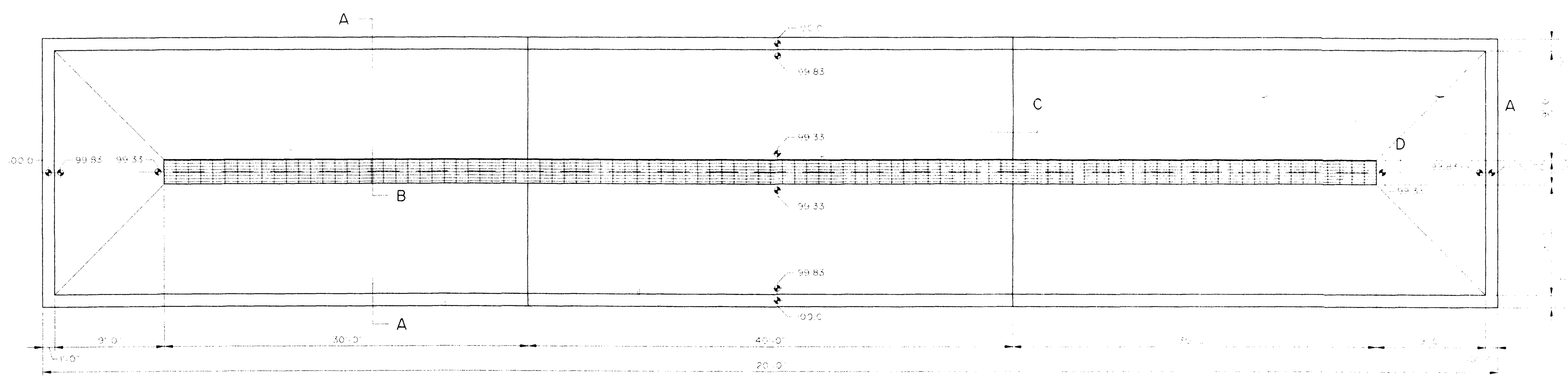
8. CONCRETE REINFORCING STEEL SHALL BE ASTM A 615 BILLET BARS, GRADE 40, AS DETAILED. LAP BARS AT LEAST THIRTY (30) BAR DIAMETERS AT SPLICES AND PROVIDE CORNER BARS TO MATCH ALL HORIZONTAL REINFORCING.

9. UNLESS SPECIFICALLY WAIVED BY THE ENGINEER, CERTIFICATION BY TESTING SHALL BE REQUIRED FOR ALL SITE FABRICATED MATERIALS INCLUDING COMPACTED FILL MATERIALS AND SITE CAST CONCRETE. FREQUENCY FOR TESTING SHALL BE ADEQUATE TO CERTIFY EACH CONSTRUCTION OPERATION AS DEFINED BY THE DRAWINGS AND GENERAL NOTES. PAYMENT FOR TESTING SHALL BE BY THE OWNER EXCEPT THAT PAYMENT FOR TEST RESULTS WHICH DO NOT SATISFY MINIMUM REQUIREMENTS SHALL BE REIMBURSED BY THE CONTRACTOR.

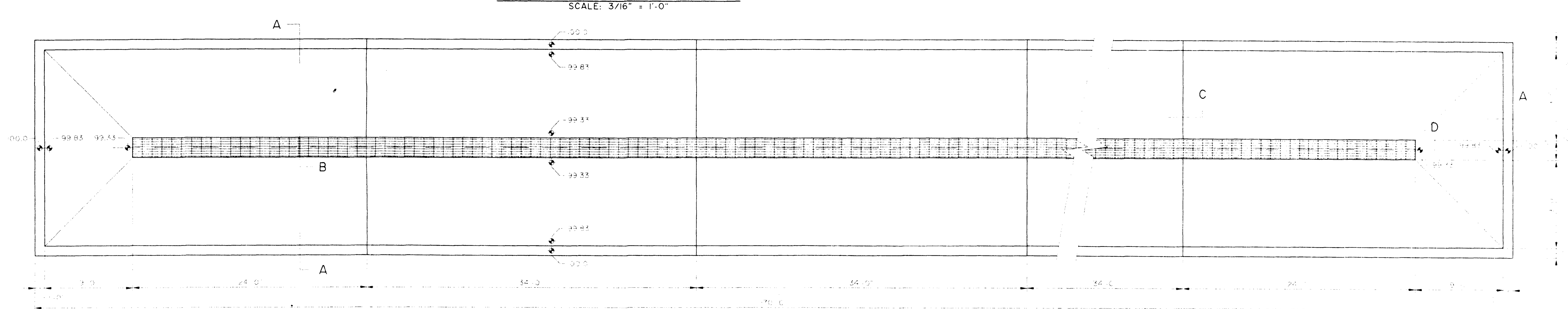
10. THESE DRAWINGS HAVE BEEN REVIEWED FOR COMPLIANCE WITH BUILDING CODE REQUIREMENTS AFFECTING THE SAFETY AND STABILITY OF THE STRUCTURE. THE ENGINEER SHALL CONDUCT REGULAR INSPECTIONS DURING CONSTRUCTION TO ASSURE AGAINST INADVERTENT DEVIATIONS WHICH COULD AFFECT THE STABILITY, SERVICEABILITY, OR SAFETY OF THE STRUCTURE. THE ENGINEER ASSUMES NO LIABILITY FOR ALTERNATES OR SUBSTITUTIONS EMPLOYED DURING CONSTRUCTION UNLESS DOCUMENTED BY PRIOR WRITTEN APPROVAL. ENGINEERING SERVICES DO NOT INCLUDE VERIFICATION OF EXISTING UTILITIES, OR SITING OF THE STRUCTURE. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND LICENSES AND ALL WORK SHALL BE INSPECTED AND APPROVED BY THE BUILDING AUTHORITY.



SITE PLAN
SCALE: 1" = 60'



PLAN AT CONTAINMENT SLAB "B"
SCALE: 3/16" = 1'-0"



PLAN AT CONTAINMENT SLAB "A"
SCALE: 3/16" = 1'-0"

NOV 18, 1996

GARY L. GRAHAM, P.E.
5200 VILLA VIEW DRIVE, 16A
FARMINGTON, NEW MEXICO 87402

PLAN AND STRUCTURAL NOTES
2 TRUCK LOADING SLABS W/CONTAINMENT
WESKEM-HALL, INC.
#15 COUNTY ROAD 5860, FARMINGTON, NM

SCALE: AS NOTED
DRAWN BY: LEWIS HARE
PROJECT NO.
REVISIONS:

SHEET 1 OF 2

SECTION "A"
SCALE: 3/4" = 1'-0"

SECTION "B"
SCALE: 1/2" = 1'-0"

SECTION "C"
SCALE: 1" = 1'-0"

SECTION "D"
SCALE: 1/2" = 1'-0"

6W-098
RECEIVED
NOV 2 1 1996

NOV 18, 1996

CARL L. GRAHAM P.E.
5200 VILLA VIEW DRIVE 16A
FARMINGTON, NEW MEXICO 87402

Barry L. Burk 11-18-96

STRUCTURAL DETAILS
2 TRUCK LOADING SLABS W/CONTAINMENT
WESKEM-HALL, INC.
#15 COUNTY ROAD 5860, FARMINGTON, NM

SCALE: AS NOTED
DRAWN BY: LEWIS HARE
PROJECT NO.
REVISIONS:

SHEET 2 OF 2