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REPORTS

DATE:

Aug. 1993

**EMERGENCY SPILL RESPONSE & CLEAN-UP
PETROLEUM HYDROCARBON SPILL
GARY ENERGY TRANSPORTATION
6 MILES SOUTH OF CHROMO, COLORADO, U.S. HWY 84
(N) SEC 24, T32N, R1E, RIO ARRIBA COUNTY, NEW MEXICO**

**COMMISSIONED BY
MR. DALE WRIGHT
TRUCKING SUPERVISOR
GARY ENERGY TRANSPORTATION**

PROJECT NO: 93178

AUGUST 1993

**ENVIROTECH INC.
Environmental Scientists & Engineers
5796 U.S. Highway 64-3014
Farmington, New Mexico**

(505) 632-0615

**EMERGENCY SPILL RESPONSE & CLEAN-UP
PETROLEUM HYDROCARBON SPILL
GARY ENERGY TRANSPORTATION
6 MILES SOUTH OF CHROMO, COLORADO, U.S. HWY 84
(N) SEC 24, T32N, R1E, RIO ARRIBA COUNTY, NEW MEXICO**

PROJECT NO: 93178

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AUGUST 30, 1993

PROJECT NO: 93178

**EMERGENCY SPILL RESPONSE & CLEAN-UP
PETROLEUM HYDROCARBON SPILL
GARY ENERGY TRANSPORTATION
6 MILES SOUTH OF CHROMO, COLORADO, U.S. HWY 84
(N) SEC 24, T32N, R1E, RIO ARriba COUNTY, NEW MEXICO**

INTRODUCTION

Envirotech Inc. has been retained by Gary Energy Transportation to remediate a hydrocarbon spill incident resulting from a tanker overturn, referenced as the Chromo Spill Incident. The spill was located in the west ditch of U.S. Hwy 84, located approximately six (6) miles south of Chromo, Colorado in Rio Arriba County, New Mexico (see Vicinity Map, Appendix A, Sheet A1). This report summarizes the emergency spill response and clean-up of contaminated soil, and provides all associated documentation.

RESPONSIBLE PARTY

The tanker involved in the spill incident was operated by Gary Energy Transportation, 89 Road 4990, Bloomfield, New Mexico 87413. Local contacts for Gary have been Mr. Dale Wright, Transportation Supervisor, and Mr. Joe Bixler, Assistant Transportation Supervisor. Their contact phone number in Bloomfield is (505) 632-3377.

SCOPE OF SERVICES

The emergency spill response and soil clean-up followed the current New Mexico Oil Conservation Division's (NMOCD) Regulations and Guidelines.⁽¹⁾ Services provided by Envirotech included:

1. Emergency spill containment and project management.
2. Site reclamation by excavation of contaminated soils exceeding NMOCD action levels.
3. Transport of contaminated soils for landfarm treatment to the Envirotech Soil Remediation Facility located near Hilltop, New Mexico.
4. Monitor contaminated soil removal by the collection of soil samples for field testing and laboratory analysis following an NMOCD approved sampling plan.
5. Provide clean backfill material, backfill the excavation, and contour the site to approximate original conditions.
6. Provide a summary report documenting the emergency response and reclamation activities.

SITE DESCRIPTION

The site of the spill incident was located in the west ditch of U.S. Highway 84, approximately 6 miles south of Chromo, Colorado, and approximately 1.7 miles south of the Colorado/New Mexico border near mile marker 286. Legal description of the site is (N) Section 24, T32N, R1E, NMPM, in Rio Arriba County. The spill was entirely contained within the highway right-of-way.

Elevation at the site is approximately 7960 feet above mean sea level in an arid, mountainous region. The highway is a two-lane, narrow asphalt roadway with minimal shoulder. The west bank of the highway where the spill occurred is a steep, grassy slope. General topography at the site indicates surface drainage to the south.

The spill initiated on the side of the slope with crude oil from the tank truck flowing down the slope, into a ditch, and traveling southward in the ditch parallel to the highway. The ditch was covered with a swamp type grass which slowed the horizontal advance of the spill, causing it to be absorbed into the soil. The soil at the site consists of a gray/brown, silty clay, medium plastic, moist, and stiff.

The ditch in which the spill occurred is part of a drainage system which flows into Webb Creek, an ephemeral stream, approximately one mile to the south of the site. The area around the site is range land with no residences or improvements in sight.

INITIAL RESPONSES

The spill incident occurred at approximately 1630 hours on Saturday, August 7, 1993. A southbound tanker carrying light crude oil overturned into the west ditch along U.S. Hwy 84. An estimate of 80 barrels of crude oil escaped into the ditch along the highway before the leak could be stopped and the tanker contents pumped into another tanker. The ditch has a surface gradient to the south which caused the spill to migrate approximately 250 feet to the south.

Envirotech Inc. was contacted on Monday morning, August 9, 1993 to provide site reconnaissance and develop a remediation plan. The majority of the oil spill had migrated into the soil and therefore the decision was made to excavate and transport all contaminated soils to the Envirotech Soil Remediation Facility. Mr. Denny Foust, Deputy Oil and Gas Inspector for the NMOCD, inspected the site and agreed with the reclamation plan.

On August 9, 1993, Mr. Morris Young of Envirotech contacted Mr. Roger Anderson of the NMOCD to request authorization to clean up the spill. Mr. Anderson received verbal authorization from the New Mexico Environment Department (NMED) on an emergency basis to authorize cleanup, transport, and storage of the spill material on

plastic at a holding area near the Envirotech NMOCD approved landfarm facility. The material was to be covered with plastic and tested by the Toxicity Characteristic Leaching Procedure (TCLP) to determine the presence of non-exempt hazardous materials prior to placement into the landfarm for reclamation.

SITE SAFETY

The spill area was located on a moderately travelled highway just over the crest of a hill with minimal working area for heavy equipment. It was necessary to load trucks on the highway; therefore, traffic control was critical. Approval was obtained from the New Mexico State Police to set up traffic controls during the remediation operations. Traffic control signs and flagmen were placed both north and south of the incident area to maintain safe working conditions and provide smooth traffic flow. Traffic control was maintained during the entire reclamation period.

SOIL EXCAVATION

Excavation of contaminated soils began on August 10, 1993 and was accomplished with a track excavator. Soils were removed commencing at the bottom (south) end of the spill area and progressed up-gradient (northward). Contaminated soils were temporarily stockpiled up-gradient from the spill area and then loaded into trucks with a front end loader for transport. Excavation was initially based on removing those soils which had visible discoloration and/or distinct petroleum odor. Final determination of the excavation limits was based on field and laboratory soil sample analyses.

Final contaminated soil removal was completed on August 19, 1993 and resulted in an excavation approximately 250 feet long, 10 to 15 feet in width, and 3 to 9 feet in depth. Total quantity of contaminated soils transported was approximately 1260 cubic yards. A site diagram is located in Appendix A, Sheet A2.

During the course of the reclamation project, heavy seasonal thunderstorms occurred and rainwater entered the excavation. A water sample was taken to verify that the water was not contaminated prior to backfilling the excavation. The laboratory results for Benzene, Toluene, Ethyl-benzene, and Xylenes analyses indicated non-detect for each constituent.

EXCAVATION BACKFILLING

Backfilling of the excavation with clean soils began on August 18, 1993 and was completed on August 23, 1993. Following backfilling, the site surface was contoured to approximate original ground surface features. A sandy-clay-type soil was used to cap the fill material to help retard erosion. The entire job was completed on August 25, 1993.

Photographs of the job progression are found in Appendix B of this report.

Contact was made by Envirotech personnel to the New Mexico Highway Department engineers office in Chama to determine any specific surface reclamation requirements. Due to plans to upgrade the highway in 1994, re-seeding of the site was deemed unnecessary.

A final site inspection was made on August 25, 1993 by Envirotech personnel and Mr. Denny Foust of the NMOCD to verify job completion. Mr. Foust gave verbal approval of the reclamation project.

FIELD AND LABORATORY SAMPLING RESULTS

Contaminated soils were field screened by use of the Headspace Field Method using a photoionization detector (PID) Model 580-B Organic Vapor Meter (OVM) manufactured by Thermo Environmental Instruments Inc. Selected soil samples were also field analyzed for Total Petroleum Hydrocarbon (TPH) concentrations using a field TPH unit per EPA Method 418.1 modified for field soil TPH analysis. The unit used was a "TPH Plus Aliphatic/Aromatic Hydrocarbon Analyzer" manufactured by General Analysis Corporation.

Select samples were submitted to the Envirotech Analytical Laboratory for confirmation analysis. Laboratory samples were analyzed for Aromatic Volatile Organics, USEPA Method 8020, SW-846, and Total Recoverable Petroleum Hydrocarbons (TPH), USEPA Method 418.1. The results of field OVM readings and TPH analyses are presented in Table 1, and laboratory Method 8020 analyses are summarized in Table 2. Laboratory analytical data sheets and QA/QC are presented in Appendix C. All sampling locations are noted on the site diagram located in Appendix A, Sheet A2.

The New Mexico Oil Conservation Division⁽¹⁾ has established the following guidelines for cleanup standards at this site:

Total Petroleum Hydrocarbons (TPH)	100 ppm
Benzene *	10 ppm
Total BTEX *	50 ppm

* A field soil vapor headspace measurement of 100 ppm may be substituted for a laboratory analysis of the Benzene and BTEX concentration limits.

The results of the TCLP analysis indicated the contaminated soils contained no non-exempt hazardous wastes; therefore, all soils meet regulatory requirements for remediation at the Envirotech Soil Remediation Facility. Laboratory TCLP data sheets are also included in Appendix B.

All soils exceeding NMOCD cleanup standards were removed from the site and transferred to the Envirotech Soil Remediation Facility.

Table 1
 OVM AND EPA 418.1 RESULTS
 SAMPLES TAKEN AUGUST 12-19, 1993
 EMERGENCY SPILL RESPONSE & CLEAN-UP
 PETROLEUM HYDROCARBON SPILL
 GARY ENERGY TRANSPORTATION
 CHROMO SPILL SITE

SAMPLE #	LOCATION	OVM (PPM)	418.1 (PPM)
1 *	SPILL AREA @ 1' COMP	64	> 1000 F
2	SPILL AREA @ 2' COMP	29	98 F
3 *	B @ 3' COMP	550	-
4	WS @ 4'	5.5	ND L
5	WS @ 4'	2.8	ND L
6	ES @ 4'	2.8	7.8 L
7 *	NS @ 5'	162	176 L
8	ES @ 5'	8.6	7.8 L
9	B @ 7' COMP	129	54 L
10	WS @ 5'	2.8	9.1 L
11	ES @ 5'	2.8	ND L
12 *	B @ 7' COMP	217	820 L
13	SB @ 5' (WATER)	-	-
14	NS @ 5'	15.7	20 F
15	NB @ 8'	31	44 F
16 *	B @ 7.5' COMP	110	410 L
17	B @ 5' COMP	37	60 F
18	WS @ 4'	2.0	30 F
19	ES @ 4'	5.4	28 F
20	WS @ 4'	2.0	22 F
21	ES @ 4'	2.7	26 F
22	ES @ 4'	-	9.1 L
23	ES @ 4'	-	8.8 L
24	SS @ 2'	-	12.6 L

Table 1 cont.
 OVM AND EPA 418.1 RESULTS
 SAMPLES TAKEN AUGUST 12-19, 1993
 EMERGENCY SPILL RESPONSE & CLEAN-UP
 PETROLEUM HYDROCARBON SPILL
 GARY ENERGY TRANSPORTATION
 CHROMO SPILL SITE

SAMPLE #	LOCATION	OVM (PPM)	418.1 (PPM)
25	WS @ 3'	-	8.8 L
26	WS @ 4'	-	9.7 L
27	B @ 9' COMP	21	21.9 L
28	WS	1.9	-
29	WS	8.2	-
30	WS	30.1	-
31	SS	4.2	-
32	SS	18.1	-
33	ES	20.7	-
34	ES	4.2	-
35	ES	4.2	-
36	B	7.2	-
37	B	67.5	-
38	B	2.1	-

Notes: PPM = parts per million equivalent to mg/Kg
 OVM = Organic Vapor Meter
 418.1 = EPA Method 418.1 for Total Petroleum Hydrocarbons
 F = Field Modified 418.1
 L = Laboratory 418.1
 COMP = composite sample (all other samples are grab)
 ND = not detected
 WS = west side
 ES = east side
 NS = north side
 B = bottom
 SB = south bottom
 NB = north bottom
 * = sample location subsequently removed by additional excavation
 Sample #13 is water sample, all others are soil

Table 2
 EPA METHOD 8020 RESULTS
 SAMPLES TAKEN AUGUST 12-19, 1993
 EMERGENCY SPILL RESPONSE & CLEAN-UP
 PETROLEUM HYDROCARBON SPILL
 GARY ENERGY TRANSPORTATION
 CHROMO SPILL SITE

SAMPLE	EPA METHOD 8020 (PPB)				
#	BENZENE	TOLUENE	ETHYL-BEN	XYLENES	TOTAL **
7 *	ND	70	ND	60.0	130.0
9	ND	72	ND	84.6	156.6
12 *	ND	80	27.5	297.0	404.5
13	ND	ND	ND	ND	ND
16 *	ND	81	ND	ND	81

Notes: PPB = parts per billion equivalent to ug/Kg
 ETHYL-BEN = Ethyl-benzene
 ND = not detected
 Sample #13 is water sample, all others are soil.
 * = Sample location subsequently removed by additional
 excavation.
 ** = Clean-up standard for Total BTEX is 50,000 ppb.

LIMITATIONS AND CLOSURE

This report documents the emergency response and clean-up of a spill incident on U.S. Hwy 84 caused by the accidental upset of a Gary Energy transport. Reported are visual observations of the site, subsurface conditions encountered during the abatement operations, and analysis of soil and water samples collected during the site reclamation. This report does not reflect subsurface variations which may exist between sampling points.

The scope of our services was limited to the performance of emergency response and site reclamation consisting of the excavation of all contaminated soils above NMOCD action levels. All work has been performed in accordance with generally accepted professional practices in geotechnical/environmental engineering and hydrogeology.

This report has been prepared for the exclusive use of Gary Energy Transportation as it pertains to the spill site located on U.S. Hwy 84, six miles south of Chromo, Colorado, Rio Arriba County, New Mexico.

I hereby certify that the work performed by Envirotech and described in this report was performed under my supervision, and that I am personally familiar with the nature of the work, the results of the reclamation, and the contents of this report.

Respectfully submitted,
ENVIROTECH, INC.

Robert E. O'Neill

Robert E. O'Neill
Environmental Engineer

Reviewed by:

Michael K. Lane

Michael K. Lane, P.E.
Geological Engineer

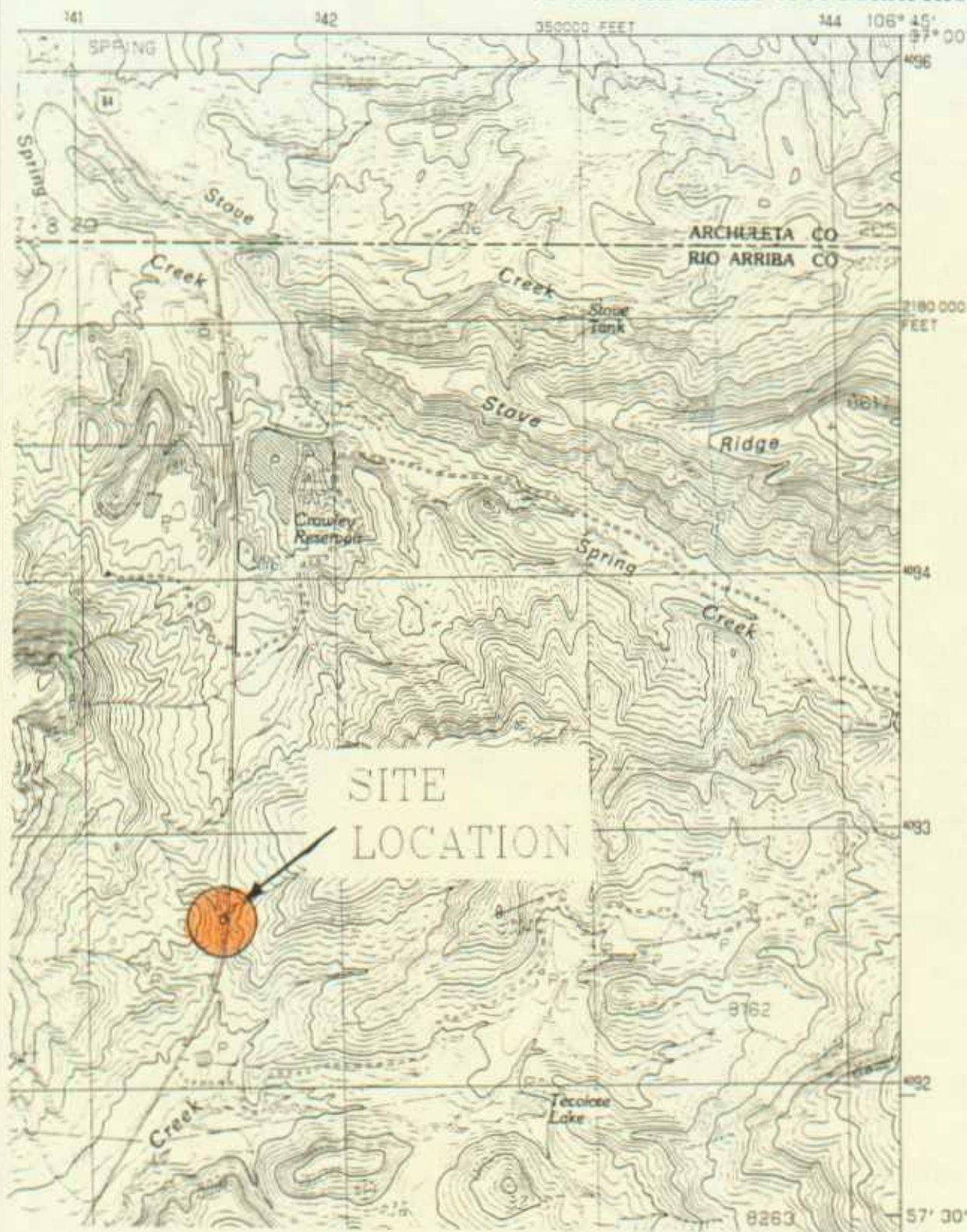
Appendices

REO/reo

93178.RPT

References: ⁽¹⁾ "Unlined Surface Impoundment Closure Guidelines,"
NMOCD, February 1993.

MONERO QUADRANGLE
NEW MEXICO-COLORADO
7.5 MINUTE SERIES (TOPOGRAPHIC)



GARY ENERGY TRANSPORTATION
CHROMO SPILL INCIDENT
EXCAVATION AND ABATEMENT
RIO ARriba COUNTY, NEW MEXICO
(N) SECTION 24 T32N. R1E

PROJECT NO: 93178

AUGUST 1993

ENVIROTECH INC.

ENVIRONMENTAL SCIENTISTS & ENGINEERS
5706 U.S. HIGHWAY 64-3014
FARMINGTON, NEW MEXICO 87401
PHONE (505) 632-0615

VICINITY
MAP

SHEET A1

DRAWN: MEO
FILE: 93178-2
DATE: 8-28-93

KEY

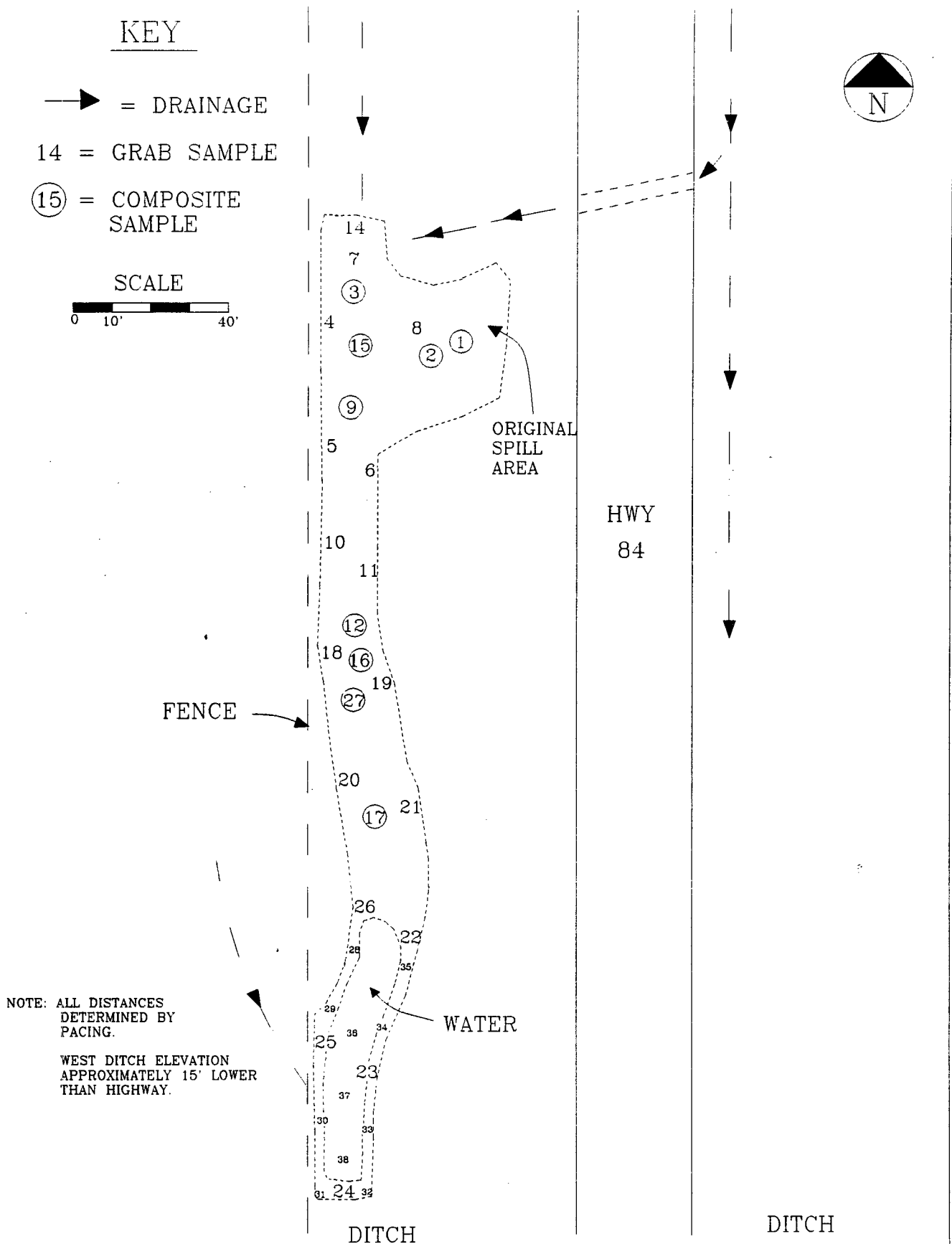
→ = DRAINAGE

14 = GRAB SAMPLE

⑮ = COMPOSITE SAMPLE

SCALE

0 10' 40'



GARY ENERGY TRANSPORTATION
CHROMO SPILL INCIDENT
EXCAVATION AND ABATEMENT
RIO ARriba COUNTY, NEW MEXICO
(N) SECTION 24, T32N, R1E

PROJECT NO: 93178

AUGUST 1993

ENVIROTECH INC.

ENVIRONMENTAL SCIENTISTS & ENGINEERS
5796 U.S. HIGHWAY 64-3014
FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615

SITE DIAGRAM
AND SAMPLE
LOCATIONS

SHEET A2

DRWN: MKL
REVISED: REO
FILE: 93178-1
DATE: 8-24-93



SPILL AREA - LOOKING NORTH



SPILL AREA - LOOKING SOUTH

EMERGENCY SPILL RESPONSE & CLEANUP
 GARY ENERGY TRANSPORTATION
 6 MILES SOUTH OF CHROMO, COLORADO, U.S. HWY 84
 (N) SEC 24 T32N R1E, RIO ARRIBA COUNTY, NEW MEXICO

Envirotech Inc.
 AUGUST 1993 PROJECT: 93178



EXCAVATION - LOOKING SOUTH



EXCAVATION - LOOKING NORTH

EMERGENCY SPILL RESPONSE & CLEANUP
 GARY ENERGY TRANSPORTATION
 6 MILES SOUTH OF CHROMO, COLORADO, U.S. HWY 84
 (N) SEC 24 T32N R1E, RIO ARRIBA COUNTY, NEW MEXICO

Envirotech Inc.
 AUGUST 1993 PROJECT: 93178



SOUTH END OF EXCAVATION



SOUTH END OF EXCAVATION
AFTER INFILTRATION OF METEORIC WATER

EMERGENCY SPILL RESPONSE & CLEANUP
GARY ENERGY TRANSPORTATION
6 MILES SOUTH OF CHROMO, COLORADO, U.S. HWY 84
(N) SEC 24 T32N R1E, RIO ARRIBA COUNTY, NEW MEXICO

Envirotech Inc.
AUGUST 1993 PROJECT: 93178



NOTE: CRUDE SEEPING FROM A SOIL VOID
IN THE WALL



BACKFILLING IN PROGRESS - LOOKING NORTH

EMERGENCY SPILL RESPONSE & CLEANUP
GARY ENERGY TRANSPORTATION
6 MILES SOUTH OF CHROMO, COLORADO, U.S. HWY 84
(N) SEC 24 T32N R1E, RIO ARRIBA COUNTY, NEW MEXICO

Envirotech Inc.
AUGUST 1993 PROJECT: 93178



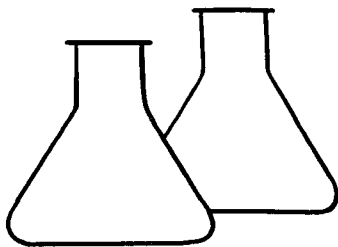
SOUTH END OF COMPLETED RECLAMATION



COMPLETED RECLAMATION - LOOKING NORTH

EMERGENCY SPILL RESPONSE & CLEANUP
 GARY ENERGY TRANSPORTATION
 6 MILES SOUTH OF CHROMO, COLORADO, U.S. HWY 84
 (N) SEC 24 T32N R1E, RIO ARRIBA COUNTY, NEW MEXICO

Envirotech Inc.
 AUGUST 1993 PROJECT: 93178



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client: Gary Energy Transportation Project #: 93178
Sample ID: #1 Spill Site Comp @1' Date Analyzed: 08-17-93
Project Location: Chromo Spill Site Date Reported: 08-19-93
Laboratory Number: GAC0182 Sample Matrix: Soil

Parameter -----	Result, mg/kg -----	Detection Limit, mg/kg -----
Petroleum Hydrocarbons	>1000	10

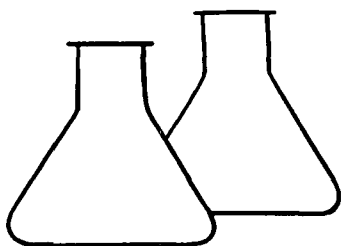
Quality Assurance:	Original TPH mg/kg -----	Duplicate TPH mg/kg -----	% Diff. -----
	44200	36500	19

Method: Modified Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments: 0

R. E. O'Neil
Analyst

Marin D. Young
Review



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client: Gary Energy Transportation Project #: 93178
Sample ID: #2 Spill Site Comp @2' Date Analyzed: 08-17-93
Project Location: Chromo Spill Site Date Reported: 08-19-93
Laboratory Number: GAC0183 Sample Matrix: Soil

Parameter -----	Result, mg/kg -----	Detection Limit, mg/kg -----
Petroleum Hydrocarbons	98	10

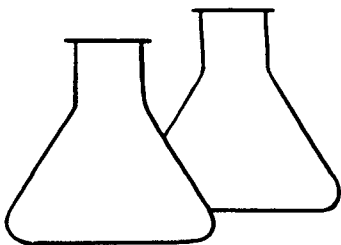
Quality Assurance:	Original TPH mg/kg -----	Duplicate TPH mg/kg -----	% Diff. -----
	44200	36500	19

Method: Modified Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments: 0

R. E. O'Neil
Analyst

M. J. Young
Review



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Gary Energy	Project #:	93178
Sample ID:	#4 WS @ 4'	Date Sampled:	08-17-93
Laboratory Number:	5901	Date Received:	08-17-93
Sample Matrix:	Soil	Date Analyzed:	08-18-93
Preservative:	Cool	Date Reported:	08-18-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----	-----	-----
Total Petroleum Hydrocarbons	ND	5.0

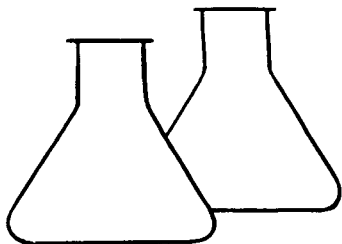
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments: Chromo spill.

Cecilia Chaharban
Analyst

Mani S. Yang
Review



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Gary Energy	Project #:	93178
Sample ID:	#5 WS @ 4'	Date Sampled:	08-17-93
Laboratory Number:	5902	Date Received:	08-17-93
Sample Matrix:	Soil	Date Analyzed:	08-18-93
Preservative:	Cool	Date Reported:	08-18-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter -----	Concentration (mg/kg) -----	Det. Limit (mg/kg) -----
Total Petroleum Hydrocarbons	ND	5.0

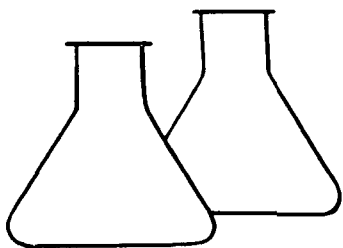
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments: Chromo spill.

Cu Chaharban
Analyst

Marie D. Young
Review



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Gary Energy	Project #:	93178
Sample ID:	#6 ES @ 4'	Date Sampled:	08-17-93
Laboratory Number:	5903	Date Received:	08-17-93
Sample Matrix:	Soil	Date Analyzed:	08-18-93
Preservative:	Cool	Date Reported:	08-18-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----	-----	-----
Total Petroleum Hydrocarbons	7.8	5.0

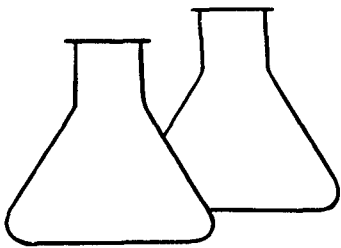
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments: Chromo spill.

A. Chabaling
Analyst

M. D. Young
Review



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Gary Energy	Project #:	93178
Sample ID:	#7 NS @ 5'	Date Sampled:	08-17-93
Laboratory Number:	5904	Date Received:	08-17-93
Sample Matrix:	Soil	Date Analyzed:	08-18-93
Preservative:	Cool	Date Reported:	08-18-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter -----	Concentration (mg/kg) -----	Det. Limit (mg/kg) -----
Total Petroleum Hydrocarbons	176	5.0

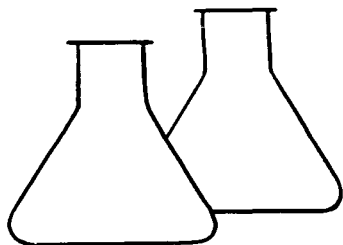
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

Method: Method 418.1, Petroleum Hydrocarbons, Total
Recoverable, Chemical Analysis of Water and
Waste, USEPA Storet No.4551, 1978

Comments: Chromo spill.

A. Chabaling
Analyst

Marie D. Young
Review



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Gary Energy	Project #:	93178
Sample ID:	#8 ES @ 5'	Date Sampled:	08-17-93
Laboratory Number:	5905	Date Received:	08-17-93
Sample Matrix:	Soil	Date Analyzed:	08-18-93
Preservative:	Cool	Date Reported:	08-18-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter -----	Concentration (mg/kg) -----	Det. Limit (mg/kg) -----
Total Petroleum Hydrocarbons	7.8	5.0

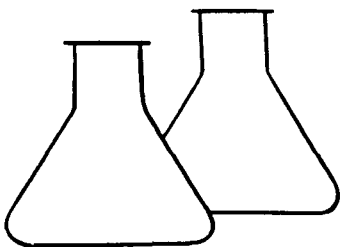
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments: Chromo spill.

C. Chaharbaghi
Analyst

Mavis D. Young
Review



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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Gary Energy	Project #:	93178
Sample ID:	#9 B @ 7' comp.	Date Sampled:	08-17-93
Laboratory Number:	5906	Date Received:	08-17-93
Sample Matrix:	Soil	Date Analyzed:	08-18-93
Preservative:	Cool	Date Reported:	08-18-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter -----	Concentration (mg/kg) -----	Det. Limit (mg/kg) -----
Total Petroleum Hydrocarbons	54	5.0

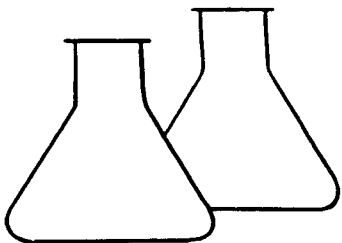
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments: Chromo spill.

Car Chaboulay
Analyst

Moni D. Young
Review



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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Gary Energy	Project #:	93178
Sample ID:	#10 WS @ 5'	Date Sampled:	08-17-93
Laboratory Number:	5907	Date Received:	08-17-93
Sample Matrix:	Soil	Date Analyzed:	08-18-93
Preservative:	Cool	Date Reported:	08-18-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter -----	Concentration (mg/kg) -----	Det. Limit (mg/kg) -----
Total Petroleum Hydrocarbons	9.1	5.0

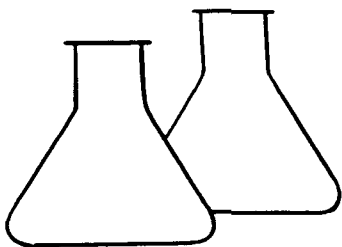
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments: Chromo spill.

A. Chabalar
Analyst

Maris D. Young
Review



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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Gary Energy	Project #:	93178
Sample ID:	#11 ES @ 5'	Date Sampled:	08-17-93
Laboratory Number:	5908	Date Received:	08-17-93
Sample Matrix:	Soil	Date Analyzed:	08-18-93
Preservative:	Cool	Date Reported:	08-18-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----	-----	-----
Total Petroleum Hydrocarbons	ND	5.0

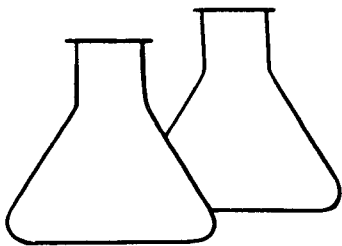
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments: Chromo spill.

C. Chaharban
Analyst

Samir D. Young
Review



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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Gary Energy	Project #:	93178
Sample ID:	#12 B @ 7' comp.	Date Sampled:	08-17-93
Laboratory Number:	5909	Date Received:	08-17-93
Sample Matrix:	Soil	Date Analyzed:	08-18-93
Preservative:	Cool	Date Reported:	08-18-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----	-----	-----
Total Petroleum Hydrocarbons	820	5.0

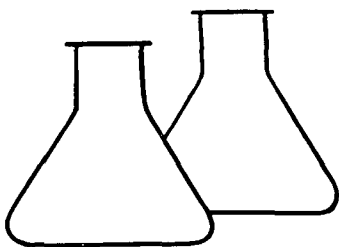
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments: Chromo spill.

C. Chabaling
Analyst

Maris D. Young
Review



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PHONE: (505) 632-0615 • FAX: (505) 632-1865

FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client: Gary Energy Transportation Project #: 93178
Sample ID: #14 NS @5' Date Analyzed: 08-18-93
Project Location: Chromo Spill Site Date Reported: 08-19-93
Laboratory Number: GAC0184 Sample Matrix: Soil

Parameter -----	Result, mg/kg -----	Detection Limit, mg/kg -----
Petroleum Hydrocarbons	20	10

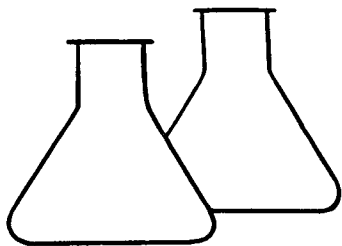
Quality Assurance:	Original TPH mg/kg -----	Duplicate TPH mg/kg -----	% Diff. -----
	44200	36500	19

Method: Modified Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments: 0

R. E. O'neal
Analyst

Mavis D. Young
Review



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PHONE: (505) 632-0615 • FAX: (505) 632-1865

FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client: Gary Energy Transportation Project #: 93178
Sample ID: #15 NB @8' Date Analyzed: 08-18-93
Project Location: Chromo Spill Site Date Reported: 08-19-93
Laboratory Number: GAC0185 Sample Matrix: Soil

Parameter -----	Result, mg/kg -----	Detection Limit, mg/kg -----
Petroleum Hydrocarbons	44	10

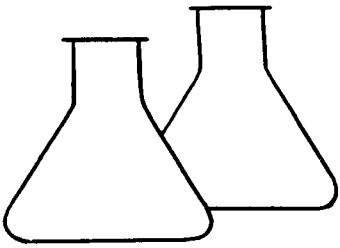
Quality Assurance:	Original TPH mg/kg -----	Duplicate TPH mg/kg -----	% Diff. -----
	44200	36500	19

Method: Modified Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments: 0

R. E. O'Neil
Analyst

Morgan D. Young
Review



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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Gary Energy	Project #:	93178
Sample ID:	#16 B @ 7.5' Comp.	Date Sampled:	08-18-93
Laboratory Number:	5926	Date Received:	08-19-93
Sample Matrix:	Soil	Date Analyzed:	08-19-93
Preservative:	Cool	Date Reported:	08-19-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----	-----	-----
Total Petroleum Hydrocarbons	410	5.0

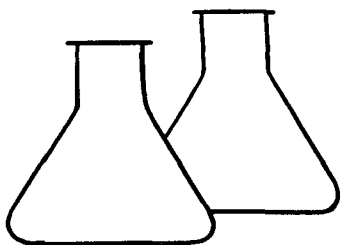
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments: Chromo spill.

A. Chahar
Analyst

Mavis D. Young
Review



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PHONE: (505) 632-0615 • FAX: (505) 632-1865

FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client: Gary Energy Transportation Project #: 93178
Sample ID: #16 B @ 7.5' comp. Date Analyzed: 08-18-93
Project Location: Chromo Spill Site Date Reported: 08-19-93
Laboratory Number: GAC0186 Sample Matrix: Soil

<u>Parameter</u>	<u>Result, mg/kg</u>	<u>Detection Limit, mg/kg</u>
Petroleum Hydrocarbons	270	10

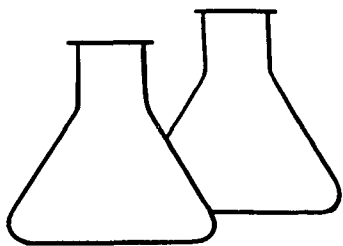
Quality Assurance:	<u>Original TPH mg/kg</u>	<u>Duplicate TPH mg/kg</u>	<u>% Diff.</u>
	44200	36500	19

Method: Modified Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments: 0

R. E. O'Neill
Analyst

Morris D. Young
Review



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FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client: Gary Energy Transportation Project #: 93178
Sample ID: #17 B @ 5' comp. Date Analyzed: 08-18-93
Project Location: Chromo Spill Site Date Reported: 08-19-93
Laboratory Number: GAC0187 Sample Matrix: Soil

<u>Parameter</u>	<u>Result, mg/kg</u>	<u>Detection Limit, mg/kg</u>
Petroleum Hydrocarbons	60	10

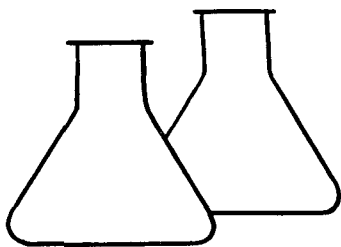
Quality Assurance:	<u>Original TPH mg/kg</u>	<u>Duplicate TPH mg/kg</u>	<u>% Diff.</u>
	44200	36500	19

Method: Modified Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments: 0

R. E. O'Neill
Analyst

Maria D Young
Review



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PHONE: (505) 632-0615 • FAX: (505) 632-1865

FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client: Gary Energy Transportation Project #: 93178
Sample ID: #18 WS @4' Date Analyzed: 08-18-93
Project Location: Chromo Spill Site Date Reported: 08-19-93
Laboratory Number: GAC0188 Sample Matrix: Soil

<u>Parameter</u>	<u>Result, mg/kg</u>	<u>Detection Limit, mg/kg</u>
Petroleum Hydrocarbons	30	10

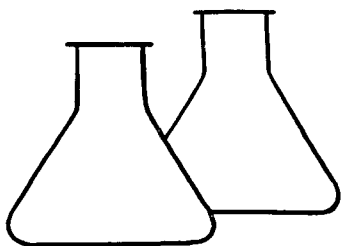
<u>Quality Assurance:</u>	<u>Original TPH mg/kg</u>	<u>Duplicate TPH mg/kg</u>	<u>% Diff.</u>
	44200	36500	19

Method: Modified Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments: 0

R. E. O'Neil
Analyst

Marion D. Young
Review



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PHONE: (505) 632-0615 • FAX: (505) 632-1865

FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client: Gary Energy Transportation Project #: 93178
Sample ID: #19 ES @4' Date Analyzed: 08-18-93
Project Location: Chromo Spill Site Date Reported: 08-19-93
Laboratory Number: GAC0189 Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Petroleum Hydrocarbons	28	10

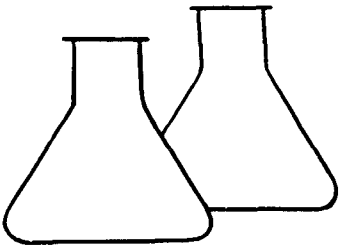
Quality Assurance:	Original TPH mg/kg	Duplicate TPH mg/kg	% Diff.
	44200	36500	19

Method: Modified Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments: 0

R. E. O'Neill
Analyst

Morris D. Young
Review



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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Gary Energy	Project #:	93178
Sample ID:	#20 WS @ 4'	Date Sampled:	08-18-93
Laboratory Number:	5927	Date Received:	08-19-93
Sample Matrix:	Soil	Date Analyzed:	08-19-93
Preservative:	Cool	Date Reported:	08-19-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----	-----	-----
Total Petroleum Hydrocarbons	14.3	5.0

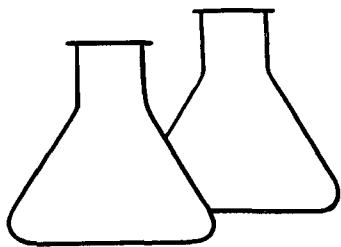
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

Method: Method 418.1, Petroleum Hydrocarbons, Total
Recoverable, Chemical Analysis of Water and
Waste, USEPA Storet No.4551, 1978

Comments: Chromo spill.

A. Chahar
Analyst

M. Young
Review



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PHONE: (505) 632-0615 • FAX: (505) 632-1865

FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client: Gary Energy Transportation Project #: 93178
Sample ID: #20 WS @4' Date Analyzed: 08-18-93
Project Location: Chromo Spill Site Date Reported: 08-19-93
Laboratory Number: GAC0190 Sample Matrix: Soil

Parameter -----	Result, mg/kg -----	Detection Limit, mg/kg -----
Petroleum Hydrocarbons	22	10

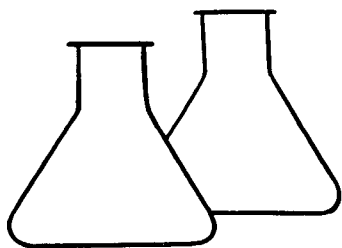
Quality Assurance:	Original TPH mg/kg -----	Duplicate TPH mg/kg -----	% Diff. -----
	22	18	20

Method: Modified Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments: 0

R. E. O'Neill
Analyst

Morris D. Young
Review



ENVIROTECH LABS

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PHONE: (505) 632-0615 • FAX: (505) 632-1865

FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client: Gary Energy Transportation Project #: 93178
Sample ID: #21 ES @4' Date Analyzed: 08-18-93
Project Location: Chromo Spill Site Date Reported: 08-19-93
Laboratory Number: GAC0191 Sample Matrix: Soil

<u>Parameter</u>	<u>Result, mg/kg</u>	<u>Detection Limit, mg/kg</u>
Petroleum Hydrocarbons	26	10

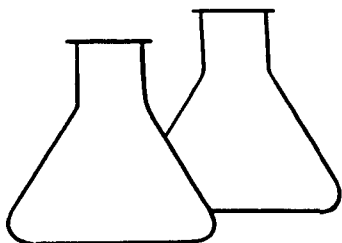
<u>Quality Assurance:</u>	<u>Original TPH mg/kg</u>	<u>Duplicate TPH mg/kg</u>	<u>% Diff.</u>
	22	18	20

Method: Modified Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments: 0

R. E. O'Neil
Analyst

Maris D. Young
Review



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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Gary Energy	Project #:	93178
Sample ID:	#22 ES @ 4'	Date Sampled:	08-18-93
Laboratory Number:	5928	Date Received:	08-19-93
Sample Matrix:	Soil	Date Analyzed:	08-19-93
Preservative:	Cool	Date Reported:	08-19-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----	-----	-----
Total Petroleum Hydrocarbons	9.1	5.0

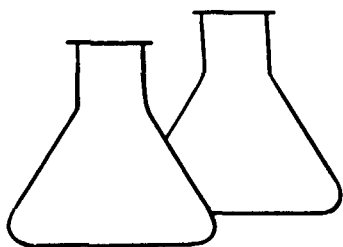
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

Method: Method 418.1, Petroleum Hydrocarbons, Total
Recoverable, Chemical Analysis of Water and
Waste, USEPA Storet No.4551, 1978

Comments: Chromo spill.

A. Chaharlang
Analyst

Marie D. Young
Review



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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Gary Energy	Project #:	93178
Sample ID:	#23 ES @ 4'	Date Sampled:	08-18-93
Laboratory Number:	5929	Date Received:	08-19-93
Sample Matrix:	Soil	Date Analyzed:	08-19-93
Preservative:	Cool	Date Reported:	08-19-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter -----	Concentration (mg/kg) -----	Det. Limit (mg/kg) -----
Total Petroleum Hydrocarbons	8.8	5.0

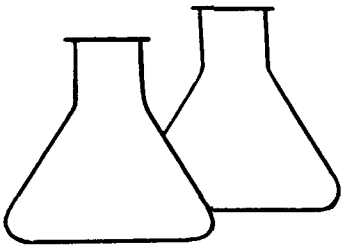
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments: Chromo spill.

A. Chahar
Analyst

Maria D. Young
Review



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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Gary Energy	Project #:	93178
Sample ID:	#24 SS @ 2'	Date Sampled:	08-18-93
Laboratory Number:	5930	Date Received:	08-19-93
Sample Matrix:	Soil	Date Analyzed:	08-19-93
Preservative:	Cool	Date Reported:	08-19-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----	-----	-----
Total Petroleum Hydrocarbons	12.6	5.0

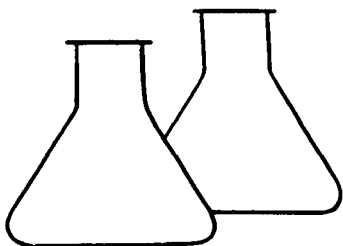
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments: Chromo spill.

A. Chaharbay
Analyst

Maris D. Young
Review



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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Gary Energy	Project #:	93178
Sample ID:	#25 WS @ 3'	Date Sampled:	08-18-93
Laboratory Number:	5931	Date Received:	08-19-93
Sample Matrix:	Soil	Date Analyzed:	08-19-93
Preservative:	Cool	Date Reported:	08-19-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter -----	Concentration (mg/kg) -----	Det. Limit (mg/kg) -----
Total Petroleum Hydrocarbons	8.8	5.0

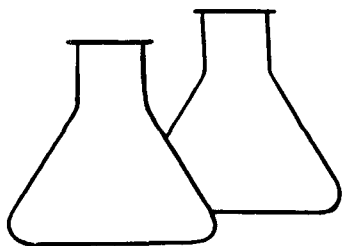
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments: Chromo spill.

A. Chahar
Analyst

Monis D. Young
Review



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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Gary Energy	Project #:	93178
Sample ID:	#26 WS @ 4'	Date Sampled:	08-18-93
Laboratory Number:	5932	Date Received:	08-19-93
Sample Matrix:	Soil	Date Analyzed:	08-19-93
Preservative:	Cool	Date Reported:	08-19-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----	-----	-----
Total Petroleum Hydrocarbons	9.7	5.0

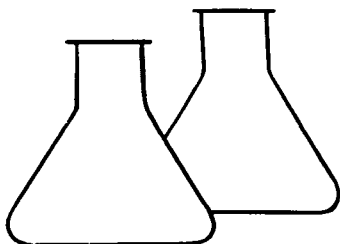
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

Method: Method 418.1, Petroleum Hydrocarbons, Total
Recoverable, Chemical Analysis of Water and
Waste, USEPA Storet No.4551, 1978

Comments: Chromo spill.

Au Chahar
Analyst

Maris D. Young
Review



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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Gary Energy	Project #:	93178
Sample ID:	#27 B @ 9' Comp.	Date Sampled:	08-19-93
Laboratory Number:	5946	Date Received:	08-19-93
Sample Matrix:	Soil	Date Analyzed:	08-20-93
Preservative:	Cool	Date Reported:	08-20-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter -----	Concentration (mg/kg) -----	Det. Limit (mg/kg) -----
Total Petroleum Hydrocarbons	21.9	5.0

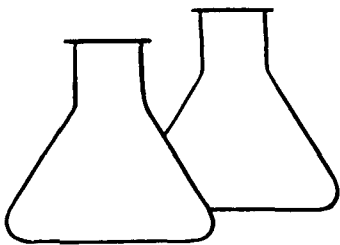
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments: Chromo spill site.

A. Chaharlang
Analyst

M. D. Young
Review



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5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Gary Energy	Project #:	93178
Sample ID:	#7 NS @ 5'	Date Reported:	08-18-93
Laboratory Number:	5904	Date Sampled:	08-17-93
Sample Matrix:	Soil	Date Received:	08-17-93
Preservative:	Cool	Date Extracted:	08-18-93
Condition:	Cool & Intact	Date Analyzed:	08-18-93
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	13.0
Toluene	70	26.1
Ethylbenzene	ND	19.6
p,m-Xylene	40.3	26.1
o-Xylene	19.7	19.6

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	100 %
	Bromofluorobenzene	103 %

Method: Method 5030, Purge-and-Trap, Test Methods for
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

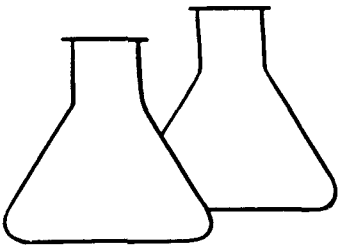
Method 8020, Aromatic Volatile Organics, Test Methods
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: Chromo Spill

Dennis L. Jensen
Analyst

Marie D. Young
Review



ENVIROTECH LABS

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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Gary Energy	Project #:	93178
Sample ID:	#9 B @ 7' Comp	Date Reported:	08-18-93
Laboratory Number:	5906	Date Sampled:	08-17-93
Sample Matrix:	Soil	Date Received:	08-17-93
Preservative:	Cool	Date Extracted:	08-18-93
Condition:	Cool & Intact	Date Analyzed:	08-18-93
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	13.3
Toluene	72	26.6
Ethylbenzene	ND	19.9
p,m-Xylene	48.2	26.6
o-Xylene	36.4	19.9

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	104 %
	Bromofluorobenzene	99 %

Method: Method 5030, Purge-and-Trap, Test Methods for
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

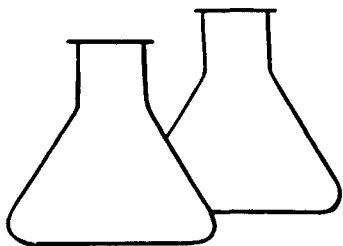
Method 8020, Aromatic Volatile Organics, Test Methods
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: Chromo Spill

David L. Spencer
Analyst

Maris D. Young
Review



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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Gary Energy	Project #:	93178
Sample ID:	#12 B @ 7' Comp	Date Reported:	08-18-93
Laboratory Number:	5909	Date Sampled:	08-17-93
Sample Matrix:	Soil	Date Received:	08-17-93
Preservative:	Cool	Date Extracted:	08-18-93
Condition:	Cool & Intact	Date Analyzed:	08-18-93
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
-----	-----	-----
Benzene	ND	13.3
Toluene	80	26.6
Ethylbenzene	27.5	20.0
p,m-Xylene	184	26.6
o-Xylene	113	20.0

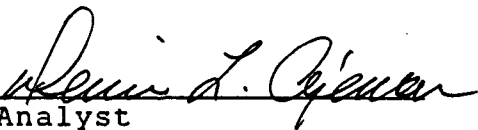
SURROGATE RECOVERIES:	Parameter	Percent Recovery
	-----	-----
	Trifluorotoluene	105 %
	Bromofluorobenzene	100 %

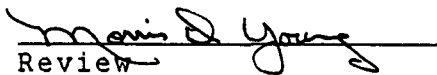
Method: Method 5030, Purge-and-Trap, Test Methods for
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

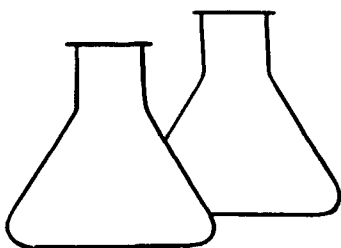
Method 8020, Aromatic Volatile Organics, Test Methods
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: Chromo Spill


Analyst


Review



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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Gary Energy	Project #:	93178
Sample ID:	#13 SB @ 5'	Date Reported:	08-18-93
Laboratory Number:	5910	Date Sampled:	08-17-93
Sample Matrix:	Water	Date Received:	08-17-93
Preservative:	HgCl and Cool	Date Analyzed:	08-18-93
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	ND	0.2
Toluene	ND	0.4
Ethylbenzene	ND	0.3
p,m-Xylene	ND	0.4
o-Xylene	ND	0.3

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	94 %
	Bromofluorobenzene	100 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

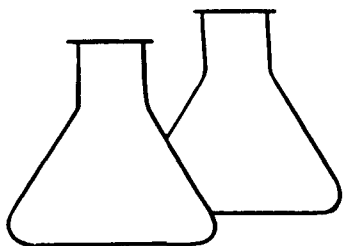
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Chromo Spill

Kevin L. Agnew
Analyst

Marvin D. Young
Review



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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Gary Energy	Project #:	93178
Sample ID:	#16 B @ 7.5' Comp	Date Reported:	08-19-93
Laboratory Number:	5926	Date Sampled:	08-18-93
Sample Matrix:	Soil	Date Received:	08-19-93
Preservative:	Cool	Date Extracted:	08-19-93
Condition:	Cool & Intact	Date Analyzed:	08-19-93
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	13.3
Toluene	81	39.8
Ethylbenzene	ND	13.3
p,m-Xylene	ND	26.6
o-Xylene	ND	19.9

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	105 %
	Bromofluorobenzene	103 %

Method: Method 5030, Purge-and-Trap, Test Methods for
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Method 8020, Aromatic Volatile Organics, Test Methods
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

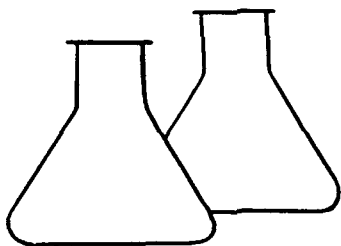
Comments: Chromo Spill

Shawn L. Jensen
Analyst

Margaret D. Young
Review

QUALITY ASSURANCE/QUALITY CONTROL

DOCUMENTATION



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	N/A	Project #:	N/A
Sample ID:	Laboratory Blank	Date Sampled:	N/A
Laboratory Number:	TPSB0818	Date Received:	N/A
Sample Matrix:	Soil	Date Analyzed:	08-18-93
Preservative:	N/A	Date Reported:	08-18-93
Condition:	N/A	Analysis Needed:	TPH

Parameter -----	Concentration (mg/kg) -----	Det. Limit (mg/kg) -----
Total Petroleum Hydrocarbons	ND	5.0

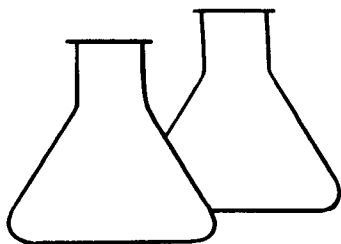
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments:

A. Chabert
Analyst

Marian D. Young
Review



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	N/A	Project #:	N/A
Sample ID:	Laboratory Blank	Date Sampled:	N/A
Laboratory Number:	TPSB0819	Date Received:	N/A
Sample Matrix:	Soil	Date Analyzed:	08-19-93
Preservative:	N/A	Date Reported:	08-19-93
Condition:	N/A	Analysis Needed:	TPH

Parameter -----	Concentration (mg/kg) -----	Det. Limit (mg/kg) -----
Total Petroleum Hydrocarbons	ND	5.0

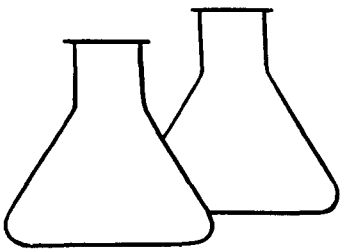
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

Method: Method 418.1, Petroleum Hydrocarbons, Total
Recoverable, Chemical Analysis of Water and
Waste, USEPA Storet No.4551, 1978

Comments:

C. Chabaling
Analyst

M. D. Young
Review



ENVIROTECH LABS

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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	N/A	Project #:	N/A
Sample ID:	Laboratory Blank	Date Sampled:	N/A
Laboratory Number:	TPSB0820	Date Received:	N/A
Sample Matrix:	Soil	Date Analyzed:	08-20-93
Preservative:	N/A	Date Reported:	08-20-93
Condition:	N/A	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----	-----	-----
Total Petroleum Hydrocarbons	ND	5.0

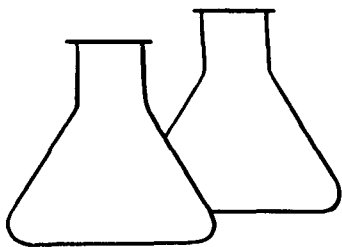
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

Method: Method 418.1, Petroleum Hydrocarbons, Total
Recoverable, Chemical Analysis of Water and
Waste, USEPA Storet No.4551, 1978

Comments:

A. Chahar
Analyst

Morris D. Young
Review



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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	NA	Project #:	NA
Sample ID:	Laboratory Blank	Date Reported:	08-18-93
Laboratory Number:	0818AM.BLK	Date Sampled:	NA
Sample Matrix:	Water	Date Received:	NA
Preservative:	NA	Date Analyzed:	08-18-93
Condition:	NA	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	ND	0.2
Toluene	ND	0.4
Ethylbenzene	ND	0.3
p,m-Xylene	ND	0.4
o-Xylene	ND	0.3

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	95 %
	Bromofluorobenzene	101 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

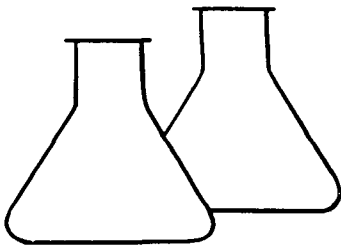
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments:

Steven L. Cramer
Analyst

Morgan D. Young
Review



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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	NA	Project #:	NA
Sample ID:	Laboratory Blank	Date Reported:	08-19-93
Laboratory Number:	0819AM.BLK	Date Sampled:	NA
Sample Matrix:	Water	Date Received:	NA
Preservative:	NA	Date Analyzed:	08-19-93
Condition:	NA	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	ND	0.2
Toluene	ND	0.6
Ethylbenzene	ND	0.2
p,m-Xylene	ND	0.4
o-Xylene	ND	0.3

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	99 %
	Bromofluorobenzene	99 %

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

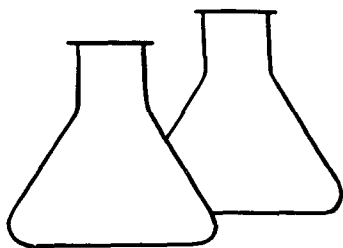
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments:

Dennis L. Gieser
Analyst

Maris D. Young
Review



ENVIROTECH LABS

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PHONE: (505) 632-0615 • FAX: (505) 632-1865

** QUALITY ASSURANCE REPORT MATRIX SPIKE - TOTAL PETROLEUM HYDROCARBONS

Client:	N/A	Project #:	N/A
Sample ID:	Laboratory Spike	Date Sampled:	N/A
Laboratory Number:	TPSS0818	Date Received:	N/A
Sample Matrix:	Soil	Date Analyzed:	08-18-93
Analysis Requested:	TPH	Date Reported:	08-18-93

Parameter	Sample Result (mg/kg)	Spike Added (mg/kg)	Spiked sample Result (mg/kg)	Percent Recovery
Total Petroleum Hydrocarbons	ND	500	435	86

QA ACCEPTANCE CRITERIA:	Parameter	Acceptance Range %
	TPH	80 - 120

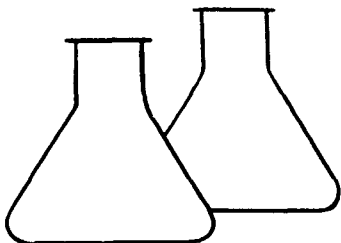
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments:

Ar Chaharlang
Analyst

Myron D Young
Review



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401

PHONE: (505) 632-0615 • FAX: (505) 632-1865

** QUALITY ASSURANCE REPORT

MATRIX SPIKE - TOTAL PETROLEUM HYDROCARBONS

Client:	N/A	Project #:	N/A
Sample ID:	Laboratory Spike	Date Sampled:	N/A
Laboratory Number:	TPSS0819	Date Received:	N/A
Sample Matrix:	Soil	Date Analyzed:	08-19-93
Analysis Requested:	TPH	Date Reported:	08-19-93

Parameter	Sample Result (mg/kg)	Spike Added (mg/kg)	Spiked sample Result (mg/kg)	Percent Recovery
Total Petroleum Hydrocarbons	ND	492	436	88

QA ACCEPTANCE CRITERIA:	Parameter	Acceptance Range %
	TPH	80 - 120

ND = Parameter not detected at the stated detection limit.

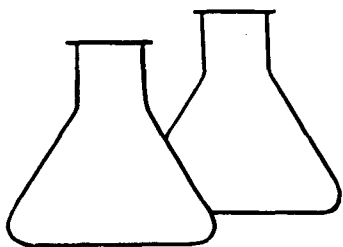
N/A = Not applicable

Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments:

C. Chabon
Analyst

M. S. Young
Review



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
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** QUALITY ASSURANCE REPORT

MATRIX SPIKE - TOTAL PETROLEUM HYDROCARBONS

Client:	N/A	Project #:	N/A
Sample ID:	Laboratory Spike	Date Sampled:	N/A
Laboratory Number:	TPSS0820	Date Received:	N/A
Sample Matrix:	Soil	Date Analyzed:	08-20-93
Analysis Requested:	TPH	Date Reported:	08-20-93

Parameter	Sample Result (mg/kg)	Spike Added (mg/kg)	Spiked sample Result (mg/kg)	Percent Recovery
Total Petroleum Hydrocarbons	ND	500	471	93

QA ACCEPTANCE CRITERIA:	Parameter	Acceptance Range %
	TPH	80 - 120

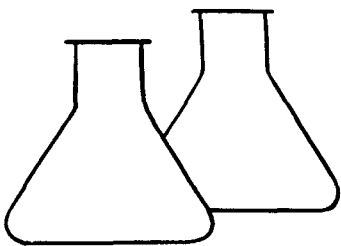
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments:

As Chahar
Analyst

Maria D. Young
Review



ENVIROTECH LABS

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PHONE: (505) 632-0615 • FAX: (505) 632-1865

** QUALITY ASSURANCE EPA METHOD 8020
MATRIX SPIKE - AROMATIC VOLATILE ORGANICS

Client:	NA	Project #:	NA
Sample ID:	Sample Spike	Date Reported:	08-18-93
Laboratory Number:	5910-S-BTEX.	Date Sampled:	08-17-93
Sample Matrix:	Water	Date Received:	08-17-93
Analysis Requested:	BTEX	Date Analyzed:	08-18-93
Condition:	NA		

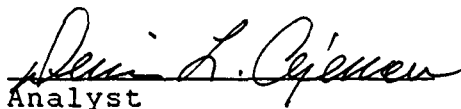
Parameter	Sample Result (ug/L)	Spike Added (ug/L)	Spiked Sample Result (ug/L)	Det. Limit (ug/L)	Percent Recovery	SW-846 % Rec. Accept. Range
Benzene	ND	20.0	18.4	0.2	92	39-150
Toluene	ND	20.0	18.9	0.4	93	46-148
Ethylbenzene	ND	20.0	18.8	0.3	93	32-160
p,m-Xylene	ND	20.0	18.8	0.4	93	46-148
o-Xylene	ND	20.0	18.8	0.3	93	46-148

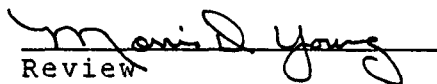
Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

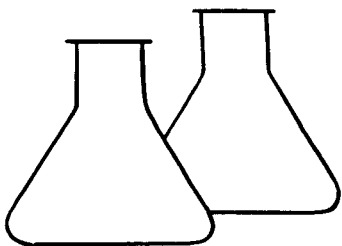
Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments:


Analyst


Review



ENVIROTECH LABS

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PHONE: (505) 632-0615 • FAX: (505) 632-1865

** QUALITY ASSURANCE EPA METHOD 8020
MATRIX SPIKE - AROMATIC VOLATILE ORGANICS

Client:	NA	Project #:	NA
Sample ID:	Sample Spike	Date Reported:	08-19-93
Laboratory Number:	5926-S-BTEX.	Date Sampled:	08-18-93
Sample Matrix:	Soil	Date Received:	08-19-93
Analysis Requested:	BTEX	Date Analyzed:	08-19-93
Condition:	NA		

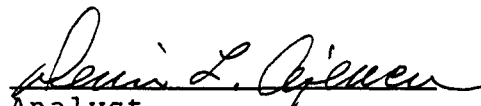
Parameter	Sample Result (ug/Kg)	Spike Added (ug/Kg)	Spiked Sample Result (ug/Kg)	Det. Limit (ug/Kg)	Percent Recovery	SW-846 % Rec. Accept. Range
Benzene	ND	498	408	13.3	82	39-150
Toluene	81	498	480	39.8	83	46-148
Ethylbenzene	ND	498	422	13.3	85	32-160
p,m-Xylene	ND	498	449	26.6	86	46-148
o-Xylene	ND	498	430	19.9	84	46-148

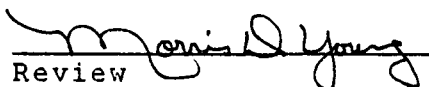
Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments:


Analyst


Review

CHAIN OF CUSTODY RECORD

Client/Project Name		Project Location		ANALYSIS/PARAMETERS											
GARY EVERETT # 93178		CHARNO SPILL													
Sampler: (Signature)				Chain of Custody Tape No.		No. of Containers		418.1		BTEX				Remarks	
R. E. O'Neil															
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix											
#4 WSE4'	8-17-93	1321	5901	SOIL											
#5 WSE4'	8-17-93	1324	5902	SOIL											
#6 ESE4'	8-17-93	1327	5903	SOIL											
#7 NSE5'	8-17-93	1407	5904	SOIL											
#8 ESE5'	8-17-93	1409	5905	SOIL											
#9 B @ 7' Cont	8-17-93	1419	5906	SOIL											
#10 WSE5'	8-17-93	1427	5907	SOIL											
#11 ESE5'	8-17-93	1430	5908	SOIL											
#12 B @ 7' Cont	8-17-93	1433	5909	SOIL											
Relinquished by: (Signature)				Date	Time	Received by: (Signature)		Date		Time					
R. E. O'Neil				8-17-93	1753	Tony Tistano		8/18/93		1753					
Relinquished by: (Signature)						Received by: (Signature)									
Relinquished by: (Signature)						Received by: (Signature)									

ENVIROTECH INC.

5796 U.S. Highway 64-3014

Farmington, New Mexico 87401

(505) 632-0615

CHAIN OF CUSTODY RECORD

Client/Project Name		Project Location		ANALYSIS/PARAMETERS											
CARY ENERGY # 93178		CHROMO SPILL													
Sampler: (Signature) R. E. O'Neil				Chain of Custody Tape No.				No. of Containers	418.1	Box					Remarks
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix											
# 16 B@7.5' @ 1'	8-18-93	1215	# 5926	SOIL				1	✓						
# 20 W@4'	8-18-93	1220	5927	SOIL				1	✓						GAC Out.
# 22 E@4'	8-18-93	1537	5928	SOIL				1	✓						
# 23 E@4'	8-18-93	1540	5929	SOIL				1	✓						
# 24 B@2'	8-18-93	1550	5930	SOIL				1	✓						
# 25 W@3'	8-18-93	1555	5931	SOIL				1	✓						
# 26 W@4'	8-18-93	1560	5932	SOIL				1	✓						.
Relinquished by: (Signature) R. E. O'Neil				Date	8-19-93	Time	0712	Received by: (Signature) C. Chabon		Date		8-19-93	Time		0730
Relinquished by: (Signature)								Received by: (Signature)							
Relinquished by: (Signature)								Received by: (Signature)							

ENVIROTECH INC.

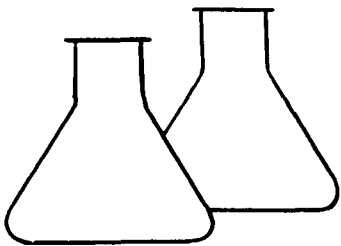
5796 U.S. Highway 64-3014

Farmington, New Mexico 87401

(505) 632-0615

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5796 U.S. Highway 64-3014
Farmington, New Mexico 87401
(505) 632-0615



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PHONE: (505) 632-0615 • FAX: (505) 632-1865

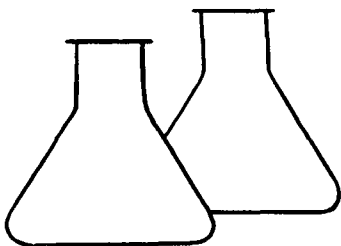
EPA METHODS 8010/8020
AROMATIC VOLATILE ORGANICS/HALOGENATED VOLATILE ORGANICS
Pg 1/2

Client:	Gary Energy	Project #:	93178
Sample ID:	#1 Crude Spill	Date Reported:	08-17-93
Laboratory Number:	5896	Date Sampled:	08-16-93
Sample Matrix:	Soil	Date Received:	08-16-93
Preservative:	Cool	Date Extracted:	08-16-93
Condition:	Cool & Intact	Date Analyzed:	08-17-93
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.007	0.2
2-Butanone	ND	0.005	200
1,1-Dichloroethene	ND	0.005	0.7
Chloroform	ND	0.005	6.0
Carbon Tetrachloride	ND	0.005	0.5
Benzene	ND	0.005	0.5
1,2-Dichloroethene	ND	0.005	0.5
Trichloroethene	ND	0.005	0.5
Tetrachloroethene	ND	0.005	0.7
Chlorobenzene	ND	0.005	100
1,4-Dichlorobenzene	ND	0.005	7.5

SURROGATE RECOVERIES:

Parameter	Percent Recovery
Bromochloromethane	103 %
Bromofluorobenzene	111 %



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EPA METHODS 8010/8020
AROMATIC VOLATILE ORGANICS/HALOGENATED VOLATILE ORGANICS
Pg 2/2

Sample ID: #1 Crude Spill
Laboratory Number: 5896

Method: Method 1311, Toxicity Characteristic Leaching Procedure
Test Methods for Evaluating Solid Waste, SW-846, USEPA,
Sept. 1986

Method 5030, Purge-and-Trap, Test Methods for Evaluating
Solid Waste, SW-846, USEPA, Sept. 1986

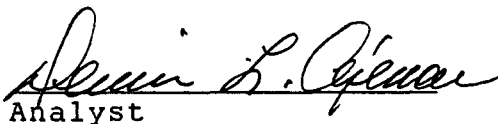
Method 8010, Halogenated Volatile Organics, Test Methods
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

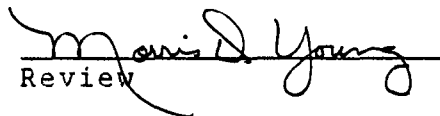
Method 8020, Aromatic Volatile Organics, Test Methods for
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

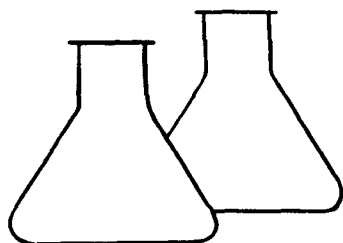
Note: Regulatory Limits based on 40 CFR part 261 Subpart C
section 261.24, July 1, 1992

ND - Parameter not detected at the stated detection limit.

Comments: Highway 84, Chromo


Analyst


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EPA METHOD 8040 PHENOLS

Client:	Gary Energy	Project #:	93178
Sample ID:	#1 Crude Spill	Date Reported:	08-18-93
Laboratory Number:	5896	Date Sampled:	08-16-93
Sample Matrix:	Soil	Date Received:	08-16-93
Preservative:	Cool	Date Extracted:	08-16-93
Condition:	Cool & Intact	Date Analyzed:	08-17-93
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200.0
p,m-Cresol	ND	0.040	200.0
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400.0
Pentachlorophenol	ND	0.020	100.0

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	2-fluorophenol	97 %
	2,4,6-tribromophenol	97 %

Method: Method 1311, Toxicity Characteristic Leaching Procedure
Test Methods for Evaluating Solid Waste, SW-846, USEPA,
Sept. 1986.

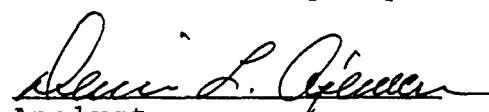
Method 3510, Separatory Funnel Liquid-Liquid Extraction,
Test Methods for Evaluating Solid Waste, SW-846, USEPA,
Sept. 1986.

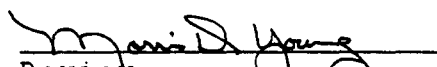
Method 8040, Phenols, Test Methods for Evaluating Solid
Waste, SW-846, USEPA, Sept. 1986.

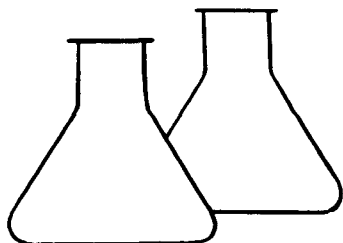
Note: Regulatory Limits based on 40 CFR part 261 subpart C
section 261.24, July 1, 1992

ND - Parameter not detected at the stated detection limit.

Comments: Highway 84, Chromo


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EPA METHOD 8090 NITROAROMATICS AND CYCLIC KETONES

Client:	Gary Energy	Project #:	93178
Sample ID:	#1 Crude Spill	Date Reported:	08-18-93
Laboratory Number:	5896	Date Sampled:	08-16-93
Sample Matrix:	Soil	Date Received:	08-16-93
Preservative:	Cool	Date Extracted:	08-16-93
Condition:	Cool and Intact	Date Analyzed:	08-17-93
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	5.0
Nitrobenzene	ND	0.020	5.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

SURROGATE RECOVERY:	Parameter	Percent Recovery
	2-fluorobiphenyl	104 %

Method: Method 1311, Toxicity Characteristic Leaching Procedure
Test Methods for Evaluating Solid Waste, SW-846, USEPA,
Sept. 1986.

Method 3510, Separatory Funnel Liquid-Liquid Extraction,
Test Methods for Evaluating Solid Waste, SW-846, USEPA,
Sept. 1986.

Method 8090, Nitroaromatics and Cyclic Ketones,
Test Methods for Evaluating Solid Waste, SW-846,
USEPA, Sept. 1986

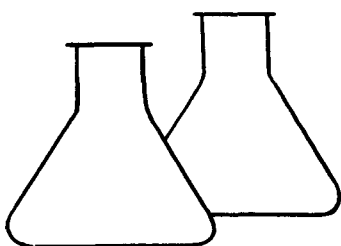
Note: Regulatory Limits based on 40 CFR part 261 subpart C
section 261.24, July 1, 1992

ND - Parameter not detected at the stated detection limit.

Comments: Highway 84, Chromo

Kevin L. Jensen
Analyst

Maria D. Young
Review



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EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	Gary Energy	Project #:	93178
Sample ID:	#1 Crude Spill	Date Reported:	08-20-93
Laboratory Number:	5896	Date Sampled:	08-16-93
Sample Matrix:	Soil	Date Received:	08-16-93
Preservative:	Cool	Date Analyzed:	08-20-93
Condition:	Cool & Intact	Date Extracted:	08-16-93
		Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
ARSENIC	ND	0.001	5.000
BARIUM	2.8	0.1	100.0
CADMIUM	0.007	0.001	1.000
CHROMIUM	0.007	0.001	5.000
LEAD	ND	0.001	5.000
MERCURY	ND	0.002	0.200
SELENIUM	ND	0.001	1.000
SILVER	ND	0.01	5.00

Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

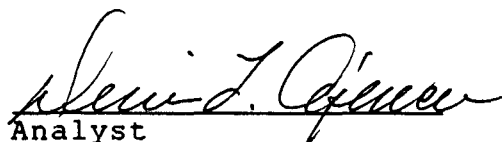
Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

Method 1311, Toxicity Characteristic Leaching Procedure
SW-846, USEPA, Nov. 1990

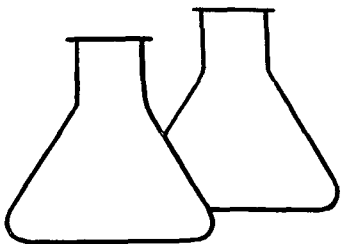
Note: Regulatory Limits based on 40 CFR part 261 subpart C
section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

Comments: Highway 84, Chromo


Analyst


Review



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PHONE: (505) 632-0615 • FAX: (505) 632-1865

RCRA CHARACTERISTICS

Client:	Gary Energy	Project #:	93178
Sample ID:	#1 Crude Spill	Date Reported:	08-16-93
Lab ID#:	5896	Date Sampled:	08-16-93
Sample Matrix:	Soil	Date Received:	08-16-93
Preservative:	Cool	Date Analyzed:	08-16-93
Condition:	Cool & Intact		

IGNITABILITY: Did not ignite upon direct contact with flame.

CORROSIVITY: pH of 7.78

REACTIVITY: Did not react violently with water, strong base (10N Sodium Hydroxide), or strong acid (6N Hydrochloric acid).

Reference: 40 CFR part 261 Subpart C sections 261.21 - 261.23, July 1, 1992.

Comments: $\leq$ pH 2 or $\geq$ pH 12.5 is hazardous waste.
Highway 84, Chromo.

An Chaharlang
Analyst

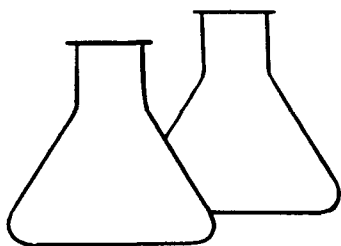
Mari S. Young
Reviewed

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FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615

QUALITY ASSURANCE/QUALITY CONTROL

DOCUMENTATION



ENVIROTECH LABS

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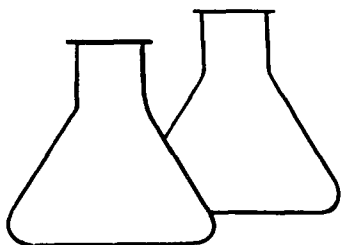
EPA METHODS 8010/8020
AROMATIC VOLATILE ORGANICS/HALOGENATED VOLATILE ORGANICS
Pg 1/2

Client:	NA	Project #:	NA
Sample ID:	Laboratory Blank	Date Reported:	08-17-93
Laboratory Number:	0817tcv.blk	Date Sampled:	NA
Sample Matrix:	Water	Date Received:	NA
Preservative:	NA	Date Analyzed:	08-17-93
Condition:	NA	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.007	0.2
2-Butanone	ND	0.005	200
1,1-Dichloroethene	ND	0.005	0.7
Chloroform	ND	0.005	6.0
Carbon Tetrachloride	ND	0.005	0.5
Benzene	ND	0.005	0.5
1,2-Dichloroethene	ND	0.005	0.5
Trichloroethene	ND	0.005	0.5
Tetrachloroethene	ND	0.005	0.7
Chlorobenzene	ND	0.005	100
1,4-Dichlorobenzene	ND	0.005	7.5

SURROGATE RECOVERIES:

Parameter	Percent Recovery
Bromochloromethane	90 %
Bromofluorobenzene	97 %



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EPA METHODS 8010/8020
AROMATIC VOLATILE ORGANICS/HALOGENATED VOLATILE ORGANICS
Pg 2/2

Sample ID: Laboratory Blank
Laboratory Number: 0817tcv.blk

Method: Method 1311, Toxicity Characteristic Leaching Procedure
Test Methods for Evaluating Solid Waste, SW-846, USEPA,
Sept. 1986

Method 5030, Purge-and-Trap, Test Methods for Evaluating
Solid Waste, SW-846, USEPA, Sept. 1986

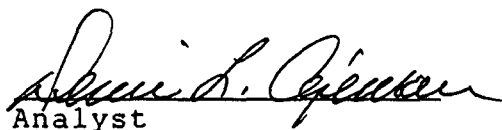
Method 8010, Halogenated Volatile Organics, Test Methods
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

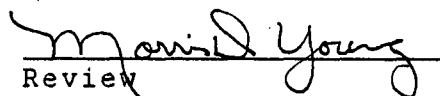
Method 8020, Aromatic Volatile Organics, Test Methods for
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

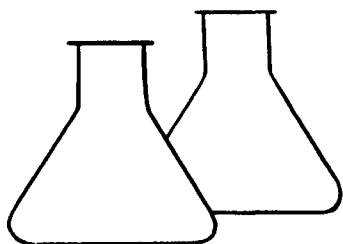
Note: Regulatory Limits based on 40 CFR part 261 Subpart C
section 261.24, July 1, 1992

ND - Parameter not detected at the stated detection limit.

Comments:


Analyst


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EPA METHOD 8040 PHENOLS

Client:	NA	Project #:	NA
Sample ID:	Laboratory Blank	Date Reported:	08-18-93
Laboratory Number:	0817tca.blk	Date Sampled:	NA
Sample Matrix:	2-Propanol	Date Received:	NA
Preservative:	NA	Date Analyzed:	08-17-93
Condition:	NA	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200.0
p,m-Cresol	ND	0.040	200.0
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400.0
Pentachlorophenol	ND	0.020	100.0

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	2-fluorophenol	102 %
	2,4,6-tribromophenol	100 %

Method: Method 1311, Toxicity Characteristic Leaching Procedure
Test Methods for Evaluating Solid Waste, SW-846, USEPA,
Sept. 1986.

Method 3510, Separatory Funnel Liquid-Liquid Extraction,
Test Methods for Evaluating Solid Waste, SW-846, USEPA,
Sept. 1986.

Method 8040, Phenols, Test Methods for Evaluating Solid
Waste, SW-846, USEPA, Sept. 1986.

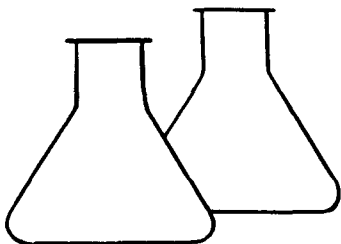
Note: Regulatory Limits based on 40 CFR part 261 subpart C
section 261.24, July 1, 1992

ND - Parameter not detected at the stated detection limit.

Comments:

Devin L. O'Brien
Analyst

Maria D. Young
Review



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EPA METHOD 8090 NITROAROMATICS AND CYCLIC KETONES

Client:	NA	Project #:	NA
Sample ID:	Laboratory Blank	Date Reported:	08-18-93
Laboratory Number:	0817tbn.blk	Date Sampled:	NA
Sample Matrix:	Hexane	Date Received:	NA
Preservative:	NA	Date Extracted:	NA
Condition:	NA	Date Analyzed:	08-17-93
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	5.0
Nitrobenzene	ND	0.020	5.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

SURROGATE RECOVERY:	Parameter	Percent Recovery
	2-fluorobiphenyl	95 %

Method: Method 1311, Toxicity Characteristic Leaching Procedure
Test Methods for Evaluating Solid Waste, SW-846, USEPA,
Sept. 1986.

Method 3510, Separatory Funnel Liquid-Liquid Extraction,
Test Methods for Evaluating Solid Waste, SW-846, USEPA,
Sept. 1986.

Method 8090, Nitroaromatics and Cyclic Ketones,
Test Methods for Evaluating Solid Waste, SW-846,
USEPA, Sept. 1986

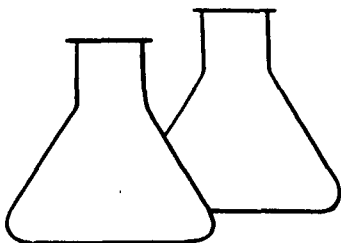
Note: Regulatory Limits based on 40 CFR part 261 subpart C
section 261.24, July 1, 1992

ND - Parameter not detected at the stated detection limit.

Comments:

Kevin L. Jensen
Analyst

Morgan D. Young
Review



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EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS - BLANKS

Client:	NA	Project #:	NA
Sample ID:	Blanks	Date Reported:	08-20-93
Laboratory Number:	NA	Date Sampled:	NA
Sample Matrix:	TCLP Extract	Date Received:	NA
Analysis Requested:	TCLP	Date Analyzed:	08-20-93
Condition:	NA	Date Extracted:	NA

Parameter	Instrument Blank (mg/L)	Extraction Sol. Blank (mg/L)	Det. Limit (mg/L)
ARSENIC	ND	ND	0.001
BARIUM	ND	ND	0.1
CADMIUM	ND	ND	0.001
CHROMIUM	ND	ND	0.001
LEAD	ND	ND	0.001
MERCURY	ND	ND	0.002
SELENIUM	ND	ND	0.001
SILVER	ND	ND	0.01

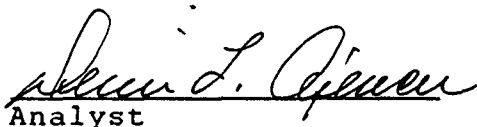
Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

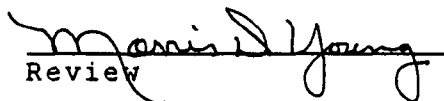
Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

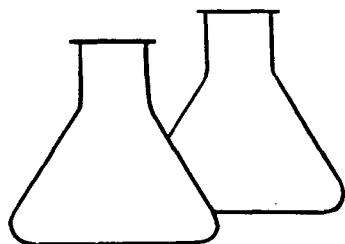
Method 1311, Toxicity Characteristic Leaching Procedure
SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments:


Analyst


Review



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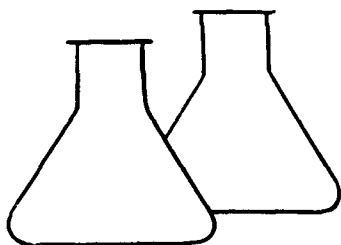
EPA METHODS 8010/8020
AROMATIC VOLATILE ORGANICS/HALOGENATED VOLATILE ORGANICS
Pg 1/2

Client:	NA	Project #:	NA
Sample ID:	Method Blank	Date Reported:	08-17-93
Laboratory Number:	0816TCV.MB	Date Sampled:	NA
Sample Matrix:	Soil	Date Received:	NA
Preservative:	Cool	Date Extracted:	08-16-93
Condition:	Cool & Intact	Date Analyzed:	08-17-93
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.007	0.2
2-Butanone	ND	0.005	200
1,1-Dichloroethene	ND	0.005	0.7
Chloroform	ND	0.005	6.0
Carbon Tetrachloride	ND	0.005	0.5
Benzene	ND	0.005	0.5
1,2-Dichloroethene	ND	0.005	0.5
Trichloroethene	ND	0.005	0.5
Tetrachloroethene	ND	0.005	0.7
Chlorobenzene	ND	0.005	100
1,4-Dichlorobenzene	ND	0.005	7.5

SURROGATE RECOVERIES:

Parameter	Percent Recovery
Bromochloromethane	103 %
Bromofluorobenzene	105 %



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EPA METHODS 8010/8020
AROMATIC VOLATILE ORGANICS/HALOGENATED VOLATILE ORGANICS
Pg 2/2

Sample ID: Method Blank
Laboratory Number: 0816TCV.MB

Method: Method 1311, Toxicity Characteristic Leaching Procedure
Test Methods for Evaluating Solid Waste, SW-846, USEPA,
Sept. 1986

Method 5030, Purge-and-Trap, Test Methods for Evaluating
Solid Waste, SW-846, USEPA, Sept. 1986

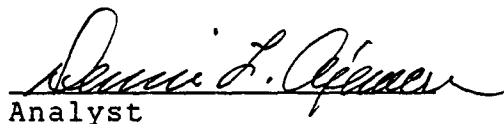
Method 8010, Halogenated Volatile Organics, Test Methods
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

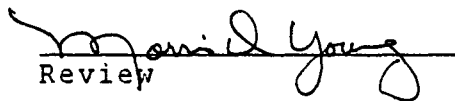
Method 8020, Aromatic Volatile Organics, Test Methods for
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

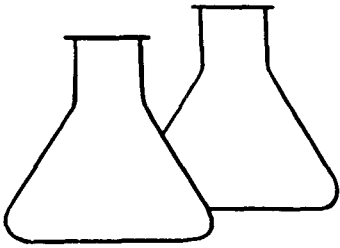
Note: Regulatory Limits based on 40 CFR part 261 Subpart C
section 261.24, July 1, 1992

ND - Parameter not detected at the stated detection limit.

Comments:


Analyst


Review



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8040 PHENOLS

Client:	NA	Project #:	NA
Sample ID:	Method Blank	Date Reported:	08-18-93
Laboratory Number:	0816TCA.MB	Date Sampled:	NA
Sample Matrix:	Soil	Date Received:	NA
Preservative:	Cool	Date Extracted:	08-16-93
Condition:	Cool & Intact	Date Analyzed:	08-17-93
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200.0
p,m-Cresol	ND	0.040	200.0
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400.0
Pentachlorophenol	ND	0.020	100.0

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	2-fluorophenol	99 %
	2,4,6-tribromophenol	98 %

Method: Method 1311, Toxicity Characteristic Leaching Procedure
Test Methods for Evaluating Solid Waste, SW-846, USEPA,
Sept. 1986.

Method 3510, Separatory Funnel Liquid-Liquid Extraction,
Test Methods for Evaluating Solid Waste, SW-846, USEPA,
Sept. 1986.

Method 8040, Phenols, Test Methods for Evaluating Solid
Waste, SW-846, USEPA, Sept. 1986.

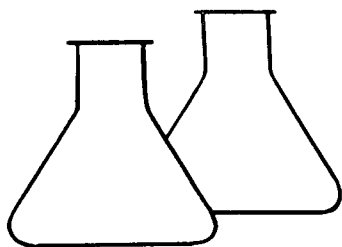
Note: Regulatory Limits based on 40 CFR part 261 subpart C
section 261.24, July 1, 1992

ND.- Parameter not detected at the stated detection limit.

Comments:

Kevin L. Jensen
Analyst

Maris D. Young
Review



ENVIROTECH LABS

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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8090 NITROAROMATICS AND CYCLIC KETONES

Client:	NA	Project #:	NA
Sample ID:	Method Blank	Date Reported:	08-18-93
Laboratory Number:	0816TBN.MB	Date Sampled:	NA
Sample Matrix:	Soil	Date Received:	NA
Preservative:	Cool	Date Extracted:	08-16-93
Condition:	Cool and Intact	Date Analyzed:	08-17-93
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	5.0
Nitrobenzene	ND	0.020	5.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

SURROGATE RECOVERY:	Parameter	Percent Recovery
	2-fluorobiphenyl	101 %

Method: Method 1311, Toxicity Characteristic Leaching Procedure
Test Methods for Evaluating Solid Waste, SW-846, USEPA,
Sept. 1986.

Method 3510, Separatory Funnel Liquid-Liquid Extraction,
Test Methods for Evaluating Solid Waste, SW-846, USEPA,
Sept. 1986.

Method 8090, Nitroaromatics and Cyclic Ketones,
Test Methods for Evaluating Solid Waste, SW-846,
USEPA, Sept. 1986

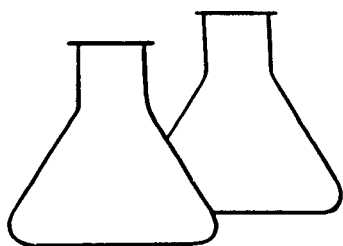
Note: Regulatory Limits based on 40 CFR part 261 subpart C
section 261.24, July 1, 1992

ND - Parameter not detected at the stated detection limit.

Comments:

Kevin L. Agnew
Analyst

Moni D. Young
Review



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5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	NA	Project #:	NA
Sample ID:	Method Blank	Date Reported:	08-20-93
Laboratory Number:	08-16-MB	Date Sampled:	NA
Sample Matrix:	Soil	Date Received:	NA
Preservative:	NA	Date Analyzed:	08-20-93
Condition:	NA	Date Extracted:	08-16-93
		Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
ARSENIC	ND	0.001	5.000
BARIUM	ND	0.1	100.0
CADMIUM	ND	0.001	1.000
CHROMIUM	ND	0.001	5.000
LEAD	ND	0.001	5.000
MERCURY	ND	0.002	0.200
SELENIUM	ND	0.001	1.000
SILVER	ND	0.01	5.00

Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

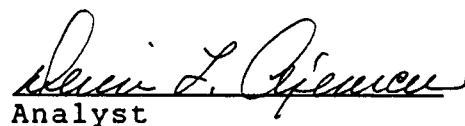
Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

Method 1311, Toxicity Characteristic Leaching Procedure
SW-846, USEPA, Nov. 1990

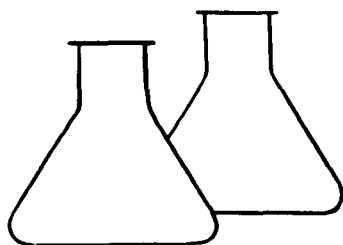
Note: Regulatory Limits based on 40 CFR part 261 subpart C
section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

Comments: TCLP Extraction Method Blank


Analyst


Review



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PHONE: (505) 632-0615 • FAX: (505) 632-1865

** QUALITY ASSURANCE EPA METHODS 8010/8020
MATRIX SPIKE - AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	NA	Project #:	NA
Sample ID:	Laboratory Spike	Date Reported:	08-17-93
Laboratory Number:	5896STCV.	Date Sampled:	NA
Sample Matrix:	Soil	Date Received:	NA
Analysis Requested:	TCLP	Date Analyzed:	08-17-93
Condition:	NA		

Parameter	Sample Result (ug/L)	Spike Added (ug/L)	Spiked Sample Result (ug/L)	Det. Limit (ug/L)	Percent Recovery	SW-846 % Rec. Accept. Range
Vinyl Chloride	ND	10.0	13.2	7.4	91	28-163
2-Butanone	ND	10.0	10.2	5.5	93	47-132
1,1-Dichloroethene	ND	10.0	11.3	5.4	102	43-143
Chloroform	ND	10.0	9.6	5.0	96	49-133
Carbon Tetrachloride	ND	10.0	10.2	5.0	102	43-143
Benzene	ND	10.0	9.7	5.0	95	39-150
1,2-Dichloroethane	ND	10.0	9.7	5.2	97	51-147
Trichloroethene	ND	10.0	9.0	5.0	89	35-146
Tetrachloroethene	ND	10.0	13.2	5.0	105	26-162
Chlorobenzene	ND	10.0	10.8	5.0	108	38-150
1,4-Dichlorobenzene	ND	10.0	9.8	5.0	98	42-143

Method: Method 1311, Toxicity Characteristic Leaching Procedure
Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

Method 5030, Purge-and-Trap, Test Methods for Evaluating
Solid Waste, SW-846, USEPA, Sept. 1986

Method 8010, Halogenated Volatile Organics, Test Methods
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

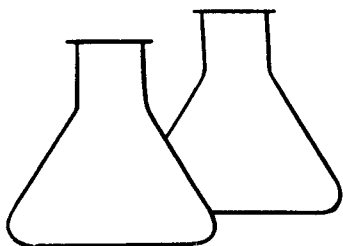
Method 8020, Aromatic Volatile Organics, Test Methods for
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments:

Kevin L. Gaudin
Analyst

M. D. Young
Review



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

QUALITY ASSURANCE REPORT
EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS - MATRIX SPIKE

Client:	NA	Project #:	NA
Sample ID:	NA	Date Reported:	08-20-93
Laboratory Number:	NA	Date Sampled:	NA
Sample Matrix:	TCLP Extract	Date Received:	NA
Analysis Requested:	TCLP	Date Analyzed:	08-20-93
Condition:	NA	Date Extracted:	NA

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
ARSENIC	0.100	ND	0.101	101
BARIUM	10.0	2.8	12.7	99
CADMIUM	0.100	0.007	0.104	97
CHROMIUM	0.200	0.007	0.206	99
LEAD	0.200	ND	0.201	101
MERCURY	0.050	ND	0.052	104
SELENIUM	0.100	ND	0.102	102
SILVER	1.00	ND	0.997	100

QA ACCEPTANCE CRITERIA:	Parameter	Acceptance Range %
	TCLP Metals	80 - 120

Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

Method 1311, Toxicity Characteristic Leaching Procedure
SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments:

Analyst

Review

San Juan repro Form 578-81

ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014
FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615

RECORD OF COMMUNICATION

JOB NUMBER:

TO: MORRIS D. YOUNG

FROM: ROGER ANDERSON - OCD

DATE: August 9, 1993

TIME: 9:28

PHONE NUMBER: 827-5884

TYPE OF CONTACT: ^{telepho} Requested authorization to clean up Gary Emery
SUBJECT: Credo oil spill on Highway 84 1 1/2 miles

NOTES: South of Colorado / New Mexico Border.

Roger said he had received Verbal authorization from the ED on an Emergency basis to authorize clean up, Transport & Storage of the spill material on plastic at our NMOC facility. The material has to be covered with plastic and TCIP tested. A report to NMOC & ED is required. Roger stated he would log in this authorization on his notes today.

(Signature)

SUMMARY OF COMMUNICATION:

ENVIROTECH INC.
5796 U.S. HIGHWAY 64-3014
FARMINGTON, NM 87401
PHONE: (505) 632-0615 FAX: (505) 632-1865

ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014
FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615

August 16, 1993

Mr. William Olson
Hydrologist
New Mexico Oil Conservation Division
Environmental Bureau
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

RE: Sampling Plan
Gary Energy Transportation Spill
U.S. Highway 84, Mile Marker 286
Rio Arriba County, New Mexico

Project: 93178

Dear Mr. Olson:

Following our conversation of this morning, this letter is to confirm the sampling plan to close the spill site for the referenced spill incident.

Abatement of the spill is currently on-going with the excavation and removal of soils contaminated with crude oil from a Gary Energy Transportation truck which overturned and lost approximately 80 bbl. Envirotech's field crew is removing those soils which have visible discoloration and/or distinct petroleum odor.

To verify closure the following sampling plan will be performed to confirm closure using the current pit closure guidelines⁽¹⁾.

A minimum of one (1) grab soil sample per every thirty (30) linear feet of five foot (5') sidewall will be collected and analyzed for hydrocarbon contamination.

A minimum of one (1) composite soil sample per 1000 square feet of excavation bottom will be collected and analyzed for hydrocarbon contamination. Five (5) grab soil samples collected arbitrarily from the sample area will be used for composite sample.

Hydrocarbon contamination to be tested for total petroleum hydrocarbons (TPH) per EPA 418.1 (soil modification) and total volatile organic vapors per the Field Soil Vapor Headspace Method ⁽¹⁾. The remediation levels for this site are based on a NMOCDC "Ranking Score" of >19 [ie: Organic Vapors and TPH < 100 ppm] ⁽¹⁾.

A report documenting the abatement will be prepared following completion of this project.

This sampling plan anticipates that the results of the pending TCLP analyses will classify the wastes as non-hazardous per RCRA [40 CFR 263], and the only contamination of concern is hydrocarbons.

Please contact Mr. Michael Lane at (505) 632-0615 if you have any questions and/or further comments. Thank you for your assistance with this project.

Respectfully submitted,
ENVIROTECH INC.


Michael K. Lane, P.E.
Geological Engineer

CC: Denny Foust, NMOCD Aztec Office
Dale Wright, Gary Energy Transportation, Bloomfield Office

Reference: (1) "Unlined Surface Impoundment Closure Guidelines," New Mexico Oil Conservation Division, February 1993.

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PHONE: (505) 632-0615

MONTH OF

Aug

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PHONE: (505) 632-0615

Bill of Lading

MONTH OF,

AUGUST 93

[illegible]

PHONE: (505) 632-0615

Bill of Lading

MONTH OF

Aug

[illegible]

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PHONE: (505) 632-0615

Bill of Lading

MONTH OF

August

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Bill of Lading

PHONE: (505) 632-0615

MONTH OF

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PHONE: (505) 632-0615

Bill of Lading

MONTH OF

Aug 11-93

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PHONE: (505) 632-0615

ENTERED AUG 16 1993

Bill of Lading

MONTH OF

TRANSPORTING COMPANY

COMPLETE DESCRIPTION OF SHIPMENT

MANIFEST

DATE _____ No. _____

POINT OF ORIGIN

DESTINATION

MATERIAL

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COMPANY

TRK #

DRIVER SIGNATURE

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CONT'D	HOLD AREAS
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ENVIRONMENTAL

And L. Dozer

[illegible]

PHONE: (505) 632-0615

Bill of Lading

MONTH OF

Aug

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Bill of Lading

PHONE: (505) 632-0615

MONTH OF

Aug

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Bill of Lading

PHONE: (505) 632-0615

MONTH OF

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Bill of Lading

PHONE: (505) 632-0615

MONTH OF AUGUST 93

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ENTERED AUG 27 1993
Bill of Lading

PHONE: (505) 632-0615

MONTH OF _____

MONTH OF *August* 19*53*

MANIFEST		COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
DATE	No.	POINT OF ORIGIN	DISTINATION	MATERIAL	GRID	YDS	COMPANY	TRK #	DRIVER SIGNATURE		
1-16	1	Pharmaceutical Co US - 8450 LAWSON	at Chemo Co	FIL		20	ENVU ROTEC H	ESS			
1-16	1	US 84 MOR. = 286	LAND LANS ₂	CONT	A4A	20	ENVU ROTEC H	ESS			

52

Bill of Lading

PHONE: (505) 632-0615

MONTH OF

8-16-73

MANIFEST		COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY			
DATE	No.	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	COMPANY	TRK #	DRIVER SIGNATURE	
8-16	1	Bloomfield House	Hay 84 M. Parker	Full Part		14	EnviroTech	8521	Richard Long	
8-16	1	Hay 84 M. Parker	Land Term #2	Cont Part		14		8523		



31/65

PHONE: (505) 632-0615

Bilfinger+Berger

MONTH OF

August

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4021

PHONE: (505) 632-0615

Bill of Lading

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MONTH OF

TRANSPORTING COMPANY

[illegible]

PHONE: (505) 632-0615

Bill of Lading

MONTH OF

8-17-93

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PHONE: (505) 632-0615

Bill of Lading

MONTH OF APRIL 1975

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PHONE: (505) 632-0615

Bill of Lading

MONTH OF Aug.

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4012

PHONE: (505) 632-0615

Bill of Lading

MONTH OF August 1993

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on R/S and order were

MONTH OF August 1993

TRANSPORTING COMPANY

MANIFEST		COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY			
DATE	No.	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	COMPANY	TRK #	DRIVER SIGNATURE	
8-18	1	Bloomfield GRAY	US - 84 MAY 28 26	FULL D, 1st		20	END, P, 1st	ESS	[Signature]	
8-18	2								[Signature]	
8-18	1	US - 84 MAY 28 26	END, P, 1st	FULL D, 1st		20	END, P, 1st	ESS	[Signature]	
8-18	2								[Signature]	

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MANIFEST

COMPLETE DESCRIPTION OF SHIPMENT

TRANSPORTING COMPANY

DATE / No.

POINT OF ORIGIN

DESTINATION

MATERIAL

GRID YDS

COMPANY

TRK #

DRIVER SIGNATURE

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Environrotech

5-59

K. Lawrence

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Gary Energy

1 and sam 2	contaminated
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Enviroided

E-59

P. Lawrence

PHONE: (505) 632-0615

ENTERED AUG 27 1993

Bill of Lading

MONTH OF Dec 93

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ENVIRONMENT

TRANSPORTING COMPANY

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ENVIRONMENT

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PHONE: (505) 632-0615

Bill of Lading

PHONE: (505) 632-0615

MONTH OF

Aug 19 1993

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PHONE: (505) 632-0615

MONTH OF AUGUST 1943

COMPLETE DESCRIPTION OF SHIPMENT

TRANSPORTING COMPANY

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ENTERED AUG 27 1992
Bill of Lading

PHONE: (505) 632-0615

TRANSPORTING COMPANY

MONTH OF

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PHONE: (505) 632-0615

Bill of Lading

MONTH OF Sept

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PHONE: (505) 632-0615

Bill of Lading

MONTH OF

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ENTERED AUG 27 1993
Bill of Lading

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PHONE: (505) 632-0615

Bill of Lading

MONTH OF

August 1993

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PHONE: (505) 632-0615

Bill of Lading

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MONTH OF AUGUST 1993

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Bill of Lading

PHONE: (505) 632-0615

MONTH OF

TRANSPORTING COMPANY

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PHONE: (505) 632-0615

Bill of Lading

MONTH OF

9-23-92

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MONTH OF AUGUST 93

TRANSPORTING COMPANY

[illegible]

PHONE: (505) 632-0615

Bill of Lading

MONTH OF

AGUST 93

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