FID# 36181742
CSID: 11817
Kirkland

UNDERGROUND STORAGE TANK
SITE CHARACTERIZATION REPORT

Regarding property at:

126th Place, Kirkland, Washington

Submitted by:

TechSolv Consulting Group, Inc
On behalf of **Emerald Services**

Prepared for:

Waste Management

For project completed on:

March 23, 2002

Prepared by:

Jerry Roberts for

Rob Honsberger
TechSolv Consulting Group, Inc.

♦ 12930 NE 178th Street, Woodinville, WA 98072♦ 425-402-8277 ♦

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Waste Management
UST Site Characterization
126th Place, Kirkland, WA
Date project completed: March 23, 2002

EXECUTIVE SUMMARY

SITE ID:

Commercial property at:
126th Place, Kirkland, Washington

Tank Type:	Capacity:	Substance Last Stored:	Street Address:
Diesel	3000 gallons	Fuel oil (heating)	126th Place

OBSERVATIONS:

- One single-wall steel underground fuel storage tank (the UST), used for storage of diesel fuel for on-site use, was exposed and removed from the property.
- The UST had very little corrosion and exhibited no apparent perforations or evidence of leakage and/or soil or groundwater contamination. The laboratory analysis result for soil sample SS-32302-Mid (collected from the midpoint in the excavation) confirms these findings.
- Concentrations of Total Petroleum Hydrocarbons (TPH) did not exceeded the current Model Toxics Control Act (MTCA) Method A soil cleanup level for diesel or oil range hydrocarbons.
- The UST was bedded in what appeared to be native soil; a light brown medium to fine sand with some damp clay, light-brown to gray in color. This material was found from ground surface to the bottom of the excavations.

ACTIONS:

- Overexcavated the UST cavity to remove accessible areas of possible petroleum contaminated soil (PCS).
- Removed a collective total of 8.30 tons of PCS from the The UST location and transported material to Emerald Services, inc. Seattle, Washington. TPH concentrations in the soil were below regulatory cleanup levels.
- Collected and arranged laboratory analysis of soil samples from within the UST cavity following overexcavation. Concentrations of TPH in these soil samples did not

exceede the current MTCA Method A soil cleanup level for diesel and oil range hydrocarbons.

- Backfilled the excavation with clean native soil from the excavation.

RECOMMENDATION:

- On the basis of field observations and laboratory analysis, concentrations of fuel oil range hydrocarbons for diesel and oil are present in areas beneath and in proximity to the prior location of the UST. However, these concentrations are well below the MTCA Method A cleanup levels for diesel and oil range hydrocarbons. Therefore, no additional soil characterization or cleanup activities appear warranted at this time.

Waste Management
UST Site Characterization
126th Place, Kirkland, WA
Date project completed: March 23, 2002

1.0 INTRODUCTION

This report presents the results of Emerald Services, Inc.'s activities during the decommissioning by removal of one underground fuel storage tank (the UST); an underground diesel fuel tank for on-site use. The UST was buried at a commercial building located at 126th Place, Kirkland, Washington at the time the work was performed. An electric power transformer located at the eastern boundary of the excavation (figure #2) was shut down during the excavation down and temporarily supported by a forklift. This site assessment report has been prepared in general accordance with the *"Guidance for Site Checks and Site Assessments for Underground Storage Tanks"* by the Washington State Department of Ecology (Ecology), UST Program, dated October 1992, and the *"Guidance for Remediation of Petroleum Contaminated Soils,"* Ecology, dated April 1994.

1.1 Purpose and Scope of Work

The purpose of the field activities was to remove fluids from, and rinse the UST; and to excavate, remove, and dispose of the UST and assess subsurface conditions within the resulting excavation. The scope of work consisted of the following tasks:

- Coordinate vendors and any subcontractors for performance of required functions;
- Perform initial pump-out and triple-rinse of the underground tank;
- Perform excavation of surface soil, tank removal, and transport of the USTfor salvage/metals reclamation from The UST location;
- Field test and arrange laboratory analyses of soils from beneath the approximate center of The UST floor to explore potential of release of petroleum hydrocarbons;
- Collect appropriate soil samples from within the UST final excavation cavity;
- Submit the collected soil samples to an Ecology-accredited analytical laboratory for chemical analysis of total petroleum hydrocarbons (TPH) as diesel and oil range using Ecology Method NWTPH-Dx (which includes fuel oil range hydrocarbons);
- Arrange for transportation and off-site remediation of any stockpiled petroleum contaminated soils (PCS); and,
- Prepare a report documenting the field activities, laboratory analysis results,

disposal or treatment of any PCS, and conclusions.

1.2 UST Background

The UST located at the property was discovered to be of a nominal 3000-gallon capacity, to be of standard cylindrical design, and of single-wall steel construction. The UST was located to the east of the building within the inside corner formed at the north end by the irregular-shaped structure.

The UST: A 3000-gallon diesel fuel (heating) UST that was located 2 feet east of the northeast building corner and 2 feet north of the structure. It is assumed that the UST had been installed during the construction of the original building structure, and was installed as fuel supply for the original heating furnace system.

There was no reported knowledge of, nor evidence of, any additional USTs on this property. It is assumed that the UST had been used solely for the storage of fuel oil for on-site heating furnace operation.

2.0 SITE CONDITIONS

2.1 Vicinity Description

The commercial property is located within the City of Kirkland, King County, Washington. The topography of this area is generally hilly and slopes from northwest to southeast. The roadway at 126th Place is a secondary minor arterial which runs east -west through this industrial area. Commercial buildings occupy a majority of the parcels in the vicinity. The surface elevation at the site is approximately 85feet above sea level.

Please see the topographic map (TOPO! 1998 Wildflower Productions) included as Figure #1. The location of the subject property is shown with an arrow.

2.2 Site Description

The subject lot is roughly square in shape and the ground surface of the lot is level. Access to the property is from 126th Place. The structure on the property is a single-story commercial business. The building structure is located along the northeast corner of the lot. The UST was located within the inside corner formed by the L-shaped jog in the structure. The surface over the UST was level and the UST was accessible. An electric power transformer sat on the eastern edge of the excavation and was temporally taken offline during the excavation, and supported with a forklift during excavation.

FIELD ACTIVITIES

Field activities were conducted by Emerald Services on March 23, 2002 and included excavation and removal of a 3000 gallon UST used for heating Fuel containment. Robert Honsberger, a geologist with TechSolv Consulting Group, Inc., preformed field screening and collection of soil samples under subcontract to Emerald Services. Site activities are described in the following sections.

3.1 Initial Observations and Assessment

Prior to the UST removal activities, a representative of Emerald visited this property for the purpose of estimating the cost of decommissioning the UST, of approximately 3000 gallons capacity. There was no apparent visual evidence of contamination at the surface in the vicinity of The UST.

The UST was measured to be approximately 5.5 feet in diameter and 18 feet long. The UST contained 2900 gallons of diesel fuel, and no water. The uppermost surface of the UST was buried 24 inches below the surface, and the UST floor measured 90 inches below grade.

3.2 UST Removal

Initial excavation to expose the UST for pumping and rinsing was performed using manual labor on March 23, 2002. The initial pump-out of the UST was performed by Emerald Services and the fluids were transferred to a truck-mounted holding tank for subsequent treatment and disposal by Emerald Services, Inc. A cleaning procedure, called "triple-rinse," was also completed by Emerald Services prior to the removal activities, and the rinsate was transferred to a truck-mounted holding tank for subsequent treatment/disposal by the same firm.

On March 23, 2002, a work crew from Emerald Services was on site to perform the UST removal procedures per Washington State Uniform Fire Code (UFC) guidelines under the direction of an IFCI Licensed UST Decommissioning Supervisor. Mr. Robert Honsberger, Staff Scientist with TechSolv consulting group, Inc., was on site to observe the exposure and removal of the UST, and to field test (cursory) soil conditions in the resulting tank cavity. The UST was inerted with carbon dioxide prior to removal, and

then the UST removal was performed utilizing a track hoe. The UST removal was completed on March 23, 2002.

During the initial removal activities, there was no apparent evidence of leakage on the upper surface of the UST shell, nor of petroleum product contamination in the soil overburden removed to expose the UST shell.

The UST: After the removal of soil from on top of the UST, the UST was lifted from the cavity, utilizing a track hoe. The UST was lowered onto the ground, marked for identification and visually inspected for holes and corrosion. The exterior surfaces of the UST exhibited little corrosion, with no visible perforation of the single-wall steel shell. The soils were brown medium to fine sand and damp brown to gray clay. Soil samples SS-32302-Mid was collected from the center of the UST floor, SS-32302-South End, and SS-32302-North End from the side walls of the excavation submitted to ESN Seattle Chemistry Laboratory (ESN) for analysis using Ecology Method NWTPH-Dx (diesel and oil range).

UST Closure Certifications are included in Appendix A. Laboratory data sheets for analytical samples are included in Appendix C. Sample collection data and analytical results are summarized in Table I.

3.3 Soil Screening During UST Removals

Soil removed during the excavation activities was screened for the potential presence of petroleum hydrocarbons. Screening techniques included headspace evaluation and visual classification. Headspace evaluation was performed by placing small soil samples in plastic Ziploc™ bags. The soil was then allowed to warm in the sun. Once the sample was warm a photoionization detector/organic vapor meter (PID/OVM) was used to determine the presence of organic vapors in the headspace above the soil. Soils were screened to assist in determining the final depth of the excavation. The excavation continued until field screening indicated no evidence of petroleum hydrocarbons.

Soils underlying the site consist of moist, brown, fine to medium sand with some brown to grey clay, which extends from ground surface to the bottom of the excavation, seven feet bgs. This material appears to be glacial till material known as "hard pan".

Soils collected from below the cavity floor of the UST did not indicate the presence of or other characteristics of petroleum-contaminated soil (i.e., odor, discoloration, etc.).

3.6 Transportation and Remediation of PCS

On March 23, 2002, suspected PCS was loaded and transported by Emerald Services to Waste Management in Seattle, Washington. One load of 8.30 net tons was weighed at the Waste Management facility scales prior to acceptance. Waste Management stockpiled the petroleum-contaminated soil at their Seattle facility. Testing indicated hydrocarbon concentrations to be below regulatory levels. The Waste Management Soil Disposal Certificates are included as Appendix B.

3.7 Sample Collection

A total of three samples were submitted for laboratory analysis during the excavation activities on this property. Soil sample locations are shown on Figure 3.

The excavation samples were chosen to best represent subsurface conditions within the excavation. All soil samples were collected from the center of the track hoe bucket. Before collection of each soil grab sample, new nitrile gloves were donned. The soil samples were placed with a gloved hand into laboratory-supplied glass jars. Each jar was completely filled with soil to minimize headspace and then sealed with a Teflon-lined screw cap. The sample jar was then labeled, and placed into a cooler. The sample jars were then refrigerated to await transport to the laboratory.

4.0 LABORATORY ANALYSIS

4.1 Sample Handling

All of the samples that were analyzed were submitted under chain-of-custody protocol to ESN Seattle Chemistry Laboratory, Washington State Department of Ecology Accreditation #C134, of Seattle, Washington. All samples submitted were analyzed as discrete samples.

4.2 Analytical Methods

Soil samples were analyzed for TPH (total petroleum hydrocarbons) using Ecology Method NWTPH-Dx (diesel and oil range, which includes fuel oil range hydrocarbons). Laboratory data are summarized in Table I and complete laboratory data sheets are included in Appendix C. The current and recently adopted MTCA Method A soil cleanup levels are presented at the bottom of Table I.

4.3 Analytical Results

Of the three samples submitted for laboratory analysis, one sample (Sample SS-32302-Mid collected from beneath the middle of the UST) was found to contain no detectable concentrations of TPH as diesel and oil range hydrocarbons. The remaining two soil samples analyzed contained detectable concentrations of TPH as diesel (Table 1).

Soil sample SS-32302-South-End was collected from the south end of the UST cavity at a depth of 7 feet directly after removal and excavation of the UST. Upon analysis, this sample measured 190 ppm for diesel range hydrocarbons and non-detect for oil range hydrocarbons.

Soil sample SS-32302-North-End was collected from the north end of the UST cavity at a depth of 7 feet directly after removal and excavation of the UST. Upon analysis, this sample measured 170 ppm for diesel range hydrocarbons and non-detect for oil range hydrocarbons.

5.0 CONCLUSIONS

One UST was exposed and removed from the commercial property at this site. The UST shell exhibited little signs of corrosion with no visible perforation. The UST was first pumped and rinsed, and then transported off site, cut, cleaned, and disposed of as salvage for reclamation. The water table in this area was not encountered during the site activities.

Visual observation and laboratory analytical results confirm that petroleum product had affected soils that were beneath the UST. Over-excavation of PCS was conducted at the UST location. Off-site disposal of the PCS has been conducted at Waste Management, in Seattle, Washington. A combined total net scale weight of 8.30 tons of PCS was removed from the site.

Laboratory analysis of soil samples collected from within the excavation after the over-excavation of PCS indicated that concentrations of TPH as diesel are present in the soil at the UST location. However, the detected concentrations are well below the MTCA Method A cleanup level for diesel range hydrocarbons (2000 ppm).

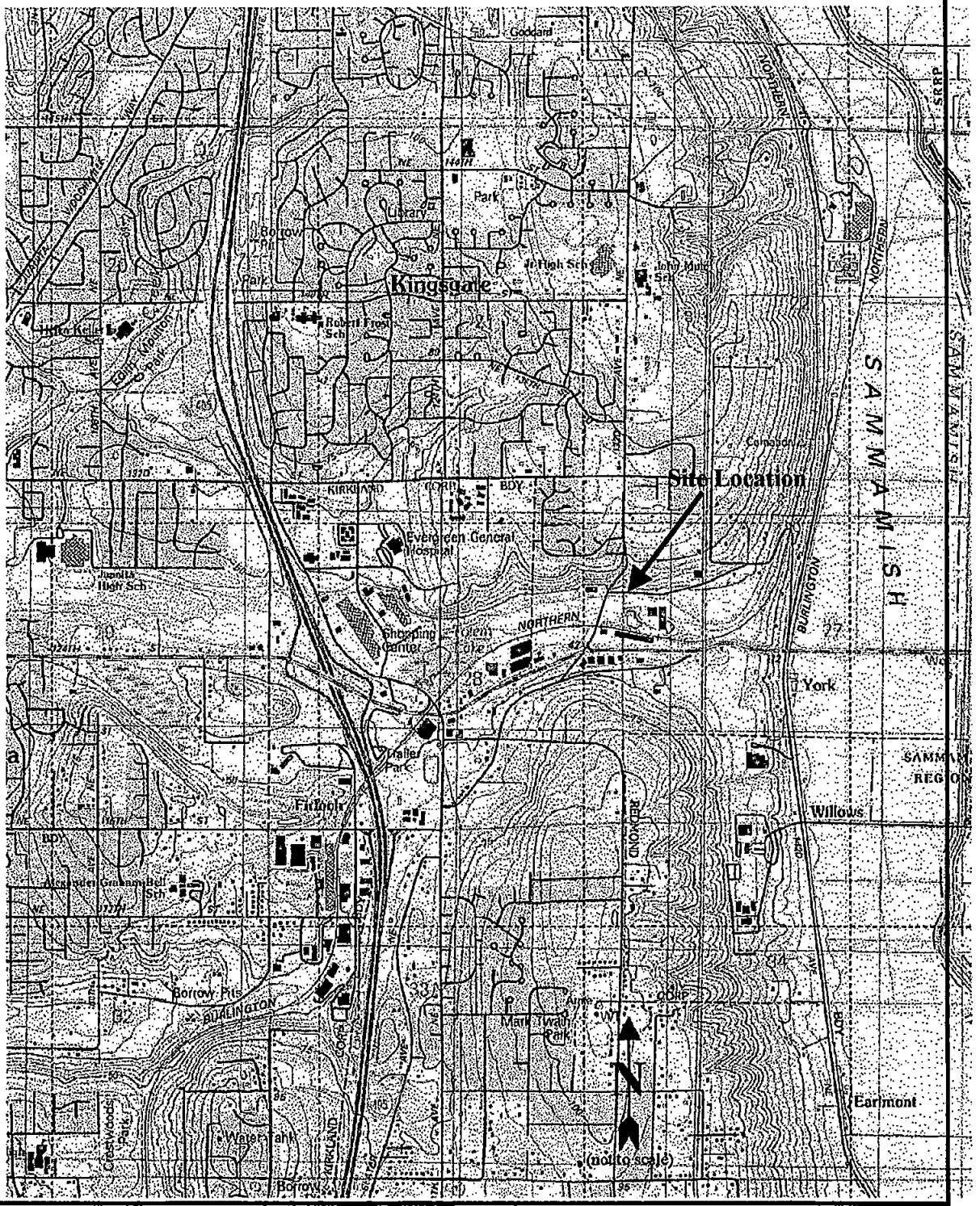
On the basis of the above data, additional soil characterization activities do not appear warranted at this time.

6.0 LIMITATIONS

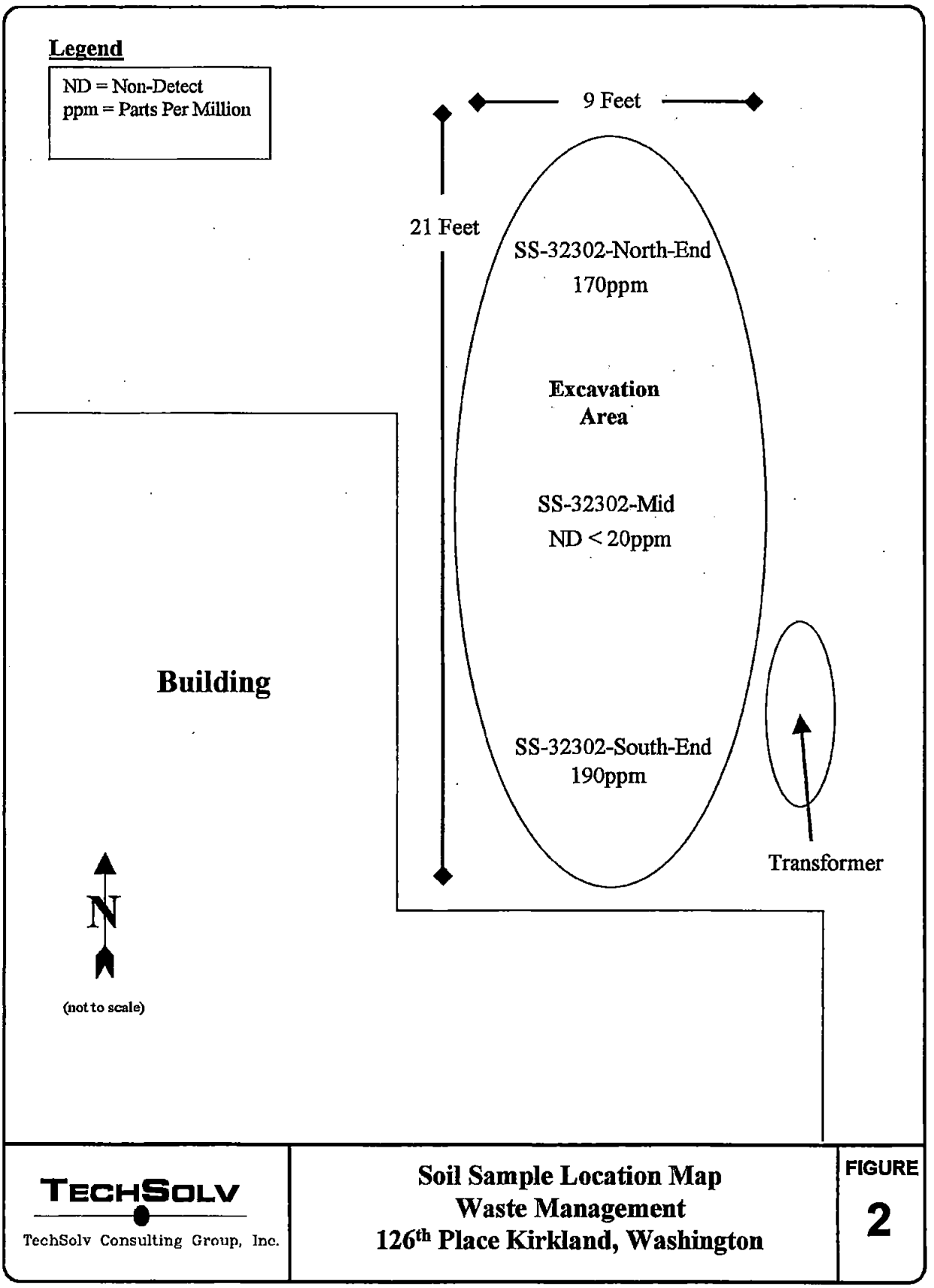
TechSolv Consulting Group, Inc. has prepared this report on behalf of Emerald Services, Inc. to describe UST removal activities performed by Emerald Services, Inc. on March 23, 2002. This report has been prepared for use by the principals of Waste Management and their authorized agents in their evaluation of subsurface conditions at the commercial property located at the street address of 126th Place, Kirkland, Washington. This report may be made available to lenders and regulatory agencies. This report is not intended for use by others and the information contained herein is not applicable to other than the explored location on this property or to other sites.

The data reported herein are based on visual observations, field data, and soil sample analysis results at specific locations on the subject site. TechSolv and Emerald Services, Inc. has relied on information provided by others in any description of historical conditions. The available data do not provide definitive information in regard to all past uses, operations or incidences at this site. It is always possible that contamination exists in a portion of, or portions of, the site that were not explored or sampled. Further evaluation of such potential contamination of soil or groundwater would require additional exploration and testing.

To our knowledge, within the limitations of scope, schedule, and budget, our services have been executed in accordance with generally accepted environmental science practices for similar site work in this area at the time this report was prepared. No warranty, expressed or implied, should be understood.



TECHSOLV TechSolv Consulting Group, Inc.	**Vicinity Map** **Waste Management** **126th Place Kirkland, Washington**	**FIGURE** **1**



TechSolv
TechSolv Consulting Group, Inc.

Soil Sample Location Map
Waste Management
126th Place Kirkland, Washington

FIGURE
2

Waste Management
UST Site Characterization
Site Address: 126th Place, Kirkland, Washington
Date project completed: March 23, 2002

TABLE 1
SOIL SAMPLING AND ANALYTICAL DATA
FOR SOIL SAMPLES COLLECTED FOLLOWING EXCAVATION

Sample ID #	Date Collected	Approx. Depth (feet)	Location	Date Analyzed	TPH Diesel	TPH Oil
SS-32302-South-End	3/20/01	7	South End of Excavation Floor	3/23/02	190	ND(<50)
SS-32302-Mid	3/20/01	7	Center of Excavation Floor	3/23/02	ND(<20)	ND(<50)
SS-32302-North-End	3/20/01	7	North End of Excavation Floor	3/23/02	170	ND(<50)
Reporting Limit					20	50
MTCA Cleanup Level Effective August 15, 2001					2,000	2,000

Notes: MTCA = Model Toxics Control Act Method A Soil Cleanup Levels.
TPH = Total Petroleum Hydrocarbons. All samples analyzed for TPH as diesel and oil range using Ecology Method NWTPH-Dx.
Reporting Limit = Analytical Method Reporting Limit
All values reported in **mg/Kg**, equivalent to parts per million (**ppm**).
Values in Bold exceed the respective MTCA Method A Soil Cleanup Level.
A complete laboratory Certificate of Analysis for each individual sample is attached.
ND = Analyte not detected at the laboratory reporting limit shown.

APPENDIX A

UST CLOSURE CERTIFICATION

UNDERGROUND STORAGE TANK TEMPORARY/PERMANENT CLOSURE and SITE ASSESSMENT NOTICE

WASHINGTON STATE DEPARTMENT OF ECOLOGY

See back of form for instructions
Please ☑ the appropriate box(es)
Please type or print information

For Office Use Only
Owner #
Site #

☐ Temporary Tank Closure ☑ Permanent Tank Closure ☐ Change-In-Service ☐ Site Assessment/ Site Check

SITE INFORMATION:

Site ID Number (an invoice or available from Ecology if the tanks are registered): N/A

Site/Business Name: Waste Management

Site Address: 13225 NE 126th Place (Street) Telephone: (425) 823-6164

Kirkland (City) WA (State) 98034 (ZIP Code)

TANK INFORMATION:

Tank ID	Closure Date	Tank Capacity	Substance Stored
N/A	3/23/02	3000 gal	Diesel
			Heating Oil

CONTAMINATION PRESENT AT THE TIME OF CLOSURE

☐ Yes ☐ No ☐ Unknown

Check unknown if no obvious contamination was observed and sample results have not yet been received from analytical lab.

UST SYSTEM OWNER/OPERATOR:

UST Owner/Operator:

Owners Signature: Telephone: ( )

Address: (Street) (P.O. Box)

(City) (State) (ZIP Code)

TANK CLOSURE/CHANGE-IN-SERVICE PERFORMED BY:

Service Provider: Emerald Services License Number: EMERASI991BR

Licensed Supervisor: Dan Doyle Decommissioning License Number: 32-US-32028400

Supervisors Signature: Dan Doyle

Address: 7343 E. Marginal Way S. (Street) (P.O. Box)

Seattle (City) WA (State) 98108 (ZIP Code)

Telephone: ( )

SITE CHECK/SITE ASSESSMENT CONDUCTED BY:

Name of Registered Site Assessor: Rob Honsberger w/ Tech sol Consultants

Telephone: (425) 402-8277

Address: 12930 NE 178th STREET (Street) (P.O. Box)

Woodinville (City) WA (State) 98072 (ZIP Code)

UNDERGROUND STORAGE TANK
Site Check/Site Assessment Checklist

ECOLOGY

For Office Use Only
Owner #:
Site #:

INSTRUCTIONS:

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

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

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

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

CHECKLIST: Please initial each item in the appropriate box.

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

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

SITE INFORMATION

Site ID Number (on invoice or available from Ecology if the tanks are registered): N/A

Site/Business Name: Waste Management

Site Address: 13225 N.E. 126th Place (street) Telephone: (425) 823-6164

Kirkland (City) WA (State) 98034 (ZIP Code)

TANK INFORMATION

Tank ID No.	Tank Capacity	Substance Stored
N/A	3000 gal	Diesel / Heating Oil

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT

Check one:

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

CHECKLIST

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

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

SITE ASSESSOR INFORMATION

ON Behalf of Rob Hunsberger

Joe Comstock — PERSON REGISTERED WITH ECOLOGY

Tech Solo — FIRM AFFILIATED WITH

BUSINESS ADDRESS: 12930 NE 178th St. TELEPHONE: (425) 402-8277

Woodinville — CITY; WA — STATE; 98072 — 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.

Signature of Person Registered with Ecology

WASHINGTON STATE DEPARTMENT OF ECOLOGY

UNDERGROUND STORAGE TANK
30 DAY NOTICE

See back of form for instructions
Please ☑ the appropriate box

☐ Intent to Install ☒ Intent to Close ☐ Both

For Office Use Only
Owner #:
Site #:

SITE INFORMATION:

Site ID Number (on invoice or available from Ecology if the tank is registered): N/A

Site/Business Name: WASTE Management

Site Address: 13225 NE 126th Place (Street) Owner/Operator Telephone: (425) 823-6164

Kirkland (City) WA (State) 98034 (ZIP Code)

TANK INFORMATION:

TANKS TO BE CLOSED

This section to be filled out ONLY if tanks are being removed

Tank ID	Projected Closure Date	Tank Capacity	Substance Stored	Date tank last used	Is there product in the tank? (yes/no)	If no, date tank was pumped
NA	3/23/02	3000gl	Diesel	N/A	YES	
			Heating OIL			

TANKS TO BE INSTALLED

This section to be filled out ONLY if tanks are being installed

Tank ID	Approx. Install Date

TANK INSTALLATION TO BE PERFORMED BY (if known):

This section to be filled out ONLY if tanks are being installed

Service Provider: Emerald Services Contact Name: Joe Comstock

Telephone: (206) 832-3036

Address: 7343 E Marginal WAY S. (Street)

Seattle (City) WA (State) P.O. Box 98108 (ZIP Code)

TANK PERMANENT CLOSURE TO BE PERFORMED BY (if known):

This section to be filled out ONLY if tanks are being removed

Service Provider:

Contact Name:

Telephone: ( )

Address: (Street) (P.O. Box)

(City) (State) (ZIP Code)

This form will be returned to this address:

UST OWNER/ OPERATOR

MAILING ADDRESS (Street)

Once validated by Ecology, this form serves as your [illegible] for the tanks listed above.

APPENDIX B

SOIL DISPOSAL CERTIFICATION

BILL OF LADING/ SCALE TICKET

WPE-2241
32-51542

WASTE MANAGEMENT

TICKET 64
WMI ARRF
70 S ALASKA ST
SEATTLE WA
TRUCK ID 272

GROSS 40720 LB
M TARE 24120 LB
NET 16600 LB
NET 8.30 TON
TIME 07:39 AM 25 MAR 2002

Date Scheduled for Pickup:

Generators Name & Address:
Bayley Construction

Contact Person: David Denning

Telephone Number: 206 - 621 - 8884

30-332-51542

Acknowledgement of Loading

Joe Comstock
Name (Please Print)

Joe Comstock
Signature

Emerald Services, Inc.
Company

3-25-02
Date

Deliver To:

ALASKA RELOAD & RECYCLING FACILITY
ARRF
70 SOUTH ALASKA STREET
SEATTE, WASHINGTON 98108
TELEPHONE # (206) 763-5025
MONDAY-FRIDAY 7:00am-4:00pm

Disposal Facility:

COLUMBIA RIDGE LANDFILL AND
RECYCLING FACILITY
18177 CEDAR SPRINGS LANE
ARLINGTON, OREGON 97812
TELEPHONE #: (541) 454-2030

Transporter Name:

Truck # 272

Waste Profile # 422950

Waste Type: ☐ ADC
☐ Beneficial Reuse

EXPIRATION DATE: 02/09/04

DAN DOYLE
Driver Name (Please Print)

Dan Doyle
Drivers Signature

2-25-02
Date

Remarks:

Emerald Services Inc.
7343 EAST MARGINAL WAY SOUTH
SEATTLE, WASHINGTON 98108
(206) 832-3000
FAX: (206) 832-3030
24 HOUR EMERGENCY PHONE: 1-800-424-9300

15659

BILL OF LADING AND GALLONAGE TICKET

SHIPPER/GENERATOR W M I	CONTACT		JOB # 30-332-5154/2
ADDRESS 13225 NE 126TH PL	PHONE#		LOAD # 1
CITY, STATE, ZIP BELLEVUE WA. TOTEM LK.			DATE 3-22-02
CARRIER E.C.S	PHONE#		DOCUMENT #
CONSIGNEE EMERALD PETROLEUM SER	CONTACT		TRUCK # 779
ADDRESS 1500 AIRPORT WY SO	PHONE#		PRODUCT TYPE L
CITY, STATE, ZIP SEA WA			EST. GALLONS 58"

HM	ITEM #	U.S. DOT DESCRIPTION	#	TYPE	QTY.
	A	DIESEL COMBUSTABLE LIQUID	1	TT	2575
	B	UN-1993 PG III			
	C	ERG-128			
	D				

A. WPQ # G02901 DISP. CODE: ______ C. WPQ # ______ DISP. CODE: ______

B. WPQ # ______ DISP. CODE: ______ D. WPQ # ______ DISP. CODE: ______

DISPOSAL

DUMP DELAY TIME ______

WASH OUT: YES ( ) NO ( ) TIME IN 2:15 TIME OUT ______

E. WATER ______ GALLONS LOCATION ______ TEST ______ DISP. CODE ______

F. SOLIDS ______ GALLONS LOCATION ______ TEST ______ DISP. CODE ______

______ % SUSPENDED SOLIDS BY CENTRIFUGE + ______ GALS SEDIMENT

G. OIL/DIESEL/GAS 2575 GALLONS LOCATION 5-2 TEST OK DISP. CODE Dies

HOC'S ______ PCB'S ______ B.S.&W. ______ API ______ LAB: Y / N

Shipper's Certification: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway, vessel and rail according to applicable international and national government regulations and this material is not regulated as a hazardous waste in accordance with WAC 173-303, 40 CFR. Part 261 or 40 CFR Part 761.

CUST NOT PRESENT
X DAN DOYLE X [signature] DATE: ______
SHIPPER (PRINT NAME) SIGNATURE

X DAN DOYLE X [signature] DATE: 3-22-02
CARRIER - DRIVER 1 (PRINT NAME) SIGNATURE

X ______ X ______ DATE: ______
CARRIER - DRIVER 2 (PRINT NAME) SIGNATURE

X William K Dennis X [signature] DATE: 3/22/02
CONSIGNEE (PRINT NAME) SIGNATURE

Emerald SERVICES INC.

7343 E. Marginal Way South
Seattle, Washington 98198
(206) 832-3000
Fax: (206) 832-3030

CLEANING CERTIFICATE

THIS IS AN ON-SITE CLEANING CERTIFICATE. CERTIFICATE INDICATES THAT THE FOLLOWING TANK(S) HAS(HAVE) BEEN CLEANED AND TRIPLE RINSED IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS:

QTY	GALLONAGE	DESCRIPTION
1	4,000	U.S.T

WPEI JOB # 30-332-51542

TRUCK # 779

DRIVER SIGNATURE Dan Doyle DATE: 3-23-02

SITE INFORMATION

COMPANY: W.M.I

ADDRESS: TOTEM LK
KIRKLAND WA.

CUSTOMER SIGNATURE

30-332-51542

West Pac ENVIRONMENTAL INC.

PUMP AND RINSE CERTIFICATION

DATE: 3-22-02

TO WHOM IT MAY CONCERN

This letter is to certify that tank(s), size(s)

1- 5,000 U.S.T DIESEL

have been pumped and rinsed for removal.

Work was performed at:

13225 NE 126TH PL

BELLEVUE WA

For:

W.M.I

Please note that this letter does **not** certify that the above tank(s) have been cleaned for disposal or that it (they) should be considered gas-free.

Sincerely, Dan Doyle

West Pac Environmental, Inc.

Underground Tank Division
762-1190

APPENDIX C

LABORATORY DATA SHEETS & CHAIN OF CUSTODY RECORDS

ESN SEATTLE CHEMISTRY LABORATORY
(425) 957-9872, fax (425) 957-9904

ESN Job Number:	S20323-1
Client:	EMERALD SERVICES
Client Job Name:	BAYLEY CONSTRUCTION
Client Job Number:	NA
Printed:	3/24/2002 11:47

Analytical Results			SS32302	SS32302	SS32302	DUPL SS32302
NWTPH-Dx, mg/kg		MTH BLK	SOUTH END	NORTH END	MID	MID
Matrix	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	03/23/02	03/23/02	03/23/02	03/23/02	03/23/02
Date analyzed	Limits	03/23/02	03/23/02	03/23/02	03/23/02	03/23/02
Kerosene/Jet fuel	20	nd	nd	nd	nd	nd
Diesel/Fuel oil	20	nd	190	170	nd	nd
Heavy oil	50	nd	nd	nd	nd	nd
Surrogate recoveries:						
Fluorobiphenyl		93%	121%	109%	97%	96%
o-Terphenyl		95%	92%	96%	93%	91%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
na - not analyzed
C - coelution with sample peaks
M - matrix interference
J - estimated value
Results reported on dry-weight basis
Acceptable Recovery limits: 65% TO 135%
Acceptable RPD limit: 35%

Emerald SERVICES INC.

7343 E. Marginal Way South • Seattle, Washington 98108
(206) 832-3000 • Fax (206) 832-3030

* 206-832-3036 Job# 332-51542

$125.00/Sample

4102

weekend cost

CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

Fax#
206-832-3136

GENERATOR NAME: Bayley Construction

GENERATOR CONTACT: David Penning

GENERATOR PHONE NO: 206-621-8884

*EMERALD CONTACT: Joe Comstock

ESI GENERATOR SAMPLE ID	PROCESS GENERATING WASTE	# OF SAMPLES EACH	ANALYSIS REQUESTED: ONE SAMPLE REQUESTED	CONFIRMING ANALYSIS ONLY: INFORMATION ATTACHED	CHARACTERIZE FOR DISPOSAL	IGNITABILITY CORROSIVITY REACTIVITY D001-D003	D-LISTED METALS BY TCLP D-004-D011	D-LISTED PESTICIDES AND HERBISIDES BY TCLP D-012-D017	D-LISTED ORGANICS D-018-D043	F-LISTED ORGANICS F001-F005	OTHER (PLEASE SPECIFY)
			TWO SAMPLES REQUIRED								
SS-32302-MID		1									NWTPH-Dx
SS-32302-South-End		1									NWTPH-Dx
SS-32302-NORTH-End		1									NWTPH-Dx

	SIGNATURE	PRINTED NAME	COMPANY NAME	TIME / DATE	SPECIAL INSTRUCTIONS / COMMENTS
RELINQUISHED BY	Joe Comstock	Joe Comstock	Emerald Serv.	11:45	3/23/02
RECEIVED BY	[illegible]	[illegible]	ESI Lab	11:[illegible]	3/23/02
RELINQUISHED BY					
RECEIVED BY					
RELINQUISHED BY					
RECEIVED BY					

WHITE - Laboratory CANARY - Sales Administrator PINK - Customer