REPORT
INDEPENDENT REMEDIAL ACTION
GE CAPITAL, TRANSPORT INTERNATIONAL POOL, INC.
9801 MARTIN LUTHER KING JUNIOR WAY SOUTH
SEATTLE, WASHINGTON

For

GE CAPITAL, TRANSPORT INTERNATIONAL POOL, INC.
D&M JOB NO. 28171-391-122
June 10, 1996

DAMES & MOORE

DAMES & MOORE
500 MARKET PLACE TOWER, 2025 FIRST AVENUE, SEATTLE, WASHINGTON 98121
(206) 728-0744 FAX: (206) 727-3350

June 10, 1996

Ms. Elaine P. Atkinson
Environmental Scientist
Washington Department of Ecology
3190 160th Avenue SE
Bellevue, Washington 98008-5452

Report Submittal
Independent Remedial Action
GE Transport International Pool Facility
9801 Martin Luther King Jr. Way South
Seattle, Washington
D&M Job No. 28171-391-122

Dear Ms. Atkinson:

On behalf of GE Transport International Pool (TIP), Dames & Moore is submitting two copies of the above referenced report for review under the Independent Remedial Action Program (IRAP). This report documents the results of an Independent Remedial Action of soil that were impacted by diesel fuel when a refrigeration unit tank was found to be leaking. This report is prepared in accordance with Washington Department of Ecology's (Ecology) "Guidance on Preparing Independent Remedial Action Cleanup Reports under MTCA" dated March 1, 1994.

The remedial action consisted of the excavation of soil with diesel concentrations exceeding the Model Toxics Control Act (MTCA) Method A cleanup level of 200 mg/kg and the treatment of affected soil at the permitted thermal desorption facility in Tacoma operated by TPS Technologies, Inc. Based on the results presented in this report, soil impacted by the diesel fuel release identified at the site have been removed and the MTCA Method A soil cleanup levels for TPH as diesel have been met.

The remedial action implemented is consistent with the Ecology document "Guidance for Remediation of Petroleum Contaminated Soils" (Document 91-30, revised April 1994) and is intended to allow GE TIP to obtain a determination of "No Further Action" from Ecology's Independent Remedial Action Program (IRAP). Consequently, we respectfully request on the behalf of GE Capital that Ecology issue a letter stating no further action is required at the facility.

Please contact me at (206) 728-0744 or Ms. Karen Kern, Manager of Environmental Programs with GE TIP at (610) 648-6764 if you require additional information or wish to discuss our report.

Sincerely,

Dames & Moore, Inc.

Julie K Harvey

Julie K. Harvey
Project Manager

cc: Ms. Karen Kern (w/ report)
Ms. Cloe Hutto (w/ report)

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INDEPENDENT REMEDIAL ACTION
GE CAPITAL COMPANY, TRANSPORT INTERNATIONAL POOL, INC.
9801 MARTIN LUTHER KING WAY SOUTH
SEATTLE, WASHINGTON

EXECUTIVE SUMMARY

This report documents the results of an Independent Remedial Action of soil containing petroleum hydrocarbons at the GE Capital Company, Transport International Pool, Inc. (TIP) facility located at 9801 Martin Luther King Junior Way South in Seattle, Washington. The property is owned by GE Capital Company, TIP. Approximately 80 feet by 45 feet surface area of soils were impacted by diesel fuel when a refrigeration unit tank was found to be leaking.

The remedial action consisted of the excavation of soil with diesel concentrations exceeding the MTCA Method A cleanup level of 200 mg/kg and the treatment of affected soil at the permitted thermal desorption facility in Tacoma operated by TPS Technologies, Inc. The remedial action implemented is consistent with the Washington Department of Ecology document "Guidance for Remediation of Petroleum Contaminated Soils" (Document 91-30, revised April 1994). Based on the results presented in this report, soil impacted by the diesel fuel release identified at the site have been removed and the remaining soils met the MTCA Method A soil cleanup levels for TPH as diesel.

1.0 INTRODUCTION AND SITE DESCRIPTION

Presented in this report are the results of the Independent Remedial Action of petroleum hydrocarbons in soil at the GE Capital Company, TIP facility located at 9801 Martin Luther King Way South in Seattle, Washington (Figure 1). The Independent Remedial Action was conducted at this facility to remove petroleum-affected soil that contained petroleum hydrocarbons concentrations above the appropriate Washington Model Toxics Control Act (MTCA) Method A cleanup levels (WAC 173-340). This remedial action consisted of the excavation and removal of soils containing petroleum hydrocarbons released during refueling of a parked refrigerated truck trailer. The petroleum hydrocarbon impacted soils were removed and treated off site at a permitted facility.

The scope of the Independent Remedial Action implemented at the facility was intended to be consistent with the MTCA and the Washington Department of Ecology (Ecology) guidance, including "Guidance for Remediation of Petroleum Contaminated Soils," (Ecology, 1994). This report was prepared in accordance with the Ecology draft guidance on "Preparing Independent Remedial Action Reports Under the Model Toxics Control Act, Chapter 70.105D RCW" (Publication No. 94-18, March 1, 1994). This report documents the remedial action, areas in which a remedial action occurred, affected media, laboratory results, and soil treatment.

1.1 SITE DESCRIPTION AND OPERATIONS

The subject property is located at 9801 Martin Luther King Way South in Seattle, Washington. A site map is presented in Figure 2. The property is currently used for staging truck trailers. The surrounding land use is predominately commercial and/or light industrial.

1.2 SITE TOPOGRAPHY AND SLOPE

The subject property is located in SE¼, NW¼ Section 3, Township 23 North, Range 4 East with a latitude of approximately 47°31' and a longitude of approximately 122°17'. Topographic coverage of the site vicinity is provided by the U.S. Geological Survey, Seattle South, Washington, 7.5 minute quadrangle, dated 1983 (Figure 1). There is little topographic relief across the site. The elevation at the site is approximately 15 feet above Mean Sea Level.

1.3 GEOLOGY AND HYDROGEOLOGY

Geologic maps indicate the site vicinity is located in an area that has where extensive excavation, filling or construction has modified or obscured the original geology. The thickness of fill materials in the Duwamish River valley is typically 50 feet or greater and consists of sand, silt, clay and some gravel (Leisch, Price & Walters, 1963). Ground water in the Duwamish River valley is usually encountered at depths of 7 to 10 feet below ground surface. Based on topographic relief of the area, the overall direction

of movement of ground water in this portion of King County is probably to the west toward the Duwamish Waterway.

2.0 RELEASE INFORMATION

There has been one known release at the site. Approximately 50 gallons of diesel fuel was released to the surface soils due to a crack in a fuel tank of a parked refrigerated truck trailer. Shallow surface staining was visible over an area of approximately 80 feet by 45 feet (3,600 square feet). Total depth of the impacted soil was approximately 6 inches. This remedial action consisted of the excavation and removal of petroleum-affected soils. Ground water was not encountered during the excavation.

3.0 SOIL CHARACTERIZATION AND INDEPENDENT REMEDIAL ACTION

The scope of this soil characterization and independent remedial action was to remove soil containing TPH concentrations in exceedance of the applicable cleanup level. The scope of work implemented included:

- Collect one composited sample of the stained surface soils to characterize the impacted soils
- Removal of petroleum-affected soil to an offsite permitted facility for treatment by thermal desorption
- Collection of post-excavation confirmatory samples for chemical analysis to demonstrate that TPH concentrations in soil were below the MTCA Method A soil cleanup levels
- Backfilling the excavation and covering the area with gravel

Soil sampling, excavation, backfilling, and transport of removed materials to the selected treatment facility was conducted by Envirotech Systems, Inc. (Seattle, Washington) who was subcontracted to Clean Harbors Environmental Services, Inc. (Commerce, California) who was contracted directly to GE Capital. Clean Harbor's and Envirotech's work was monitored by a Dames & Moore geologist who field-screened the excavated soil, guided excavation, and selected post-excavation soil sample locations and observed post-excavation soil sample collection. Soils were transported to TSP, Inc. for treatment of the petroleum hydrocarbon contaminated soils by high temperature thermal treatment and asphalt incorporation at their Ecology-permitted facility in Tacoma, Washington.

3.1 SELECTION OF CLEANUP STANDARDS

Since petroleum hydrocarbon as diesel was the only compound suspected at the site, the site was an appropriate candidate for a routine cleanup as defined in WAC 173-340-130. Therefore, Method A cleanup levels were selected for soil at the site as specified in WAC 173-340-740. The MTCA Method

A cleanup level for diesel and oil range hydrocarbons in soil is 200 mg/kg. The goal of the soil cleanup actions at the site was to remove soils containing hydrocarbon concentrations above the cleanup levels.

3.2 SOIL ASSESSMENT

On March 27, 1996, Envirotech Systems, Inc. collected a total of three surface soil samples from the visually stained area to provide a site-specific characterization of the spill. The three soil samples were combined into one composite sample (labeled 6-082-10-1). The location of the three soil samples is shown on Figure 2. The composite sample was submitted to On-Site Environmental, an Ecology-accredited laboratory for analysis of diesel range petroleum hydrocarbons by Washington method WTPH-D (extended). A concentration of 8,800 mg/kg of TPH as diesel (with TPH components in the carbon range from C6 to C20) was detected in the composite sample. The laboratory analytical reports including the sample chromatogram is presented in Appendix A.

3.3 REMEDIATION, CONFIRMATORY SAMPLING AND DISPOSAL/TREATMENT OF SOILS

Soils were Microtip photoionization detector (PID) field screened during the excavation process. Soils in the stained area were excavated until visual and PID screening did not indicate the presence of hydrocarbons. Soil in an area of approximately 80 feet by 45 feet was removed to depths ranging from 4 inches to 6 inches (Figure 3). Imported fill was encountered to the total depth of the excavation. Photographs of the excavation activities are provided in Figure 2.

Approximately 38 cubic yards of soils containing TPH as diesel at concentrations above 200 mg/kg were removed from the site on April 6, 1996 and transported to TSP, Inc. for treatment by high temperature thermal treatment and asphalt incorporation. Copies of the soil disposal/treatment weight manifests are presented in Appendix B.

Following soil removal, seven confirmatory soil samples were collected and submitted to On-Site Environmental for analysis of TPH as diesel (extended) in order to evaluate if the cleanup level was achieved. Soil samples were collected using dedicated sampling spoons directly into laboratory provided jars. Soils consisted of gravelly sand, however, pieces of asphaltic concrete were also present in the subsurface soils. Soil sample locations are shown on Figure 3.

The results of the confirmatory sampling and analyses are summarized in Table 1 and indicate that the cleanup level of 200 mg/kg was achieved at 6 of the 7 sample locations. TPH in the carbon range of C16 to C34 was detected in SS-2 through SS-5 and SS-7 at concentrations ranging from 32 mg/kg to 70 mg/kg which is below the cleanup level. At location SS-1, TPH was detected at a concentration of 390 mg/kg, however, the chromatogram for sample SS-1 indicates the carbon range of TPH components was from C16 to C34. TPH was not detected in soil sample SS-6. The carbon range found in confirmatory soil samples SS-1 through SS-7 is heavier than the site-specific diesel characterization sample (6-082-10-1) where TPH ranged from C6 to C20. The TPH detection in the confirmatory soil samples (SS-1 through SS-7) appears

to be attributed to the presence of asphalt rather than diesel associated with the spill. Therefore, the TPH concentration in SS-1 attributed to diesel is below the 200 mg/kg cleanup level. The laboratory analytical report including sample chromatograms is presented in Appendix A.

Following sampling, the excavations were backfilled with clean fill and compacted with the backhoe.

4.0 CONCLUSIONS

The Independent Remedial Action (IRA) associated with the removal of diesel affected soils at the Seattle GE TIP facility has been completed. Pursuant to the IRA program requirements, a copy of the IRA Report Summary Form is presented in Appendix C. Based on the results presented in this report, soil impacted by the diesel fuel release identified at the site have been removed and the remaining soils met the MTCA Method A soil cleanup levels for TPH as diesel.

5.0 REFERENCES

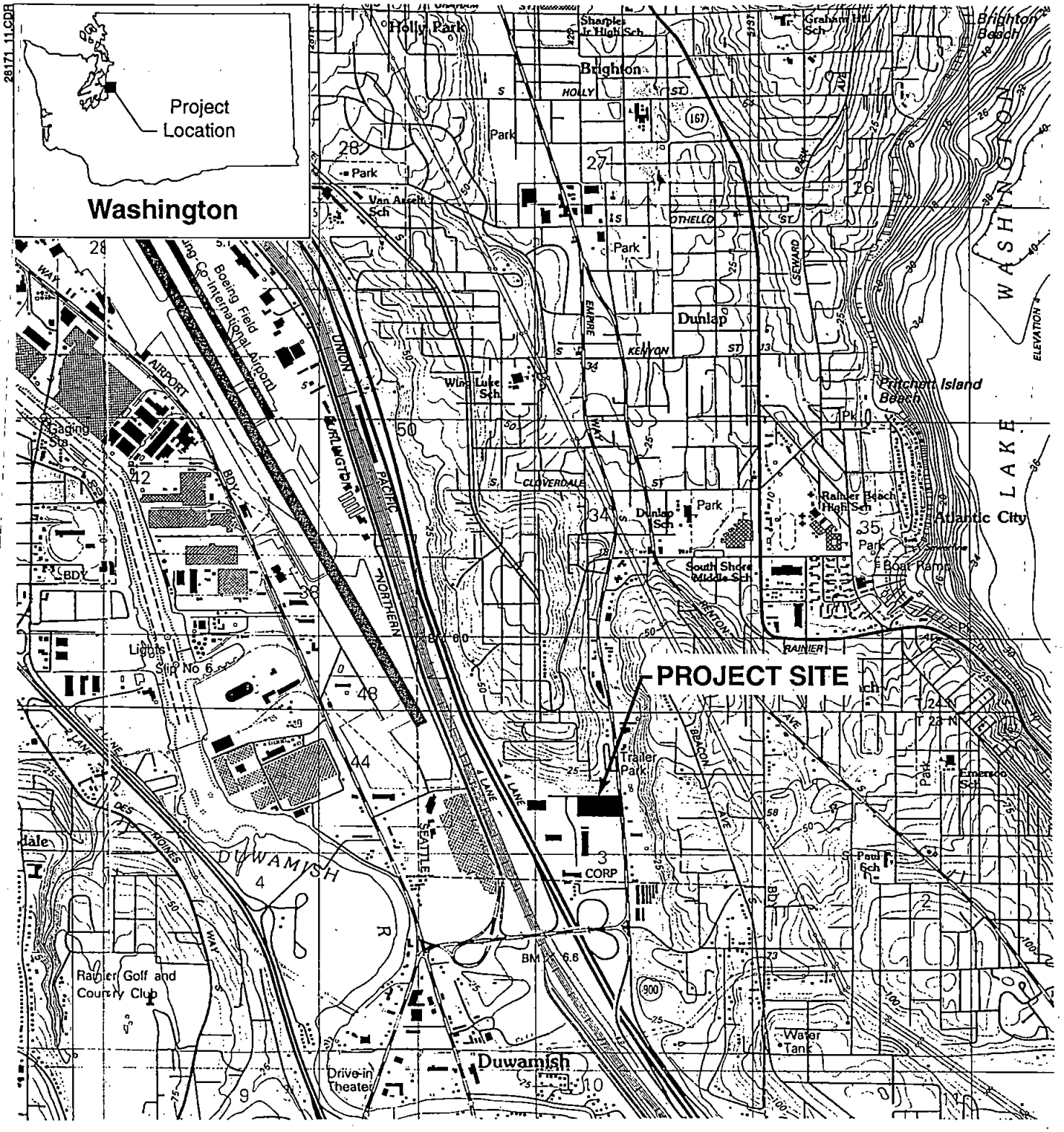
Washington Department of Ecology, 1994a, Draft Guidance on Preparing Independent Remedial Action Reports, Publication No. 94-18, March 1, 1994.

Washington Department of Ecology, 1994b, Guidance for Remediation of Petroleum Contaminated Soils, Publication No. 91-30, Revised April 1994.

Liesch, Pierce, and Walters, 1963, Geology and Ground-Water Resources of Northwestern King County. Water Supply Bulletin No. 20.

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS

Soil Sample Number	TPH Analytical Result (WTPH-D extended) mg/kg	TPH Carbon Range Detected
Site-Specific Characterization Sample		
6-082-10-1	8,800	C6 to C20
Post-Excavation Confirmatory Soil Samples		
6-082-10-SS1 (SS-1)	390	C20 to C30
6-082-10-SS2 (SS-2)	33	C20 to C30
6-082-10-SS3 (SS-3)	32	C20 to C30
6-082-10-SS4 (SS-4)	70	C20 to C30
6-082-10-SS5 (SS-5)	63	C20 to C30
6-082-10-SS6 (SS-6)	< 25	Not Applicable
6-082-10-SS7 (SS-7)	52	C16 to C36+



SOURCE: USGS 7.5-minute topographic map; Seattle South, Washington; dated 1983

SITE LOCATION MAP

Job No. 28171-391-122

DAMES & MOORE

GE Transport International
9801 Martin Luther King Way South, Seattle, Washington
FIGURE 1

Diesel Spill Area Prior to Removal Action
View to North (4/6/96)

Diese Spill Area Following Removal Action
View to North (4/6/96)

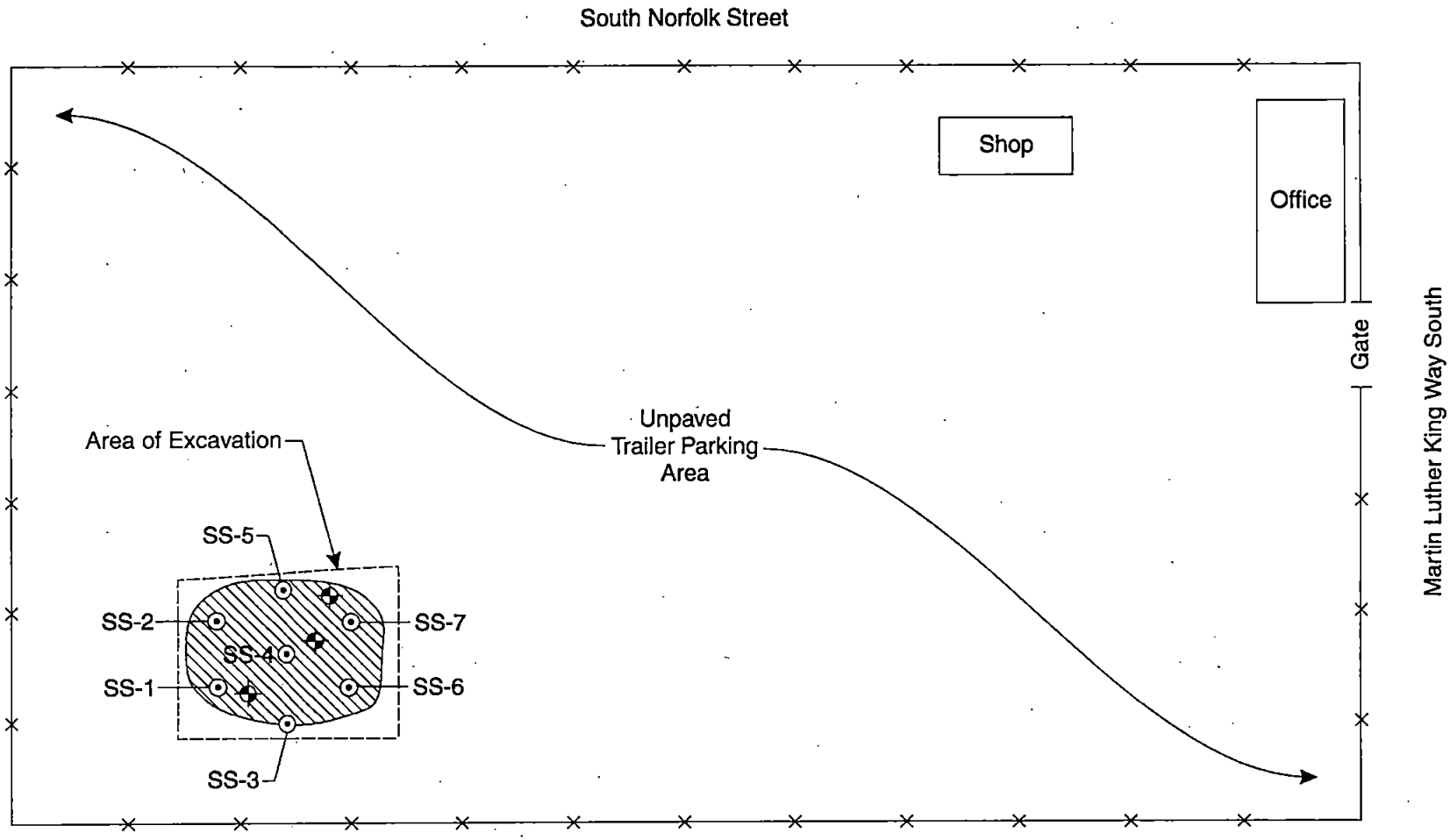
PHOTOGRAPHS

Job No. 28171-391-122

DAMES & MOORE

GE Transport International
9801 Martin Luther King Way South, Seattle, Washington
FIGURE 2

28171_12.CDR



LEGEND

- Soil samples combined to make composite sample 6-082-10-1 for spill characterization
- Confirmatory soil sample location and number (note sample number prefix is 6 -082-10)
- Approximate area of visual staining

N

0 50 100

Scale in Feet

SITE PLAN AND SOIL SAMPLE LOCATIONS

Job No. 28171-391-122

DAMES & MOORE

GE Transport International
9801 Martin Luther King Way South, Seattle, Washington
FIGURE 3

APPENDIX A

LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY FORMS

OnSite Environmental Inc.

April 1, 1996

Mike Jeffers
Envirotech Systems, Inc.
18820 Aurora Ave. No., Suite 201
Seattle, WA 98133

Re: Analytical Data for Project 6-082-10
Laboratory Reference No. 9603-095

Dear Mike:

Enclosed are the results of the analyses, and associated quality control data, of samples submitted on March 28, 1996.

The standard policy of OnSite Environmental Inc., is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Chemist

Enclosures

14924 NE 31st Circle • Redmond, WA 98052 • (206) 883-3881 • Fax (206) 885-4603

Date of Report: April 1, 1996
Samples Submitted: March 28, 1996
Lab Traveler: 03-095
Project: 6-082-10

WTPH-D (extended)

Date Extracted: 3-28-96
Date Analyzed: 3-28-96

Matrix: Soil
Units: mg/Kg (ppm)

Client ID	Lab ID	Dilution Factor	Total Petroleum Hydrocarbons	Surrogate Recovery*	Flags	MRL
6-082-10-1	03-095-1	50	**8800**	---	S,L	1250

*o-Terphenyl
S - Surrogate recovery data not available due to the necessary dilution of the sample.
L - Quantitated from C7-C34 as diesel fuel #2.

Date of Report: April 1, 1996
Samples Submitted: March 28, 1996
Lab Traveler: 03-095
Project: 6-082-10

WTPH-D
METHOD BLANK QUALITY CONTROL

Date Extracted: 3-28-96
Date Analyzed: 3-28-96

Matrix: Soil
Units: mg/Kg (ppm)

Lab ID: MB0328S1

	Dilution Factor	Total Petroleum Hydrocarbons	Surrogate Recovery*	Flags	MRL
Method Blank	1.0	ND	103%	L	25

* o-Terphenyl
L - Quantitated from C7-C34 as diesel fuel #2.

Date of Report: April 1, 1996
Samples Submitted: March 28, 1996
Lab Traveler: 03-095
Project: 6-082-10

WTPH-D
DUPLICATE QUALITY CONTROL

Date Extracted: 3-28-96
Date Analyzed: 3-28-96

Matrix: Soil
Units: mg/Kg (ppm)

Lab ID: 03-095-1

	Dilution Factor	Total Petroleum Hydrocarbons	Surrogate Recovery*	Flags	MRL
Sample	50	8150	---	S	1250
Duplicate	50	9630	---	S	1250
RPD		17%			

* o-Terphenyl
S - Surrogate recovery data not available due to the necessary dilution of the sample.

Date of Report: April 1, 1996
Samples Submitted: March 28, 1996
Lab Traveler: 03-095
Project: 6-082-10

WTPH-D
SPIKE BLANK QUALITY CONTROL

Date Extracted: 3-28-96
Date Analyzed: 3-28-96

Matrix: Soil
Units: mg/Kg (ppm)

Lab ID: SB0328S1

	Dilution Factor	Total Petroleum Hydrocarbons	Percent Recovery	Surrogate Recovery*	Flags	MRL
Spike Blank @ 100 ppm	1.0	104	104%	123%		25

* o-Terphenyl

Date of Report: April 1, 1996
Samples Submitted: March 28, 1996
Lab Traveler: 03-095
Project: 6-082-10

Date Analyzed: 3-28-96

% MOISTURE

Client ID	% Moisture
6-082-10-1	10

File=C:\CP\DATA1\032801.10R Sample name=03-095-1 1:50 Date printed= 03-29-1996 Time= 09:27:05
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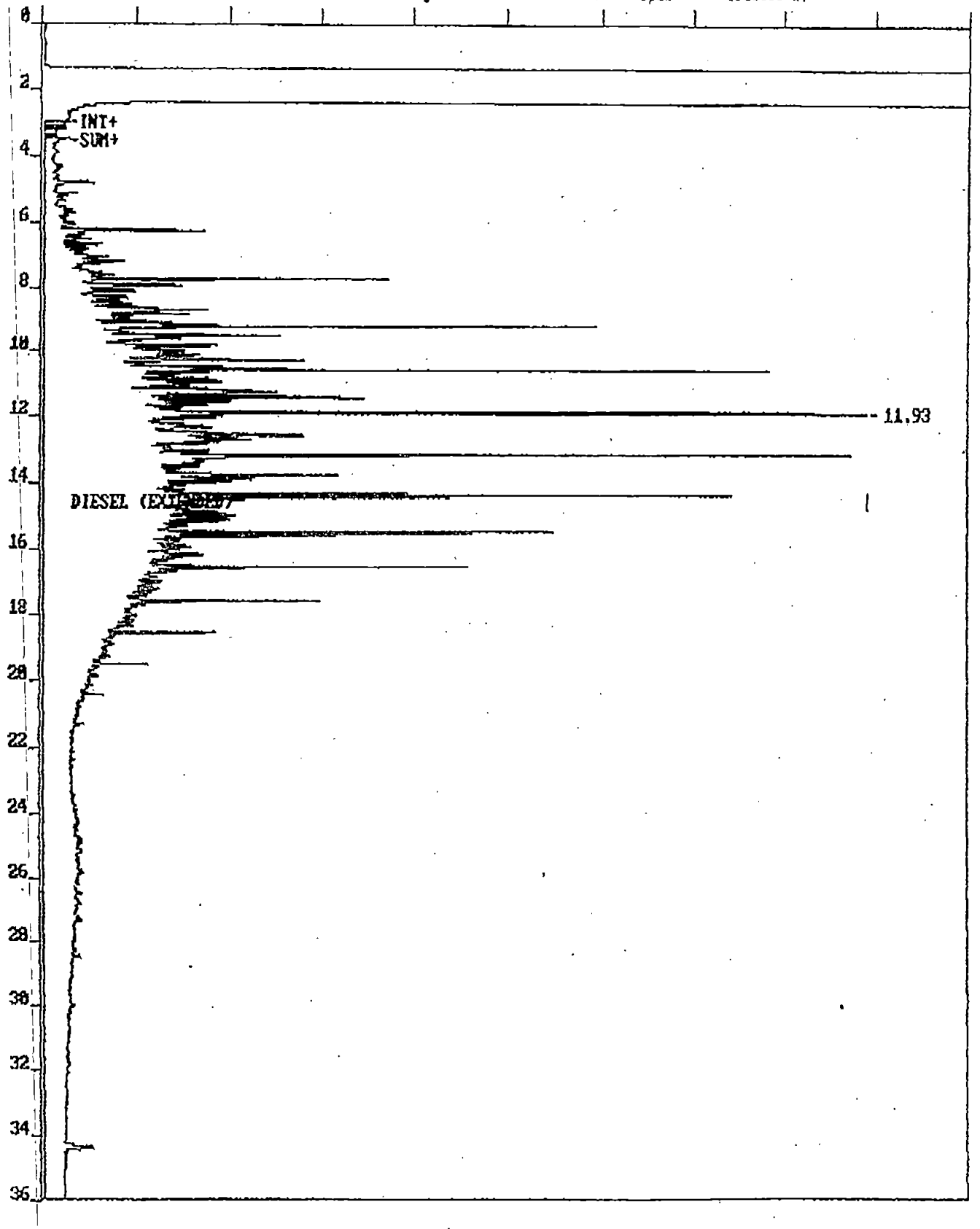

CHAIN OF CUSTODY RECORD & LABORATORY ANALYSIS REQUEST

ENVIROTECH SYSTEMS, INC.
16820 AURORA AVE NO., STE 201, SEATTLE, WA 98133
206-363-9000 FAX 206-546-1920

Project: 6-082-10 | Assigned Lab ID: 03-095 | Date: 3-28-96 | # of Coolers: 1 | Page 1 of 1

Client Contact: MIKE JEFFERS / LARRY CAMPBELL

Phone: (206) 363-9000

Samplers: LARRY CAMPBELL

Sample ID	Date	Time	Matrix	# Cont	Lab ID	Analysis Requested: WTPH-D EXTENDED	Analysis Requested: Dry Wt	Other
6-082-10-1	3-28	12:45	SOIL	1	1	X	X	

Comments/Special Instructions:
ABOVE SAMPLE IS A COMPOSITE OF 3 SAMPLES

Relinquished by (Signature)	Relinquished by (Signature)	Relinquished by (Signature)
Larry Campbell		
Printed Name: LARRY CAMPBELL	Printed Name:	Printed Name:
Company: ESI	Company:	Company:
Date: 3-28-96 Time:	Date: Time	Date: Time
~~Relinquished~~ by (Signature): RECV'D Teresa Hanson	Relinquished by (Signature):	Relinquished by (Signature):
Printed Name: Teresa Hanson	Printed Name:	Printed Name:
Company: OSE	Company:	Company:
Date: 3/28/96 Time 2:50	Date: Time	Date: Time

g:\forms\chain.lab

OnSite Environmental Inc.

April 15, 1996

Larry Campbell
Envirotech Systems, Inc.
18820 Aurora Ave. No., Suite 201
Seattle, WA 98133

Re: Analytical Data for Project GE/TIP
Laboratory Reference No. 9604-023

Dear Larry:

Enclosed are the results of the analyses, and associated quality control data, of samples submitted on April 8, 1996.

The standard policy of OnSite Environmental Inc., is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Chemist

Enclosures

14924 NE 31st Circle • Redmond, WA 98052 • (206) 883-3881 • Fax (206) 885-4603

Date of Report: April 15, 1996
Samples Submitted: April 8, 1996
Lab Traveler: 04-023
Project: GE/TIP

WTPH-D (extended)

Date Extracted: 4-08-96
Date Analyzed: 04-8&9-96

Matrix: Soil
Units: mg/Kg (ppm)

Client ID	Lab ID	Dilution Factor	Total Petroleum Hydrocarbons	Surrogate Recovery*	Flags	MRL
6-082-10-SS1	04-023-1	1.0	**390**	101%	L	25
6-082-10-SS2	04-023-2	1.0	**33**	126%	L	25
6-082-10-SS3	04-023-3	1.0	**32**	111%	L	25
6-082-10-SS4	04-023-4	1.0	**70**	118%	L	25
6-082-10-SS5	04-023-5	1.0	**63**	96%	L	25
6-082-10-SS6	04-023-6	1.0	**ND**	124%	L	25
6-082-10-SS7	04-023-7	1.0	**52**	104%	L	25

* o-Terphenyl
L - Quantitated from C7-C34 as diesel fuel #2.

Date of Report: April 15, 1996
Samples Submitted: April 8, 1996
Lab Traveler: 04-023
Project: GE/TIP

WTPH-D
METHOD BLANK QUALITY CONTROL

Date Extracted: 4-08-96
Date Analyzed: 4-08-96

Matrix: Soil
Units: mg/Kg (ppm)

Lab ID: MB0408S1

	Dilution Factor	Total Petroleum Hydrocarbons	Surrogate Recovery*	Flags	MRL
Method Blank	1.0	ND	98%	L	25

* o-Terphenyl
L - Quantitated from C7-C34 as diesel fuel #2.

Date of Report: April 15, 1996
Samples Submitted: April 8, 1996
Lab Traveler: 04-023
Project: GE/TIP

WTPH-D
DUPLICATE QUALITY CONTROL

Date Extracted: 4-08-96
Date Analyzed: 4-08-96

Matrix: Soil
Units: mg/Kg (ppm)

Lab ID: 04-020-4

	Dilution Factor	Total Petroleum Hydrocarbons	Surrogate Recovery*	Flags	MRL
Sample	1.0	ND	108%		25
Duplicate	1.0	ND	112%		25
RPD		NA			

* o-Terphenyl

Date of Report: April 15, 1996
Samples Submitted: April 8, 1996
Lab Traveler: 04-023
Project: GE/TIP

WTPH-D
SPIKE BLANK QUALITY CONTROL

Date Extracted: 4-08-96
Date Analyzed: 4-08-96

Matrix: Soil
Units: mg/Kg (ppm)

Lab ID: SB0408S1

	Dilution Factor	Total Petroleum Hydrocarbons	Percent Recovery	Surrogate Recovery*	Flags	MRL
Spike Blank @ 100 ppm	1.0	88.6	89%	109%		25
Spike Blank Duplicate	1.0	93.3	93%	112%		25
RPD		5.2%				

* o-Terphenyl

Date of Report: April 15, 1996
Samples Submitted: April 8, 1996
Lab Traveler: 04-023
Project: GE/TIP

Date Analyzed: 4-8-96

% MOISTURE

Client ID	% Moisture
6-082-10-SS1	12
6-082-10-SS2	11
6-082-10-SS3	12
6-082-10-SS4	11
6-082-10-SS5	11
6-082-10-SS6	12
6-082-10-SS7	4.0

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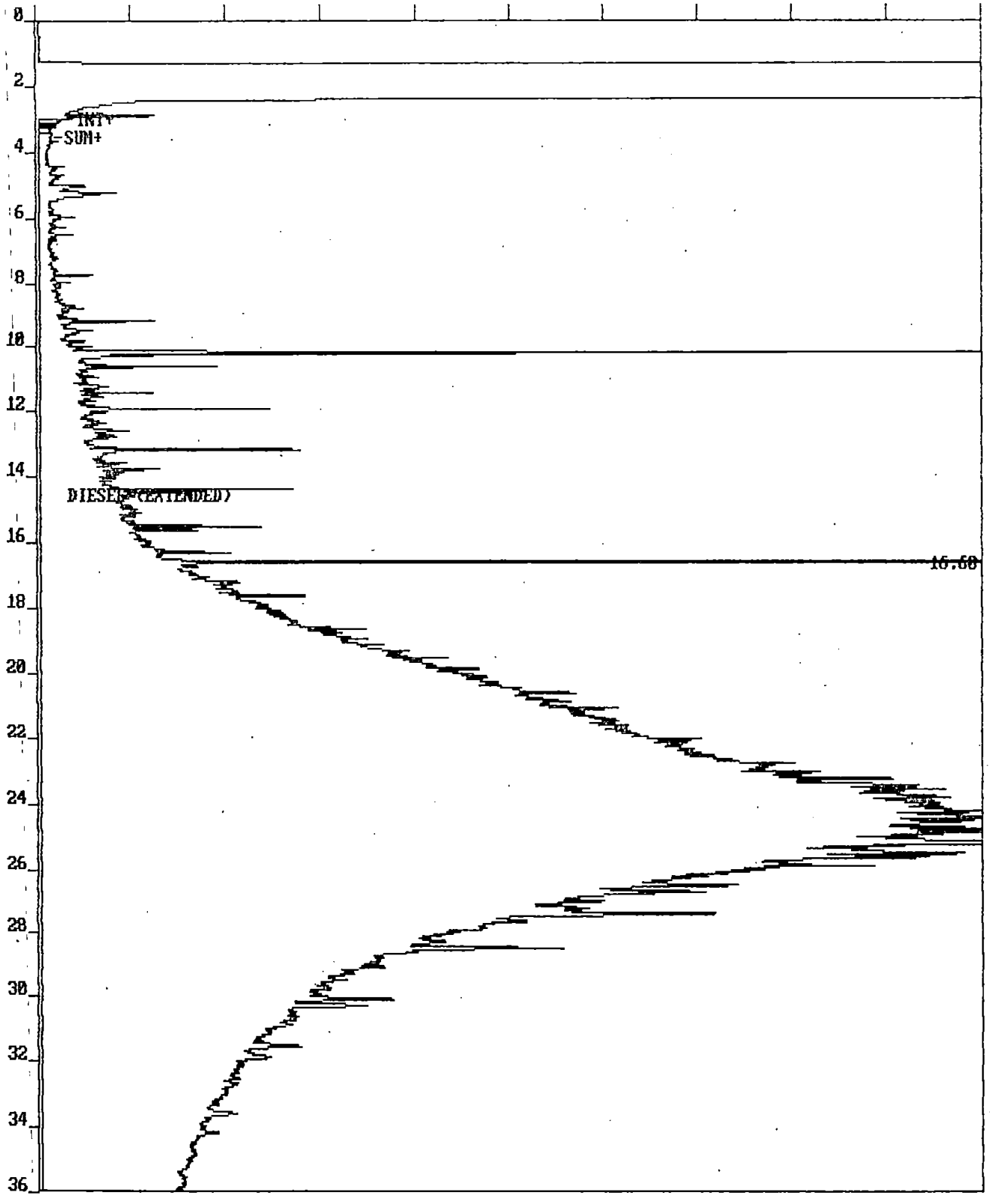

SAMPLE: 6-082-10-SS1
METHOD: WTPH-D (extended)

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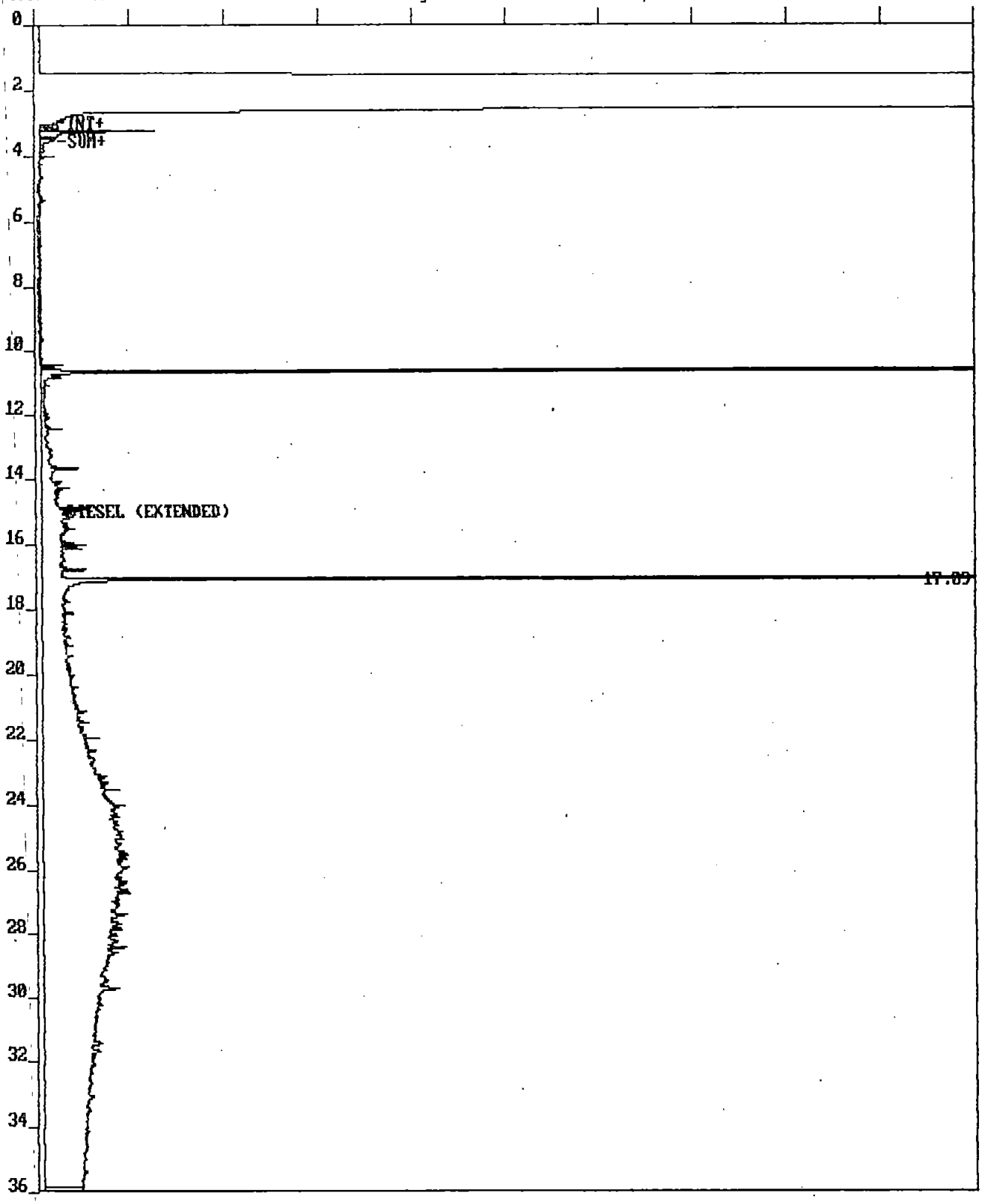

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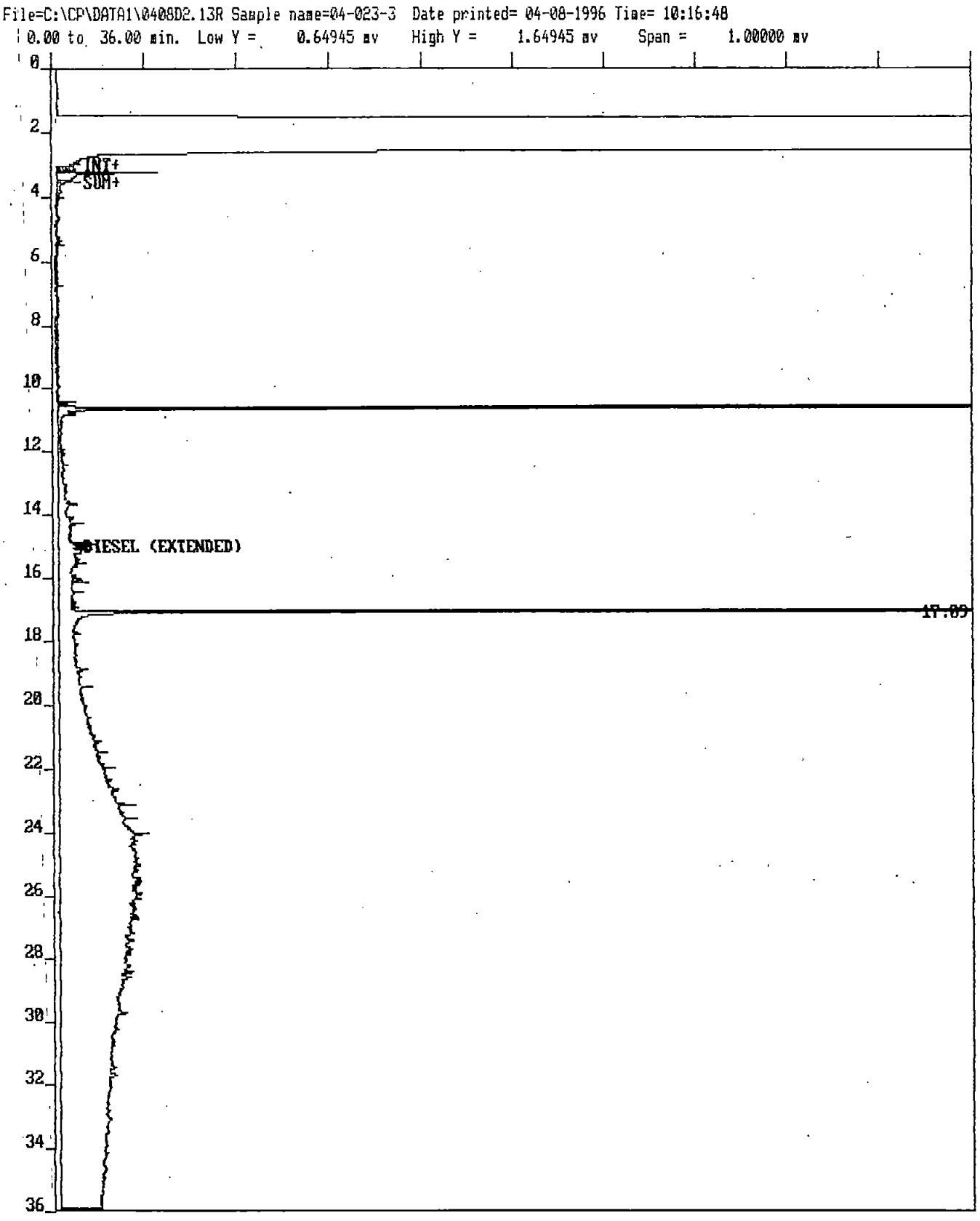
METHOD: WTPH-D (extended)



SAMPLE: 6-082-10-SS3
METHOD: WTPH-D (extended)

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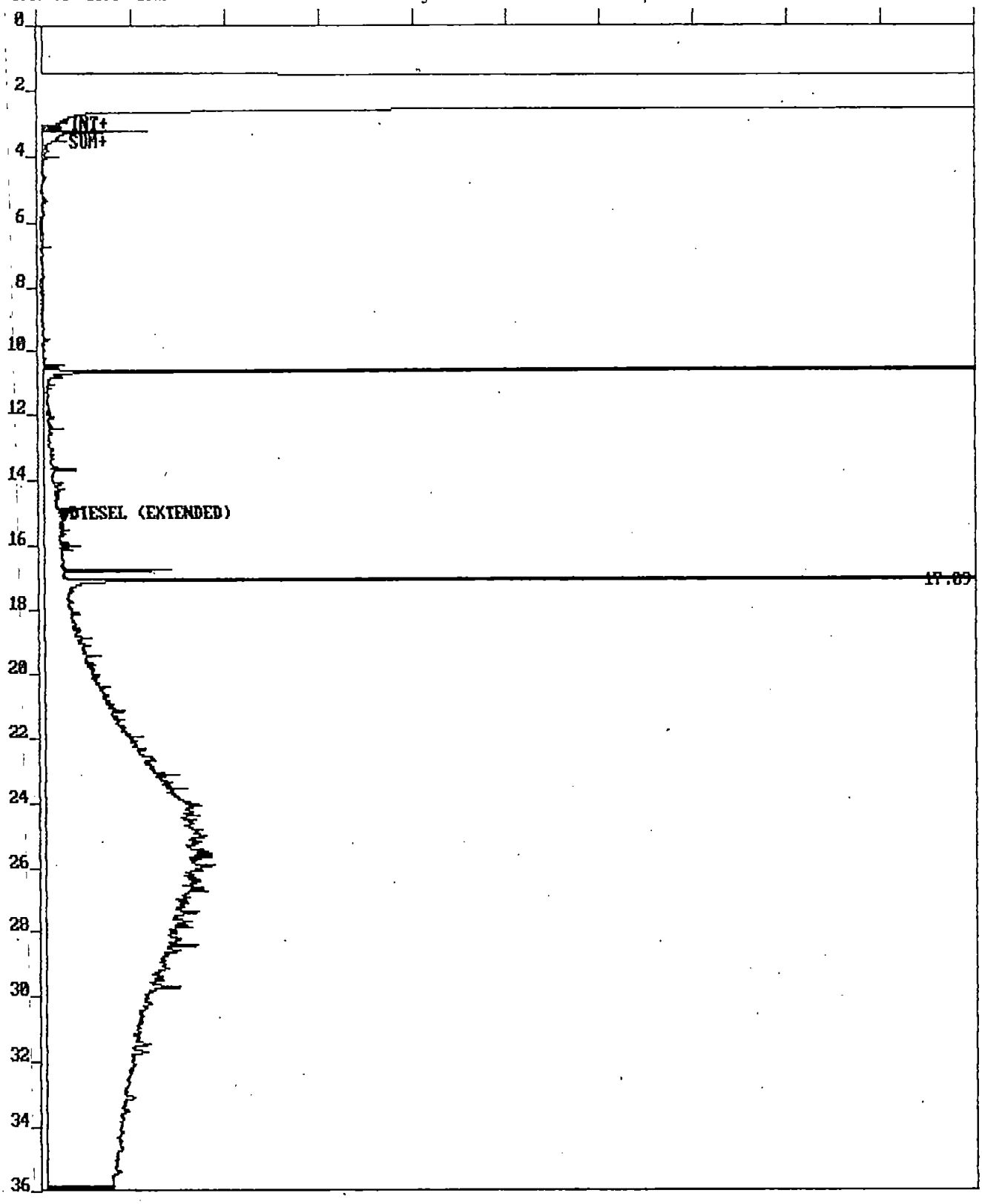
0.00 to 36.00 min. Low Y = 0.64932 mv High Y = 1.64932 mv Span = 1.00000 mv



SAMPLE: 6-082-10-SS4
METHOD: WTPH-D (extended)

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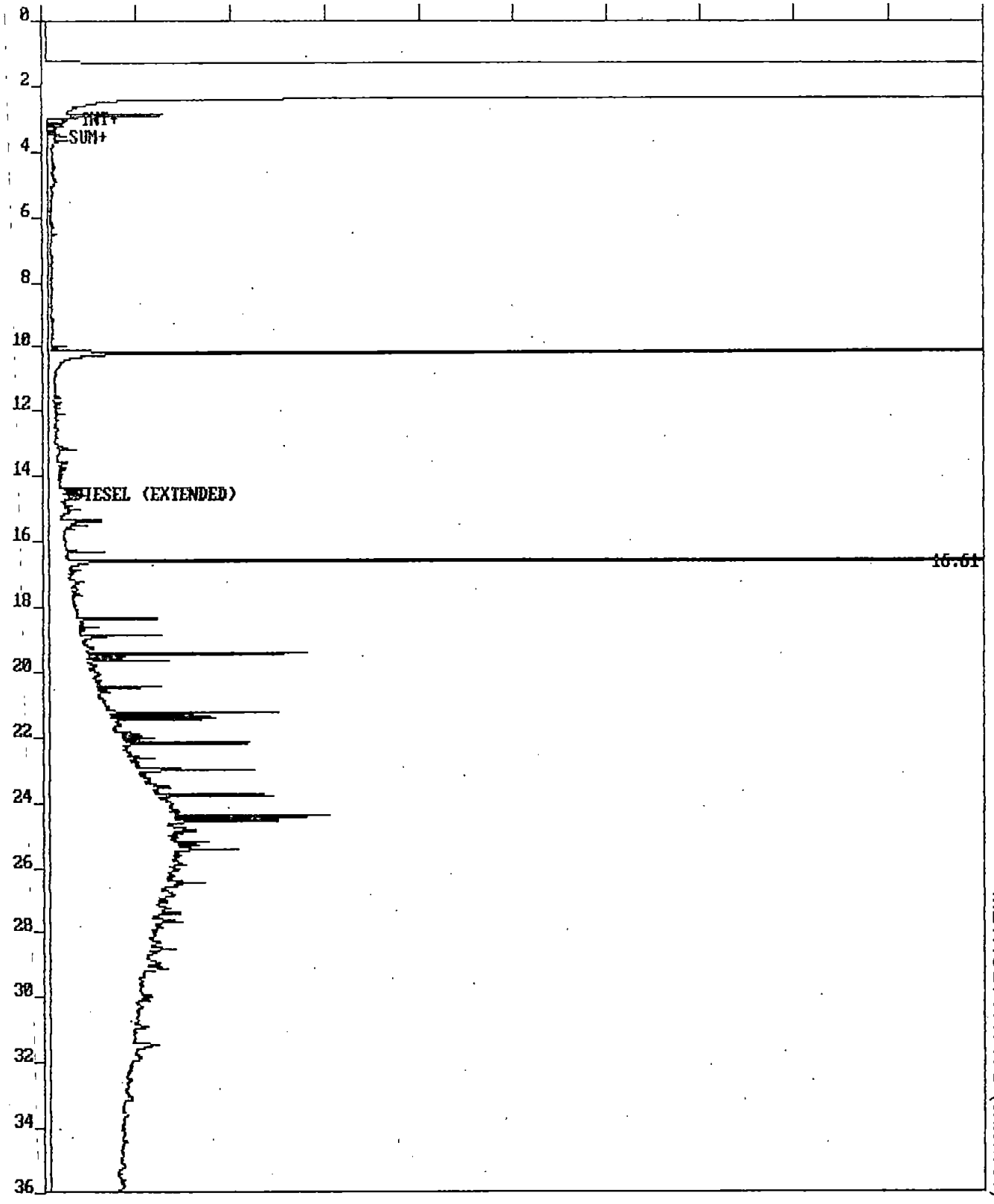

SAMPLE: 6-082-10-SS5
METHOD: WTPH-D (extended)

File=C:\CP\DATA1\0408D2.11R Sample name=04-023-6 Date printed= 04-08-1996 Time= 10:14:38

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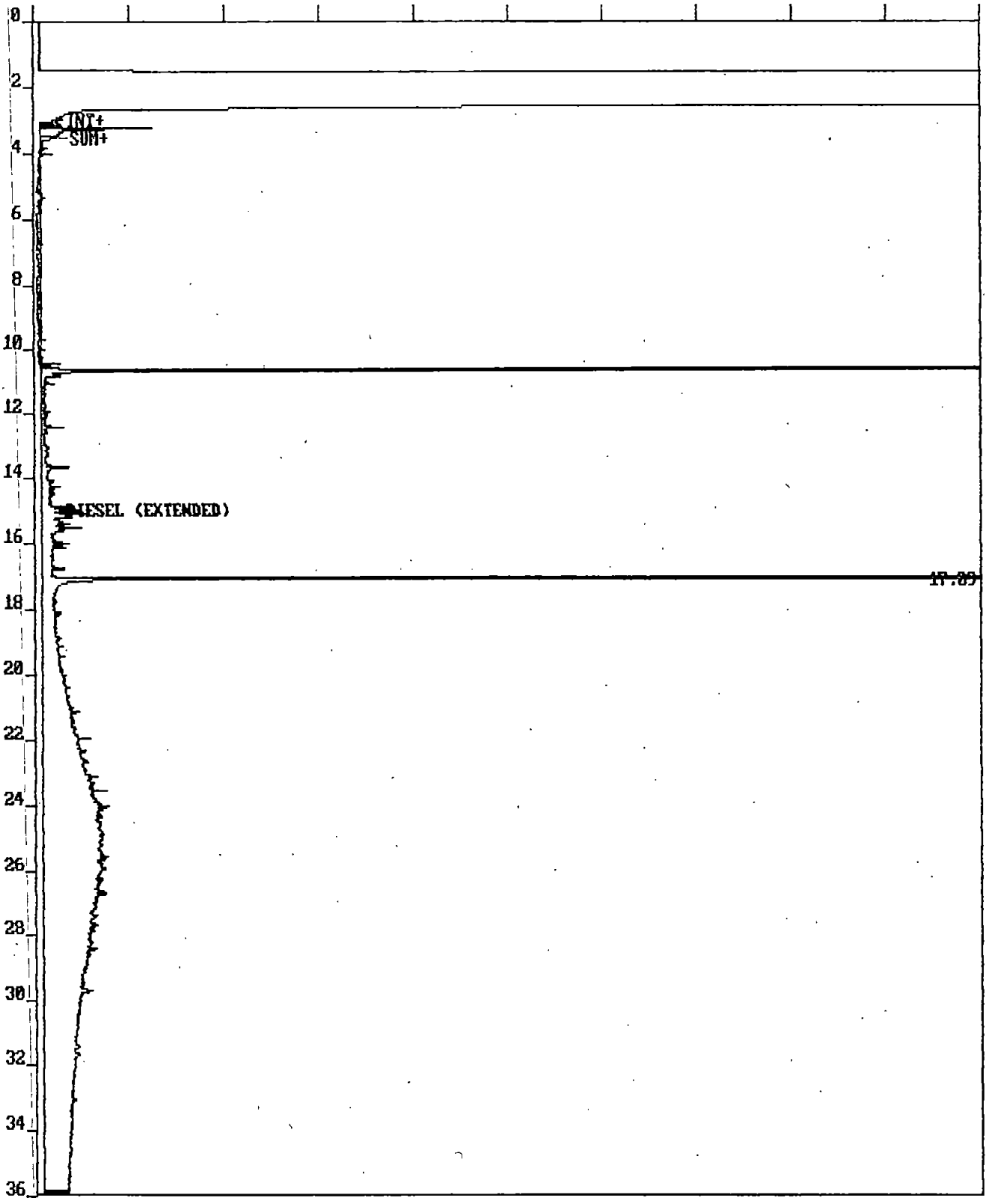
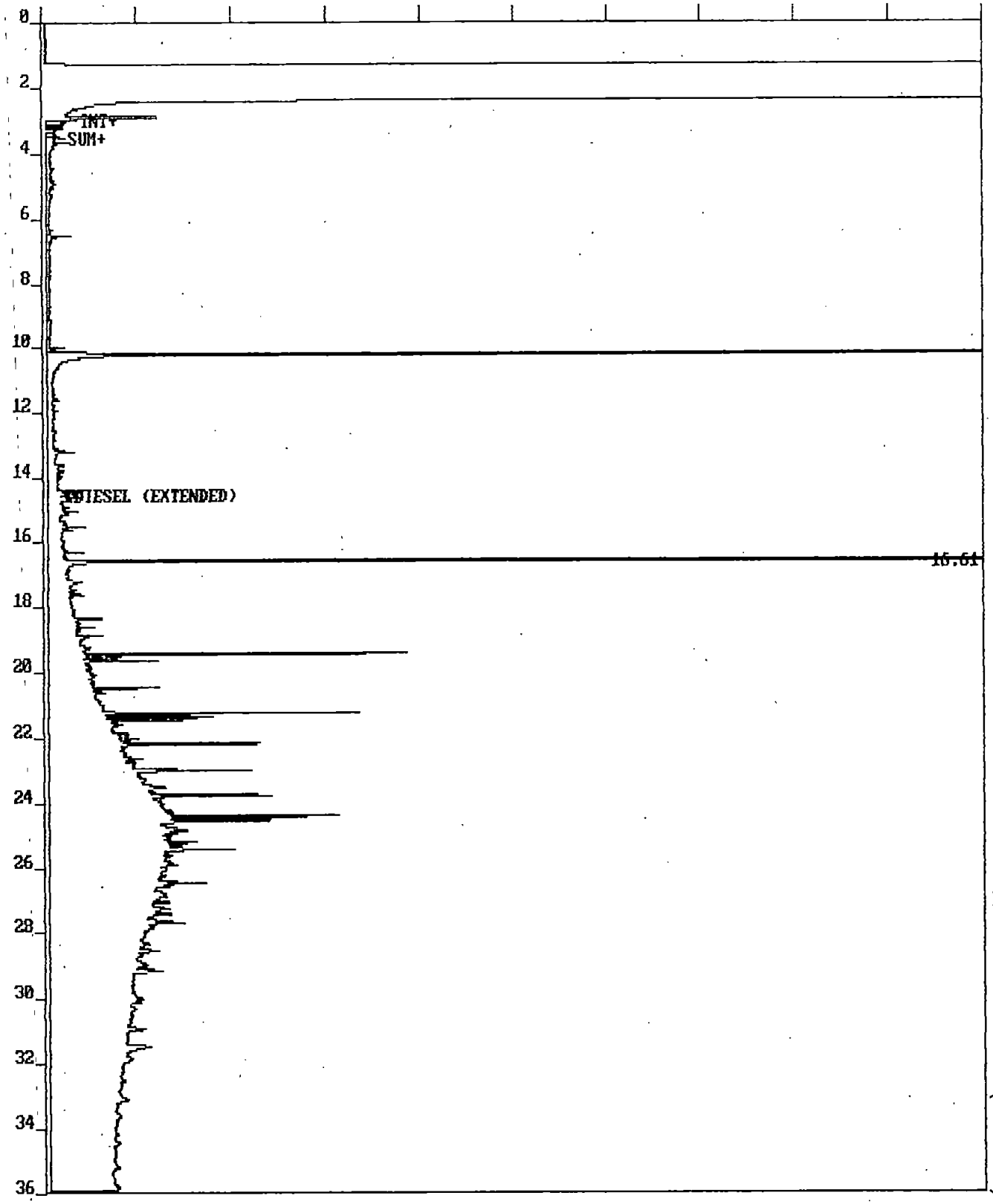


SAMPLE: 6-082-10-SS6
METHOD: WTPH-D (extended)

File=C:\CP\DATA1\0409D1.02R Sample name=04-023-7 RR Date printed= 04-08-1996 Time= 13:08:54

0.00 to 36.00 min. Low Y = 0.29897 mv High Y = 1.29897 mv Span = 1.00000 mv



SAMPLE: 6-082-10-SS7
METHOD: WTPH-D (extended)

CHAIN OF CUSTODY RECORD & LABORATORY ANALYSIS REQUEST

DAB

ENVIROTECH SYSTEMS, INC.
18820 AURORA AVE NO., STE 201, SEATTLE, WA 98133
206-363-9000 FAX 206-546-1920

Project: GE/TIP | Assigned Lab ID: 04-023 | Date: 4-6-96 | # of Coolers: 1 | Page ___ of ___

Client Contact: LARRY CAMPBELL

Phone: (206) 363-9000

Samplers: LARRY CAMPBELL

	Sample ID	Date	Time	Matrix	# Cont	Lab ID	Analysis Requested: WTPH-D EXTENDED	Analysis Requested: Dry wt	Other
1	6-082-10-551	4-6-96	9:55	SOIL	1		X	X	
2	6-082-10-552	"	10:00	"	"		X	X	
3	6-082-10-553		10:04				X	X	
4	6-082-10-554		10:10				X	X	
5	6-082-10-555		10:16				X	X	
6	6-082-10-556		10:20				X	X	
7	6-082-10-557	↓	10:26	↓	↓		X	X	

Comments/Special Instructions:
PLEASE PROVIDE ASSOCIATED CHROMATOGRAMS

	Relinquished by (Signature)	Relinquished by (Signature)	Relinquished by (Signature)
	Larry Campbell		
Printed Name:	LARRY CAMPBELL		
Company:	ESI		
Date / Time:	4/8/96 2:55 pm		
	Relinquished by (Signature): Received	Relinquished by (Signature):	Relinquished by (Signature):
	Chris Ransom		
Printed Name:	CHRIS RANSOM		
Company:	OSE		
Date / Time:	4/8/96 2:55 pm		

g:\forms\chain.lab

APPENDIX B

SOIL TREATMENT BILLS OF LADING AND MANIFESTS

Soil Recycling Certificate

TPS Technologies Inc. does hereby certify

that 37.39 tons of petroleum - contaminated soil

received from

GE Capital/TIP
Envirotech Systems Inc. - Consultant
9801 Martin Luther King Way
Seattle, WA

Under Manifest/authorization number 03-00670

have been properly recycled to approved regulatory standards

at our Soil Recycling Facility in Tacoma, WA

Dated this 16th day of April , 1996

Sworn and Attested by:
TPS Technologies Inc.

By: Gary M. Hutton

APR-10-96 THU 11:04 AM TPS TECHNOLOGIES/TACOMA FAX NO. 206 584 8309 P. 2

1087760

Manifest

TPS Technologies Soil Recycling
Non-Hazardous Soils

Manifest #

Date of Shipment:	Responsible for Payment:	Transporter Truck #:	Facility #:	Given by TPS:	Load #
- -	CONSULTANT		103	00670	001

Generator and/or Consultant

Generator's Name and Billing Address:
G.E. CAPITAL/TIP
9801 MARTIN LUTHER KING WAY
SEATTLE, WA 98118

Generator's Phone #: 206/725-6004
Person to Contact: DAVE DURON
FAX#: 206/725-0195
Generator's US EPA ID No.:
Customer Account Number with TPS:

Consultant's Name and Billing Address:
ENVIROTECH SYSTEMS INC.
18820 AURORA AVE. NO.-SUITE 201
SHORELINE, WA 98133

Consultant's Phone #: 206/363-9000
Person to Contact: LARRY CAMPBELL
FAX#: 206/546-1920
Customer Account Number with TPS: 1001480

Generation Site (Transport from): *(name & address)*
G.E. CAPITAL/TIP
9801 MARTIN LUTHER KING WAY
SEATTLE, WA 98118

Site Phone #: 206/725-6004
Person to Contact: DAVE DURON
FAX#: 206/725-0195
BTEX Levels:
TPH Levels:
AVG. Levels:

Designated Facility (Transport to): *(name & address)*
TPS TECHNOLOGIES INC.
2800 104th STREET SOUTH
TACOMA, WA 98444

Facility Phone #: 206/584-8430
Person to Contact: RENEE AVELINO
FAX#: 206/584-8309
Facility Permit Numbers:

Transporter Name and Mailing Address:
JACK GREY TRANSPORT, INC.
500 SO. 336th STREET-SUITE 102
FEDERAL WAY, WA 98003

Transporter's Phone #: 206/874-9848
Person to Contact: DOUG DeVRIES
FAX#: 206/874-9820
Transporter's US EPA ID No.:
Transporter's DOT No.:
Customer Account Number with TPS:

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand ☐ Organic ☐ Clay ☐ Other ☐	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☐ Other ☐			108760	33980	74780
Sand ☐ Organic ☐ Clay ☐ Other ☐	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☐ Other ☐			37.39		

List any exception to items listed above:

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

XX Print or Type Name: Larry Campbell Generator ☐ Consultant ☒ | Signature and date: | Month 4 | Day 4 | Year 96

Transporter

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

X Print or Type Name: C R Dodge | Signature and date: C R Dodge | Month 04 | Day 08 | Year 96

Recycling Facility

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: Renee Avelino - CSM | Signature and date:

Please print or type.

Woodworth & Company, Inc.

GENERAL CONTRACTORS

1200 East D Street / Tacoma, Washington 98421
Telephone (206) 383-3585

PO # 0525 LAKEVIEW PIT TICKET

Contractors Lic. # WOODW 377NO

Ticket # 88811
Wmaster PEGGY NEFF
Sale Loc.
Saletype C JOB SALE

CAUTION: HOT ASPHALT WILL BURN YOU!

RECEIVED *

CUSTOMER:

PURCHASE ORDER:

TPS TECHNOLOGIES
CONTAMINATED SOILS BROUGHT
INTO LAKEVIEW PIT.

	JOB LOAD	JOB TONS
TOTAL	1	37.39
DAILY		

TE	PLANT	SILO#	JOB	PLANT	TRUCK	SEQUENCE	REFEREN
04/08/96			62-		DD1		
TIME 08:25:							

IXTURE	GROSS	TARE	NET WT. TONS	PRICE	TOTAL
200 PETRO CONTAM SOIL	108760	33980	37.39		

PECIAL INSTRUCTIONS

74780 LB M

SCALE SERVICE

TAX %
PAY THIS AMOUNT

CUBIC DS

PIT B160 REMARKS

X SCALE OPERATOR

VISA MasterCard

APPENDIX C

IRAP FORM

Independent Remedial Action Report Summary

This report summary is an important part of the Independent Remedial Action Report. Please complete the summary and submit it with your Independent Remedial Action Report. If this document does not accompany your cleanup report, or if it is not fully completed, your report cannot enter the review process necessary for Ecology to provide you with a "no further action" determination, or to remove your site from the hazardous sites lists.

FOR ECOLOGY USE ONLY			
ERTS No.	TCP I.D. No.	Date Received	☐ NFA ☐ SHA Referral ☐ Interim Action ☐ Emergency Action
LUST No.	U.B.I. No.	Initial Investigation (Date)	
Reviewed by		Total Hours for Review	
Does the cleanup comply with cleanup standards? Yes ☐ No ☐		Total Fee	

Please Print Clearly or Type

General Information

Name of Site Owner	GE Capital Company, Transport International Pool	Phone (610) 648-6764
Address (Street)	426 W. Lancaster Avenue, Devon, PA 19333-0950 (State/Province, Zip)	Chester (County)
Authorized Contact	Ms. Karen Kern, Manager, Environmental Programs	Phone (610) 648-6764
Name of Facility Operator	GE Transport International Pool	Phone (206) 725-6004
Address (Street)	9801 Martin Luther King Jr. Way S. , Seattle, WA 98118 (State, Zip)	
Authorized Contact	Karen Kern, Manager Environmental Programs	Phone (610) 648-6764
Name of Consultant	Julie K. Harvey	Phone (206)728-0744
Name of Firm	Dames & Moore, Inc.	
Address (Street)	2025 First Avenue, Suite 500 Seattle, WA 98121 (State, Zip)	

Please indicate which of the above persons completed this report. If the report was completed by someone other than listed above, please provide their name, address, and a daytime phone.

Dames & Moore

Report Information

Has a cleanup been conducted? Yes ☒ No ☐	Is this a Leaking Underground Storage Tank (LUST) report? Yes ☐ No ☒
Type of report (check all that apply) ☐ Combined release and independent remedial action report ☒ Independent remedial action report ☐ Interim action report ☐ Final cleanup action report	Date release was reported to Ecology June 5, 1996 Date cleanup was completed April 6, 1996

Facility Information

Site Name: GE Transport International Pool

Other Names *(the site may be known as)*: T.I.P.

Site Control Person if other than Owner/Operator. *(This must be a person who is on-site during normal working hours and is authorized and qualified to answer questions about the site, or a person who is available during normal business hours and has knowledge about the site and the remediation.)*

Name: Karen Kern, Manager, Environmental Programs Phone: (610) 648-6764

Site Mailing Address *(or site contact mailing address)*: 426 W. Lancaster Avenue, Devon, PA 19333

Site Location Address *(including zip code)*: 9801 Martin Luther King Jr. Way South, Seattle, WA, 98118

Closest City: Seattle, WA

County *(where site is located)*: King

Ownership and Operator Type. Complete the table below by checking the appropriate box to identify the type of owner and operator for the facility. (For example, if the property owner is a port district and the operator a private individual, then check the boxes under owner identification column in the municipal, code #2 row, and under the operator identification column in the private party, code #1 row.)

Ownership/Operator Type	Code #	Owner Identification	Operator Identification
Private Party	1	X	X
Municipal (Public)	2		
County	3		
Federal	4		
State	5		
Tribal	6		
Mixed	7		
Other	8		
Unknown	9		
Public Entity Acquisition through Bankruptcy	10		
Financial Institution Acquisition through Bankruptcy	11		

Standard Industrial Classification (SIC) Codes. List all that apply. If none apply, or if you don't know your SIC code, list activities conducted at the site, e.g., automotive repair and maintenance, construction equipment storage,etc.

7513

Hazardous Substances Management Practices(s). The hazardous substance(s) cleaned up from the site was the result of which of the following sources, activities, or actions? Please circle all that apply to the facility.

1 = Drug Lab
2 = Drum
3 = A Leaking Impoundment
4 = Improper Handling
5 = Landfill
6 = Land Application
7 = Pesticide Application
8 = Pesticide Disposal
(9 = A Spill)
10 = Storm Drain
11 = Leaking Tank: (a) below ground; (b) above ground
12 = Unknown

End use of property *(circle one)* (COMMERCIAL) INDUSTRIAL RESIDENTIAL

Release Information

Date of Release *(if known)*	Date of Discovery	Are there any drinking water systems affected?
December 20, 1995	December 20, 1995	Yes ☐ No ☒ Unknown ☐
If drinking water systems are affected, are the systems public, private, or both? *(circle one)* N/A		If drinking water systems are affected, has alternate drinking water been provided? Yes ☐ No ☐ Unknown ☐ N/A

General Hazardous Substance Categories. Using the contaminants listed below, complete the table.
(A more detailed description of the contaminants can be found in Appendix C of the guidance.)

Contaminants. For each of the applicable contaminants, enter the appropriate letter designating the status of the contaminants: C = Confirmed or S = Suspended. *(Contaminant status definitions are defined in Appendix C of the guidance.)*		Affected Media				
		Ground Water	Surface Water	Drinking Water	Soil	Air
1.	Halogenated Organic Compounds					
2.	Metals – Priority Pollutants					
3.	Metals – Other					
4.	Polychlorinated Bi-Phenyls (PCBs)					
5.	Pesticides/Herbicides					
6.	Unleaded Gas					
	Leaded Gas					
	Diesel				X	
	Waste Oil					
	Heat Fuel					
	Other *(Specify)*					
7.	Phenolic Compounds					
8.	Non-Halogenated Solvents					
9.	Dioxins					
10.	Polynuclear Aromatic Hydrocarbons (PAHs)					
11.	Reactive Wastes					
12.	Corrosive Wastes					
13.	Radioactive Wastes					
14.	Conventional Contaminants Organics					
15.	Conventional Contaminants Inorganics					
16.	Base/Neutral Organic Compounds					
17.	Asbestos					

Cleanup Information

Indicate cleanup level methods used by completing Table 5-A below. *(check all that apply)*

TABLE 5-A

	Soil	Ground Water	Air	Surface Water
Method A – diesel	X			
B				
C				
Have these levels been met throughout the site? *(circle only one)*	(YES) NO	YES NO	YES NO	YES NO

Indicate the treatment mehtods used by completing Tables 5B - 5D below *(check all that apply)* *(See Appendix D)*

TABLE 5-B

	Destruction or Detoxification				Media Transfer		
	Carbon Adsorption[1]	Biological Treatment	Chemical Destruction	Incineration	Air Stripping/ Air Sparging	Aeration/Vapor Extraction	Thermal Desorption
Soil	-NA-				-NA-		X
Ground Water				-NA-		-NA-	-NA-
Surface Water				-NA-		-NA-	-NA-
Air		-NA-				-NA-	
Wastes	-NA-				-NA-		-NA-

[1] Carbon followed by regeneration; use of granular activated carbon followed by landfilling would be classified in these tables as volume reduction and off-site landfill

Cleanup Information (continued)

TABLE 5-C

	Immobilization		Reuse/Recycling[2]	Separation/Volume Reduction		
	Vitrification	Solidification/ Stabilization	Specify	Solvent Extraction	Soil Washing	Physical Separation[3]
Soil						
Ground Water	-NA-	-NA-		-NA-	-NA-	
Surface Water	-NA-	-NA-		-NA-	-NA-	
Wastes						

[2]For example, reuse of free petroleum product recovered in a pump and treat system.
[3]For example, oil/water separators.

TABLE 5-D

	Land Disposal/Containment		Institutional Controls	Others
	Containment or On-site Landfill	Off-site Landfill	Specify	Specify treatment method
Soil				
Ground Water		-NA-		
Surface Water	-NA-	-NA-		
Wastes				

Lust Site Information

Was free product encountered: on ground water? Yes ☐ No ☐ In excavation? Yes ☐ No ☐

Tank Description			Tank Status (Y or N)		
Tank ID	Product	Size	In Place?	Removed?	Closed in Place?

Environmental Indicators

Answer the following questions as they are applicable to your site:

How many cubic yards of soil have been treated? 39

Where soil treatment was conducted, was it done on-site, off-site or both? *(circle one)*

Provide the name and address of the facility where soil was treated off-site.
Name: TPS Technologies, Inc.
Address: 2800 104th Street South
State/Zip: Tacoma, WA 98444

Provide the name and address of the facility where soil was disposed.
Name: _____
Address: _____
State/Zip: _____

How many cubic yards of soil have been disposed of off-site? 0
(Calculate these quantities of soil while the soil is in place, prior to any excavation and/or treatment.)

If ground water pump and treatment was conducted, how many gallons of ground water have been treated to date? _____ gallons N/A

How many years is the ground water extraction system expected to continue in operation? _____ years N/A

Corrective Actions for Dangerous Waste Facilities

Does the facility have a dangerous waste identification number?	☐ Yes. Specify	☒ No
Is the facility a dangerous waste treatment, sludge, or disposal facility?	☐ Yes	☐ No
If yes, check appropriate regulatory status box	☐ RCRA interim status	
	☐ RCRA operating permit	
	☐ RCRA post closure permit	
	☐ Other, specify	