

MEMO FROM FULCRUM ENVIRONMENTAL CONSULTING ANG

. 122 SOUTH THIRD STREET, YAKIMA, WA 98901 (509) 574-0839

To:

Dick Bassett

May 1, 2001

Department of Ecology

Page 1 of 1

From:

Peggy Williamson

Fulcrum Environmental Consulting, Inc.

RE:

Underground Storage Tank Site Assessment

Enclosed please find one bound copy of the Underground Storage Tank Site Assessment generated for 5281 Vantage Highway in Ellensburg, Washington.

Due to fund difficulties, the project was shut down and the project was not completed.

If you should have any questions, please feel free to contact me at (509) 574-0839.



UNDERGROUND STORAGE TANK SITE ASSESSMENT 5281 Vantage Highway Ellensburg, Washington

Project Number 00-154

April 26, 2001

Prepared for:

Eagle Home Mortgage

Attn: Angie Brown

1400 Summitview Avenue, Suite 106

Yakima, Washington 98902

Prepared by:

Fulcrum Environmental Consulting, Inc.

122 South Third Street

Yakima, WA 98901

120° 24' 45.6"

470 0' 2.0"

Authored by:

Date:

4-26-01

Travis Trent, RPG

Certified UST Site Assessor #32-US-23002725

Fulcrum Environmental Consulting, Inc.

Reviewed by:

Date: 4/26/01

Peggy Williamson, CHMM

Certified UST Site Assessor #32-US-32013305

Fulcrum Environmental Consulting, Inc.

F15# 85894558

Rcid 3/3/01

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1.0 INTRODUCTION

Fulcrum Environmental Consulting, Inc. (Fulcrum) was retained by Angie Brown of Eagle Home Mortgage (lending institution) to investigate possible presence of Underground Storage Tanks (USTs) at a facility located at 5281 Vantage Highway, in Ellensburg, Washington. The site was reported to have been used as a gasoline station from the 1940's until approximately 1970. No documentation of UST registration, decommissioning, or site assessment activities was available for the subject site. Because tank presence, use, history, and regulatory status were unknown, the Washington State Department of Ecology's (Ecology) Central Regional Office indicated that a 30-day UST notice would not be required prior to start of investigation activities.

2.0 SCOPE OF WORK

Fulcrum's scope of work for this project was limited to investigation to determine if tanks were present, and if present, to decommission the tanks and complete site assessment activities necessary to achieve permanent closure by removal. Travis Trent was the Certified UST Site Assessor (IFC No: 32-US-32002725) and Certified UST Decommissioner (IFC No: 1059647-26) for the project. See Appendix A for certifications. Site assessment and decommissioning services included oversight of removal activities, site investigation, and sample collection. Tank cleaning, removal, and disposal activities were not included within Fulcrum's scope of services. Tri-Valley Construction (Tri-Valley) was contracted separately to provide UST excavation services. Tri-Valley sub-contracted with Oil Re-refining to provide disposal of tank cleaning waste and any residual tank fluids.

Limited historic tank and site use information was supplied by the lending institution and Dorothy Bonjorni, site owner. Fulcrum made no effort to independently verify accuracy or completeness of supplied data. Fulcrum makes no warranties expressed or implied as to the accuracy or completeness of other's work included or referenced herein.

3.0 ENVIRONMENTAL SETTING

The subject site is located at 5281 Vantage Highway in Ellensburg, Washington. Properties near the subject site are primarily agricultural and residential. The site is approximately 1950 feet (ft) above mean sea level.

Soil immediately below the site is well-graded dark brown moist silt and sandy gravel. No bedrock or groundwater were found at maximum extent of sampling excavation, which was terminated at 8 feet below ground surface (bgs). Depth to groundwater below the site was estimated at 15 feet below ground surface. Seasonal changes and irrigation activities are anticipated to result in a variation of approximately 10 feet. Groundwater flow direction is assumed east-southeast based upon regional topography and hydrogeologic conditions.

4.0 BACKGROUND

The following background information was provided by Lon Bonjorni, son of the current property owner. The USTs were installed in the 1940s and have not been used during the last 20 to 30 years. The current site owner has never operated or used the USTs and was unaware of their actual location on-site. The current site owner has no records of UST maintenance, reports of leakage, or releases to

the environment. Historic UST content is unknown, but is assumed to be gasoline and diesel range petroleum hydrocarbons associated with former site use as a gasoline station. A concrete pad assumed to have been the location of historic dispensers is located on the south side of the building. Refer to the field sketch map in Appendix B.

5.0 SITE INVESTIGATION

Travis Trent of Fulcrum arrived on-site the morning of November 20, 2000 to perform UST site assessment and decommissioning services. Greg Huylar and Denny Foster of Tri-Valley were on-site to perform UST excavation services.

The work area was delineated by caution tape and signs. A brief site health and safety meeting was conducted prior to start of removal activities. Tri-Valley performed excavation activities to determine is USTs were present on-site. Four USTs were eventually located on-site.

Three approximately 3,000 gallon USTs (UST-01, 02, and 03) were located within the first excavation. A second excavation was performed around the historic dispenser island site, where UST-04 was located. Fuel dispenser lines were primarily located over the USTs and were assumed to have extended to the historic dispenser area. See Appendix B for field sketch map.

The tanks were found to contain de-minimus quantities of residual fuel and water. The air in each tank was monitored with a combustible gas meter during impacting activities to ensure gas readings remained below 20% of the lower explosion limit (LEL) prior to UST removal.

The four USTs were removed from the excavations. All four tanks were moderately rusted with some small holes. The tanks were cleaned on-site and secured on a trailer for transport to a recycling facility.

The first excavation (UST-01, 02, and 03) exhibited no visible hydrocarbon impact, but did exhibit a slight hydrocarbon odor. Field tests (photo-ionization detector, sheen, etc.) of soil from the first excavation found no further evidence of hydrocarbon impact. Samples were collected from below each UST and from two sidewalls of the first excavation. Excavation sidewall samples were preferentially collected from areas most likely to be impacted by historic releases, such as tank ends and fuel line connection areas. Analytical results are presented in Table 1. Following completion of sampling for confirmatory lab analysis, stockpiled soil was returned to the excavation site.

The second excavation (UST-04 and dispenser area) exhibited no visible indication of contamination, but did exhibit a very strong hydrocarbon odor. Field testing of excavation sediments suggested hydrocarbon contamination in the pit bottom and the east and south sidewalls. A trench was dug to the southeast through the dispenser area. Field indication of potential contamination appeared to increase below the dispenser area. Trenching continued in a southeasterly direction in an effort to evaluate horizontal extent of suspect contamination. Contamination concentration appeared to decrease approximately 30 feet from the dispenser area. Samples were collected for laboratory analysis from the bottom of the excavation and the trench area in locations anticipated to have the highest level of hydrocarbon contamination to evaluate nature (gas or diesel range) and concentration of suspect contamination. Excavation extent was marked with flagging tape and re-filled pending receipt of analytical results.



All confirmatory samples were submitted under chain-of-custody to Transglobal Environmental Geosciences Northwest, Inc. located in Lacy, Washington for analysis. Following is a summary of analytical results

Table 1
Sample Analytical Results

Sample Number/Description Analyte Results Detection Cleanup						
Sample Number/Description	Analyte	Results	AND SECURE OF THE PROPERTY OF	Providence and the second seco		
	Arrelen a	(ppm) ¹	Limit (ppm)	Levels2 (ppm)		
E1121-01, Below UST-03, Excavation-01,	Gasoline	None-detected	20	100		
7 ft bgs	Diesel	None-detected	50	200		
	Heavy Oil	None-detected	100	200		
E1121-02, East sidewall of Excavation-01,	Gasoline	None-detected	20	100		
5.5 ft bgs	Diesel	None-detected	50	200		
_	Heavy Oil	None-detected	100	200		
E1121-03, Below UST-02, Excavation-01,	Gasoline	None-detected	20	100		
7.5 ft bgs	Diesel	None-detected	50	200		
-	Heavy Oil	None-detected	100	200		
E1121-04, Below UST-01, Excavation-01,	Gasoline	None-detected	20	100		
7 ft bgs	Diesel	None-detected	50	200		
-	Heavy Oil	None-detected	100	200		
E1121-05, South sidewall of Excavation –	Gasoline	None-detected	20	100		
01	Diesel	None-detected	50	200		
	Heavy Oil	None-detected	100	200		
E1121-06, Below former dispenser area,	Gasoline	11,500	20	100		
Excavation-02, 3 ft bgs	Diesel	None-detected	50	200		
_	Heavy Oil	None-detected	100	200		
E1121-07, Southeast of dispenser	Gasoline	5,000	20	100		
area/UST-04, Excavation-02, 5 ft bgs	Diesel	None-detected	50	200		
	Heavy Oil	None-detected	100	200		

^{1 =} Parts per million

Note: Bold results indicated concentrations above MTCA Method A cleanup levels

Analytical results indicate that the Excavation-01 area (UST 01, 02, and 03) has not been impacted by petroleum hydrocarbons. Petroleum hydrocarbon contamination in excess of MTCA Method A cleanup levels is confirmed in the Excavation-02 area (UST-04 and dispensers).

6.0 WASTE DISPOSAL

Disposal activities were handled by Tri-Valley Construction. Tank sludge was drummed and taken for recycling by Oil Re-refining. The four tanks were transported to Northwest Truck Repair for recycling.



^{2 =} MTCA Method A

^{3 =} Feet below ground surface

7.0 RESULTS AND CONCLUSIONS

The results of the Vantage Highway Facility site assessment of the four USTs and associated dispenser area indicated that petroleum hydrocarbons have been released to the environment at the second excavation area (UST-04 and dispenser area). Vertical and horizontal extent of contamination was not evaluated during this investigation, though field notes estimate a potential for approximately 675 cubic feet of impacted soil. Under direction of owner/lender, contaminated soil was not removed from the site. Fulcrum verbally reported information regarding this confirmed release to the environment to both the property owner and the Department of Ecology within 24 hours of receipt of confirmatory analytical results. Additional investigative and remedial activities will be required at the 5281 Vantage Highway site to determine extent of contamination.



APPENDIX A

FULCRUM ENVIRONMENTAL CONSULTING'S CERTIFICATIONS

FIRE SERVICE DIVISION

PEGGY WILLIAMSON

is CERTIFIED in UNDERGROUND STORAGE TANK DECOMMISSIONING

demonstrated knowledge of national underground storage tank regulations and industry standards in effect on this date in the category shown above by successfully completing the prescribed written examination. The Fire Service Division attests that the individual named on this certificate has satisfactorily

Witnessed by our hand

Certificate No. 1035195-26

Issued December 16, 2000

For the Fire Service Division

Chairman

INTERNATIONAL FIRE CODE INSTITUTE



PEGGY M. WILLIAMSON 122 S 3RD ST YAKIMA, WA 98901

SSN: 538-70-9684

BDATE: 08/28/59 ASI ID: 32-US-32013305

EXAMINATION: WA SITE ASSESS.

EXAM DATE: 12/16/00

EXAMINATION RESULT: PASS

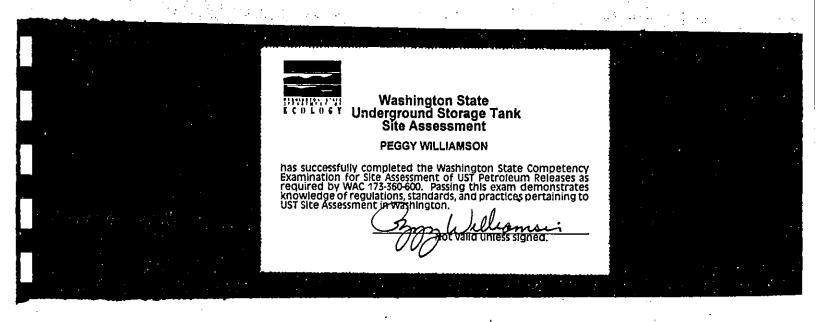
Congratulations! You have passed the Washington UST Site Assessment examination. This achievement attests to your knowledge of Washington site assessment practices and regulations in effect on this date.

Site Assessors in Washington are not required to register with the Department of Ecology. However, Site Assessors may be required to present this letter to the state inspectors as evidence of successful completion of this examination. Additional information on state requirements may be obtained from the Washington Department of Ecology, Toxics Cleanup Program UST Section, P.O. Box 47655, Olympia, WA 98504-7655 (phone 360-407-7210). Retesting every two years may be required by this agency.

Please notify IFCI of any change in your address. Thank you for your participation in the Washington UST Site Assessment examination.

IFCI Certification Section 5360 Workman Mill Road Whittier, CA 90601-2298

(800) 423-6587



International Fire Code Institute

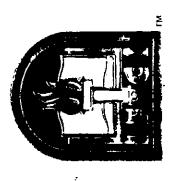
我们的话话话话话话话看看看看你的话看看我们的话话话话,我们就是一个人的话,我们的话话。他是他的话,我们的一个一句话,我们的话,我们就是我们就是我们的话,我们是我 第一个时间是是一个话话,我们是是是是一个人的话,我们是一个人的话,我们是一个人的话,我们是一个人的话,我们是一个一个一个一个一个一个一个一个一个一个一个一个一个

TRAVIS L. TRENT

UNDERGROUND STORAGE TANK **DECOMMISSIONING** is CERTIFIED in

demonstrated knowledge of national underground storage tank regulations and industry standards in effect The International Fire Code Institute attests that the individual named on this certificate has satisfactorily on this date in the category shown above by successfully completing the prescribed written examination.

Witnessed by our hand



Certificate No. 1059647-26

Issued December 18, 1999

For the International Fire Code Institute





Chairman

INTERNATIONAL FIRE CODE INSTITUTE



TRAVIS L. TRENT 122 S 3rd ST YAKIMA, WA 98901

> SSN: 536-04-3367 BDATE: 06/06/70 ASI ID: 32-US-32002725

EXAMINATION: WA SITE ASSESS.

EXAM DATE: 12/18/99

EXAMINATION RESULT: PASS

Congratulations! You have passed the Washington UST Site Assessment examination. This achievement attests to your knowledge of Washington site assessment practices and regulations in effect on this date.

Site Assessors in Washington are not required to register with the Department of Ecology. However, Site Assessors may be required to present this letter to the state inspectors as evidence of successful completion of this examination. Additional information on state requirements may be obtained from the Washington Department of Ecology, Toxics Cleanup Program UST Section, P.O. Box 47655, Olympia, WA 98504-7655 (phone 360-407-7210). Retesting every two years may be required by this agency.

Please notify IFCI of any change in your address. Thank you for your participation in the Washington UST Site Assessment examination.

IFCI Certification Section 5360 Workman Mill Road Whittier, CA 90601-2298

(800) 423-6587



Washington State Underground Storage Tank Site Assessment

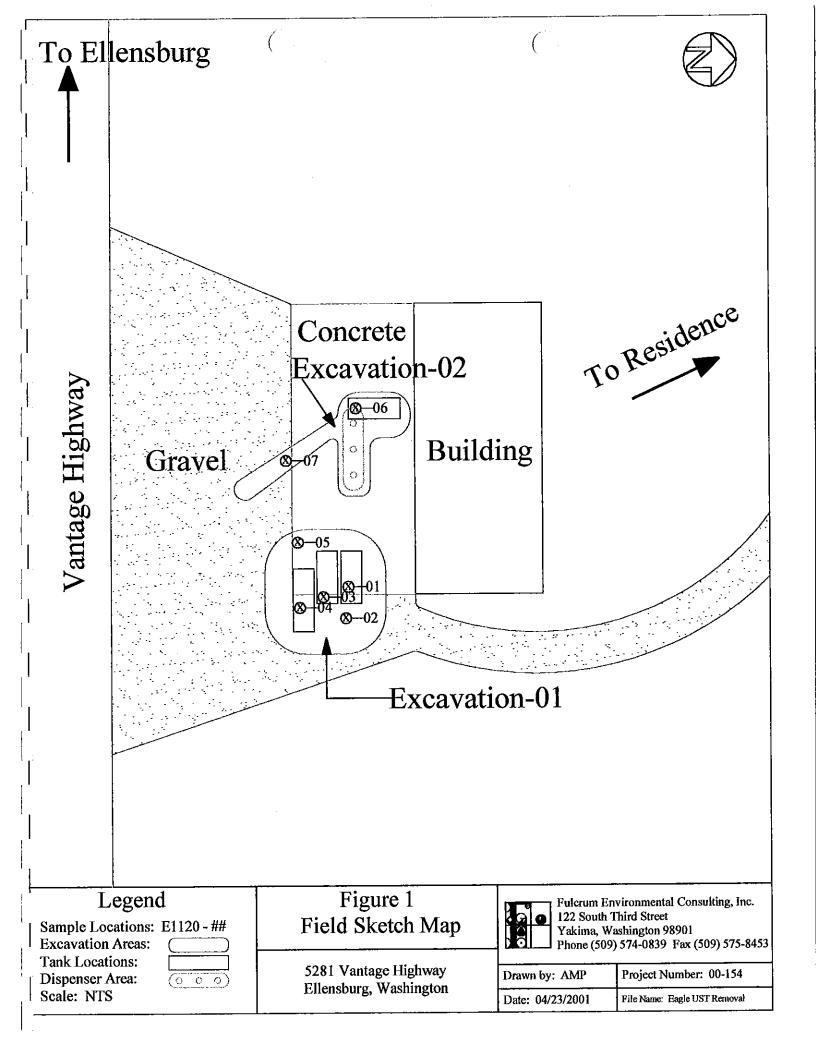
TRAVIS L. TRENT

has successfully completed the Washington State Competenty Examination for Site Assessment of UST Petroleum Releases as required by WAC 173-360-600. Passing this exam demonstrates knowledge of regulations, standards, and practices pertaining to UST Site Assessment in Washington.

Not valid unless signed.

APPENDIX B

FIELD SKETCH MAP



APPENDIX C

ANALYTICAL RESULTS

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.

800 Sleater-Kinney SE, PMB #262 Lacey, Washington 98503-1127

Mobile Environmental Laboratories Environmental Sampling Services Telephone: 360-459-4670

Fax: 360-459-3432

November 27, 2000

Travis Trent
Fulcrum Environmental
105 S 3rd Street
Yakima, WA 98901

Dear Mr. Trent:

Please find enclosed the analytical data report for the Eagle Mortgage Lists Project in Ellensburg, Washington. Soil samples were analyzed for Hydrocarbon Identification by NWTPH-HCID and Gasoline by NWTPH-Gx on November 21, 2000.

The results of these analyses are summarized in the attached table. All soil values are reported on a dry weight basis. Applicable detection limits and QA/QC data are included. An invoice for this analytical work is also enclosed.

TEG Northwest appreciates the opportunity to have provided analytical services to Fulcrum Environmental for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Michael A. Korosec

Michael a Korone

President

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.

EAGLE MORTGAGE LISTS PROJECT Ellensburg, Washingon Fulcrum Environmental Consulting Client Project ##00-154

Hydrocarbon Identification by NWTPH-HCID for Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Gasoline (mg/kg)	Diesel (mg/kg)	Heavy Oil (mg/kg)
Method Blank	11/21/00	88	nd	nd	nd
E1121-01	11/21/00	106	nd	nd	nd
E1120-02	11/21/00	92	nd	nd	nd
E1120-03	11/21/00	72	nd	nd	nd
E1120-04	11/21/00	112	nd	nd	nd
E1120-05	11/21/00	127	nd	nd	nd
E1120-06	11/21/00	int	D	nd	nd
E1120-07	11/21/00	int	D	nd	nd
Method Detection	Limits		20	50	100

[&]quot;nd" Indicates not detected at listed detection limits.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE: 65% TO 135%

ANALYSES PERFORMED BY: Marilyn Farmer

[&]quot;D" Indicates detected above the listed detection limit.

[&]quot;int" Indicates that interference prevents determination.

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.

EAGLE MORTGAGE LISTS PROJECT Ellensburg, Washingon Fulcrum Environmental Consulting Client Project ##00-154

Analyses of Gasoline (NWTPH-Gx) in Soil

Date	Surrogate	Gasoline
Analyzed	Recovery (%)	(mg/kg)
11/21/00	100	nd
11/21/00	int	11,500
11/21/00	int	5,000
		10
	Analyzed 11/21/00 11/21/00	Analyzed Recovery (%) 11/21/00 100 11/21/00 int 11/21/00 int

[&]quot;nd" Indicates not detected at the listed detection limits.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Chlorobenzene): 65% TO 135%

ANALYSES PERFORMED BY: Marilyn Farmer

[&]quot;int" Indicates that interference prevents determination.

ged Leg

TRANSGLOBAL ENVIRONIMENTAL GEOSCIENCES

CHAIN-OF-CUSTODY RECORD

Ylotatode la Mumber DATE OF 11/20/00 Total Number snearing to بالمعرعاف لممعها ال دلين ٠ ا 520 625 603 142440 PROJECT NAME: Eagle MOTAGE USTS Gentle or agin The Albundan of LABORATORY NOTES: Tum Around Time: NOTES PAGE. LOCATION: Ellensbulg DATE: 11/20/00 CHAIN OF CUSTODY SEALS Y/NUNA TOTAL NUMBER OF CONTAINERS RECEIVED GOOD COND./COLD SAMPLE RECEIPT COLLECTOR: OLD DICE SEALS INTACT? YAVINA FOOR SORTING PROJECT MANAGER: (Dans 18 eat NOTES: FAX: (509) 575- 54\$3 DATE/TIME Yakina wit 9898 DATE/TIME (Portsulting X M RECEIVED BY (Signature) RECEIVED BY (Signature) Pickup ☐ TEG DISPOSAL. @ \$2.00 each ☐ Return ☐ SAMPLE DISPOSAL INSTRUCTIONS CLIENT: Fullerun Envidonmenta Container Type ADDRESS: 133 5. 384 SL Sample Type 11 40/00 DATE/TIME DATE/TIME JU 0 PHONE: (409) 574-0839 CLIENT PROJECT #: 00-154 Time Depth RELINQUISHED BY (Signature) RELINQUISHED BY (Signature) Sample Number 6.F1130-06 3 F 1190-03 2.E11.20-02 4. PO-130-04 56-1100-05 TO 0017 [0-0¢]] ₩ 13. 19 걸 14. 5. 9 Ξ

APPENDIX D

UNDERGROUND STORAGE TANK CLOSURE AND SITE ASSESSMENT DOCUMENTATION



UNDERGROUND STORAGE TANK Closure and Site Assessment Notice

FORO	ffice use only
Site ID #:	
Owner ID #:	

See back of form for instructions

	Site Information		. Owner	Information
iD Number		UST C)wner/Operator	
able from Coology Business Nam	if the tanks are registered)	Mailin	g Address	Streat
	5281 Vantage 4	show,		
2010	llensburg WA	City/Si	(al e _	P.O. Box
10 989	26Telephone (509)	925-7490 zip Co	xde Tele	phone ()
r's Şignature			···	
		llosure/Charge-In-St		
e Company	<u>Tri-Valley</u>	, Construction		 -
ied Superviso	or Travis	Trent Decor	nmissioning Certification	No IFC # 1059647-
ırvisor'a Sigr	ستسيسي			
es s		lar	Tele	phone (509) 459-9220
	Sostane	P.O. 50:	*	99204
	Cily	Sielo		Zip Code
led Site Asse	107 S. Co	Site Check/Site A	Tele	phone (<u>504) 459</u> -922C
'ACC	Siroel	P.O. 80	ıx.	99204
ess		Starte		Žip Coda
259	Spekane	2 feat		
iress	• •	-		Contamination Present
	Tank ir	nformation	· Substance Stored	at the Time of Closure
Tank ID 157-01	Tank ir Closure Date Closur	nformation re Nethod Tank Capacity	Substance Stored	at the Time of Closure Yes No Unknown
Tank ID	Tank ir Glosure Date Glosur	nformation re Nethod Tank Capacity 2000 200		at the Time of Closure Yes No Unknown Check unknown if no obvious contamination was observed and
Fank ID <i>IST-01</i>	Tank ir Glosure Date Glosur	nformation re Nethod Tank Capacity	10mast	at the Time of Closure Yes No Unknown Check unknown if no obvious contamination was observed and sample results have not yet bee
Tank ID 137-01 157-02	Tank ir Glosure Date Glosur	nformation re Nethod Tank Capacity 2000 200	of polivieum	at the Time of Closure Yes No Unknown Check unknown if no obvious contamination was observed and
ank ID 137-01 157-02 157-03	Tank ir Glosure Date Glosur	nformation re Nethod Tank Capacity	of polivieum	Yes No Unknown Check unknown if no obvious contamination was observed an eample results have not yet bee received from analytical lab
ank ID 137-01 157-02 157-03	Tank ir Glosure Date Glosur	nformation re Nethod Tank Capacity	of polivieum	Yes No Unknown Check unknown if no obvious contamination was observed an sample results have not yet bee received from analytical lab

To receive this document in an alternative format, contact the TOXICS CLEANUP PROGRAM at 1-800-826-7718 (voice) OR (360) 407-8006 (TDD). ECY 020-94 (Rev. 6/95)



UNDERGROUND STORAGE TANK Site Check / Site Assessment Checklist

For office use only						
— Ówner #:						

INSTRUCTIONS

When a release has not been confirmed and reported, this Site Check/Site Assessment Checklist must be completed and signed by a person certified by IFCI or a Washington registered professional engineer who is competent, by means of examination, experience, or education, to perform site assessments. 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 tanks for which the site check or site assessment is being conducted. Use the owner's tank ID numbers if available, and indicate tank capacity and substance stored.

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSEMENT: 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 PO Box 47655 Olympia WA 98504-7655

SITE INFORMATION Site ID Number (Available from Ecology	r if the tanks are registered);	
Site/Business Name: Site Address; <u>929 Vantage</u> h	lighuty Street	- Telephone: (509) 925 - 7490
City Ellensburg	Sinc WA	Zip Code 97726
TANK INFORMATION Tank ID No. UST 01, 02, 03 UST 04	Tank Capacity 3,000, 2,500, 2,000 2,500	Mustly employ Substance Stored assumed gas + diesel Came petroleum hyroarbin
Investigate suspected releas Extend temporary closure of UST system undergoing cha UST system permanently clo UST system permanently clo Abandoned tank containing p	te due to on-site environmental contaminade due to off-site environmental contaminate to off-site environmental contaminate to off-site environmental contaminate to off-site environmental contaminate due to off-site environmental contaminat	ination.