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PORT of Seattle Term. 115
King Co. / Seattle

UST CLOSURE REPORT
PORT OF SEATTLE, TERMINAL 115
Southwest Front Street &
West Marginal Way Southwest
Seattle, WA 98106

Prepared for:

Lee Morse General Contractor, Inc.
1401 52nd Avenue East
Fife, Washington 98424-1221

Prepared by:

Columbia Environmental, Inc.
200 South 333rd Street - Suite 120
Federal Way, Washington 98003
(206)838-7261

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EP 25 1995
ECOLOGY





Columbia Environmental Inc.

200 S. 333rd St. • Suite 120 • Federal Way, WA 98003 • Seattle 206/838-7261 Tacoma 206/927-1588 Fax 206/838-5744

00005542

September 21, 1995

Washington Department of Ecology
UST Section
PO Box 47600
Olympia, WA 98504-7600

Re: UST Closure Report
Port of Seattle, Terminal 115
Southwest Front Street &
West Marginal Way Southwest
Seattle, WA 98106
Project No. 95584

Dear Sir/Madam:

Enclosed is one copy of the UST Closure Report for the Port of Seattle, Terminal 115, located at Southwest Front Street & West Marginal Way Southwest in Seattle, Washington. If you have any questions, please do not hesitate to contact us.

Sincerely,

Henry Perrin
Environmental Engineer
Columbia Environmental, Inc.

Enclosure

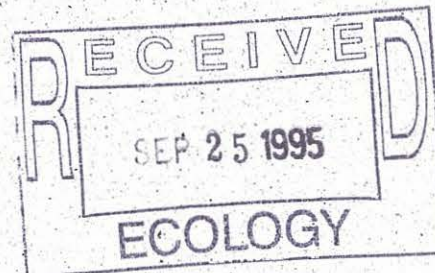


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SR
Release
W

DEPARTMENT OF ECOLOGY
NWR0/TCP TANKS UNIT

INTERIM CLEANUP REPORT
SITE CHARACTERIZATION
FINAL CLEANUP REPORT
OTHER _____

AFFECTED MEDIA: SOIL
OTHER _____ GW

INSPECTOR (INIT.) DATE 12-12-95



UNDERGROUND STORAGE TANK REMOVAL
SITE ASSESSMENT
Port of Seattle, Terminal 115

1.0 Executive Summary

On August 21, 1995, one underground storage tank (UST) was removed from the Port of Seattle, Terminal 115 site, located at northeast of the intersection between Southwest Front Street and West Marginal Way Southwest in Seattle, Washington. The tank was reportedly used to store heating oil for a nearby structure, and measured roughly 7.5 feet in diameter by 29 feet in length. This translates to a maximum capacity of slightly over 9,500 gallons.

The tank was in poor condition, with corrosion and numerous holes in the tank shell. Based on discussions with Howard Small of GeoScience Management, a consultant for the Port of Seattle, the original plans indicate that the UST was constructed from a liquid bulk tanker truck. The relatively unusual configuration and non-standard tank size would appear to confirm this.

Owner/Operator: Port of Seattle
Site Name : Port of Seattle, Terminal 115
Release Report: 8/23/95

The tank removal process was completed by Lee Morse General Contractor, Inc. who was responsible for inerting, removal and disposal. Columbia Environmental Inc. was on site to conduct Site Assessment activities at the time of closure.

The overlying soil which was excavated to allow tank removal was segregated into "clean" and "contaminated" stockpiles based on observed indications of contamination such as odors and discoloration. The contaminated soil stockpile was placed on visqueen to minimize environmental impacts.

After removal of the tank, the area was overexcavated to remove the most severely contaminated soil. This soil was added to the contaminated stockpile. Soil Samples were collected from the side walls, the bottom of the excavation, and the soil stockpiles. Laboratory analysis by the WTPH-D method indicated that diesel oil concentrations in soils remaining in the east and west walls of the excavation, and soils in the contaminated stockpile, exceeded the "Method A" cleanup level of 200 parts per million (ppm) as specified in the Model Toxics Control Act (MTCA).

It is our understanding that the contaminated soils were transported to TPS Technologies in Tacoma, Washington for thermal desorption treatment. Some additional remedial excavation may have been conducted under the direction of GeoScience Management.



Groundwater was encountered near the bottom of the excavation, which extended to a depth of approximately 13 feet. It is likely that diesel fuel concentrations in this groundwater exceed the "Method A" cleanup level of 1 ppm for diesel fuel in groundwater.

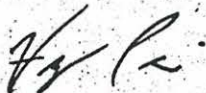
A number of monitoring wells are present on the site. The closest well in MW-17, located directly north of the excavation. Based on discussions with Howard Small, diesel concentrations of groundwater sampled from this well were less than 1 ppm, however, free product has been identified in monitoring wells located further north. The source of this free product may have been leaks from the product lines which appear to have run to the north and possibly branched out to two different locations based on discussions with Mr. Small.

Our observations and the results of laboratory analyses suggest that a release has occurred at this site. Most of the contaminated soil surrounding the UST appears to have been properly removed and disposed. However, additional soil and groundwater with diesel concentrations in excess of MTC A Method A cleanup levels may be present in the vicinity of the former UST, and the presence of elevated diesel levels in soil and groundwater to the north appears to have been confirmed. Significant additional remediation would be required if the Port of Seattle desires to meet these levels within the site.

The site location map and site plan can be found in Appendix A of this report. The results of laboratory analysis are included in Appendix B. Copies of the UST removal permit and tank disposal documentation are provided in Appendix C. Appendix D contains the WDOE Checklist.

2.0 Certification of Report Integrity

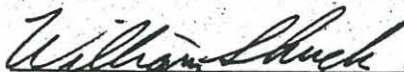
Columbia Environmental, Inc. certifies that this UST Site Assessment has been conducted in accordance with industry standards, and to the best of our knowledge, represents an accurate account of the environmental condition of the subject property at the time of assessment.



Henry Perrin
Environmental Engineer
WDOE-Registered UST Site Assessor

9/24/95

Date



William Shuck
President

9/21/95

Date



3.0 Site Conditions

The subject site is currently vacant, having previously been rented as warehouse space. The property is owned by the Port of Seattle, who plans to demolish the existing facility and may lease the property to a petroleum storage business.

Land use in the surrounding area is primarily industrial in character, with surrounding property to the north, south, and east utilized by the Port of Seattle and related industries. Marginal Way is located to the west.

The site is located in a valley formed by the mouth of the Duwamish River, which is located roughly one-fourth mile to the west. Topography in the area slopes generally to the west-northwest, with a relatively steeply sloping, west facing hillside located across Marginal Way.

As shown on the site plan, the UST was located east of the existing warehouse structure.

4.0 Sampling Plan

The sampling plan for this site was in accordance with the WDOE's "Guidance for Site Checks and Site Assessments for Underground Storage Tanks", and included collecting and analyzing soil samples from below the tank, from the side walls of the excavation, and the stockpiled overlying soils (overburden). Samples were collected in general accordance with this plan.

All sampling was conducted in accordance with WDOE guidance documents. Samples were collected using clean hand tools, placed in sterilized glassware provided by the project laboratory, and stored in an iced chest on the site and during transport.

5.0 Tank Removal

Removal of the tank was completed by Lee Morse General Contractor, Inc. on August 21, 1995. Prior to removal the tanks were pumped of all liquid materials, and triple rinsed with a high pressure washer and detergent solution. The USTs were then inerted with dry ice, using approximately two (2) pounds for every 100 gallons of tank volume. Tank removal proceeded after measurements with a combustible gas indicator showed that vapor levels inside the tanks were less than 10 percent of the lower explosive limit.



After removal the tank was re-cleaned and cut up on site, and the scrap was disposed of at Seattle Iron & Metals.

Copies of the removal permit, pump and rinse certificates, and disposal documentation can be found in Appendix C.

6.0 Tank Condition

The UST was a single wall, welded steel tank without cathodic protection or overflow/spill containment devices. The top of the cylindrical tank shell was located approximately 5 feet below grade, and the UST was oriented on a north-south axis. A manhole was located roughly in the center of the tank. The tank measured roughly 7.5 feet in diameter by 29 feet in length, which translates to a maximum capacity of slightly over 9,500 gallons.

The tank was in poor condition, with corrosion and numerous holes in the tank shell. Based on discussions with Howard Small of GeoScience Management, a consultant for the Port of Seattle, the original plans indicate that the UST was constructed from a liquid bulk tanker truck. The relatively unusual configuration and non-standard tank size would appear to confirm this.

A vent line and product line were noted in the northwest corner of the excavation, running to the west and northwest toward the building. The vent line surfaced along the outside of the building several feet to the northwest. The exact location of the product line has not been verified, however, based on discussions with Howard Small, the product line appears to have connected to a burner located to the north inside the building. In addition, the line may have branched out to a previous burner located further north in a portion of the building which has been demolished.

7.0 Soil Conditions

Much of the area around the site is known to have been filled in the early part of this century, primarily with material dredged from the nearby Duwamish River. The tank had been placed in gray silt soils which appeared to be native to the general area, however, it is difficult to determine whether the soil was native or very old dredged fill material.

Blue-gray discoloration and petroleum odors were noted in soil removed from the lower portions of the excavation. This soil was segregated and stockpiled on visqueen pending disposal. The upper soil did not appear to be contaminated, and was placed in a separate stockpile.



Groundwater was encountered near the bottom of the excavation, which extended to approximately 13 feet. It is likely that diesel fuel concentrations in this groundwater exceed the "Method A" cleanup level of 1 ppm for diesel fuel in groundwater. A number of groundwater monitoring wells are present on the site, and ongoing monitoring is apparently being conducted.

8.0 Laboratory Results

The results of laboratory analysis are provided in Appendix B, and sample locations are included in Appendix A. The results indicated that diesel fuel concentrations in soil remaining in the east and west walls of the excavation, and in the contaminated soil stockpile, exceed the MTCA "Method A" cleanup level of 200 ppm for diesel fuel in soil. No diesel fuel was detected in samples collected from the bottom, north wall, and south wall of the excavation, or in samples collected from the "clean" overburden stockpile.

9.0 Conclusions

Based on our observations and the results of laboratory analyses, it appears that a release has occurred at this site. Likely sources of the release include leaks from the UST and overfills. In addition, significant leakage from the product lines north of the UST appears to have occurred based on the reported presence of free product in monitoring wells.

It is our understanding that the contaminated soil excavated on August 21, 1995, was transported to TPS Technologies in Tacoma, Washington for thermal desorption treatment. Some additional remedial excavation after this date may have been conducted under the direction of GeoScience Management.

It would appear that the most contaminated soil surrounding the UST has been properly removed and disposed. However, additional soil and groundwater with diesel concentrations in excess of MTCA Method A cleanup levels may be present in the vicinity of the former UST, and the presence of elevated diesel levels in soil and groundwater to the north appears to have been confirmed. Significant additional remediation would be required if the Port of Seattle desires to meet these levels within the site.



10.0 Limitations

This report has been prepared for the exclusive use of the client and their representatives for specific application to this site. The work for this project was conducted in a manner consistent with generally accepted environmental science practices for consultants acting under similar conditions in the area, and in accordance with the terms of the client's request. No other warranty is expressed or implied.

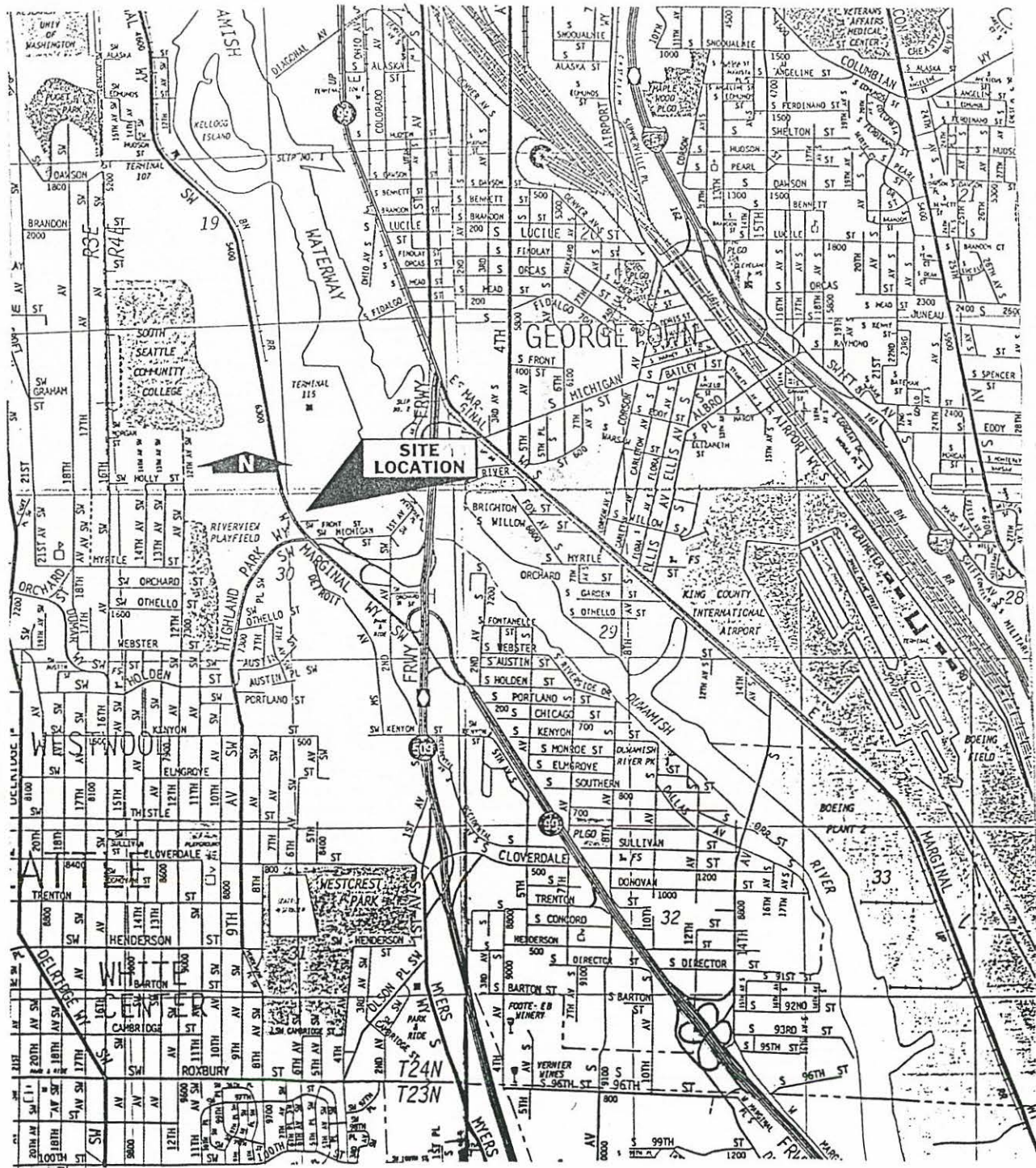
If new information on the site is developed during future environmental studies, Columbia Environmental, Inc., should be allowed to review this information, to reevaluate the conclusions of this report, and to provide amendments as required.



APPENDIX A

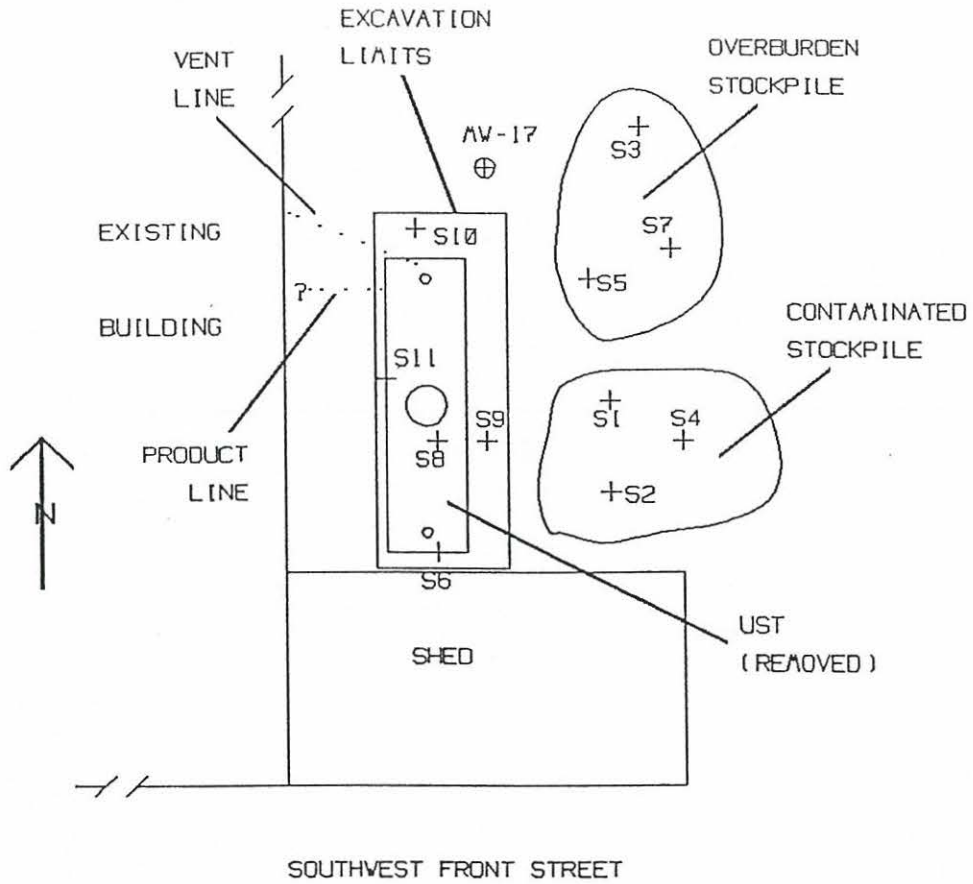
Site Location / Site Plan





<p>SITE LOCATION Terminal 115 Seattle, Washington</p>	<p>Columbia Environmental Inc. Project Number 95584 September 1995</p>
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SCALE



KEY

S1 SAMPLE
+ LOCATION

MW-17 MONITORING
⊕ WELL

Note: Samples S1 and S4 were collected but not analyzed.

<p>SITE PLAN Terminal 115 Seattle, Washington</p>	<p>Columbia Environmental Inc. Project Number 95584 September 1995</p>
--	--



APPENDIX B
Analytical Results



TABLE A:

Summary of Analytical Results
Project No. 95584

Sample Number	Location	Analysis	Diesel Fuel (ppm)	Cleanup Level (ppm)
S2	"Contaminated" Stockpile	WTPH-D	1300	200
S3	"Clean" Stockpile - Composite	WTPH-D	ND	200
S5	"Clean" Stockpile - Composite	WTPH-D	ND	200
S6	South Wall @ 8' Depth	WTPH-D	ND	200
S7	"Clean" Stockpile - Composite	WTPH-D	ND	200
S8	Bottom @ 13' Depth	WTPH-D	ND	200
S9	East Wall @ 10.5' Depth	WTPH-D	1200	200
S10	North Wall @ 9' Depth	WTPH-D	ND	200
S11	West Wall @ 9' Depth	WTPH-D	2100	200

NOTES:

- ppm denotes parts per million.
- Cleanup level is "Method A" Cleanup Level as specified in the Model Toxics Control Act, Chapter 173-340 WAC.
- ND denoted none detected. The detection limits for this analysis is 25 ppm.
- Samples S1 and S4 were collected but not analyzed.





August 23, 1995
Lab Traveler #:08-064

Henry Perrin
Columbia Environmental Inc.
200 South 333rd Street, Suite 120
Federal Way, WA 98003

Dear Henry:

Enclosed are the results of the analyses of samples submitted on August 22, 1995 from Project 95584.

We appreciate this opportunity to be of service to you on this project. If you have any questions regarding this report, please feel free to call me.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Wendy Linn McLeod'.

Wendy Linn McLeod
Project Chemist

Enclosures

Date of Report: August 23, 1995
Samples Submitted: August 22, 1995
Lab Traveler: 08-064
Project: 95584

WTPH-D

Date Extracted: 8-22-95
Date Analyzed: 8-22-95

Matrix: Soil
Units: mg/Kg (ppm)

Client ID	Lab ID	Dilution Factor	Total Petroleum Hydrocarbons	Surrogate Recovery	Flags	MRL
S2	08-064-2	1.0	1300	---	F	25
S3	08-064-3	1.0	ND	82%		25
S5	08-064-5	1.0	ND	95%		25
S6	08-064-6	1.0	ND	76%		25
S7	08-064-7	1.0	ND	87%		25
S8	08-064-8	1.0	ND	80%		25
S9	08-064-9	1.0	1200	---	F	25
S10	08-064-10	1.0	ND	83%		25
S11	08-064-11	1.0	2100	---	F	25

F-Surrogate recovery data not available due to the high concentration in the sample.

Date of Report: August 23, 1995
Samples Submitted: August 22, 1995
Lab Traveler: 08-064
Project: 95584

WTPH-D
METHOD BLANK QUALITY CONTROL

Date Extracted: 8-22-95
Date Analyzed: 8-22-95

Matrix: Soil
Units: mg/Kg (ppm)

Lab ID: MB0822S1

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

Date of Report: August 23, 1995
Samples Submitted: August 22, 1995
Lab Traveler: 08-064
Project: 95584

**WTPH-D
DUPLICATE QUALITY CONTROL**

Date Extracted: 8-22-95
Date Analyzed: 8-22-95

Matrix: Soil
Units: mg/Kg (ppm)

Lab ID: 08-065-5

	Dilution Factor	Total Petroleum Hydrocarbons	Surrogate Recovery	Flags	MRL
Sample	1.0	ND	92%		25
Duplicate	1.0	29.2	93%		25
RPD		NA			

Date of Report: August 23, 1995
Samples Submitted: August 22, 1995
Lab Traveler: 08-064
Project: 95584

**WTPH-D
SPIKE BLANK QUALITY CONTROL**

Date Extracted: 8-22-95
Date Analyzed: 8-22-95

Matrix: Soil
Units: mg/Kg (ppm)

Lab ID: SB0822S1

	Dilution Factor	Total Petroleum Hydrocarbons	Percent Recovery	Surrogate Recovery	Flags	MRL
Spike Blank @ 100 ppm	1.0	97.9	98%	114%		25

Date of Report: August 23, 1995
Samples Submitted: August 22, 1995
Lab Traveler: 08-064
Project: 95584

Date Analyzed: 8-22-95

% MOISTURE

Client ID	% Moisture
S2	21
S3	19
S5	23
S6	22
S7	31
S8	28
S9	28
S10	31
S11	26



Columbia Environmental Inc.

NORTHMARK BUILDING
200 SOUTH 333RD STREET - SUITE 120
FEDERAL WAY, WASHINGTON 98003

OFFICE: 206/838-7261
FAX: 206/927-2610

CHAIN OF CUSTODY RECORD

Page 1 of 1

08-064

Project# 95584
Project Name Part of Seattle
Client _____
Results to Henry Perrin

WUM

Sample #	Location	Sample Description	Date	Time	Sample Type	Analysis Required
1	S1	Stockpile - contaminated Soil	8/21	1100	S	H ₂ O
2	S2	"		1145		W.P.H-D, Dry Weight
3	S3	Composite - "clean" Stockpile		1155		" " "
4	S4	Composite - "contaminated" stockpile		138		H ₂ O
5	S5	Composite - "clean" stockpile		141		W.P.H-D, Dry Weight
6	S6	S wall @ 8'		204		
7	S7	Composite - "clean" Stockpile		212		
8	S8	Bottom @ 13'		347		
9	S9	E Side @ 10.5'		358		
10	S10	N Side @ 9'		355		
11	S11	W Side @ 9'		400		

Sample Type: A=Air B=Bulk S=Soil W=Water Other=Describe

Special Instructions 24-hr Rush

SIGNATURES: (Name, Company, Date and Time) Laboratory Name: On Site

1. Relinquished by: Wanda Butler 8/22/95 8:25 2. Relinquished by: _____

Received by: Theresa Dunbar 8/22/95 8:25 am Received by: _____

Delivered by: Hand _____ UPS _____ Airborne _____ Fed X _____ Other Collector

APPENDIX C

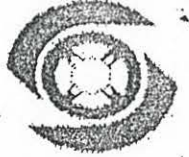
Tank Disposal Documentation



Your
Seattle
Fire Department

RECEIVED PERMIT DESK

AUG 16 1995



APPLICATION FOR PERMIT

Permit Code No.: 799 Title: TEMP. UNDERGROUND TANK REMOVAL/ABANDONMENT PERMIT

Fee: \$98.00 (No Renewal)

Code Reference: SFC 79.116

Date Received: 8/16/95

Date Issued: 8/21/95

Check # 16784

Receipt # 184343 or Data Entry # _____

Permit Expiration Date: 8/21/95

Firm Name: LFE MORSE General Contractor

Phone: 922-2000

Firm Address: 1401 5th Ave East City: FIFE

State: WA Zip: 98059

Job Site: Port of Seattle - Terminal 115 - Corner of

West marginal way S.W
S.W Front Street

Person In Charge: Scott Braun

Phone: 922-2000

Number of Tank(s): 1

Tank Size(s): 8000

Product(s) Previously Contained: Diesel

Hot Work: Yes No

REMITTANCE FOR PERMIT FEE AS SHOWN ABOVE MUST BE RETURNED WITH THIS APPLICATION TO:

SEATTLE FIRE DEPARTMENT HEADQUARTERS
HAZARDOUS MATERIAL PERMITS
301 Second Avenue South
Seattle, WA 98104-2618

Make Checks Payable To: CITY OF SEATTLE

PERMIT CONDITIONS:

1. TANKS MAY BE REMOVED ONLY AFTER FIRE DEPARTMENT INSPECTION.
2. Two (2) 40 BC portable fire extinguishers are to be on site within 50' of the operation.
3. Rope or ribbon barricades must be provided circling 10' from the operation or be enclosed in a fenced yard.
4. "No Smoking" signs must be posted in readily visible locations.
5. No hot works allowed unless the tanks are certified gas free. A separate Fire Department permit (Code 491) is required for cutting and welding operations.

PROCEDURES:

1. Call 233-7106, 24 hours prior to removal to arrange for an appointment. Appointments must be confirmed by an Inspector.
 2. Permits may cover multiple tanks located at a single inspection area. If additional tanks are to be removed or abandoned at later dates, separate permits shall be obtained.
- Additional fees will be charged if inspectors are required to work other than normal business hours. (Normal business hours are 7:30 a.m. to 4:30 p.m.)

4. To ensure tanks are completely free of all flammable or combustible liquids, a receipt or certificate must be on site indicating the tanks has been pumped and rinsed with an approved material. Product and rinse water must be disposed of in an approved manner.
5. If tanks are being removed, the tanks' atmosphere must be inerted using one of the following approved methods:
 - a. Solid dry ice
 - b. Compressed gas cylinders releasing CO₂ in the vapor phase
 - c. Purging using air

Specific guidelines for the use of each method is provided in the Seattle Fire Department Inspection Guideline No. 79.6011.
6. Tanks being abandoned must be filled with a lean concrete mixture. Tanks previously containing Class I liquids must be inerted prior to filling with lean concrete.
7. A Fire Marshal's Office Inspector will test the tanks' atmosphere using a gas detector.

A minimum reading of 60% CO₂ must be obtained prior to tank removal if CO₂ is used to inert the tank.

A maximum reading of 10% LEL must be achieved prior to removal of the tank if the air purging method of inertion is used.
8. CO₂ fire extinguishers and discharge of liquid CO₂ from compressed gas cylinders is prohibited.
9. Tanks with baffles to prevent movement of liquid (or tanks without baffles larger than 10,000 gallons) must be certified gas free by a Marine Chemist or a Petroleum Industry Safety Engineer regularly engaged in that business prior to removal.
10. Tanks being removed must be removed from the ground and relocated to a remote, approved facility on the same day that the permit is issued.
11. After the tanks are removed, if the tank has not already been cleaned, the openings should be sealed so the CO₂ gas will remain in the tank during transit. In addition, tanks large enough to allow a person to enter it to do repair work should be marked on one side with spray paint "NO AIR - INERT GAS."

Special Permit Conditions:

- O₂ → 10% , LEL → 4%

- (X.I.L.) Person in charge agrees to abide by permit conditions outlined above.

[Signature]

SEATTLE FIRE DEPARTMENT

Expiration Date:

8.21.95

By

[Signature]

Inspector

1450

Post-It™ brand fax transmittal memo 7671		# of pages ▶
To <u>Henry</u>	From <u>Becky</u>	
Co. <u>Columbia</u>	Co. <u>Leo Morse</u>	
Dept.	Phone # <u>922-2000</u>	
Fax # <u>838-5744</u>	Fax # <u>922-8787</u>	

TERMINAL 115

CERTIFICATE OF WEIGHT
 ISSUED UNDER AUTHORITY OF CITY OF SEATTLE ORD. 41014, AS AMENDED
SEATTLE IRON & METALS CORPORATION

2955 11TH AVE. W. SEATTLE, WASH. 98134 682-0040

229314

WEIGHED FOR

Leo Morse
AUG 24 1995

8/24/95
DATE

DRIVER

ON OFF

ADDRESS

SEATTLE IRON & METALS CORP. 50

45180 LB

34270 LB

lbs. Gross

lbs. Tare

lbs. Net

10910

I, THE UNDERSIGNED, CERTIFY THAT THE WEIGHTS INDICATED HEREON ARE TRUE AND CORRECT, AND DO HEREBY IMPRESS THE SEAL OF THE ABOVE LICENSED CITY WEIGHMASTER IN AUTHENTICATION THEREOF.

WEIGHED BY

A

LICENSED CITY WEIGHER

FEE

30

1042

Marine Vacuum Service, Inc.

A WASHINGTON ENVIRONMENTAL COMPANY
MARINE AND INDUSTRIAL CLEANING
TANK REMOVAL

P.O. Box 24263 Seattle, Washington 98124
Telephone (206) 762-0240
FAX (206) 763-8084
1-800-540-7491

UNDERGROUND STORAGE TANK
CLEAN FOR DISPOSAL CERTIFICATE

Date: August 22, 1995

Attn: Lee Morse General Contractor
1401 52nd Ave. E
Fife, Wa. 98424-1221
(206) 922-2000

Job Number: 577

Tank Owner: Port of Seattle


Tank Location: Terminal 115

Tank Capacity: 1 - 8,000 Gallon

Last contents held in tank: Diesel

Marine Vacuum Service certifies that the tank mentioned above has been pumped of all liquid materials and has been triple rinsed, with a high pressure washer and soap solution, and is clean according to all Local, State, and Federal regulations.

Thank You,



Representative
Marine Vacuum Service Inc.

Marine Vacuum Service, Inc.

A WASHINGTON ENVIRONMENTAL COMPANY

MARINE AND INDUSTRIAL CLEANING

TANK REMOVAL

P.O. Box 24263 Seattle, Washington 98124

Telephone (206) 762-0240

FAX (206) 763-8084

1-800-540-7491

UNDERGROUND STORAGE TANK

PUMP AND RINSE CERTIFICATE

Date: August 18, 1995

Attn: Lee Morse General Contractor
1401 52nd Ave. E
Fife, Wa. 98424-1221
(206) 922-2000

Job Number: 577

Tank Owner: Port of Seattle

Tank Location: Terminal 115

Tank Capacity: 1 - 8,000 Gallon

Last contents held in tanks: Diesel

Marine Vacuum Service certifies that the tank mentioned above has been pumped of liquid materials and has been triple rinsed with fresh water and detergent solution, and the residual product and rinsate was disposed of in accordance with all Local, State, and Federal regulations.

Thank You,

Representative *Lee Blumhardt*
Marine Vacuum Service Inc.

THE CITY OF SEATTLE
FIRE DEPARTMENT

RECEIPT

No 184343

When properly made out and signed this becomes a receipt for the amount and purposes as specified herein.

Date 8/16/95 W.O. No./Applic. No. _____

Received _____ Dollars, \$ 98.00

for the purpose T 799

Payor See Morse General Conts.

Address 1401 52 Ave E

Seattle WA 98109

POS - T115

FORM 143 0000 CSS 15-14

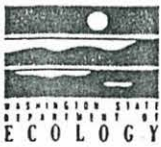
CK# 16784

CHIEF OF FIRE DEPARTMENT

By [Signature]

APPENDIX D
UST Checklists





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

For Office Use Only
 Owner # U0005542 NW
 Site # 006275

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): Unknown

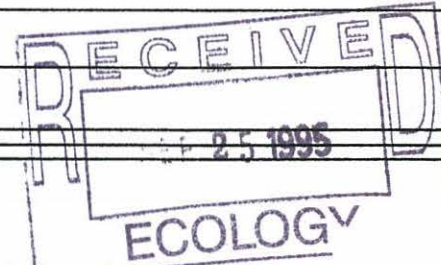
Site/Business Name: Port of Seattle

Site Address: Terminal 115 Telephone: (206) 728-3177

Seattle, Street WA 98106
 City State ZIP-Code

TANK INFORMATION

Tank ID No.	Tank Capacity	Substance Stored
<u>1</u>	<u>1/2 - 8,000 gallons</u>	<u>Diesel</u>



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.
 - 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.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. A brief summary of information obtained during the site inspection is provided. (see Section 3.2 in the Site Assessment Guidance)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. A summary of UST system data is provided. (see Section 3.1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. The soils characteristics at the UST site are described. (see Section 5.2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Is there apparent groundwater in the tank excavation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. A brief description of the surrounding land is provided. (see Section 3.1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. A sketch or sketches showing the following items is provided:		
- location and ID number for all field samples collected	<input checked="" type="checkbox"/>	<input type="checkbox"/>
- groundwater samples distinguished from soil samples (if applicable)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
- samples collected from stockpiled excavated soil	<input checked="" type="checkbox"/>	<input type="checkbox"/>
- tank and piping locations and limits of excavation pit	<input checked="" type="checkbox"/>	<input type="checkbox"/>
- adjacent structures and streets	<input checked="" type="checkbox"/>	<input type="checkbox"/>
- approximate locations of any on-site and nearby utilities	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. Any factors that may have compromised the quality of the data or validity of the results are described.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12. The results of this site check/site assessment indicate that a confirmed release of regulated substance has occurred.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

SITE ASSESSOR INFORMATION

Henry Perrin - Henry Perrin
PERSON REGISTERED WITH ECOLOGY

Columbia Environmental
FIRM AFFILIATED WITH

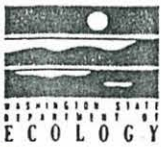
BUSINESS ADDRESS: 200 S. 333rd St, Ste 120 TELEPHONE: (206) 838-7261
Federal Way WA 98004
CITY STATE ZIP+CODE

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.

9/21/95 [Signature]
Date Signature of Person Registered with Ecology

APPENDIX D
UST Checklists





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

For Office Use Only
 Owner # U0005542 NW
 Site # 006275

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): Unknown

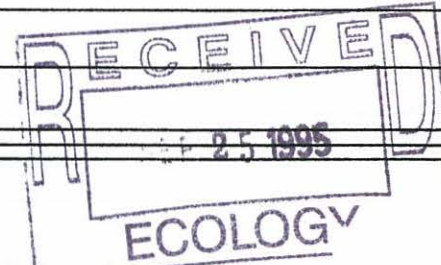
Site/Business Name: Port of Seattle

Site Address: Terminal 115 Telephone: (206) 728-3177

Seattle, Street WA 98106
 City State ZIP-Code

TANK INFORMATION

Tank ID No.	Tank Capacity	Substance Stored
<u>1</u>	<u>1/2 8,000 gallons</u>	<u>Diesel</u>



REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT

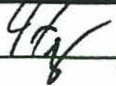
- Check one:
- Investigate suspected release due to on-site environmental contamination.
 - Investigate suspected release due to off-site environmental contamination.
 - Extend temporary closure of UST system for more than 12 months.
 - UST system undergoing change-in-service.
 - UST system permanently closed-in-place.
 - 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.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. A brief summary of information obtained during the site inspection is provided. (see Section 3.2 in the Site Assessment Guidance)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. A summary of UST system data is provided. (see Section 3.1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. The soils characteristics at the UST site are described. (see Section 5.2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Is there apparent groundwater in the tank excavation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. A brief description of the surrounding land is provided. (see Section 3.1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. A sketch or sketches showing the following items is provided:		
- location and ID number for all field samples collected	<input checked="" type="checkbox"/>	<input type="checkbox"/>
- groundwater samples distinguished from soil samples (if applicable)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
- samples collected from stockpiled excavated soil	<input checked="" type="checkbox"/>	<input type="checkbox"/>
- tank and piping locations and limits of excavation pit	<input checked="" type="checkbox"/>	<input type="checkbox"/>
- adjacent structures and streets	<input checked="" type="checkbox"/>	<input type="checkbox"/>
- approximate locations of any on-site and nearby utilities	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. Any factors that may have compromised the quality of the data or validity of the results are described.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12. The results of this site check/site assessment indicate that a confirmed release of regulated substance has occurred.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

SITE ASSESSOR INFORMATION

 - Henry Perrin
 PERSON REGISTERED WITH ECOLOGY


Columbia Environmental
 FIRM AFFILIATED WITH

BUSINESS ADDRESS: 200 S. 333rd St, Ste 120
 Federal Way WA 98004
 CITY STATE ZIP+CODE

TELEPHONE: (206) 838-7261

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.

9/21/95
 Date


 Signature of Person Registered with Ecology