**WASHINGTON STATE**
**DEPARTMENT OF TRANSPORTATION**
P. O. Box 1709
4200 Main Street
Vancouver, WA 98663
(206) 696-6518

# Cleanup Action
# For WSDOT Property At

# ANATONE

SR 129, M.P. 17.4
Anatone, Washington

## GENERAL INFORMATION

| | |
|---|---|
| Site Name: | WSDOT - Anatone Maintenance Facility |
| DOE Site Number: | 012211 |
| DOE Tank ID No.: | 66E01030, 2,000 Gallon Diesel<br>66E01031, 500 Gallon Unleaded |
| Location: | SR 129, M.P. 17.4, West Side<br>Northeast Quarter of Section 35, T.8N., R.45E.<br>Anatone, Washington, Asotin County |
| Owner: | Washington State Department of Transportation |
| Contact: | Doug Pierce |
| Contact's Address: | Washington State Department of Transportation<br>Environmental Support Branch<br>P.O. Box 47358<br>Olympia, WA 98504-7358 |
| Contact's Phone Number: | (206) 705-7812 |

## SITE CHARACTERISTICS

The site is located within the community of Anatone.

The facility is used for the storage and maintenance of DOT trucks and equipment. It is also used for the storage of road sand and other highway maintenance materials. State Route 129 borders the east side of the site. On the east side of SR 129 is a cafe. To the north of the side is a street. North of the street is a house with a small amount of acreage and a few horses. To the south and to the west are wheat fields. The site slopes to the east.

The facility uses a drinking water well and a septic system. The well is about 80 feet deep.

Groundwater was not encountered during UST and soil removal activities. Depth to groundwater is unknown. Based upon the topography and locations of surface water, the direction of groundwater flow is expected to be to the east. The closest surface water feature is Mill Creek which is located 300 feet to the east, across SR 129

From observations during UST removal, there was one to two feet of soil overlaying shale and bedrock.

## RELEASE INVESTIGATION AND REMEDIATION

On August 6, 1993, the Washington DOT entered a contract with Northwest Construction General Contracting, Inc. of Battle Ground, Washington to remove underground fuel tanks at various locations.

On September 21, 1993, Northwest Construction removed a 2,000 gallon diesel tank and a 500 gallon unleaded tank from the DOT facility at Anatone. The fuel tanks had been installed in 1968. The tanks had 3" to 4" of product in them prior to the tank removal contractor pumping them out.

When the tanks were removed, they were found to be in good condition with no holes or deep pitting. However, both tanks had manway entry lids. There was evidence that there was leakage from the manway lid on the diesel tank. There was also considerable gasoline contamination in the soil. This was probably due to a piping leak or a leak at the dispenser. The dispensers had been located above the east end of the tanks.

After the tanks were removed, about 60 cubic yards of contaminated sand and shale was removed from the excavation. This material was placed into a landfarm at the southwest corner of the site. It was not possible to do further excavation due to the area being solid rock or shale. There was solid rock on the south side, west side, and south half of the east side. There was shale rock in the northeast corner of the excavation. There was a small amount of highly contaminated water, a gallon or so, in the excavation. This was removed with the contaminated sand and soil. The bottom of the excavation was also solid rock. Once the small amount of water was removed, no additional water seeped into the excavation.

Soil sample 1 was taken from some of the most contaminated soil while it was being excavated. Soil samples 2 through 5 were taken from the bottom of the excavation after the excavation was completed. These samples were taken from the sand residue that could not be removed with the backhoe. There was about a half of a cubic yard of sand in the bottom of the excavation at the time excavation was halted. Everything else was solid rock. The lab results showed these samples to be as high as 5400 ppm gasoline, 2800 ppm diesel, and 7900 ppm as heavy oil.

Because additional excavation could not be done without blasting and the contamination was confined to the rock bathtub, excavation was stopped. Because the site was not fenced and because the excavation posed a hazard to the general public, the hole was backfilled the same day.

## FREE PRODUCT INVESTIGATION/REMOVAL

A small amount of highly contaminated water, a gallon or so, was observed near the bottom of the excavation. Once the backhoe had removed all the sand from the excavation, there were no liquids remaining in the excavation.

## PROJECT STATUS

The 60 cubic yards of contaminated soil was spread out and fertilizer high in nitrogen and phosphates were mixed into the soil. The soil is being rotated using a front end loader. When soil sample results indicated the contamination levels are below Method A cleanup levels, a supplemental report will be prepared.

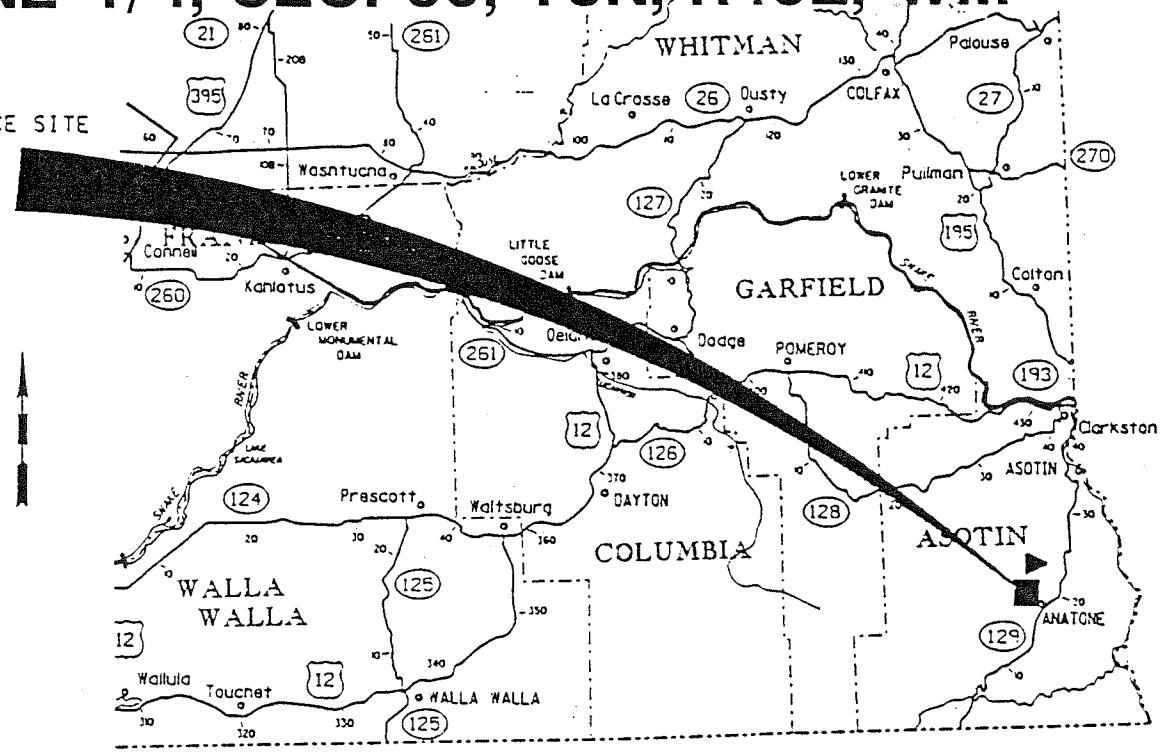
Harry Horn

Harry Horn
Registered Site Assessor

# APPENDIX

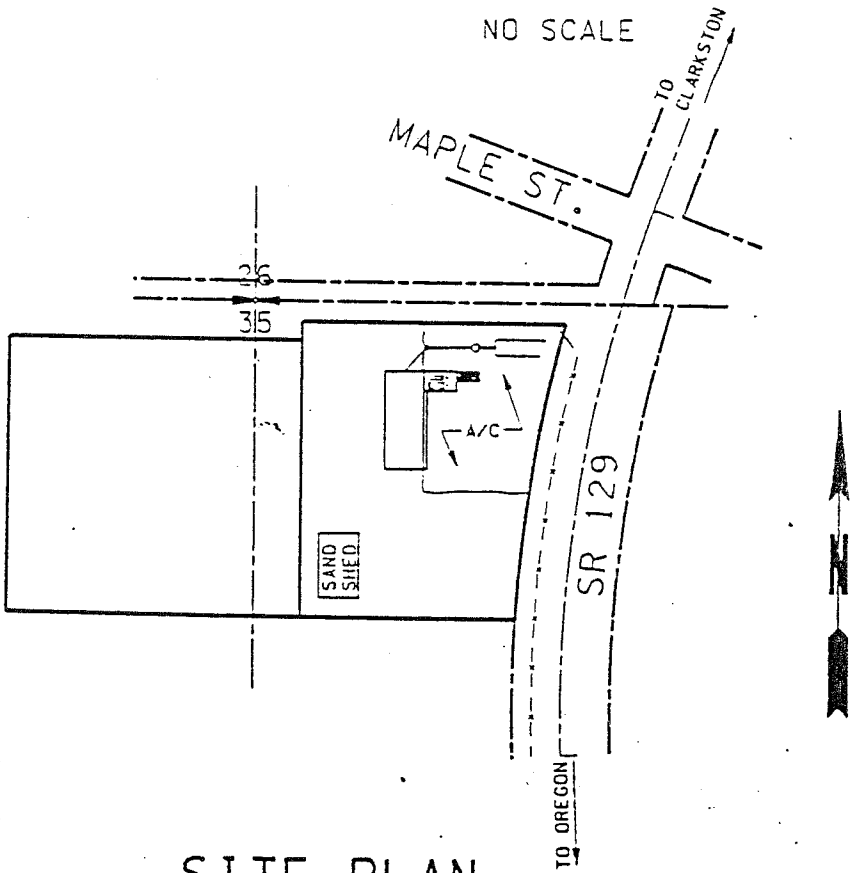
# NE 1/4, SEC. 35, T8N, R45E, WM

W.S.D.O.T.
PROJECT SITE
ASOTIN COUNTY
ANATONE MAINTENANCE SITE
SR 129 M.P. 17.4
WESTSIDE




## VICINITY MAP

NO SCALE




## SITE PLAN

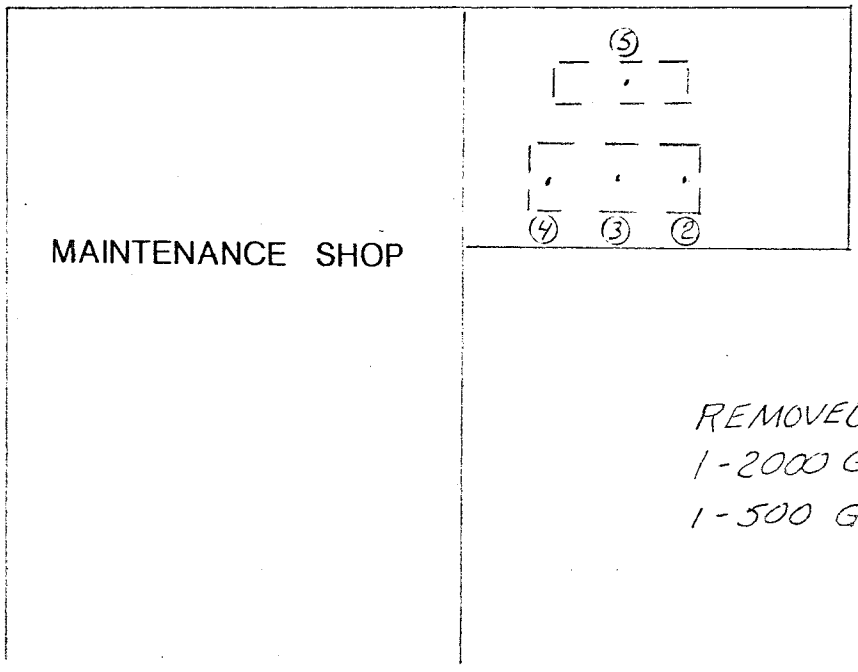
0 100 200
SCALE IN FEET

# ANATONE

## SR 129 MP 17.4

9-21-93

NOT TO SCALE




REMOVED
1-2000 GAL. DIESEL
1-500 GAL UNLEADED

# ANATONE

9/21/93

| SAMPLE ID. | DEPTH (FT) | HCID (DOE LIMITS-PPM) | 418.1 200 | WTPH-D 200 | WTPH-G 100 | BENZ. 0.5 | TOUL. 40 | ETHYL-BENZ. 20 | XYLENE 20 |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 8 | (EXCAVATED MATERIAL) | 1700 | 930 | 9100 | ND | 150 | 66 | 650 |
| 2 | 10 | | 1000 | 530 | 5100 | ND | 61 | 45 | 290 |
| 3 | 10 | | 4600 | 2800 | 3500 | 3.7 | 24 | 31 | 230 |
| 4 | 10 | | 7900 | 2600 | 5400 | ND | 36 | 63 | 290 |
| 5 | 8 | | 1100 | 800 | 3300 | ND | 9.8 | 10 | 180 |

*ND - NOT DETECTED OR
LESS THAN 20 PPM GAS,
LESSTHAN 50 PPM DIESEL OR
LESS THAN 100 PPM HEAVY OIL

# SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047


## TRANSMITTAL MEMORANDUM

DATE: October 9, 1993

TO: Harry Horn
WA State Department of Transportation - Vancouver

PROJECT NAME: Anatone

LABORATORY NUMBER: 35061

Enclosed are one original and one copy of the Tier I data deliverables package for Laboratory Work Order Number 35061. Five samples were received for analysis at Sound Analytical Services, Inc., on September 24, 1993.

If there are any questions regarding this data package, please do not hesitate to call me at (206) 922-2310.

Sincerely,

Dean A. Strom
Project Manager

# SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047


Report To: WA State Department of Transportation - Vancouver

Date: October 9, 1993

Report On: Analysis of Soil

Lab No.: 35061



IDENTIFICATION:
Samples received on 09-24-93
Project: Anatone

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ANALYSIS:

Lab Sample No. 35061-1

Client ID: 1

WTPH-HCID
Date Extracted: 9-28-93
Date Analyzed: 9-30-93

| Parameters | Concentration, mg/kg | Flag |
|---|---|---|
| Gasoline (C7 - C12) | > 20 | |
| Diesel (> C12 - C24) | > 50 | |
| Heavy Oil (C24+) | > 100 | |

SURROGATE RECOVERY, %

| | | |
|---|---|---|
| 1-chlorooctane | 445 | X10 |
| o-terphenyl | 84 | |

Continued . . . . .

# SOUND ANALYTICAL SERVICES, INC.

WA State Department of Transportation - Vancouver
Project: Anatone

Lab No. 35061
October 9, 1993

Lab Sample No. 35061-1 Client ID: 1

WTPH-G with BTEX by EPA Method 8020
Date Extracted: 10-4-93
Date Analyzed: 10-5-93

| Parameter | Concentration, mg/kg | PQL | Flag |
|---|---|---|---|
| Gasoline (C7 - C12) | 9,100 | 100 | |
| Benzene | ND | 5.0 | |
| Toluene | 150 | 5.0 | |
| Ethyl Benzene | 66 | 5.0 | |
| Xylenes | 650 | 5.0 | |
| SURROGATE RECOVERY, % | | | |
| Trifluorotoluene | NR | | X8 |

NR - Not Reported

WTPH-D
Date Extracted: 10-5-93
Date Analyzed: 10-7-93

| Parameter | Concentration, mg/kg | PQL | Flag |
|---|---|---|---|
| Diesel (> C12 - C24) | 930 | 25 | X2 |
| SURROGATE RECOVERY, % | | | |
| o-terphenyl | 50 | | |

WTPH-418.1 Modified
Date Extracted: 10-4-63
Date Analyzed: 10-4-93

| Parameter | Concentration, mg/kg | Flag |
|---|---|---|
| Heavy petroleum oils (C24+) | 1,700 | |

ND - Not Detected
PQL - Practical Quantitation Limit

Continued . . . . .

# SOUND ANALYTICAL SERVICES, INC.

WA State Department of Transportation - Vancouver
Project: Anatone

Lab No. 35061
October 9, 1993

Lab Sample No. 35061-2 Client ID: 2

WTPH-HCID
Date Extracted: 9-28-93
Date Analyzed: 9-30-93

| Parameters | Concentration, mg/kg | Flag |
|---|---|---|
| Gasoline (C7 - C12) | > 20 | |
| Diesel (> C12 - C24) | > 50 | |
| Heavy Oil (C24+) | > 100 | |
| SURROGATE RECOVERY, % | | |
| 1-chlorooctane | 318 | X10 |
| o-terphenyl | 86 | |

Continued . . . . .

# SOUND ANALYTICAL SERVICES, INC.

WA State Department of Transportation - Vancouver
Project: Anatone

Lab No. 35061
October 9, 1993

Lab Sample No. 35061-2 Client ID: 2

WTPH-G with BTEX by EPA Method 8020
Date Extracted: 10-4-93
Date Analyzed: 10-5-93

| Parameter | Concentration, mg/kg | PQL | Flag |
|---|---|---|---|
| Gasoline (C7 - C12) | 5,100 | 100 | |
| Benzene | ND | 5.0 | |
| Toluene | 61 | 5.0 | |
| Ethyl Benzene | 45 | 5.0 | |
| Xylenes | 290 | 5.0 | |
| SURROGATE RECOVERY, % Trifluorotoluene | NR | | X8 |

NR - Not Reported

WTPH-D
Date Extracted: 10-5-93
Date Analyzed: 10-7-93

| Parameter | Concentration, mg/kg | PQL | Flag |
|---|---|---|---|
| Diesel (> C12 - C24) | 530 | 25 | X2 |
| SURROGATE RECOVERY, % o-terphenyl | 23 | | X10 |

WTPH-418.1 Modified
Date Extracted: 10-4-93
Date Analyzed: 10-4-93

| Parameter | Concentration, mg/kg | Flag |
|---|---|---|
| Heavy petroleum oils (C24+) | 1,000 | |

ND - Not Detected
PQL - Practical Quantitation Limit

Continued . . . . .

# SOUND ANALYTICAL SERVICES, INC.

WA State Department of Transportation - Vancouver
Project: Anatone

Lab No. 35061
October 9, 1993

Lab Sample No. 35061-3 Client ID: 3

WTPH-HCID
Date Extracted: 9-28-93
Date Analyzed: 9-29-93

| Parameters | Concentration, mg/kg | Flag |
|---|---|---|
| Gasoline (C7 - C12) | > 20 | |
| Diesel (> C12 - C24) | > 50 | |
| Heavy Oil (C24+) | > 100 | |

SURROGATE RECOVERY, %

| | | |
|---|---|---|
| 1-chlorooctane | 170 | X10 |
| o-terphenyl | 68 | |

Continued . . . . .

# SOUND ANALYTICAL SERVICES, INC.

WA State Department of Transportation - Vancouver
Project: Anatone

Lab No. 35061
October 9, 1993

Lab Sample No. 35061-3 Client ID: 3

WTPH-G with BTEX by EPA Method 8020
Date Extracted: 10-4-93
Date Analyzed: 10-5-93

| Parameter | Concentration, mg/kg | PQL | Flag |
|---|---|---|---|
| Gasoline (C7 - C12) | 3,500 | 20 | |
| Benzene | 3.7 | 1.0 | |
| Toluene | 24 | 1.0 | |
| Ethyl Benzene | 31 | 1.0 | |
| Xylenes | 230 | 1.0 | |
| SURROGATE RECOVERY, % | | | |
| Trifluorotoluene | NR | | X8 |

NR - Not Reported

WTPH-D
Date Extracted: 10-5-93
Date Analyzed: 10-7-93

| Parameter | Concentration, mg/kg | PQL | Flag |
|---|---|---|---|
| Diesel (> C12 - C24) | 2,800 | 25 | E |
| SURROGATE RECOVERY, % | | | |
| o-terphenyl | 29 | | X10 |

WTPH-418.1 Modified
Date Extracted: 10-4-93
Date Analyzed: 10-4-93

| Parameter | Concentration, mg/kg | Flag |
|---|---|---|
| Heavy petroleum oils (C24+) | 4,600 | |

PQL - Practical Quantitation Limit

Continued . . . . .

# SOUND ANALYTICAL SERVICES, INC.

WA State Department of Transportation - Vancouver
Project: Anatone

Lab No. 35061
October 9, 1993

Lab Sample No. 35061-4 Client ID: 4

WTPH-HCID
Date Extracted: 9-28-93
Date Analyzed: 9-30-93

| Parameters | Concentration, mg/kg | Flag |
|---|---|---|
| Gasoline (C7 - C12) | > 20 | |
| Diesel (> C12 - C24) | > 50 | |
| Heavy Oil (C24+) | > 100 | |
| SURROGATE RECOVERY, % | | |
| 1-chlorooctane | 252 | X10 |
| o-terphenyl | 78 | |

Continued . . . . .

# SOUND ANALYTICAL SERVICES, INC.

WA State Department of Transportation - Vancouver
Project: Anatone

Lab No. 35061
October 9, 1993

Lab Sample No. 35061-4 Client ID: 4

WTPH-G with BTEX by EPA Method 8020
Date Extracted: 10-4-93
Date Analyzed: 10-5-93

| Parameter | Concentration, mg/kg | PQL | Flag |
|---|---|---|---|
| Gasoline (C7 - C12) | 5,400 | 100 | X1 |
| Benzene | ND | 5.0 | |
| Toluene | 36 | 5.0 | |
| Ethyl Benzene | 63 | 5.0 | |
| Xylenes | 290 | 5.0 | |
| SURROGATE RECOVERY, % | | | |
| Trifluorotoluene | NR | | X8 |

NR - Not Reported
X1 - Aged Gasoline

WTPH-D
Date Extracted: 10-5-93
Date Analyzed: 10-7-93

| Parameter | Concentration, mg/kg | PQL | Flag |
|---|---|---|---|
| Diesel (> C12 - C24) | 2,600 | 25 | E |
| SURROGATE RECOVERY, % | | | |
| o-terphenyl | 45 | | X10 |

WTPH-418.1 Modified
Date Extracted: 10-4-93
Date Analyzed: 10-4-93

| Parameter | Concentration, mg/kg | Flag |
|---|---|---|
| Heavy petroleum oils (C24+) | 7,900 | |

ND - Not Detected
PQL - Practical Quantitation Limit

Continued . . . . .

# SOUND ANALYTICAL SERVICES, INC.

WA State Department of Transportation - Vancouver
Project: Anatone

Lab No. 35061
October 9, 1993

Lab Sample No. 35061-5 Client ID: 5

WTPH-HCID
Date Extracted: 9-28-93
Date Analyzed: 9-30-93

| Parameters | Concentration, mg/kg | Flag |
|---|---|---|
| Gasoline (C7 - C12) | > 20 | |
| Diesel (> C12 - C24) | > 50 | |
| Heavy Oil (C24+) | > 100 | |
| SURROGATE RECOVERY, % | | |
| 1-chlorooctane | 228 | X10 |
| o-terphenyl | 77 | |

Continued . . . . .

# SOUND ANALYTICAL SERVICES, INC.

WA State Department of Transportation - Vancouver
Project: Anatone

Lab No. 35061
October 9, 1993

Lab Sample No. 35061-5 Client ID: 5

WTPH-G with BTEX by EPA Method 8020
Date Extracted: 10-4-93
Date Analyzed: 10-5-93

| Parameter | Concentration, mg/kg | PQL | Flag |
|---|---|---|---|
| Gasoline (C7 - C12) | 3,300 | 20 | E |
| Benzene | ND | 1.0 | |
| Toluene | 9.8 | 1.0 | |
| Ethyl Benzene | 10 | 1.0 | |
| Xylenes | 180 | 1.0 | |
| SURROGATE RECOVERY, % | | | |
| Trifluorotoluene | NR | | X8 |

NR - Not Reported

WTPH-D
Date Extracted: 10-5-93
Date Analyzed: 10-7-93

| Parameter | Concentration, mg/kg | PQL | Flag |
|---|---|---|---|
| Diesel (> C12 - C24) | 800 | 25 | X2 |
| SURROGATE RECOVERY, % | | | |
| o-terphenyl | 50 | | |

WTPH-418.1 Modified
Date Extracted: 10-4-93
Date Analyzed: 10-4-93

| Parameter | Concentration, mg/kg | Flag |
|---|---|---|
| Heavy petroleum oils (C24+) | 1,100 | |

ND - Not Detected
PQL - Practical Quantitation Limit

# SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047


## QUALITY CONTROL REPORT

### WTPH-HCID

Client: WA State Department of Transportation - Vancouver
Lab No: 35061qc1
Matrix: Soil
Units: mg/kg
Date: October 9, 1993

### DUPLICATES

Dup No. 35061-1

| Parameter | Sample (S) | Duplicate (D) | RPD | Flags |
|---|---|---|---|---|
| Gasoline ($C_7$-$C_{12}$) | > 20 | > 20 | N/C | |
| Diesel (>$C_{12}$-$C_{24}$) | > 50 | > 50 | N/C | |
| Heavy Petroleum Oil ($C_{24}$+) | > 100 | > 100 | N/C | |
| SURROGATE RECOVERY,% | | | | |
| 1-chlorooctane | 445 | 384 | | X10 |
| o-terphenyl | 84 | 79 | | |

N/C - Not Calculated
RPD = Relative Percent Difference
= [(S - D) / ((S + D) / 2)] x 100

### METHOD BLANK

Blank No. 026R0301.D

| Parameter | Result | Flags |
|---|---|---|
| Gasoline ($C_7$-$C_{12}$) | < 20 | |
| Diesel (>$C_{12}$-$C_{24}$) | < 50 | |
| Heavy Petroleum Oil ($C_{24}$+) | < 100 | |
| SURROGATE RECOVERY,% | | |
| 1-chlorooctane | 77 | |
| o-terphenyl | 81 | |

# SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047


## QUALITY CONTROL REPORT

### WTPH-G with BTEX by EPA SW-846 Method 8020

Client: WA State Department of Transportation - Vancouver
Lab No: 35061qc2
Units: mg/kg
Date: October 9, 1993

### METHOD BLANK

Blank No. 93100404

| Parameter | Result | PQL |
|---|---|---|
| Gasoline ($C_7$ - $C_{12}$) | ND | 1.0 |
| Benzene | ND | 0.05 |
| Toluene | ND | 0.05 |
| Ethyl Benzene | ND | 0.05 |
| Xylenes | ND | 0.05 |
| SURROGATE RECOVERY, % | | |
| Trifluorotoluene | 112 | |

ND - Not Detected
PQL - Practical Quantitation Limit

# SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047


## QUALITY CONTROL REPORT

### WTPH-D (Diesel Range Organics)

Client: WA State Department of Transportation - Vancouver
Lab No: 35061qc3
Units: mg/kg
Date: October 9, 1993

### METHOD BLANK

Blank No. 051F0801.D

| Parameter | Result | PQL |
|---|---|---|
| Diesel | ND | 25 |
| SURROGATE RECOVERY, % o-terphenyl | 88 | |

ND - Not Detected
PQL - Practical Quantitation Limit

# SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047


## QUALITY CONTROL REPORT

WTPH-418.1 Modified
Heavy Petroleum Oils (C24+)

Client: WA State Department of Transportation - Vancouver
Lab No: 35061qc4
Units: mg/kg
Date: October 9, 1993

METHOD BLANK

| Parameter | Result |
|---|---|
| TPH | < 100 |

# SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206) 922-2310 - FAX (206) 922-5047


## DATA QUALIFIER FLAGS

ND: Indicates that the analyte was analyzed for but was not detected. The associated numerical value is the practical quantitation limit, corrected for sample dilution.

J: The analyte was analyzed for and positively identified, but the associated numerical value is an estimated quantity.

C: The identification of this analyte was confirmed by GC/MS.

B1: This analyte was also detected in the associated method blank. The reported sample results have been adjusted for moisture, final exract volume, and/or dilutions performed during extract preparation. The analyte concentration was evaluated prior to sample preparation adjustments, and was determined not to be significantly higher than the associated method blank (less than ten times the concentration reported in the blank).

B2: This analyte was also detected in the associated method blank. However, the analyte concentration in the sample was determined to be significantly higher than the method blank (greater than ten times the concentration reported in the blank).

E: The concentration of this analyte exceeded the instrument calibration range.

D: The reported result for this analyte is calculated based on a secondary dilution factor.

A: This TIC is a suspected aldol-condensation product.

M: Quantitation Limits are elevated due to matrix interferences.

S: The calibration quality control criteria for this compound were not met. The reported concentration should be considered an estimated quantity.

X1: Contaminant does not appear to be "typical" product. Elution pattern suggests it may be _____.

X2: Contaminant does not appear to be "typical" product. Further testing is suggested for identification.

X3: Identification and quantification of peaks was complicated by matrix interference; GC/MS confirmation is recommended.

X4: RPD for duplicates outside QC limits. Sample was re-analyzed with similar results. Sample matrix is nonhomogeneous.

X4a: RPD for duplicates outside QC limits due to analyte concentration near the method practical quantitation limit/detection limit.

X5: Matrix spike was diluted out during analysis.

X6: Recovery of matrix spike outside QC limits. Sample was re-analyzed with similar results.

X7: Recovery of matrix spike outside QC limits. Matrix interference is indicated by blank spike recovery data.

X7a: Recovery and/or RPD values for MS/MSD outside QC limits due to high contaminant levels.

X8: Surrogate was diluted out during analysis.

X9: Surrogate recovery outside QC limits due to matrix composition.

X10: Surrogate recovery outside QC limits due to high contaminant levels.

SOUND ANALYTICAL SERVICES, INC.
ANALYTICAL & ENVIRONMENTAL CHEMISTS

4813 Pacific Hwy. East
Tacoma, Washington 98424
(206) 922-2310 • FAX (206) 922-5047

# UST PARAMETERS
# CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

CLIENT: WSDOT
PROJECT NAME: ANATONE
CONTACT: H HORN
PHONE NO: 206 696 6518

ANALYSIS REQUESTED: Specify State _____

| LAB # | SAMPLE I.D. | DATE | TIME | MATRIX | # of Containers | HCID | TPH-G | TPH-D | TPH 418.1 | BTEX | TPH-G / BTEX | TPH 8015M | Total Lead | TCLP Lead | PCB's | PAH's | Phenols | Halogenated Volatiles EPA 601/8010 | Aromatic Volatiles EPA 602/8020 | Volatile Organics EPA 624/8240 GC/MS | Semi-volatiles EPA 625/8270 GC/MS | Metals | Total Halogens | | | | CLOSURE DELIVERABLES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 9/21 | 1:00 | SOIL | | ✓ | | | | | | | | | | | | | | | | | | | | | |
| | 2 | " | 3:30 | " | | ✓ | | | | | | | | | | | | | | | | | | | | | |
| | 3 | " | 3:30 | " | | ✓ | | | | | | | | | | | | | | | | | | | | | |
| | 4 | " | 3:30 | " | | ✓ | | | | | | | | | | | | | | | | | | | | | |
| | 5 | " | 3:30 | " | | ✓ | | | | | | | | | | | | | | | | | | | | | |

| | Signature | Printed Name | Firm | Time / Date |
|---|---|---|---|---|
| Relinquished By | Harry Horn | HARRY HORN | WSDOT | 12:50/9-24-93 |
| Received By | Mary Curtiss | Mary Curtiss | SAS | 12:50 9/24/93 |
| Relinquished By | | | | |
| Received By | | | | |
| Relinquished By | | | | |
| Received By | | | | |

SPECIAL INSTRUCTIONS/COMMENTS:

# UNDERGROUND STORAGE TANK
## Site Check/Site Assessment Checklist

WASHINGTON STATE DEPARTMENT OF ECOLOGY

| For Office Use Only | |
|---|---|
| Owner # | |
| Site # | |

## INSTRUCTIONS:

When a release has **not** been confirmed and reported, this Site Check/Site Assessment Checklist must be completed and signed by a person registered with the Department of Ecology. **The results of the site check or site assessment must be included with this checklist.** This form must be submitted to Ecology at the address shown below within 30 days after completion of the site check/site assessment.

SITE INFORMATION: Include the Ecology site ID number if the tanks are registered with Ecology. This number may be found on the tank owner's invoice or tank permit.

TANK INFORMATION: Please list all the tanks for which the site check and site assessment is being conducted. Use the tank ID number if available, and indicate tank capacity and substance stored.

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT: Please check the appropriate item.

CHECKLIST: Please initial each item in the appropriate box.

SITE ASSESSOR INFORMATION: This form must be signed by the registered site assessor who is responsible for conducting the site check/ site assessment.

Underground Storage Tank Section
Department of Ecology
P. O. Box 47655
Olympia, WA 98504-7655

## SITE INFORMATION

Site ID Number (on invoice or available from Ecology if the tanks are registered): #012211

Site/Business Name: WSDOT ~ Anatone Maintenance Site

Site Address: SR 129 MP 17.4 (Street) Telephone: (509) 256-3363

Anatone (City) Wa (State) 99401 (ZIP-Code)

## TANK INFORMATION

| Tank ID No. | Tank Capacity | Substance Stored |
|---|---|---|
| 66E01030 | 2000 | Diesel |
| 66E01031 | 500 | Unleaded |
| | | |
| | | |

## REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT

Check one:

- ____ Investigate suspected release due to on-site environmental contamination.
- ____ Investigate suspected release due to off-site environmental contamination.
- ____ Extend temporary closure of UST system for more than 12 months.
- ____ UST system undergoing change-in-service.
- ____ UST system permanently closed-in-place.
- X UST system permanently closed with tank removed.
- ____ Abandoned tank containing product.
- ____ Required by Ecology or delegated agency for UST system closed before 12/22/88.
- ____ Other (describe): ____

## CHECKLIST

Each item of the following checklist shall be initialed by the person registered with the Department of Ecology whose signature appears below.

| | | YES | NO |
|---|---|---|---|
| 1. | The location of the UST site is shown on the vicinity map. | X | |
| 2. | A brief summary of information obtained during the site inspection is provided. (see Section 3.2 in the Site Assessment Guidance) | X | |
| 3. | A summary of UST system data is provided. (see Section 3.1) | X | |
| 4. | The soils characteristics at the UST site are described. (see Section 5.2) | X | |
| 5. | Is there apparent groundwater in the tank excavation? | | |
| 6. | A brief description of the surrounding land is provided. (see Section 3.1) | X | |
| 7. | Information has been provided indicating the number and types of samples collected, methods used to collect and analyze the samples, and the name and address of the laboratory used to perform the analyses. | X | |
| 8. | A sketch or sketches showing the following items is provided: | | |
| | - location and ID number for all field samples collected | X | |
| | - groundwater samples distinguished from soil samples (if applicable) | N.A. | |
| | - samples collected from stockpiled excavated soil | | X |
| | - tank and piping locations and limits of excavation pit | X | |
| | - adjacent structures and streets | X | |
| | - approximate locations of any on-site and nearby utilities | X | |
| 9. | If sampling procedures different from those specified in the guidance were used, has justification for using these alternative sampling procedures been provided? (see Section 3.4) | — | |
| 10. | A table is provided showing laboratory results for each sample collected including: sample ID number, constituents analyzed for and corresponding concentration, analytical method and detection limit for that method. | X | |
| 11. | Any factors that may have compromised the quality of the data or validity of the results are described. | — | |
| 12. | *The results of this site check/site assessment indicate that a confirmed release of regulated substance has occured.* | X | |

## SITE ASSESSOR INFORMATION

Harry Horn
PERSON REGISTERED WITH ECOLOGY

WSDOT
FIRM AFFILIATED WITH

BUSINESS ADDRESS: 4200 Main St P.O. Box 1709

TELEPHONE: (206) 905-2163

Vancouvir | wa | 98668-1709
CITY | STATE | ZIP+CODE

*I hereby certify that I have been in responsible charge of performing the site check/site assessment described above. Persons submitting false information are subject to penalties under Chapter 173-360 WAC.*

March 4, 1994
Date

Harry Horn
Signature of Person Registered with Ecology

# UNDERGROUND STORAGE TANK
## Permanent Closure/Change-In-Service Checklist

The purpose of this form is to certify the proper closure/change-in-service of underground storage tank (UST) systems. These activities must be conducted in accordance with Chapter 173.360 WAC. Washington State UST rules require the tank owner or operator to notify Ecology in writing 30 days prior to closure or change-in-service of tanks. This must be done by completing the 30 Day Notice form (ECY 010-155).

This Permanent Closure Checklist shall be completed and signed by a Licensed Decommissioning Supervisor. The supervisor shall be on site when all tank permanent closure/change-in-service activities are being conducted. The firm which employs the licensed supervisor shall also be licensed by the Washington State Department of Ecology as a Service Provider. If any of the activities listed below have been supervised by a different licensed supervisor, a separate checklist must be filled out and signed by the licensed supervisor performing those activities.

For further information about completing this form, please contact the Department of Ecology UST Program.

A separate checklist must be completed for each UST system (tank and associated piping), except that UST systems at one site may be reported together by completing page 2 of this form separately for each system. The completed checklist should be mailed to the following address within 30 days of the completion of the closure or change-in-service.

Underground Storage Tank Section
Department of Ecology
Mail Stop PV-11
Olympia, WA 98504-8711

### 1. UST SYSTEM OWNER AND LOCATION

Site Owner/Operator: WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

Owners Address: 4200 MAIN STREET (Street) 1709 (P.O. Box)

VANCOUVER (City) WASHINGTON (State) 98668-1709 (ZIP-Code)

Telephone: (206 ) 696-6518

Site ID Number (on Invoice or available from Ecology if tank is registered): #012211

Site/Business Name: ANATONE MAINTENANCE FACILITY

Site Address: SR 129, M.P. 17.4 (Street) (County)

ANATONE (City) WASHINGTON (State) (ZIP-Code)

### 2. TANK PERMANENT CLOSURE/CHANGE-IN-SERVICE PERFORMED BY:

Firm: N.W. CONSTRUCTION GENERAL CONTRACTING, INC. License Number: S000061

Address: 22317 NE 72ND AVENUE (Street) PO BOX 2950 (P.O. Box)

BATTLE GROUND (City) WASHINGTON (State) 98604 (ZIP-Code)

Telephone: (206 ) 687-2040

Licensed Supervisor: RICHARD LEWIS Decommissioning License Number: W001830

This page must be completed separately for each tank permanently closed (decommissioned) or change-in-service at the site. For additional tanks you may photocopy this form prior to completing.

## 3. TANK CLOSURE/CHANGE-IN-SERVICE INFORMATION

1. Tank ID Number (as registered with Ecology): 66E01030
2. Year Installed: 1968
3. Tank capacity in gallons: 2,000 GALLON
4. Date of last use: 9-91
5. Last substance stored: DIESEL
6. Date of closure/change-in-service: 9-21-93
7. Type of closure: Closure with Tank Removal [X] In-place Closure [ ] Change-in-Service [ ]
8. If in-place closure is used, the tank has been filled with the following substance: N/A
9. If change-in-service, indicate new substance stored in tank: N/A
10. Local permit(s) (if any) obtained from:

*Always contact local authorities regarding permit requirements.*

11. Has a site assessment been completed? Yes [ ] No [X]

*Unless an external release detection system is operating at the time of closure or change in service, and a report is provided as specified in WAC 173-360-390, a site assessment must be conducted. This site assessment must be conducted by a person registered with the Department of Ecology to perform site assessments. Results of the site assessment must be included with the Site Assessment Checklist (ECY 010-158).*

## 4. CHECKLIST

Each item of the following checklist shall be initialed by the licensed supervisor whose signature appears below.

| | Yes | No | NA* |
|---|---|---|---|
| 1. Has all liquid been removed from product lines? | ✓ | | |
| 2. Has all product piping been capped or removed? | ✓ | | |
| 3. Have all non-product lines been capped or removed? | ✓ | | |
| 4. Have all liquid and accumulated sludges been removed from the tank? | ✓ | | |
| 5. Has the tank been properly purged or inerted? | ✓ | | |
| 6. Have the drop tube, fill pipe, gauge pipe, pumps and other tank fixtures been removed? | ✓ | | |
| 7. Have all tank openings been plugged or capped? NOTE: One plug should have 1/8 inch vent hole. | ✓ | | |
| 8. Have all sludges removed from the tank been designated and disposed of in accordance with the state of Washington's dangerous waste regulations (Chapter 173-303 WAC)? | | | ✓ |
| 9. If removed, was tank properly labeled and disposed of in accordance with all applicable local, state and federal regulations? | ✓ | | |

*Item not applicable

*I hereby certify that I have been the licensed supervisor present on site during the above listed permanent closure activities and to the best of my knowledge they have been conducted in compliance with all applicable state and federal laws, regulations and procedures pertaining to underground storage tanks.*

*Persons submitting false information are subject to penalties under Chapter 173.360 WAC.*

9-21-93
Date

Richard Lacey
Signature of Licensed Supervisor

## 5. ADDITIONAL REQUIRED SIGNATURES

10-5-93
Date

Signature of Licensed/Service Provider (firm) Owner or Authorized Representative

10-8-93
Date

Harry Horn
Signature of Tank Owner or Authorized Representative

This page must be completed separately for each tank permanently closed (decommissioned) or change-in-service at the site. For additional tanks you may photocopy this form prior to completing.

## 3. TANK CLOSURE/CHANGE-IN-SERVICE INFORMATION

1. Tank ID Number (as registered with Ecology): 66E01031
2. Year Installed: 1968
3. Tank capacity in gallons: 500 GALLON
4. Date of last use: 9-91
5. Last substance stored: UNLEADED GASOLINE
6. Date of closure/change-in-service: 9-21-93
7. Type of closure: Closure with Tank Removal [X] In-place Closure [ ] Change-in-Service [ ]
8. If in-place closure is used, the tank has been filled with the following substance: N/A
9. If change-in-service, indicate new substance stored in tank: N/A
10. Local permit(s) (if any) obtained from:

*Always contact local authorities regarding permit requirements.*

11. Has a site assessment been completed? Yes [ ] No [X]

*Unless an external release detection system is operating at the time of closure or change in service, and a report is provided as specified in WAC 173-360-390, a site assessment must be conducted. This site assessment must be conducted by a person registered with the Department of Ecology to perform site assessments. Results of the site assessment must be included with the Site Assessment Checklist (ECY 010-158).*

## 4. CHECKLIST

Each item of the following checklist shall be initialed by the licensed supervisor whose signature appears below.

| | Yes | No | NA* |
|---|---|---|---|
| 1. Has all liquid been removed from product lines? | ✓ | | |
| 2. Has all product piping been capped or removed? | ✓ | | |
| 3. Have all non-product lines been capped or removed? | ✓ | | |
| 4. Have all liquid and accumulated sludges been removed from the tank? | ✓ | | |
| 5. Has the tank been properly purged or inerted? | ✓ | | |
| 6. Have the drop tube, fill pipe, gauge pipe, pumps and other tank fixtures been removed? | ✓ | | |
| 7. Have all tank openings been plugged or capped? NOTE: One plug should have 1/8 inch vent hole. | ✓ | | |
| 8. Have all sludges removed from the tank been designated and disposed of in accordance with the state of Washington's dangerous waste regulations (Chapter 173-303 WAC)? | | | ✓ |
| 9. If removed, was tank properly labeled and disposed of in accordance with all applicable local, state and federal regulations? | ✓ | | |

*Item not applicable

*I hereby certify that I have been the licensed supervisor present on site during the above listed permanent closure activities and to the best of my knowledge they have been conducted in compliance with all applicable state and federal laws, regulations and procedures pertaining to underground storage tanks.*

*Persons submitting false information are subject to penalties under Chapter 173.360 WAC.*

9-21-93
Date

Signature of Licensed Supervisor

## 5. ADDITIONAL REQUIRED SIGNATURES

10-5-93
Date

Signature of Licensed Service Provider (firm) Owner or Authorized Representative

10-8-93
Date

Harry Horn
Signature of Tank Owner or Authorized Representative