

ESTERN GEOTECHNICAL, INC.

2726-A Black Lake Boulevard S.W.

Olympia, Washington 98502

(206) 922-0798

(206) 357-4651

HAZARDOUS WASTE
INVESTIGATION
FOR
COLUMBIA SQUARE
PROPERTIES

9-11-90

10008446

100249

DEPARTMENT OF ECOLOGY
UNDERGROUND STORAGE TANKS

SEP 19 1990

*entered site from
closure info*

Billed

10/23/90

#10361

This report represents the results of our subsurface investigation for a hazardous waste assessment of the soil surrounding an underground fuel tank.

Our purpose, in this investigation, was to explore the soil conditions so that we could make an assessment of the residual contamination, if any, of the soil after removal of the tank. Work was authorized by Mr. Stephen J. Bean. Our work on the site began on 6-28-90.

SITE CONDITIONS:

Site Location

The site is located @ 320 N. Columbia, in Olympia, WA.

Site History

The site was formerly owned by Washington Natural Gas. The site was used as a truck garage, with a gas pump & underground fuel tank. The tank was 1,000 gallon ± capacity & had been un-used for 10-12 years.

Tank Removal

On 6-28-90, the tank was pumped out by Fuel Processors, Inc. Approximately 121 gallons of a gas/water mixture was removed.

The tank was removed on 8-1-90, by Brumfield Construction Co. The tank was corroded & had small holes in the bottom. Some fumes were detected @ the base of the tank.

Soil samples were taken, by our personnel, of the tank sidewalls & tank base. All samples were placed in sterile containers & submitted to an approved analytical lab for analysis.

Laboratory Analysis

The samples were analyzed for Benzene, Ethyl Benzene, Toluene, Xylene, Total Petroleum Fuel Hydrocarbons & Ethylene Dibromide. The soil @ the tank base exceeded the maximum allowable TPH for gasoline tanks (100 ppm maximum) with a value of 158 ppm of Total Petroleum Hydrocarbons. A copy of the analysis is included in the appendix.

Corrective Action

The soil was allowed to aerate for one week. At the end of a week, only very slight fumes were noted. A 2nd sample of soil, at the tank base, was submitted for analysis. The results were well below the maximum allowable TPH, with a value of 11 ppm. A copy of the re-test is included in the appendix.

CONCLUSIONS & RECOMMENDATIONS:

The soil may now be considered free of hazardous waste & no further corrective action is warranted.

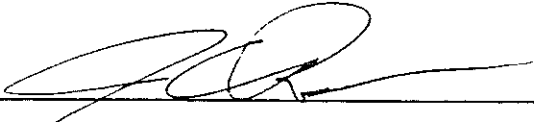
LIMITS OF LIABILITY:

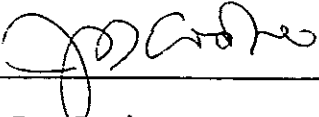
The engineer is responsible for the conclusions and opinions contained in this report based on the data relating only to the specific project and location discussed herein. In the event conclusions or recommendations based on this data are made by others, such conclusions and recommendations are not the responsibility of the engineer unless he has been given an opportunity to review them and concurs with such conclusions and recommendations in writing.

The analysis and recommendations submitted in this report are based upon the data obtained from the test hole logs at the locations indicated on the attached plan. This report does not reflect any variations that may occur between these test holes. The nature and extent of variations between the test holes may not become evident until they appear during the course of construction. If variations then appear, it will be necessary for the recommendations of this report to be re-evaluated after performing on site observations during the excavation period and noting the characteristics of such variations.

This opinion assumes that the contractor will exercise the highest degree of sound construction practices, and that he will adhere to the criteria and procedures set forth in the previous sections.

Hazardous Waste
Columbia Square
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Prepared By: 
J. Ross, Materials Engineer

Reviewed By: 
J.D. Cooke, PE



SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4630 PACIFIC HIGHWAY EAST, SUITE B-14, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

Report To: Western Geotechnical, Inc. Date: August 6, 1990

Report On: Analysis of Soil

Lab No.: 12561

IDENTIFICATION:

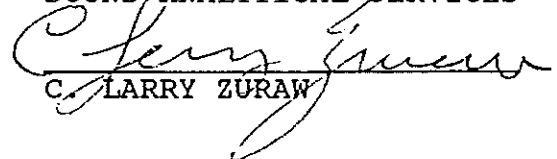
Samples Received on 08-02-90

Project: W6-1204 Columbia Square Properties

ANALYSIS:

Lab Sample No.	1	2
Client Identification	#1 Base 5'	#2 Walls 3'
Matrix/Units	Soil ppm	Soil ppm
Benzene	< 0.05	< 0.05
Toluene	< 0.05	< 0.05
Ethyl Benzene	< 0.05	< 0.05
Xylenes	0.14	< 0.05
BTEX by EPA SW-846 Method 8020		
Total Petroleum Hydrocarbons, by EPA Method 418.1	158	68.2

SOUND ANALYTICAL SERVICES


C. LARRY ZURAW

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4630 PACIFIC HIGHWAY EAST, SUITE B-14, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

Report To: Western Geotechnical

Date: August 10, 1990

Report On: Analysis of Soil

Lab No.: 12690

IDENTIFICATION:

Sample Received on 08-09-90

Project: Columbia Square Properties WG-1204

Client ID: RUSH Retest #1 Base of Tank Pit 5.5'

ANALYSIS:

Total Petroleum Fuel Hydrocarbons, ppm 11
by EPA SW-846 Modified Method 8015

TPH as

Gas & Diesel

SOUND ANALYTICAL SERVICES


C. LARRY ZURAW



STATE OF WASHINGTON

DEPARTMENT OF ECOLOGY

Mail Stop 40000 Olympia, Washington 98504-8711 Tel: 425-870-2000

August 24, 1990

Columbia Square Properties
320 North Columbia
Olympia WA 98502

Dear Tank Owner:

This letter is in response to your 30-day notice of intent to close underground storage tank(s) or your "Notice of Permanent Closure of Underground Storage Tank(s)" located in Olympia at 320 North Columbia. Upon searching our database we discovered that the tank(s) are not registered with Ecology. A 1984 federal law required that information regarding certain underground storage tanks be reported to the Washington Department of Ecology.

Enclosed is a Washington State Underground Storage Tank Notification. Please fill out the form, make yourself a photocopy, and return the form to Ecology as soon as possible. This must be done for the tank(s) to be removed as well as any other tank(s) that may exist at this site. Also, please complete a "Notice of Permanent Closure of Underground Storage Tank(s)" form, and return it to this office after your tank closure has been completed.

Any tank that was not permanently closed at the time of the fiscal year 1989 billing is subject to the tank fee authorized under chapter 90.76 RCW.

Thank you for your cooperation. For your information, I am also enclosing a booklet describing the current federal regulation for underground storage tanks. This booklet indicates which tanks need to be reported. If you have any questions, please call me at 438-7764.

Sincerely,

Joyce M. Smith
Joyce Smith
UST Data Management

Enclosures