Parcel 40



# MEMORANDUM

RECEIVED

MAR 1 5 2002

ENVIROMENTAL DEPT.

A Member of The IT Group

Suzanne Dudziak, Port of Tacoma

**DATE:** March 14, 2002

FROM:

TO:

Brian Peters

PROJECT: 834419 (01)

SUBJECT: Maersk Pacific Site Update

On February 5, 2002, IT Corporation (ITC) installed recovery wells ITC-RW-1 and ITC-RW-2 in areas of known light non-aqueous phase liquid (LNAPL) accumulation of groundwater based upon the results of previous investigations performed at the site. The well locations are depicted on the attached Figure 1. Well construction details and lithology encountered during drilling are presented on the attached boring logs. Per your request, the surface completion of the wells consisted of heavy duty, 12-inch diameter well vault, and a 3-foot by 3-foot square airport-grade concrete collar completed to match the surrounding surface grade.

After the initial gauging events, the wells were developed by ITC on February 22, in an attempt to optimize the flow of LNAPL into the wells from the formation. The wells were developed using a surge block, bailer, and large peristaltic pump. After surging, the bailer and peristaltic pump were used to remove groundwater from the wells. A total of 50 gallons of water was removed from ITC-RW-1 and 30 gallons from ITC-RW-2.

The recovery wells have been periodically gauged and the results are presented in the attached table. Please note that all the wells in the vicinity of the suspected LNAPL plume were gauged on February 25.

Monitoring well GCI-MW-1, located approximately 8 feet from ITC-RW-2, had approximately 1 foot of LNAPL present on February 25, which is consistent with historical measurements in this well. The well is constructed with 34-inch PVC pipe (no further details are known), which may account for the greater apparent thickness of LNAPL in the well as compared with the actual thickness in the formation due to capillary action (cohesion to the walls of the PVC).

The current thickness of LNAPL in recovery wells ITC-RW-1 and ITC-RW-2 does not warrant the installation of an active LNAPL skimming system at the site. Site groundwater is currently at a seasonal high level, and assuming that LNAPL recovery is similar to the Former Milwaukee Railyard site, the greatest thickness of recoverable LNAPL would be evident at this time. Periodic gauging will be performed in conjunction with the weekly O&M schedule at the adjacent Milwaukee Railyard site. If the LNAPL thickness in these wells continues to increase, ITC will recommend the installation of passive skimming devices into each well.

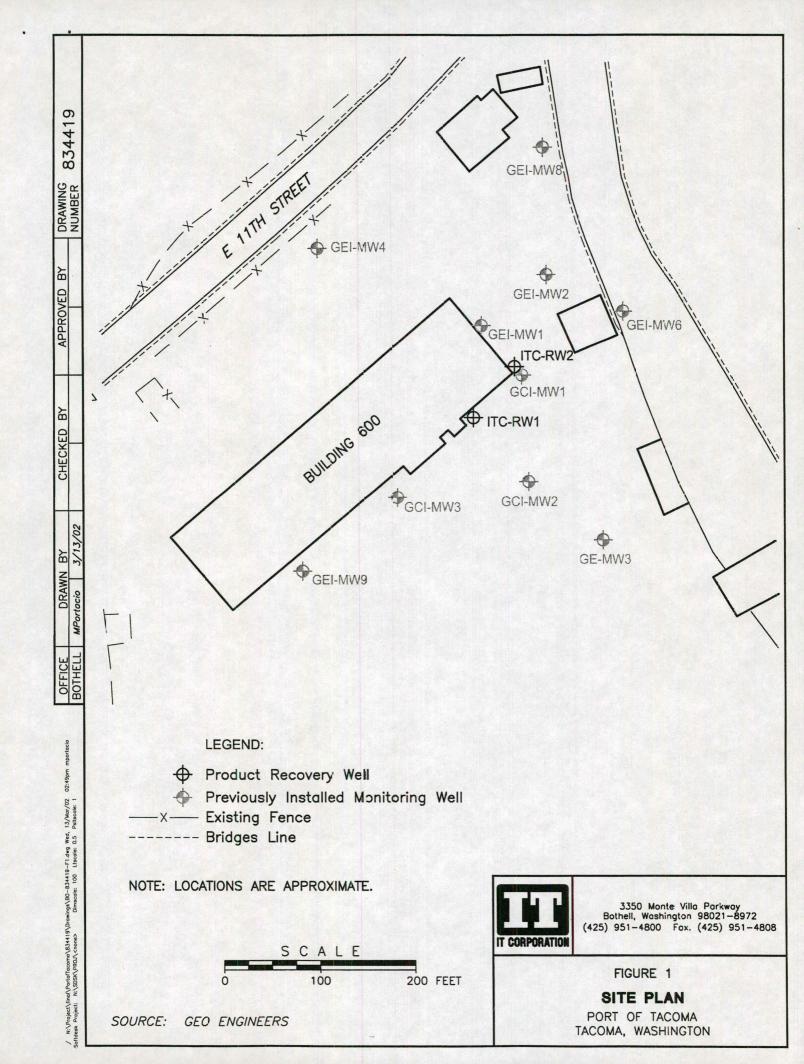
Attachments:

Well Gauging Results Figure 1 – Site Plan

Boring Logs

# Well Gauging Results Maersk Pacific Ltd. Site Port of Tacoma

Well Identification	Date Measured	Depth to Water (feet bgs)	Depth to Product (feet bgs)	Product Thickness (feet)
ITC-RW-1	2/6/02	8.03	Sheen observed	Sheen observed
	2/12/02	8.59	8.51	0.08
	2/22/02	7.96	7.93	0.03
	2/25/02	8.32	8.20	0.12
	3/6/02	8.32	8.17	0.15
ITC-RW-2	2/6/02	8.35	8.34	0.01
	2/12/02	8.81	8.80	0.01
集 计 于 法	2/22/02	8.38	8.35	0.03
	2/25/02	8.85	8.60	0.25
	3/6/02	8.86	8.59	0.27
GEI-MW-1	2/25/02	9.58	None	None
GEI-MW-2	2/25/02	8.05	None	None
GEI-MW-3	2/25/02	7.61	None	None
GEI-MW-6	2/25/02	8.89	None	None
GCI-MW-1	2/25/02	9.85	8.88	0.97
GCI-MW-2	2/25/02	7.89	None	None



PROJECT NAME LOCATION DRILLED BY **DRILL METHOD** LOGGED BY

Port of Tacoma Tacoma, Washington Cascade Drilling, Inc. Hollow-stem Auger Raul Fonda/Erin McQuillan BORING NO. PAGE REFERENCE ELEV. TOTAL DEPTH DATE COMPLETED ITC-RW-1 1 of 2

16.5" 2/5/02

SAMPLE	В
NUMBER	
(SAMPLE	611
TYPE)	

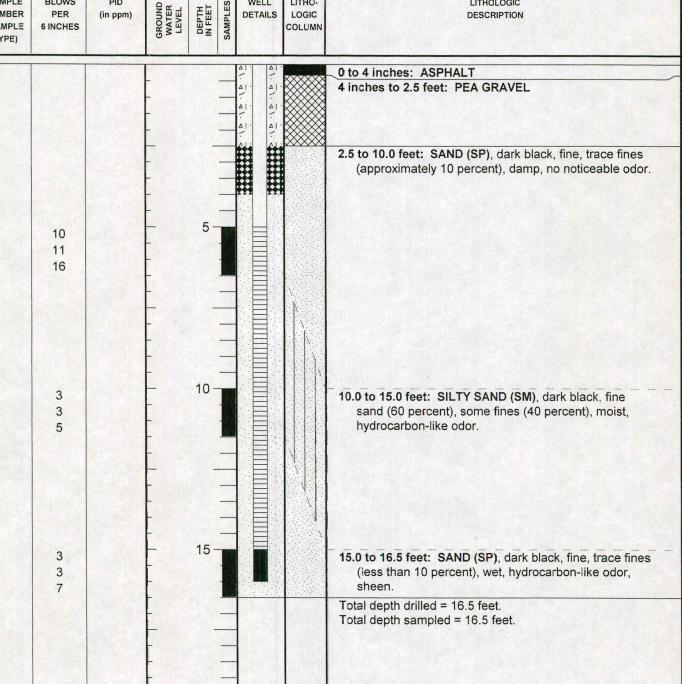
LOWS PER NCHES

PID (in ppm) GROUND WATER LEVEL

LITHO-LOGIC

WELL

LITHOLOGIC DESCRIPTION





REMARKS

20

See Page 2 for Well Completion Details.

PROJECT NAME LOCATION DRILLED BY DRILL METHOD LOGGED BY Port of Tacoma Tacoma, Washington Cascade Drilling, Inc. Hollow-stem Auger Raul Fonda/Erin McQuillan BORING NO.
PAGE
REFERENCE ELEV.
TOTAL DEPTH
DATE COMPLETED

ITC-RW-1 2 of 2

16.5' 2/5/02

SAMPLE NUMBER (SAMPLE TYPE)	BLOWS PER 6 INCHES	PID (in ppm)	GROUND WATER LEVEL	DEPTH IN FEET	SAMPLES	WELL DETAILS	LITHO- LOGIC COLUMN	LITHOLOGIC DESCRIPTION
				25 -				WELL COMPLETION DETAILS  0 to 5.0 feet: 4-inch-diameter, flush-threaded, Schedule 40 PVC blank riser pipe.  5.0 to 15.0 feet: 4-inch-diameter, wire-wrapped, stainless steel screen.  15.0 to 16.0 feet: 4-inch-diameter, stainless steel, end cap.  0 to 2.5 feet: Concrete.  2.5 to 4.0 feet: Bentonite chips hydrated with potable water.  4.0 to 16.5 feet: 2/12 Monterey sand.



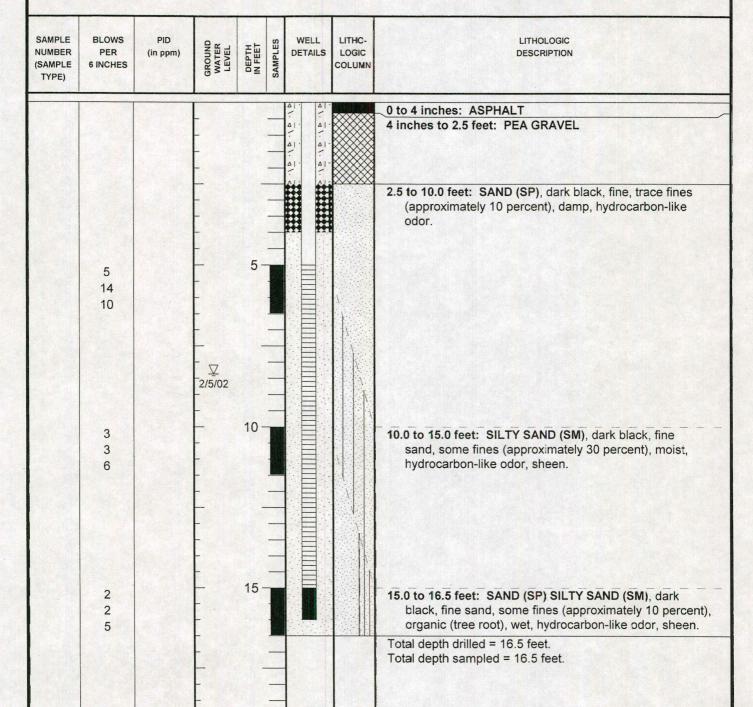
REMARKS

PROJECT NAME LOCATION DRILLED BY DRILL METHOD LOGGED BY

Port of Tacoma Tacoma, Washington Cascade Drilling, Inc. Hollow-stem Auger Raul Fonda/Erin McQuillan BORING NO.
PAGE
REFERENCE ELEV.
TOTAL DEPTH
DATE COMPLETED

ITC-RW-2 1 of 2

16.5' 2/5/02





REMARKS

Sheen noticed during water level measurement.

20

See Page 2 for Well Completion Details.

PROJECT NAME LOCATION DRILLED BY DRILL METHOD LOGGED BY

Port of Tacoma Tacoma, Washington Cascade Drilling, Inc. Hollow-stem Auger Raul Fonda/Erin McQuillan BORING NO.
PAGE
REFERENCE ELEV.
TOTAL DEPTH
DATE COMPLETED

ITC-RW-2 2 of 2

16.5' 2/5/02

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				30 -				WELL COMPLETION DETAILS  0 to 5.0 feet: 4-inch-diameter, flush-threaded, Schedule 40 PVC blank riser pipe.  5.0 to 15.0 feet: 4-inch-diameter, wire-wrapped, stainless steel screen.  15.0 to 16.0 feet: 4-inch-diameter, stainless steel, end cap.  0 to 2.5 feet: Concrete.  2.5 to 4.0 feet: Bentonite chips hydrated with potable water.  4.0 to 16.5 feet: 2/12 Monterey sand.



REMARKS

Sheen noticed during water level measurement.



# STATE OF WASHINGTON DEPARTMENT OF ECOLOGY

P.O. Box 47600 • Olympia, Washington 98504-7600 (360) 407-6000 • TDD Only (Hearing Impaired) (360) 407-6006

November 5, 2002

Suzanne Dudziak Port of Tacoma PO Box 1837 Tacoma WA 98401

> Subject: Site Hazard Assessment – Maersk Pacific Ltd Ecology Facility Site ID: 66987611

Dear Ms. Dudziak:

The Department of Ecology (Ecology) will conduct a site hazard assessment (SHA) of Maersk Pacific Ltd, 1675 Lincoln Avenue, Tacoma, WA 98421-2902, under the Model Toxics Control Act (MTCA), Chapter 173-340-320 WAC. This site has been on Ecology's Confirmed and Suspected Contaminated Sites List since April 18, 2000. This assessment will be performed by Sharon Bell, Tacoma-Pierce County Health Department. She will contact you in the near future to arrange a suitable time for a site visit, if that is deemed to be necessary.

The purpose of an SHA is to gather information on past/present waste management activities, along with other basic site-specific environmental data, in order to score the site following the Washington Ranking Method (WARM) Scoring Manual guidelines. Potential/actual threats to human health and the environment are evaluated for each applicable migration route, with a resultant "hazard ranking" for the site determined.

Sites are ranked on a scale of one to five, with one representing the highest level of concern, and five the lowest, relative to all other assessed/ranked sites in the state. The level of relative concern may be such that a recommendation of "No Further Action" (NFA) is made, and your site will then be removed from Ecology's Integrated Site Information System (ISIS) list.

For your information, Ecology will publish a notice in an upcoming issue of the <u>Site Register</u> that an SHA is scheduled for this site. This notice may evoke media inquiries. Likewise, the outcome of the SHA, either as a ranked site or a determination as NFA, will be published in the Site Register.

In addition to any required fieldwork, the following information will be considered in scoring this site:

ecc 3018

- Ecology Southwest Regional Office Site Files
- Tacoma-Pierce County Health Department Site Files

Port of Tacoma November 5, 2002 Page 2

You are requested to submit any additional environmental information regarding this site to:

Ms. Sharon Bell
Tacoma-Pierce County Health Department
Source Protection Programs
M/S 169
3629 South "D" Street
Tacoma, WA 98418-6813

Additional data could include any environmental assessments or laboratory analyses which have been conducted regarding this site and which have not previously been submitted to Ecology. Every attempt will be made to obtain the most recent and accurate data for scoring your site. If you have better information or comments on the adequacy of the data we already have, please let us know as soon as possible. The final site rank and eventual site priority will be based primarily on the information used in the scoring. Your active participation in the assessment and scoring process is important to insure that only the best data available is used.

Fact sheets describing Site Hazard Assessments, the Washington Ranking Method and the Hazardous Sites List are enclosed for your information. If you have any questions please call me at (360) 407-7195 or Sharon Bell at (253) 798-2891.

Sincerely,

Michael J. Spencer

Site Hazard Assessments Toxics Cleanup Program

MJS:ms Enclosures

cc: Sharon Bell, Tacoma-Pierce County Health Department

Dan Alexanian, Ecology Toxics Cleanup Program (TCP), SWRO





April 5, 2001

Mr. Dave Smith
Washington Department of Ecology
Southwest Regional Office
Toxics Cleanup Program
P.O. Box 47775
Olympia, WA 98504-7775

A 70304-1113

Maersk Pacific Limited Site

1675 Lincoln Avenue, Tacoma, Washington

Dear Mr. Smith:

Re:

As a follow-up to my previous correspondence with you on the Maersk Pacific Limited site, I'm forwarding a report entitled "Subsurface Exploration, Maersk Pacific Limited Site, 1675 Lincoln Avenue, Tacoma, Washington". The enclosed report shows that the nature and extent of hydrocarbons at this site have been defined. We are currently in the process of evaluating remedial options and will notify you of our conclusions when they are available.

If you have any questions associated with this notice and site assessment report, please call me at (253) 383-9453.

Sincerely,

Suzanne Dudziak

Environmental Program Manager

Enclosure

cc:

Dick Gilmur

File





Mr. Dave Smith
Washington Department of Ecology
Southwest Regional Office
Toxics Cleanup Program
P.O. Box 47775
Olympia, WA 98504-7775

April 10, 2000

Re: Discovery of a Hydrocarbon Release

Maersk Pacific Limited Site

1675 Lincoln Avenue, Tacoma, Washington

Dear Mr. Smith:

In accordance with WAC 173-340-300(2) the Port of Tacoma (Port) is reporting the discovery of a hydrocarbon release at the Maersk Pacific Limited Site, located at 1675 Lincoln Avenue, Tacoma, Washington. On January 20, 2000, the Port discovered soil and groundwater containing diesel and oil at the above-referenced property. A preliminary subsurface investigation was performed to try to delineate the extent of contamination. The attached report documents the investigation. The Port intends to further characterize the release and to identify appropriate cleanup measures associated with the release.

If you have any questions associated with this notice and site assessment report, please call me at (253) 383-9453.

Sincerely,

Suzanne Dudziak

Environmental Program Manager

Enclosure

cc:

Port Attorney

File



STL Seattle 5755 8<sup>th</sup> Street East Tacoma, WA 98424

Tel: 253 922 2310 Fax: 253 922 5047 www.stj-inc.com

#### **FAX TRANSMITTAL**

Contact, Company, and Address:

Suzanne Dudziak Port of Tacoma P.O. Box 1837 Tacoma, WA 98401

Phone Number: (253) 383-5841 x453

Pages sent by fax:

From

Message:

STL Work Order :109634

Project :Former Milwaukee Railyard (POT)

Date Received: 10/30/2002 Project Manager: Anne Fowler Date: November 12, 2002

Fax Number: (253) 428-8679

Hard copy to follow: Yes





Mr. Gerry Olson Maersk Pacific Limited 1002 Milwaukee Way Tacoma, WA 98401 November 21, 2000

Re: Environmental Investigation Report; Maersk Pacific Limited Site

Dear Gerry,

Enclosed please find a copy of an environmental site assessment performed on the Maersk Pacific lease area. Based on the results of this study, further work will be required to determine the extent of hydrocarbon contamination and to identify what cleanup action may be necessary. We hope to perform additional work in the near future to resolve these issues. I'll be contacting you shortly with a proposed schedule for additional sampling in the vicinity of your maintenance building.

In the meantime, if you have any questions on the contents of this report, please feel free to call me at (253) 383-9453.

Sincerely,

Suzanne Dudziak

Environmental Program Manager

enclosure



## STATE OF WASHINGTON

APR 1 9 2000 ENVIRONMENTAL DEPT

# DEPARTMENT OF ECOLOGY

P.O. Box 47600 • Olympia, Washington 98504-7600 (360) 407-6000 • TDD Only (Hearing Impaired) (360) 407-6006

April 18, 2000

Ms. Suzanne Dudziak Port of Tacoma PO Box 1837 Tacoma WA 98401-1837

Dear Ms. Dudziak:

Re: Port of Tacoma, Maersk Pacific Site, 1675 Lincoln Ave., Tacoma WA 98401

I am writing to you regarding the above-referenced property. Under the Model Toxics Control Act (Chapter 70.105D RCW), the Department of Ecology's (Ecology) Toxics Cleanup Program maintains a Facility Site/Site Information System (FS/SIS) database of known or suspected contaminated sites. This property has been added to the FS/SIS database.

Please note that inclusion in the database does not mean that Ecology has determined you are a potentially liable party under the Model Toxics Control Act, or that action is needed at this time. Ecology may conduct a more detailed inspection of this property, including testing for possible contamination, in the future. After that, we will be able to assess whether action will be needed and establish a priority for this work.

It is Ecology's policy to work cooperatively with persons to accomplish prompt and effective cleanups. However, due to limited resources and requirements in state law, we are not always able to provide requested assistance. Furthermore, your cooperation with Ecology in planning or conducting a remedial action is not admission of quilt or liability. If you decide to proceed with work on your own, please be aware that there are requirements in the state law which must be adhered to.

Enclosed is a copy of Chapter 70.105D RCW and the implementing regulations, Chapter 173-340 WAC, which detail these requirements. If you have any questions, please call Dave Smith at (360) 407-6250. Thank you for your cooperation.

ec 2018

Sincerely,

Tara Davis SIS Coordinator

Toxics Cleanup Program Southwest Regional Office

DS/td Enclosure

cc: Dave Smith, Ecology

Bob Goodstein Jeff Lincoln Dick Gilmur



# STATE OF WASHINGTON

APR 1 3 2000 ENVIRONMENTAL DEP

# DEPARTMENT OF ECOLOGY

P.O. Box 47600 • Olympia, Washington 98504-7600 (360) 407-6000 • TDD Only (Hearing Impaired) (360) 407-6006

April 18, 2000

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Sincerely,

Tara Davis SIS Coordinator

Toxics Cleanup Program Southwest Regional Office

DS/td Enclosure

cc: Dave Smith, Ecology





Mr. Dave Smith
Washington Department of Ecology
Southwest Regional Office
Toxics Cleanup Program
P.O. Box 47775
Olympia, WA 98504-7775

April 10, 2000

Re:

Discovery of a Hydrocarbon Release

Maersk Pacific Limited Site

1675 Lincoln Avenue, Tacoma, Washington

Dear Mr. Smith:

In accordance with WAC 173-340-300(2) the Port of Tacoma (Port) is reporting the discovery of a hydrocarbon release at the Maersk Pacific Limited Site, located at 1675 Lincoln Avenue, Tacoma, Washington. On January 20, 2000, the Port discovered soil and groundwater containing diesel and oil at the above-referenced property. A preliminary subsurface investigation was performed to try to delineate the extent of contamination. The attached report documents the investigation. The Port intends to further characterize the release and to identify appropriate cleanup measures associated with the release.

If you have any questions associated with this notice and site assessment report, please call me at (253) 383-9453.

Sincerely,

Suzanne Dudziak

Environmental Program Manager

Enclosure

cc:

Port Attorney

File

Maersk-Pacific comosp

#### PORT OF TACOMA

# **Environmental Department**

#### **Facsimile Cover Sheet**

To:

Guy Buzzoni, SeaLand

From:

Suzanne Dudziak

Phone:

(253) 383-9453

Fax:

(253) 428-8679

Date:

6/8/99

Number of pages (including cover): 3

# **COMMENTS:**

As a follow-up to the message left on your voicemail, attached are the Port's comments on the UST Characterization Report.

Sea-Land Container Terminal

1675 Lincoln Avenue Tacoma, Washington

## 4.0 Analytical Results

Washington Administrative Code (WAC) 173-340-745 Method A sets an action level (maximum allowable limit) of 200 ppm (mg/kg) diesel and certain waste oil and 100 ppm (mg/kg) gasoline for soil. The results of the sample analysis revealed diesel range hydrocarbons above the state Model Toxics Control Act (MTCA) allowable limit of 200 parts per million (ppm) in the soils below of the excavation that contained the UST. The soil was also tested for gasoline range organics. The results show 2.3 ppm well below the action level of 100 ppm.

Table 1 - Analytical Results
Soil Analysis
Method TPH-D (Diesel/Oil)

Sample ID	Sample Location	Diesel	Oil	Gasoline Range
	Soil Sample Excavation Bottom	6,600 ppm	370 ppm	<u> </u>
S3-122098	Sludge From Inside UST	260,000 ppm	720,000 ppm	

Analytical results for samples taken during UST assessment Sea-Land Facility

For all other analytical results please refer to Appendix D.

COMMON	CONSTITUENT SIUDGE AND	SOIL
	7600	810
M, P XY/ENE	27,000	290
N- PRODY BENTENE	4500	1900
1,2,4 MINETHY BENZENE	32,000	3100
SEC- BUTHL BENTENE	2300	2800
4 ISOPROPYITOLUEN	JE 3500	1900
NAPTHALENE	30,000	4000 Sea-Lan

Sea-Land UST Removal Report-093-1.wpd

1675 Lincoln Avenue Tacoma, Washington

#### 6.0 Conclusions

Analytical and visual evidence indicates that the site is contaminated with diesel product, including a free product at the groundwater surface. There is not contamination at the higher levels of the excavation for the waste oil tank immediately below the ground surface.

Sample results for method 8082 PCB's did not indicate any raised levels in the soil sample.

Based on the results of the laboratory soils analysis and on-site observations, it is CETI's opinion the subsurface soils in the UST excavation are contaminated by diesel and oil range petroleum range hydrocarbons. The amount of oil reported in the analytical results is minimal, however the diesel both observed in the UST excavation and reported through the analytical results indicate the need for further delineation of the site since Sea-Land's occupancy of the premises.

The evidence of a 1.25 million gallon diesel fuel tank, along with the previous evidence of fuel releases in the subsurface of the site prior to the installation of the 3,000 gallon waste oil tank, indicates that the release encountered in the excavation of the waste oil tank was from previous activities, not from the 3,000-gallon waste oil UST removed. There is no evidence that the waste oil tank was the source of any releases on the site.

At this time, CETI recommends closure of the waste oil UST matter. Any further investigation should be centered around previous activities and facilities on the site to and including the 1.25 million gallon diesel fuel tank and its related piping and facilities.

CETI further recommends TPCHD close this case with Sea-Land, the current tenant, and that a copy of this report be presented to the Port of Tacoma as owner of the property, and the Washington Department of Ecology so that the Port of Tacoma may further investigate the site in accordance with the applicable regulations for releases.

Andrioginate properties.

THE CHIANDAN PRE WERDING OUT.

This is an incorred statemen

CETI

PAGE 02 3/3

# CREATIVE ENVIRONMENTAL TECHNOLOGIES, INC.

PROVIDING ENVIRONMENTAL SERVICES TO THE NORTHWEST FOR 15 YEARS

May 13, 1999

Sea-Land Service, Inc. 6000 Carnegie Boulevard Charlotte, NC 28209-4637

Re: Sample Results For UST Report

Dear Mr. Buzzoni:

Regarding you faxed letter of May 13, 1999. Sample two (S-2) was a duplicate of sample one (S-1) and not analyzed or recorded on the chain of custody. The sample was held at our office for 30 day then destroyed. Sample four (S-4) was collected at the request of our client at the time, NW Tank and Environmental Services, of a stockpile of soil near the fuling island where USTs were retrofitted by NW Tank and Environmental Services. This sample is not related to the UST decommissioning event and was not included in the UST report.

If there are any other questions regarding the report or any other matter, please feel free to call at your convenience.

cc: John Spencer, CETI
Remy Cano, NW Tank & Environmental Services

P.O. Box 1803 ● Taconna, Washington 98401-1803 ● 1203 E. D Street Suite 109
P: 253. 627.3347 ● F: 253.572.4207 ● E: ceti@cetinw.com ● www.cetinw.com





Mr. Dave Smith
Washington Department of Ecology
Southwest Regional Office
Toxics Cleanup Program
P.O. Box 47775
Olympia, WA 98504-7775

April 10, 2000

Re: Discovery of a Hydrocarbon Release

Maersk Pacific Limited Site

1675 Lincoln Avenue, Tacoma, Washington

Dear Mr. Smith:

In accordance with WAC 173-340-300(2) the Port of Tacoma (Port) is reporting the discovery of a hydrocarbon release at the Maersk Pacific Limited Site, located at 1675 Lincoln Avenue, Tacoma, Washington. On January 20, 2000, the Port discovered soil and groundwater containing diesel and oil at the above-referenced property. A preliminary subsurface investigation was performed to try to delineate the extent of contamination. The attached report documents the investigation. The Port intends to further characterize the release and to identify appropriate cleanup measures associated with the release.

If you have any questions associated with this notice and site assessment report, please call me at (253) 383-9453.

Sincerely,

Suzanne Dudziak

Environmental Program Manager

Enclosure

cc:

Port Attorney

File

Maersk-Pac. Comesp



May 3, 1999

via HAND DELIVERY

Dick Gilmore
Port of Tacoma
P.O. Box 1837
Tacoma, Washington 98401

RE: DRAFT UST SITE ASSESSMENT / SITE CHARACTERIZATOIN

3,000 Gallon Waste Oil UST

Sea-Land, 1675 Lincoln Avenue, Tacoma, Washington

Dear Mr. Gilmore:

This follows our January 25<sup>th</sup> 1999 meeting regarding the above referenced underground storage tank (UST) removal. Enclosed for your review and input is a DRAFT UST Site Assessment / Site Characterization report prepared by Creative Environmental Technologies, Inc. (CETI), latest revision dated April 30, 1999.

The report concludes that Sea-Land's waste oil UST appeared in "excellent" condition during its removal and that the contamination release encountered occurred prior to Sea-Land's occupation of the premises. Laboratory testing identified diesel fuel contamination in the ground that was a different product with a different chemical makeup than the waste oil stored in the UST by Sea-Land. The presence of diesel fuel contamination was consistent with use of the site prior to Sea-Land's occupancy.

It is our understanding that Port of Tacoma will review the DRAFT report and provide us input based on their prior experiences with the jurisdictional limits of the Tacoma Pierce County Health Department (TPCHD) on such matters. After this input is received, Sea-Land will finalize the report with CETI and submit it to TPCHD. As discussed, we understand Port of Tacoma, at its cost, will then undertake the necessary release investigation and remedial efforts that will not interfere with Sea-Land's on-going use of the terminal.

We thank you for your continued attention to this matter.

Very truly yours,

Guy Buzzoni

Sea-Land Service, Inc.

Enc.

Cc: John Spencer

Curtis Foltz Gerry Olson

Terry Murphy Larry Nielsen CETI

TAC

TAC



Sea-Land Service, Inc.

6000 Carnegie Boulevard Charlotte, NC 28209

Phone: 704.571.2000

Maersk-Pacific
Conesp.

RECEIVED

JUL 26 1999

ENVIRONMENTAL DEPT

July 20, 1999

via REGULAR MAIL

Dick Gilmur
Port of Tacoma
P.O. Box 1837
Tacoma, Washington 98401

RE: DRAFT UST SITE ASSESSMENT / SITE CHARACTERIZATION 3,000 Gallon Waste Oil UST

Sea-Land, 1675 Lincoln Avenue, Tacoma, Washington

Dear Mr. Gilmur:

This responds to the Port's June 8<sup>th</sup> 1999 memo from Suzanne Dudziak that transmits comments regarding the DRAFT UST Site Assessment / Site Characterization, latest revision dated April 30, 1999, prepared by Creative Environmental Technologies, Inc. (CETI) for the above referenced underground storage tank (UST) removal.

#### Attached are:

- 1. Our June 8<sup>th</sup> memo to CETI requesting their opinion regarding the specific comments given in the Port's June 8<sup>th</sup> memo.
- 2. CETI's reply to our related June 8th memo, dated June 22, 1999

We respectfully disagree with your position that both the Port of Tacoma and Sea-Land have shared liability for release investigation and remediation of the existing soil and groundwater contamination.

It is CETI's opinion that Sea-Land's waste oil UST appeared in "excellent" condition during its removal and that the contamination release encountered had occurred <u>prior</u> to Sea-Land's occupation of the premises. Laboratory testing identified diesel fuel contamination in the ground that was a different product with a different chemical make-up than the waste oil stored in the UST by Sea-Land. The presence of diesel fuel contamination was consistent with use of the site prior to Sea-Land's occupancy.

Dick Gilmur July 20, 1999 Page 2 of 2

Based on CETI's opinion, we maintain that Port of Tacoma is liable for release investigation and remediation under the terms of the Lease, as amended.

We intend to finalize the CETI's DRAFT April 30<sup>th</sup> report without any further revision and submit it to TPCHD. We expect Port of Tacoma will fulfill its lease obligations, at its cost, by undertaking the necessary release investigation and remedial efforts that will not interfere with Sea-Land's on-going use of the terminal.

We thank you for your continued attention to this matter.

Very truly yours,

Sea-Land Service, Inc.

Guy Buzzoni

Att. Cc:

Suzanne Dudziak Port of Tacoma

John Spencer CETI
Curtis Foltz TAC
Gerry Olson TAC
Terry Murphy TAC
Larry Nielsen TAC

# Sea Land

Sea-Land Service, Inc. 6000 Carnegie Boulevard, Charlotte, NC 28209-4637

# FAX

Date: June 8, 1999

No. of pages:
(including cover sheet)

To: JOHN / STEVE

SPENCER

Location: CETI

Fax: 253.572.4207 Phone: 253.627.3347 From: GUY BUZZONI

Terminal Operations
Services

Fax: 704.571.4677

Phone: 704.571.2121

Name:	Location:	Fax:	
cc:			

RE: DRAFT UST SITE ASSESSMENT / SITE CHARACTERIZATOIN 3,000 Gallon Waste Oil UST

Sea-Land, 1675 Lincoln Avenue, Tacoma, Washington

John / Steve:

Port of Tacoma has reviewed your April 30<sup>th</sup> DRAFT UST Site Assessment / Site Characterization report. Their comments are given in the attached June 8<sup>th</sup> memo.

Before finalizing the DRAFT report for submission to Tacoma Pierce County Health Department based on Port of Tacoma's comments, please address the validity of the Port of Tacoma's comments and fax back a reply to me:

- 1. <u>Section 4.0 Analytical Results:</u> The diesel and oil contaminants that are present in the soil and are also present in the sludge, but in significantly different concentrations. What is the significance of the common constituents between the sludge and the soil?
- 2. <u>Section 6.0 Conclusions:</u> "Method 8260 volatile organic compounds did not indicate any raised levels in the soil sample." Is this an incorrect statement?

- 3. <u>Section 6.0 Conclusions:</u> Are the subsurface soils in the UST excavation contaminated by diesel and oil range petroleum hydrocarbons and chlorinated volatile organics?
- 4. <u>Section 6.0 Conclusions:</u> "There is no evidence that the waste oil tank was the source of any releases on the site since Sea-Land's occupancy of the premises." Is this an incorrect statement?

Upon removal, the UST and associated piping was reported to be in excellent condition.

Also attached is additional information that may be used to argue this statement. Our most recent tightness test of the waste oil UST and associated piping was conducted August 1992. The tightness test passed at that time.

5. <u>Section 6.0 – Conclusions:</u> Are the chlorinated volatile organics most likely from the waste oil tank?

Thanks.

#### PORT OF TACOMA

# **Environmental Department**

# Facsimile Cover Sheet

To:

Guy Buzzoni, SeaLand

From:

Suzanne Dudziak

Phone:

(253) 383-9453

Fax:

(253) 428-8679

Date:

6/8/99

Number of pages (including cover): 3

#### **COMMENTS:**

As a follow-up to the message left on your voicemail, attached are the Port's comments on the UST Characterization Report.

UST SITE ASSESSMENT / SITE CHARACTERIZATION REPORT Sca-Land Container Terminal

1675 Lincoln Avenue Tacoma, Washington

#### 4.0 Analytical Results

Washington Administrative Code (WAC) 173-340-745 Method A sets an action level (maximum allowable limit) of 200 ppm (mg/kg) diesel and certain waste oil and 100 ppm (mg/kg) gasoline for soil. The results of the sample analysis revealed diesel range hydrocarbons above the state Model Toxics Control Act (MTCA) allowable limit of 200 parts per million (ppm) in the soils below of the excavation that contained the UST. The soil was also tested for gasoline range organics. The results show 2.3 ppm well below the action level of 100 ppm.

### Table 1 - Analytical Results Soil Analysis Method TPH-D (Diesel/Oil)

Sample ID	Sample Location	Diesel	Oil	Gasoline Range
S1-12798	Soil Sample Excavation Bottom	6,600 ррш	370 ppm	——————————————————————————————————————
S3-122098	Sludge From Inside UST	260,000 ррш	720.000 ppm	

Analytical results for samples taken during UST assessment Sea-Land Facility

For all other analytical results please refer to Appendix D.

COMMON CONSTITUTE GETTUE PON 5016 810 7600 ETHYLBENZEWE 290 27,000 M, P XYIEWE 4500 1900 N- PRODUCE WITHE 3100 1,2,4 MINETHY/ BENZENE 32,000 SEC. BUTUL BENTERNE 2300 2500 1900 4 ISOPROPULTOINENE 3500 4000 30,000 NAPTHALENE

Sea-Land UST Removal Report-093-1.wpd

1203 E. D Street, Suite 109 ♥ P.O. Box 1803 ♥ Tacoma, Washington 98401-1803 P; 253, 627,3347 ♥ F: 253,572,4207 ♥ E: ceti@cetinw.com ♥ W: www.cetinw.com

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UST SITE ASSESSMENT / SITE CHARACTERIZATION REPORT
Sea-Land Container Terminal
1675 Lincoln Avenue
Tacoma, Washington

6.0 Conclusions

Analytical and visual evidence indicates that the site is contaminated with diesel product, including a free product at the groundwater surface. There is not contamination at the higher levels of the excavation for the waste oil tank immediately below the ground surface.

Sample results for Apple Total RCRA 8 metals, method 8260 volatile organic compounds and method 8082 PCB's did not indicate any raised levels in the soil sample.

Based on the results of the laboratory soils analysis and on-site observations, it is CETI's opinion the subsurface soils in the UST excavation are contaminated by diesel and oil range petroleum range hydrocarbons. The amount of oil reported in the analytical results is minimal, however the diesel both observed in the UST excavation and reported through the analytical results indicate the need for further delineation of the site since Sea-Land's occupancy of the premises.

The evidence of a 1.25 million gailon diesel fuel tank, along with the previous evidence of fuel releases in the subsurface of the site prior to the installation of the 3,000 gallon waste oil tank, indicates that the release encountered in the excavation of the waste oil tank was from previous activities, not from the 3,000-gallon waste oil UST removed. There is no evidence that the waste oil tank was the source of any releases on the site.

At this time, CETI recommends closure of the waste oil UST matter. Any further investigation should be centered around previous activities and facilities on the site to and including the 1.25 million gallon diesel fuel tank and its related piping and facilities.

CETA further recommends TPCHII close this case with Sea-Land, the current tenant, and that a copy of this report be presented to the Port of Tacoma as owner of the property, and the Washington Department of Ecology so that the Port of Tacoma may further investigate the site in accordance with the applicable regulations for releases.

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Sea-Land UST Removal Report-093-1.wpd



# UNDERGROUND STORAGE TANK

# **Tightness Testing Checklist**

1. UST SYSTEM OWNER AND LOCATION

The purpose of this form is to certify the proper tightness testing of underground storage tank (UST) systems including connected underground piping. Tightness testing shall be conducted in accordance with Chapter 173-360 WAC.

This Tightness Testing Checklist shall be completed and signed by a Licensed Tightness Testing Supervisor. The supervisor shall be on site when all tank tightness testing 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.

A separate checklist must be completed for each UST system (tank and associated piping) tightness tested, except that separate UST systems tightness tested at one site may be reported together by photocopying page 2 and 3 of this form and completing these pages separately for each UST system. The completed checklist should be mailed to the following address within 30 days of completion of tightness testing:

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

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

The tank owner or operator must report a failed tightness test as a suspected release to UST staff at the appropriate Ecology regional office within 24 hours.

UST Owner/Operator:	Sea-Land Service,	Inc.	
Owners Address:	3600 Port of Tacom	a Road, Suite 405	
	Street Tacoma,	WA	98424 Box
	City	State	Zlp+4 (required)
Telephone:	206-593-1457	子士教 在一种 医一种	
Site ID Number (on invoice	or available from Ecology if tank	is registered):100639	
Site/Business Name:	Sea Land Services		
Site Address:	1675 Lincoln Avenu	e	
	Street Tacoma,	WA	98424
	City	State	Zip+4 (required)
2. TIGHTNESS TEST	ING PERFORMED BY:		
Firm:	ATEC Associates, I	nc.	
Service Provider License No	umber: 5000283	<b>以我是</b> 了是"这是这种"	
Address:	13333 Bel-Red Road		
	Street Bellevue,	WA	P.O. Box 98005~2332
Tolonbaue	City	State	ZIp+4 (required)
Telephone:	(206) 643-8078		· 克里斯斯 海南北部 (1975年)
Licensed Supervisor:	Gary Peters		
Supervisor License Number	r:W001743		
P. 01/03	275417840719 07 9821 2	5C 907 30HVUD 47LIL	N 08 , 99 10:31 FR SEALF

	Yes	No	NA*
<ol><li>Have all written testing procedures developed by the manufacturer of the testing equipment and method been followed while the test was being set up and conducted?</li></ol>	p.		
3. Was the product level in the tank during the test within the limitations stated in the evaluation results used to demonstrate that the tightness test method meets performance standards?	X EP		
4. Was the walting period between the addition of product to the tank and the beginning of the test at or above the minimum waiting period stated in the evaluation results?	X		
<ol> <li>If groundwater was present above the bottom of the tank, have the testing procedures accounted for its presence? (for single wall tanks)</li> </ol>	X GO		
6. Have any loose fittings at the top of the tank been either tightened prior to beginning the test or accounted for when conducting the test and evaluating test results? (Applies to overfill methods only) Exception: Interstitial space fitting on double wall tank should remain loose during test for interstitial space to vent to atmosphere.			×
7. Have all vapor pockets either been removed prior to beginning the test or otherwise accounted for when conducting the test and evaluating test results?	X SP		
8. Based on evaluating test results and conducting any relesting as necessary to obtain conclusive test results, the tightness test is:  Passed  Failed	9		
Note: Inconclusive test results will not be considered as a valid tightness test for purposes of complying with UST release detection regulations.			
9. If the tightness test is considered a failed test, has the owner/operator been notified of the test results? Note: The tank owner or operator must report a failed tightness test as a suspected release to UST staff at the appropriate Ecology regional office within 24 hours of being notified by the testing firm that a failed tightness test has occurred.	1		× 50
10. If a failed test has occurred, results indicate that there is a leak in the:  Tank Piping System  If known, the leak rate is:  gallons per hour.			
*Item not applicable			
I hereby certify that I have been the licensed supervisor present during the above listed tightness t activities and to the best of my knowledge they have been conducted in compliance with all applic and federal laws, regulations and procedures pertaining to underground storage tanks.	esting able st	ate	
Persons submitting false information are subject to penalties under Chapter 173-360 WAC.  9-2-92  Date  Signature of Licensed Supervisor			
5. ADDITIONAL REQUIRED SIGNATURES			
9-2-92 Hay Alter			
Date  Signature of Licented Service Provider firm (owner or person with algnature authority)  9/10/92  Date  Signature of Tank Owner or Authorized Representative	Society	c	,
ECY 010-159 (12/91)		A CONTRACTOR	

Sections 3, 4 and 5 must be completed separately for each tank and associated piping tested at the site. For additional tanks you may photocopy this form prior to completing.

The following items shall be initiated by the licensed supervisor with the following items shall be initiated by the licensed supervisor with the temperature of the use of the conditions under which the temperature of the use of the conditions under which the temperature of the use of	t was conducted? (e.g., detecting a east 95% and a probability of false
The following items shall be inflated by the licensed supervisor w	Yes No NA*
the total control of the same about the same state of the same of	
The following items shall be in items about the	
4. CHECKLIST	
<ol> <li>Indicate the method used to determine if groundwater was present above the bottom of the tank during the test (for single</li> </ol>	wall tanks): Two level test conducted
underful volumetric testing methods are used, the tank level or 2) the portion of the tank above the product lev method which meets performance standards, for tightn	must be: 1) filled with product to the 95% full el must be tested using a nonvolumetric
Note: A tank must be tested up to the product level limi overfill prevention device is not installed, a tank must b	ted by the overfill prevention device, If an
12. If a tank tightness test was conducted, Indicate the percentage of tank volume that was filled with product during the test:	100%
Test method manufacturer	
Test method name/version Leak computer	
11. Tightness testing method(s) used (indicate if more than one m	ethod was used - see note following item 12):
X Total system test (tank and lines tested together)	
Tank and lines tested separately	Nonvolumetric
Line tightness test only	Underfill volumetric
Tank tightness test only	X Overfill
	. Test method type:
Other (describe)	
Tank or piping repair	
To bring temporarily closed tank back into service	
X To comply with leak detection requirements in UST	rules
8. Reason for conducting tightness test:	
7. Tank ls: X single wall double wall	
5. Last substance stored: Waste oil	6. Is tank compartmentalized? No
Waste oil	
e. Tank superity in galleria	
Tank ID Number (as registered with Ecology): Waste oil     Tank capacity in gallons: 3000 Gallons	2. Date installed: Est. 1986

# CREATIVE ENVIRONMENTAL TECHNOLOGIES, INC.

PROVIDING ENVIRONMENTAL SERVICES TO THE NORTHWEST FOR OVER 15 YEARS

John R. Spencer President/CEO Direct; 253-383-2770

June 22, 1999

SeaLand Services
Terminal Operations Services
Attn: Mr. Guy Buzzoni
6000 Carnegie Blvd.
Charlotte, N.C. 28209

Re: Tacoma Site

Dear Guy:

You sent me a fax on June  $8^{\text{th}}$  asking five questions concerning the tank removal assessment. We will attempt to answer the questions in order of your request.

Re: Section 4.0 Analytical Results: You asked the significance of the common constituents between the sludge in the tank after removal and the soil. There are some common constituents as seen on the attached compilation of the analytical results. However, not all the constituents in the soil are found in the sludge and vis-a-versa. There is quite a bit of diesel and comparative little oil in the soil, while the ratio of diesel to oil in the tank is quite the opposite. Seventy two percent of the sludge in the tank was oil with 26% being diesel. The oil was almost 300% more than the diesel. While the soil contained a ratio of oil to diesel which was quite the opposite, with very little oil.

The significance of the volatile constituents found in the soil do not mean that the tank leaked, but that there were volatile solvents in the soil from some source. The site has not been characterized in any form except one soil sample from the excavation. It is common knowledge the soil in the Milwaukee Railroad yard was contaminated. Until the site is fully characterized, is quite impossible to determine the source of the volatile contaminates.

Mr. Guy Buzzoni June 22, 1999 Page two

The tank appeared to be tight, with no evidence of leaking. The piping was tight and there were no visual signs of leaking. The contamination was not visible or any indication of contaminate until the excavation exceeded four feet below ground surface (bgs). The top of the tank was three feet bgs and the piping ran down the top of the tank in the middle of the tank.

If the tank had been overfilled, or the piping had leaked, there surely would have been some indication of contaminates or product between the surface of the land and the top of the tank or if the pipe leaked there would be some indication between the top of the tank and the piping. But, there was no evidence of any spill or release until the excavation reached a level four feet below the surface of the land.

I would suspect that there was some past spill or release of some solvent in that area before the tank was placed in service.

It should also be noted that the constituents in the tank were not identical. There were some solvents in the tank such as 1,1,1 tricholoroethane (470,000 ug/kg) and none in the soil. Likewise, there were constituents in the soil that were not found in the tank. The footprint is not a match.

- Section 6.0- Conclusions: We stated that there were no raised levels of Method 8260 volatile organic compounds in the soil sample. We define "raised" as meaning levels above cleanup levels. Therefore, there are no raised levels of volatile organic compounds.
- 3. Section 6.0 Conclusions: The soils in the excavation as far as the one sample is indicative, contain both diesel and oil range petroleum hydrocarbons as well as chlorinated volatile organic. However, the chlorinated volatile organic compounds are not above the cleanup level, and thus are not considered a contaminate in the cleanup sense.
- 4. Section 6.0 Conclusions: There is no evidence that the waste oil tank was the source of any release.

<sup>.</sup> See the UST tightness testing form dated 9-2-92 attached

Mr. Guy Buzzoni June 22, 1999 Page three

5. Section 6.0 Conclusions: You asked if the chlorinated volatile organics most likely came from the waste oil tank. Our answer is contained in the report and in the previous answers in this letter. There was no evidence of the tank or piping leaking. There was also no evidence of overfill releases occurring after the tank was installed.

Our answers as contained herein are our opinion based on Stephen Spencer's physical presence on site. Steve has more than 10 years experience in field work involved with tank decommissioning, along with his knowledge of field sampling and other accepted practices to determine the presence of such contaminates.

I trust this will put this matter to rest. We, again suggest that the site be characterized in full. We have spoken to the DOE project manager for the Milwaukee yard, and other at the agency who have worked at the site. I gathered that there is no question from their point of view that diesel contamination existed on the site prior to SeaLand's presence.

If you have questions, please give me a call.

7 Xun

yours,

Encl: as stated