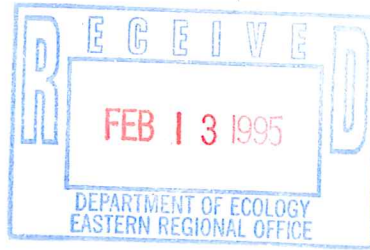


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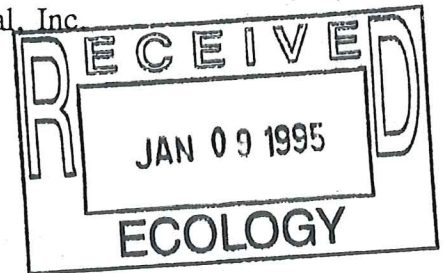
**UNDERGROUND STORAGE TANK SITE ASSESSMENT
U S WEST COMMUNICATIONS FACILITY
102 EAST ALDER STREET
WALLA WALLA, WASHINGTON
WDOE SITE ID#: 010033**

Prepared for

U S WEST Business Resources
c/o Mr. Bill Archer
421 S.W. Oak Street, Room 6N5
Portland, Oregon 97204

Prepared by

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November 18, 1994

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Gerald G. Harper
Division Manager

UNDERGROUND STORAGE TANK SITE ASSESSMENT
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102 EAST ALDER STREET
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EXECUTIVE SUMMARY

At the request of Mr. Bill Archer and in accordance with our proposal dated August 31, 1994, Huntingdon Engineering & Environmental (Huntingdon) performed an underground storage tank site assessment of the above-referenced property (hereinafter, the site) for U S WEST Business Resources. This report presents our findings on the decommissioning and removal of one 1,000-gallon diesel fuel underground storage tank (UST). The scope of services, objectives, extent and limitations of the services and report are described in more detail in the text of the report.

An environmental professional from Huntingdon arrived at the site to observe UST removal activities and to perform a UST site assessment on November 1, 1994. The tank had been uncovered and was being cleaned in-place. After being removed from the ground, the tank was inspected for signs of leakage. The tank appeared to be in good condition with no signs of rusting and/or pitting. Stained and odorous soil was observed along the east sidewall and noted for soils surrounding the fill pipe. This petroleum contaminated soil (PCS) appeared to extend down the fill pipe and along the sides and east end of the tank.

Petroleum hydrocarbon contamination was confirmed for the site. Field observations indicate diesel fuel was released into the subsurface from the removed tank's fill pipe (i.e. overfills, leaking fittings, etc.). Limited overexcavating activities were initiated to remove the PCS from the subsurface. The extent of contamination appeared to be reached after approximately 15 yds³ of PCS were removed. The recovered PCS was sampled for characterization purposes and found to have TPH-D concentrations ranging from 34 mg/kg to 56 mg/kg. This material falls under the Class 2 type PCS and is tentatively scheduled for landfill disposal. Soil samples collected from the final boundaries of the excavation were found to have TPH-D concentrations below the practical detection limits. These concentrations are below the WDOE Method A action level of 200 mg/kg for TPH-D in soil. Based on these observations, the tank site appears suitable for permanent closure.

The removed tank and residual product was transported from the site by Pemco for off-site demolition and disposal. The stockpiled material from the tank excavation is currently stored on-site. A letter report (Independent Remedial Action Report, Project No. 194-2088-1) will be forthcoming describing field activities and findings in conjunction with the remediation aspect of this project. Receipts and permits related to the disposal/remediation of contaminated material will be submitted at that time. Because the site is subject to high traffic conditions, the excavation was backfilled for safety reasons. The backfill material consisted of clean imported fill.

Based upon the findings of the foregoing assessment, Huntingdon does not suspect the presence of additional petroleum hydrocarbon contamination at the tank site. Therefore, no further subsurface investigations appear warranted at this time.

In accordance with Washington Administrative Codes (WAC) Chapter 173-340-450 for Underground Storage Tanks, the WDOE was notified of the current site conditions. Mr. Phil Leinart of the Eastern Regional Office was contacted by phone on November 3, 1994, and informed of our field observations. This report and supporting documentation (i.e. UST Permanent Closure and Site Assessment Notice, UST Site Check/Site Assessment Checklist, etc.) is required to be submitted to the UST Section at the WDOE main office in Olympia, Washington.

**UNDERGROUND STORAGE TANK SITE ASSESSMENT
U S WEST COMMUNICATIONS FACILITY
102 EAST ALDER STREET
WALLA WALLA, WASHINGTON
WDOE SITE ID#: 010033**

1.0 PROJECT DESCRIPTION

1.1 Introduction

At the request of Mr. Bill Archer and in accordance with our proposal dated August 31, 1994, Huntingdon Engineering & Environmental (Huntingdon) performed an underground storage tank site assessment of the above-referenced property (hereinafter, the site) for U S WEST Business Resources. This report presents our findings on the decommissioning and removal of one 1,000-gallon diesel fuel underground storage tank (UST). Tank removal activities were completed on November 1, 1994.

1.2 Purpose and Scope

The purpose of this project was to assist responsible parties in complying with current Washington State Department of Ecology (WDOE) regulations and guidelines for the safe removal and decommissioning of USTs (Ecology, October 1991). Site specific objectives included: 1) safely excavating and removing the existing UST from the ground for proper disposal, 2) assessing the presence of petroleum hydrocarbons in soils and, if applicable, groundwater using field observations and confirmational laboratory sampling, and 3) evaluating the magnitude and extent of any discovered petroleum hydrocarbon contamination based on the assessment findings.

The following scope of services was performed for this assessment:

- ♦ An environmental professional was mobilized to the site with the appropriate equipment to perform the required site assessment. The environmental professional was registered with the WDOE to perform UST site assessments and had current health and safety training.
- ♦ The UST was removed from the ground by a state licensed excavation and UST firm using proper safety and excavation techniques. The tank and residual product were transported from the site for proper disposal.
- ♦ The removed UST was inspected for areas of severe rusting, perforations, and seam failures. Dimensions, appearance, and corrosion protection methods were noted and documented.
- ♦ The tank excavation was evaluated by our environmental professional for signs of contamination including visible free product, soil discoloration, and odor. Selected soil

samples were screened with a photoionization detector (PID) to determine the presence or absence of volatile organic vapors.

- ◆ Soil samples were collected from the excavation boundaries and shipped to a Washington State approved laboratory for selective analysis of total petroleum hydrocarbons modified for diesel fuel (WTPH-D, Washington State modified EPA Method 8015). Sampling locations were chosen based on evidence of petroleum hydrocarbon contamination and at pre-specified points described by WDOE guidelines (Ecology, October 1992).
- ◆ This report was prepared to summarize the field activities performed and the findings of the environmental assessment. The report also renders our evaluation concerning petroleum hydrocarbon contamination at the site.

1.3 Project Background

The UST was scheduled for decommissioning and removal from the site for regulatory reasons. Huntingdon was contacted by U S WEST Business Resources to perform the required UST site assessment. Pemco of Portland, Oregon, a licensed excavation and UST firm, was contracted by U S WEST Business Resources to perform all excavating and disposal activities.

2.0 SITE CHARACTERISTICS

2.1 Site Description

The site is identified as the U S WEST Communications facility located at 102 East Alder Street in Walla Walla, Washington. The present occupant of the property is U S WEST Communications which may be contacted by mail at 421 S.W. Oak Street, Room 6N5, Portland, Oregon, 97204, or by phone at (503) 295-2004. The project contact is Mr. Bill Archer. An approximate legal description is the southeast quarter of the southwest quarter of Section 20, Township 7 North, Range 36 East, Walla Walla County, Washington. Based on the USGS 7.5 minute series topographic map of the area (Walla Walla Quadrangle), the latitude is 46 degrees 4 minutes 0 seconds and the longitude is 118 degrees 20 minutes 9 seconds. The approximate location is depicted in the Site Location Map (Appendix 1, Figure 1). The site is bounded by East Alder Street to the north, South 1st Avenue to the west, an alleyway and parking lot to the south, and Cummins Athletic Supply to the east. The site hosts a three-story, basemented building utilized as the central telephone operations center for U S WEST Communications. The tank was located in the parking enclave adjacent to South 1st Avenue. Specific aspects of the site are shown in the General Site Plan (Appendix 1, Figure 2). Photo exhibits are presented in Appendix 2.

2.2 Geology

The City of Walla Walla is situated on the southeast portion of the Columbia Plateau geologic province northwest of the Blue Mountains in the southern margin of the Palouse region. The

Columbia Plateau is comprised of a series of flood basalt which cover most of eastern Washington. The basalt flows of the Columbia Basalt Group are Miocene in age, forming an extensive volcanic plateau (Alt & Hyndman, 1984). The Columbia basalt in the Palouse region is overlain by eolian deposits of Palouse Loess (Alt & Hyndman, 1984). The site lies in an area where portions of the Palouse Loess were eroded and younger sedimentary units were deposited by Mill Creek and the Walla Walla River.

Area soils are classified as Yakima gravelly silt loam (Soil, 1993). Surface materials include areas of asphalt and concrete pavement. Subsurface materials, as observed during excavation activities, consist primarily of dark grey sandy gravel with cobbles. For more details on subsurface formations, please refer to the Excavation Logs in Appendix 3.

2.3 Hydrology

The site is located in the Mill Creek drainage basin. The average rainfall for the area is estimated to be 13 to 16 inches per year (Soil, 1993). Site surface drainage is directed to the southwest where runoff empties into the a storm sewer. Surface drainage for the general area is to the northwest. The nearest surface water is Mill Creek located approximately 170 yards to the north. Based on site groundwater monitoring wells, groundwater contact is 10 to 14 feet below ground surface (BGS) and subject to seasonal fluctuations. The groundwater flow direction, based on groundwater data collected in August, 1993, is calculated to be towards the southwest.

2.4 Site History

Historical information was obtained from a site report previously prepared by Huntingdon for U S WEST Business Resources (Huntingdon, December 1993). Based on reviews of a Sanborn Insurance Map dated 1905, the subject site was originally the location of several commercial businesses including a liquor store, a wood working/upholstery shop, a carpenter's shop, a warehouse, and several storage sheds. The Sanborn Insurance Map dated 1930 showed the same site as having the same types of commercial businesses with the addition of a plating works and a paint store. The Sherwood and Roberts Real Estate map of the principal retail section of Walla Walla, Washington, dated 1956, shows the original telephone company (Pacific Telephone and Telegraph Co.) building at the subject site. Interviews with telephone personnel indicate the original telephone building was built in the late 1940s (Hill, 1992). Building plans from 1955 shows the construction of a new addition to the original building. This building currently occupies the site.

2.5 Regulated Material Issues

Petroleum contaminated soil and groundwater has been confirmed for the site. A detailed hydrocarbon investigation was completed by Huntingdon for the site in December 1993. This report indicates free product and high total recoverable petroleum hydrocarbons (TRPH)

concentrations ranging from 1610 mg/kg to 2300 mg/kg are found in soils beneath the basement floor and immediately adjacent to the site building. Groundwater TRPH concentrations decrease in the downgradient groundwater flow direction away from the building. WDOE Method A action levels are exceeded only within the site property boundaries. For more information, please refer to the Phase II Environmental Assessment: Detailed Hydrocarbon Investigation report (Huntingdon, December 1993).

Four UST systems were confirmed to have existed at the subject site and are depicted on the UST Location Map (Appendix 1, Figure 3). First, the removed 1,000-gallon emergency generator UST was located in the parking area adjacent to South 1st Avenue. The second system, which had been closed in-place (Chen-Northern, May 1993), consists of a single UST located beneath the basement floor of the existing building. The size and former contents of this tank could not be determined. The third UST system was identified by U S WEST officials as having existed on the southeast corner of the subject site (Hill, 1992). One 2,000-gallon fuel oil tank and one 400-gallon diesel fuel tank were located where the electrical grounding grid is now present. These tanks were assumed to have been removed when the grid was built. The fourth UST system was indicated on building plans dated 1955. Two 4,000-gallon fuel oil tanks were located east and adjacent to the original building. The plans indicated these tanks were to have been removed when the new addition was built. Inspections in the basement area revealed no evidence that would indicate these tanks were still present. Due to the nature and depth of the basement in the building addition, these tanks were likely removed during construction.

The removed diesel fuel tank was registered with the WDOE as an emergency generator UST and had been reportedly managed consistent with state UST regulations (Hill, 1994). The tank was decommissioned for regulatory reasons and was to be replaced with an aboveground storage tank (Hill, 1994).

3.0 ASSESSMENT PROCEDURES

The UST is carefully uncovered and any remaining residual product is removed. After inerting the tank with dry ice, the tank is cut opened and cleaned in-place. Once removed from the excavation, the tank is inspected for signs of leakage. Visible cracks, seam failures, severe rusting, and staining may signify that a petroleum product release has occurred. The product piping is also removed and inspected for signs of leakage including loose pipe fittings, cracks, and staining.

After the tank and product piping have been safely removed from the ground, the excavation is surveyed for stained and/or odorous soil and the presence of volatile organic vapors. Dark grey or green discoloration is suggestive of soil contaminated by petroleum products. Volatile

organic vapor screening procedures consist of scanning excavated soil samples with a photoionization detector (PID), to determine if volatile organic compounds are present. Headspace samples are prepared by placing representative soil samples in a clean glass container, covering the container with aluminum foil, sealing the container, and allowing the sample to warm to approximately 75 degrees F. The headspace (air trapped in the uppermost portion of the container) of each sample is then measured with the PID to detect volatile compounds. This methodology is considered representative of in-situ conditions but is dependent on field conditions, including the chemical nature of the contaminant, soil moisture content and weather conditions. Screening results are used to assist field personnel in evaluating soil conditions and are not to be interpreted as actual contaminant concentrations.

Soil samples are retained for laboratory analysis based on field observations or at pre-specified locations. Soil samples are collected from suspect areas in each excavation exhibiting notable volatile organic vapor concentrations or discoloration. Soil samples may also be collected from areas in the excavation associated with signs of leakage noted on the tank or product piping. At a minimum, soil samples are collected from pre-specified locations including the base of the excavation and the four sidewalls (Ecology, October 1992). If suspect contamination is present, soil samples may also be collected from the stockpiled excavated material. Sample locations are randomly selected with an emphasis on obtaining samples from areas of highest observable contamination.

Soil samples are obtained using the bucket of a backhoe from excavations greater than 4 feet. Due to current OSHA Industrial Safety and Health Administration guidelines, site assessment personnel are unable to enter an excavation greater than this depth. With direction from site assessment personnel, the backhoe bucket is guided to the area to be sampled and a quantity of soil is extracted. Care is given to minimize sloughing which may mix with soil from the targeted sampling area. Soil samples are then collected from the center of the backhoe bucket with a trowel and placed in pre-cleaned sample jars. The trowel is decontaminated between sampling events to prevent cross-contamination. For the sampling of stockpiled material, at least 1 foot of overlying soil is removed and the sample collected using a decontaminated trowel.

If groundwater is encountered in the tank excavation, groundwater samples are collected with a disposable bailer. The bailer is lowered into the excavation and allowed to fill. After retrieving the bailer, the water sample is transferred into the appropriate pre-cleaned sample jar and preserved (if required). All samples retained for laboratory analysis are collected in pre-cleaned sample containers, labelled, and placed in coolers with ice for temporary storage until received by a certified laboratory.

The soil and groundwater samples are analyzed in accordance with WDOE guidelines at a Washington State accredited analytical laboratory. Depending on the former contents of the

tank, samples are analyzed for total petroleum hydrocarbons modified for the gasoline (WTPH-G, Washington State modified EPA method 8015), diesel fuel (WTPH-D, Washington State modified EPA method 8015), and/or heavy fuels (WTPH-418.1, Washington State modified EPA method 418.1). If the contents of the tank are not known, the samples are analyzed for total petroleum hydrocarbon identification (WTPH-HCID, Washington State modified method) to qualify and partially quantify any petroleum hydrocarbon contamination which may be present. If petroleum hydrocarbons are detected, the samples will then be analyzed by the appropriate TPH modified method. If gasoline is suspect, samples will also analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX, EPA method 8020), and, for leaded gasoline, total lead (Lead, EPA Method 7421). Laboratory results are used to confirm the presence or absence of petroleum hydrocarbon contamination and to aid in the evaluation of a detected release for further subsurface investigations and/or remedial actions if warranted.

Details of field procedures and sampling protocols used by Huntingdon personnel are outlined in our "Standard Operating Procedures for UST Site Assessments, Washington State" (Huntingdon, 1994) manual kept on file at our office. All deviations from the described site assessment procedures are described in the following sections.

4.0 ASSESSMENT FINDINGS

4.1 Field Observations

An environmental professional from Huntingdon arrived at the site to observe UST removal activities and to perform a UST site assessment on November 1, 1994. The tank had been uncovered and was being cleaned in-place. After being removed from the ground, the tank was inspected for signs of leakage. The tank appeared to be in good condition with no signs of rusting and/or pitting. The tank and residual product was transported from the site by Pemco personnel for proper disposal. Physical information pertaining to the tank is presented in Table 1.

Table 1
Summary of Tank Physical Data

Tank No.	Construction Materials	Additional Protection	Diameter (ft)	Length (ft)	Capacity (gallons)	Age (years)	Former Contents
1	Steel	Cathodic	3.9	12	1000	Unknown	Diesel Fuel

Soil from the tank excavation was visually examined for evidence of petroleum hydrocarbon contamination. Stained and odorous soil was observed along the east sidewall and noted for soils surrounding the fill pipe. This petroleum contaminated soil (PCS) appeared to extend down the fill pipe and along the sides and east end of the tank. Limited overexcavating activities were

initiated to remove the observed PCS, however, these activities were restricted by the building foundation and confined work space. Sampling and headspace testing of soil from the tank excavation indicated volatile organic vapors were present. PID readings ranged from 32.4 parts per million (ppm) for the base to 45.3 ppm for the east sidewall. PID readings for the stockpiled material ranged between 43.5 ppm and 211 ppm. For more details on field observations, please refer to the Tank Closure Field Forms in Appendix 4. The final dimensions of the excavation are depicted in the Detailed Site Plan (Appendix 1, Figure 4).

4.2 Analytical Results

Representative soil samples were obtained from the boundaries of the tank excavation. These samples were received and analyzed by Analytical Technologies (ATI) Laboratory in Portland, Oregon. Analytical results are summarized in Table 2 while the laboratory reports are contained in Appendix 5. Sample locations are shown on Figure 3 (Appendix 1).

Table 2
Summary of Analytical Results
Tank Excavation

Sample No.	Location ¹	Matrix	Analysis	Concentration ²
				TPH ³
1515110194	Base, 7.5'	Soil	WTPH-D	< 22 mg/kg
1520110194	North Wall, 5'	Soil	WTPH-D	< 22 mg/kg
1522110194	South Wall, 5'	Soil	WTPH-D	< 25 mg/kg
1524110194	East Wall, 4'	Soil	WTPH-D	< 22 mg/kg
1526110194	West Wall, 4'	Soil	WTPH-D	< 22 mg/kg

¹ Sample locations are characterized by area and depth from which the sample was obtained.

² Soil sample results are reported as a dry weight basis in milligrams per kilogram (mg/kg).

³ TPH = Total Petroleum Hydrocarbons corresponding to product type identified.

A < sign indicates concentrations, if present, were below practical detection limits calculated for the analytical method.

A NA indicates "not analyzed".

Laboratory results (Table 2) show that petroleum hydrocarbons typical of diesel fuel were not detected in the soil samples collected from the tank excavation. The suspect samples were found to have TPH concentrations below the practical detection limits.

Representative soil samples were also obtained from approximately 15 yds³ of stockpiled excavated material. Analytical results are summarized in Table 3 while the laboratory reports are contained in Appendix 5.

Table 3
Summary of Analytical Results
Stockpile

Sample No.	Location ¹	Matrix	Analysis	Concentration ²
				TPH ³
1400110194	Stockpile	Soil	WTPH-D	< 23 mg/kg
1402110194	Stockpile	Soil	WTPH-D	34 mg/kg
1403110194	Stockpile	Soil	WTPH-D	56 mg/kg

¹ Sample locations are characterized by area and depth from which the sample was obtained.

² Soil sample results are reported as a dry weight basis in milligrams per kilogram (mg/kg).

³ TPH = Total Petroleum Hydrocarbons corresponding to product type identified.

A < sign indicates concentrations, if present, were below practical detection limits calculated for the analytical method.

A NA indicates "not analyzed".

Laboratory results (Table 3) show that petroleum hydrocarbons typical of diesel fuel were detected in two of the stockpile samples. The suspect samples were found to have TPH concentrations ranging from 34 mg/kg to 56 mg/kg.

4.3 Material Disposal and Backfill

The removed tank and residual product was transported from the site by Pemco for off-site demolition and disposal (Appendix 6). The stockpiled material from the tank excavation is currently stored on-site. This material falls under the Class 2 type PCS and is tentatively scheduled for landfill disposal. A letter report (Independent Remedial Action Report, Project No. 194-2084-1) will be forthcoming describing field activities and findings in conjunction with the remediation aspect of this project. Receipts and permits related to the disposal/remediation of contaminated material will be submitted at that time. Because the site is subject to high traffic conditions, the excavation was backfilled for safety reasons. The backfill material consisted of clean imported fill.

5.0 RELEASE CHARACTERIZATION

The purpose of this section is to provide information about the extent and magnitude of environmental impact observed at the subject site.

5.1 Type of Release

Historical information indicated the removed UST contained diesel fuel and this type of product was observed in the tank. The gas chromatography (GC) graphs from the TPH-D method revealed the detected petroleum hydrocarbons as being in the range of diesel fuel.

5.2 Source of Release

The source of the contamination appears to be associated with the tank fill pipe. Discolored and slightly odorous soil was observed around the fill pipe and extended down both sides and east end of the tank. The release might have occurred from past overfills, and/or leaking fill pipe fittings.

5.3 Magnitude of Impact

The quantity of fuel released into the subsurface is unknown, but, based on field observations, appears to be limited. Overexcavating activities were successful in removing the PCS from the subsurface. Laboratory results for the soil samples obtained from the excavation boundaries were below practical detection limits. Laboratory results for the stained and odorous soil removed from the excavation showed TPH concentrations below the WDOE Method A action level of 200 mg/kg for diesel fuel in soil. TPH concentrations ranged from 34 mg/kg to 56 mg/kg. Action levels established by the WDOE are presented in Appendix 7.

5.4 Extent of Impact

Based on the assessment findings and assuming that the source of contamination originated from the removed tank fill pipe, PCS was present at the tank site. The PCS extended vertically from near the surface to approximately 6 feet BGS. The horizontal extent appeared limited to several feet surrounding the east end of the tank. Again, overexcavating activities were successful in removing the PCS from the subsurface.

6.0 DISCUSSION/CONCLUSIONS

Petroleum hydrocarbon contamination was confirmed for the site. Field observations indicate diesel fuel was released into the subsurface from the removed tank's fill pipe (i.e. overfills, leaking fittings, etc.). Limited overexcavating activities were initiated to remove the PCS from the subsurface. The extent of contamination appeared to be reached after approximately 15 yds³ of PCS were removed. The recovered PCS was sampled for characterization purposes and found to have TPH-D concentrations ranging from 34 mg/kg to 56 mg/kg. This material falls under the Class 2 type PCS and is tentatively scheduled for landfill disposal. Soil samples collected from the final boundaries of the excavation were found to have TPH-D concentrations below the practical detection limits. These concentrations are below the WDOE Method A action level of 200 mg/kg for TPH-D in soil. Based on these observations, the tank site appears suitable for permanent closure.

7.0 RECOMMENDATIONS

Based upon the findings of the foregoing assessment, Huntingdon does not suspect the presence of additional petroleum hydrocarbon contamination at the tank site. Therefore, no further subsurface investigations appear warranted at this time.

8.0 REPORTING REQUIREMENTS

In accordance with Washington Administrative Codes (WAC) Chapter 173-340-450 for Underground Storage Tanks, the WDOE was notified of the current site conditions. Mr. Phil Leinart of the Eastern Regional Office was contacted by phone on November 3, 1994, and informed of our field observations. This report and supporting documentation (i.e. UST Permanent Closure and Site Assessment Notice, UST Site Check/Site Assessment Checklist, etc.) is required to be submitted to the UST Section at the WDOE main office in Olympia, Washington. Copies of supporting UST closure and assessment documentation are included in Appendix 7.

9.0 LIMITATIONS

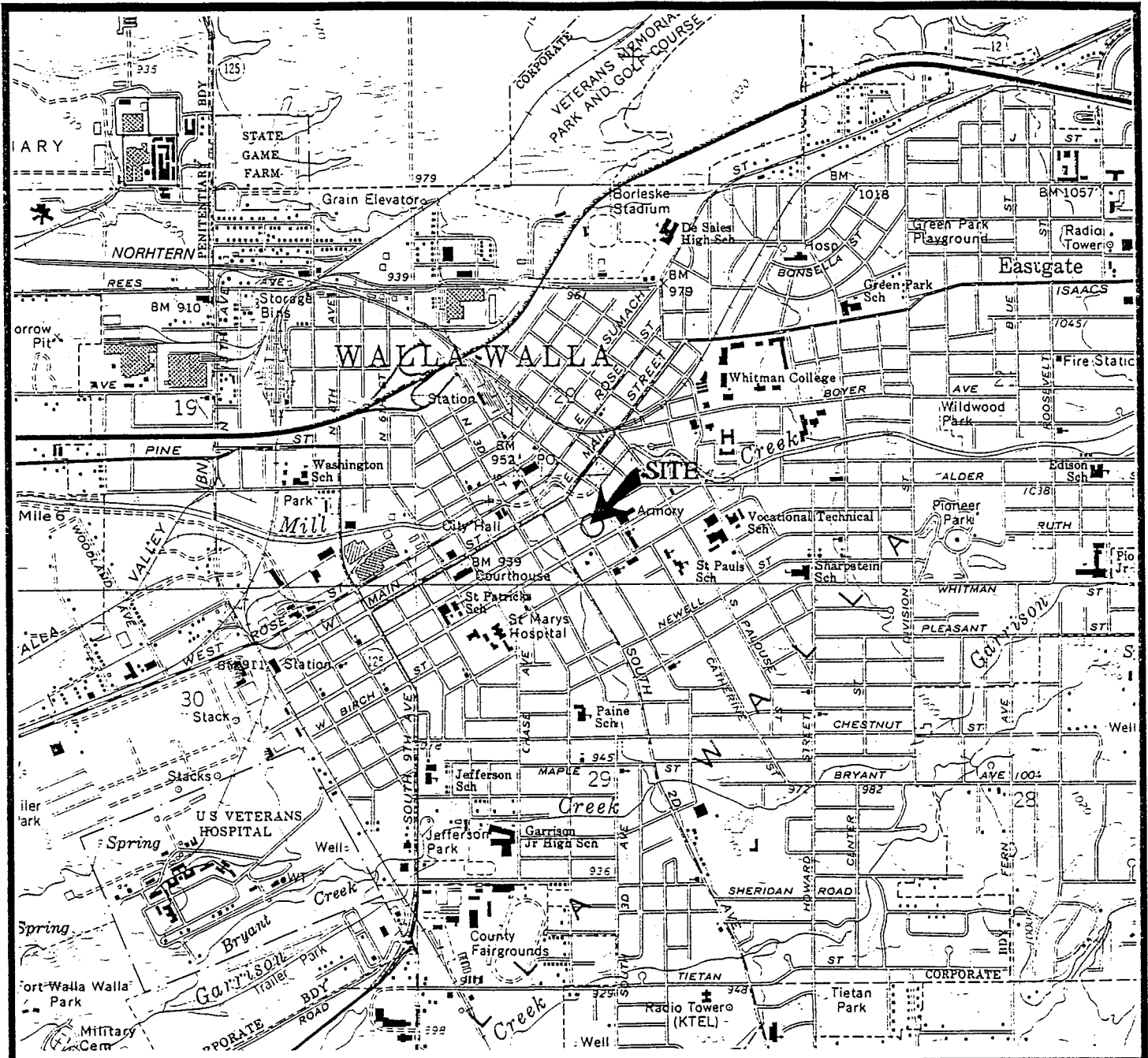
This work was performed in accordance with the generally accepted practices of other consultants undertaking similar studies at the same time and in the same geographical area. Huntingdon observed a degree of care and skill generally exercised by other consultants under similar circumstances and conditions. Huntingdon's findings and conclusions must be considered not as scientific certainties, but as opinions based on our professional judgement concerning the significance of the data gathered during the course of monitoring. Other than this, no warranty is implied or intended.

REFERENCES:

- Alt, D. D., & Hyndman, D. W. (1984). Roadside Geology of Washington. Missoula, Montana: Mountain Press Publishing Co.
- Chen-Northern (May 1993), Underground Storage Tank Site Assessment, Project Number 193-2065-2. Tri-Cities, Washington: Report completed for U S WEST Business Resources by Chen-Northern, Inc.
- Ecology, Washington State Department of (October 1991), Washington Administrative Codes for Underground Storage Tank Regulations. WAC 173-360, Olympia, Washington: State document.
- Ecology, Washington State Department of (October 1992), Guidance for Site Checks and Site Assessments for Underground Storage Tanks. Underground Storage Tank Program. Olympia, Washington: State document.
- Hill, S., Representative of U S WEST Business Resources (1992, 1993, 1994), Personal interviews with Greg Thurman and Gerald Harper of Huntingdon, Inc.
- Huntingdon (December 1993), Phase II Environmental Assessment: Detailed Hydrocarbon Investigation, Project Number: 193-2065-1, Tri-Cities, Washington: Report completed for U S WEST Business Resources by Huntingdon, Inc.
- Leinart, P., Project Manager of WDOE Eastern Regional Office (1994), Personal interviews with Greg Thurman of Huntingdon, Inc.
- Osborn, R., Project Manager of Pemco (1994), Personal interviews with Greg Thurman of Huntingdon, Inc.
- Soil Conservation Service (1993), Soil Survey of Walla Walla County Area Washington. U.S. Department of Agriculture, Olympia Washington: State/Federal Document; Information obtained through personnel interviews by Greg Thurman of Huntingdon, Inc.
- USGS, 1978, United States Geological Survey 7.5 Minute Series Topographic Map, Walla Walla Quadrangle, Walla Walla County, Washington, Washington, D.C.: United States Geological Survey.

APPENDIX 1

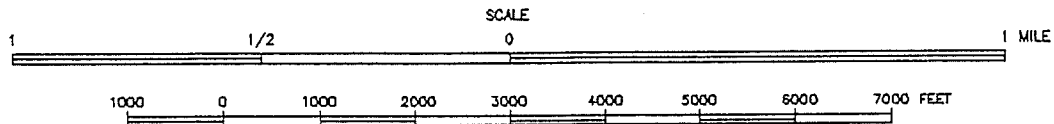
Figures



WALLA WALLA QUADRANGLE
WASHINGTON - OREGON



QUADRANGLE LOCATION



CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929



HUNTINGDON, INC

Project No: 194-2088

SITE LOCATION MAP
U S WEST COMMUNICATIONS FACILITY
102 EAST ALDER STREET
WALLA WALLA, WASHINGTON

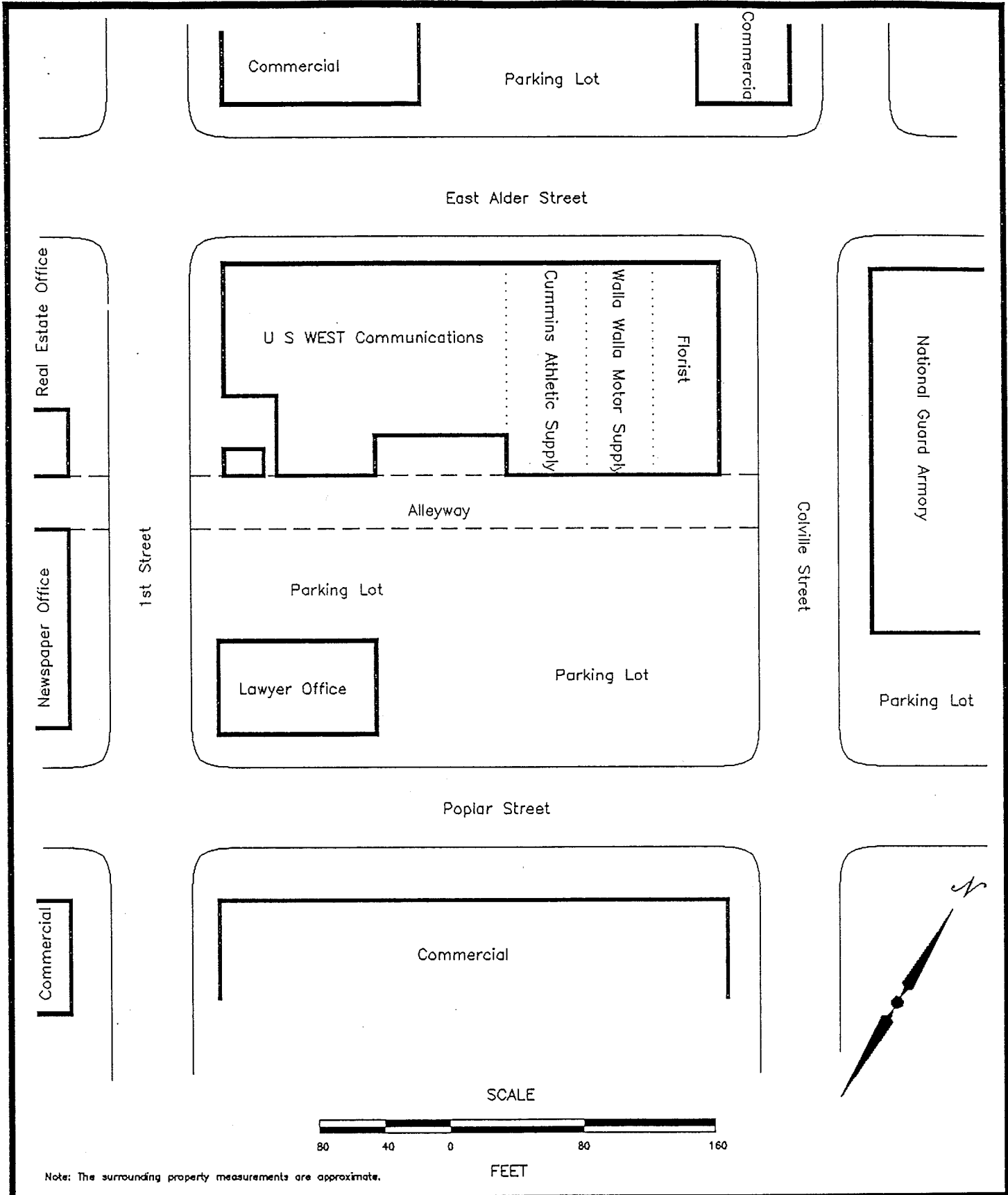
DATE:
1978

DRAWN BY:
U.S. Geological Survey

REVIEWED BY:
GT

SCALE:
1:24000

FIGURE NO.
1



Note: The surrounding property measurements are approximate.

HUNTINGDON, INC

Project No: 194-2088

GENERAL SITE PLAN
 U S WEST COMMUNICATIONS FACILITY
 102 EAST ALDER STREET
 WALLA WALLA, WASHINGTON

DATE: 11-03-94	DRAWN BY: GT	REVIEWED BY: GH	SCALE: 1:960	FIGURE NO. 2
-------------------	-----------------	--------------------	-----------------	-----------------

Commercial

Parking Lot

Commercial

East Alder Street

Real Estate Office

Subject UST

U S WEST Communications

Removed 1950s

Closed In-Place

Cummins Athletic Supply

Walla Walla Motor Supply

Florist

National Guard Armory

Newspaper Office

1st Street

Alleyway

Removed 1970s

Colville Street

Parking Lot

Lawyer Office

Parking Lot

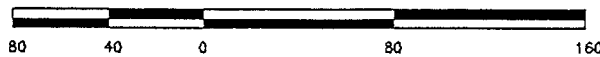
Parking Lot

Poplar Street

Commercial

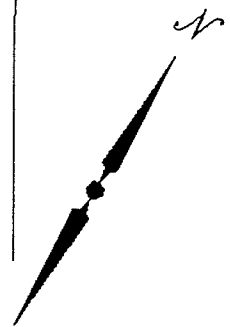
Commercial

SCALE



Note: The surrounding property measurements are approximate.

FEET



HUNTINGDON, INC

Project No: 194-2088

UST LOCATION MAP
 U S WEST COMMUNICATIONS FACILITY
 102 EAST ALDER STREET
 WALLA WALLA, WASHINGTON

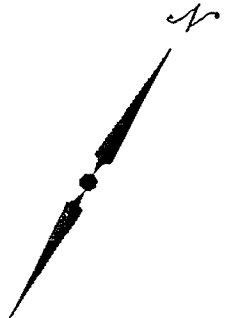
DATE:
11-03-94

DRAWN BY:
GT

REVIEWED BY:
GH

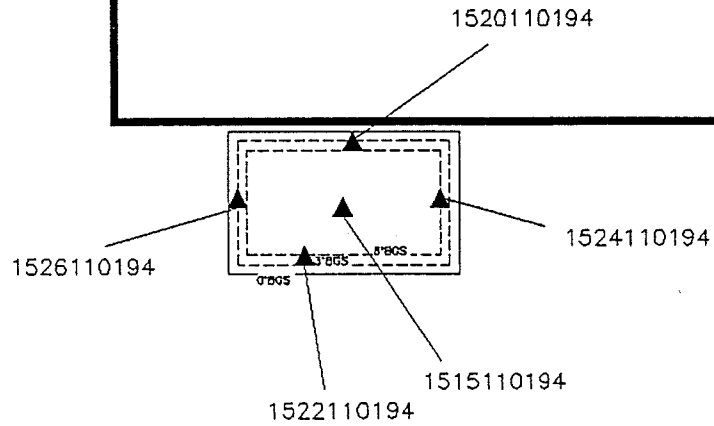
SCALE:
1:960

FIGURE NO.
3

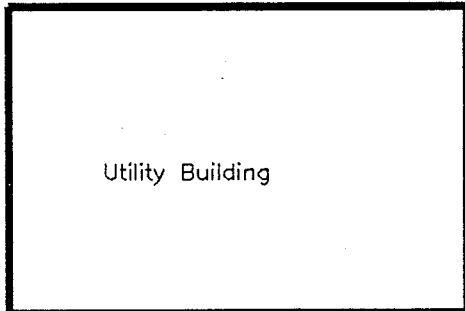


U S WEST Communications

1st Street



LEGEND
 1522110194 — Sample Number
 ▲ — Sample Location
 --- 87005 --- Contour Line



Alleyway

SCALE



FEET

Note: The surrounding property measurements are approximate.

HUNTINGDON, INC

Project No: 194-2088

DETAILED SITE PLAN
 U S WEST COMMUNICATIONS FACILITY
 102 EAST ALDER STREET
 WALLA WALLA, WASHINGTON

DATE: 11-07-94	DRAWN BY: GT	REVIEWED BY: GH	SCALE: 1:120	FIGURE NO. 4
-------------------	-----------------	--------------------	-----------------	-----------------

APPENDIX 2

Photo Exhibits

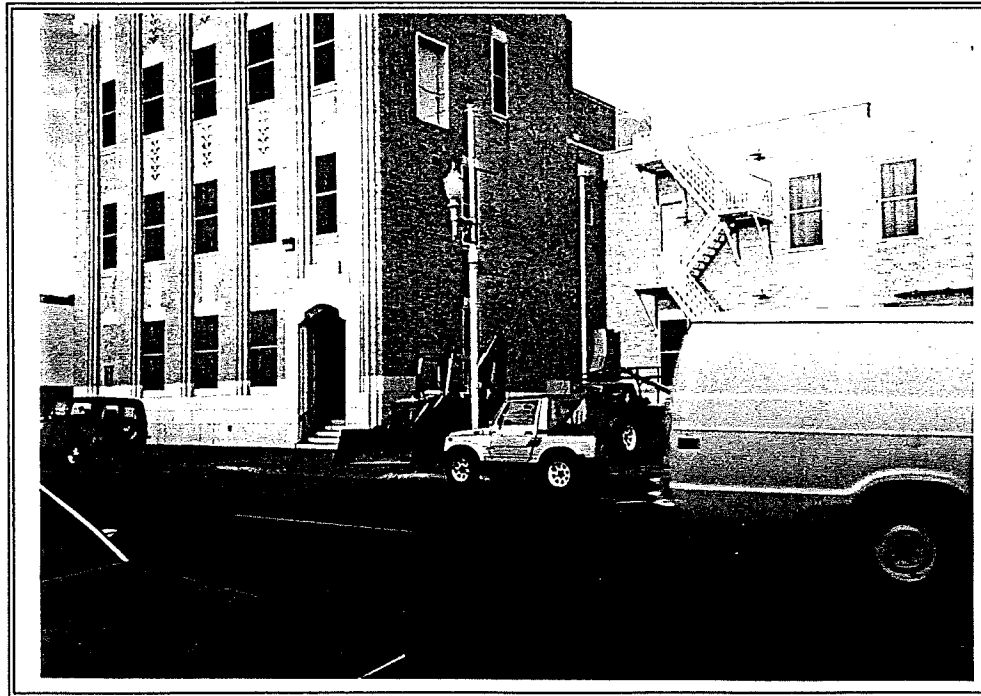


PHOTOGRAPHER: Greg Thurman

DATE: 11/1/94

VIEW: Subject Site

DIRECTION: Looking East



PHOTOGRAPHER: Greg Thurman

DATE: 11/1/94

VIEW: Subject Site

DIRECTION: Looking North

HUNTINGDON, INC.

Job No.: 194-2088

PHOTOGRAPHIC RECORDS

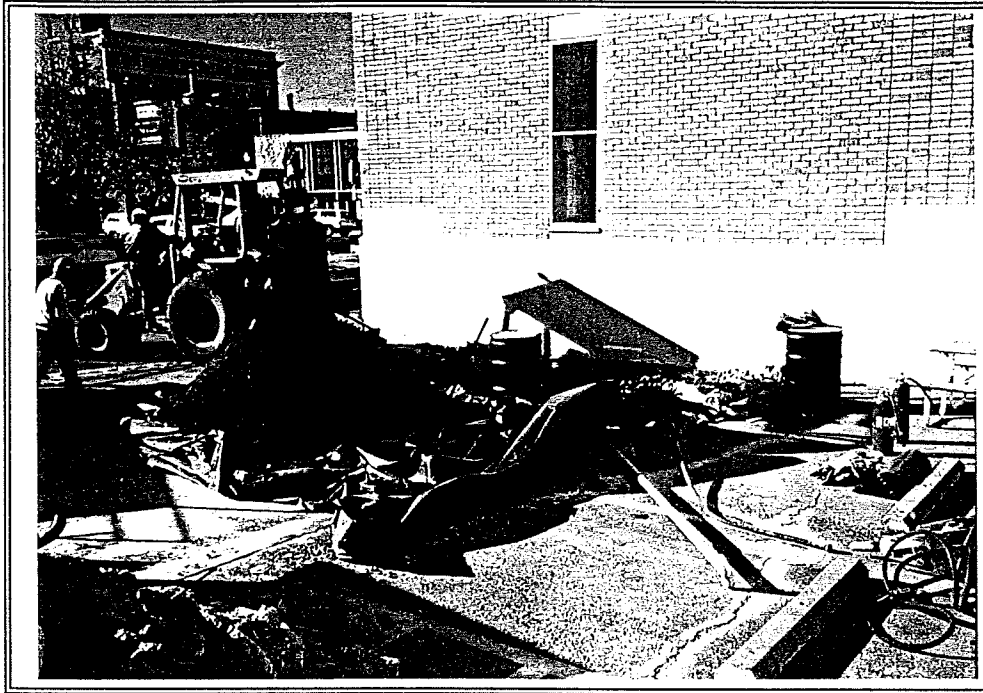
U S WEST COMMUNICATIONS FACILITY
 102 EAST ALDER STREET
 WALLA WALLA, WASHINGTON

DATE:
11/7/94

MOUNTED BY:
SB

REVIEWED BY:
GT

EXHIBIT NO.
A



PHOTOGRAPHER: Greg Thurman

DATE: 11/1/94

VIEW: Tank Excavation Site

DIRECTION: Looking Northwest



PHOTOGRAPHER: Greg Thurman

DATE: 11/1/94

VIEW: Tank Excavation

DIRECTION: Looking North

HUNTINGDON, INC.

Job No.: 194-2088

PHOTOGRAPHIC RECORDS

U S WEST COMMUNICATIONS FACILITY

102 EAST ALDER STREET

WALLA WALLA, WASHINGTON

DATE:
11/7/94

MOUNTED BY:
SB

REVIEWED BY:
GT

EXHIBIT NO.
B



PHOTOGRAPHER: Greg Thurman

DATE: 11/1/94

VIEW: Top of Tank

DIRECTION: Looking West



PHOTOGRAPHER: Greg Thurman

DATE: 11/1/94

VIEW: North Side of Tank

DIRECTION: Looking South

HUNTINGDON, INC.

Job No.: 194-2088

PHOTOGRAPHIC RECORDS

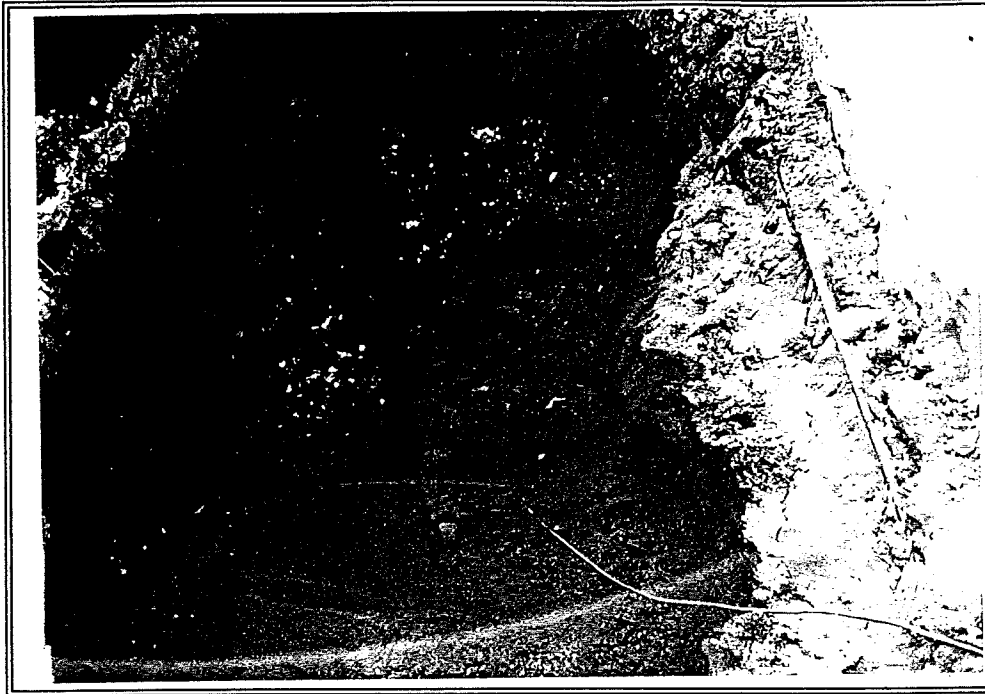
U S WEST COMMUNICATIONS FACILITY
102 EAST ALDER STREET
WALLA WALLA, WASHINGTON

DATE:
11/7/94

MOUNTED BY:
SB

REVIEWED BY:
GT

EXHIBIT NO.
C

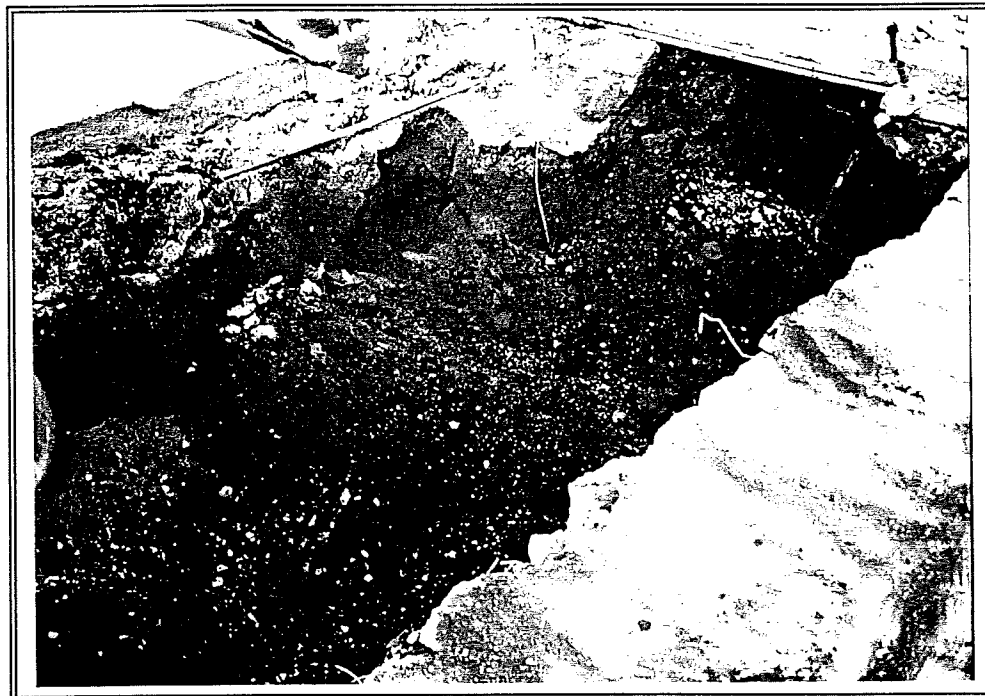


PHOTOGRAPHER: Greg Thurman

DATE: 11/1/94

VIEW: Tank Excavation

DIRECTION: Looking West



PHOTOGRAPHER: Greg Thurman

DATE: 11/1/94

VIEW: Tank Excavation

DIRECTION: Looking North

HUNTINGDON, INC.

Job No.: 194-2088

PHOTOGRAPHIC RECORDS

U S WEST COMMUNICATIONS FACILITY
102 EAST ALDER STREET
WALLA WALLA, WASHINGTON

DATE:
11/7/94

MOUNTED BY:
SB

REVIEWED BY:
GT

EXHIBIT NO.
D

APPENDIX 3

Excavation Logs

APPENDIX 4

Tank Closure Field Forms

HUNTINGDON, INC.
TRI-CITIES, WA
TANK CLOSURE FIELD FORM

Date: 11-1-94

Facility ID#: 010033

Tank No.: 3

Tank Owner's Name & Address:

U S WEST Business Resources, Inc.
421 S.W. Oak Street, Room 6N5
Portland, Oregon 97204
(503) 295-2004

Tank Facility Name & Address:

U S WEST Communications
102 East Alder Street
Walla Walla, Washington

1. Tank Age (years): Unknown
2. Tank Capacity (gallons): 1,000
3. What substance was last stored in the tank?: Diesel Fuel
4. When was tank last used?: 9-94
5. Date of Closure: 11-1-94
6. Type of Closure: Removed from ground

7. Tank Condition and Material of Construction:

(Check any that apply and include description of effected area under comments.)

Condition:

Pitted___ Perforated___ Cracked___ Rusted___ Crushed___ Good Condition_X_

Material of Construction:

Steel_X_ Concrete___ Fiberglass Reinforced Plastic___ Other (please specify)___

8. Piping Condition and Material of Construction:

(Check any that apply and include a description of the affected area under comments.)

Condition:

Pitted___ Perforated___ Cracked___ Rusted___ Crushed___ Good Condition_X_

Material of Construction:

Steel_X_ Galvanized Steel___ Fiberglass Reinforced Plastic___ Other (please specify)___

Comments: Tank appeared to be in good condition.

9. Tank Protection:

(Check any that apply and include a description.)

None___ Cathodic_X_ Ext. Coating___ Interior Lining___ Double Wall___ Other___

Describe: Wires were observed attached to the tank.

10. Closure / Excavation Contractor Name & Address:

PEMCO - Randy Osborne
437 N. Columbia Blvd.
Portland, Oregon 97211
(503) 283-2151

11. Local, County or State Officials who may have witnessed closure Name and Address:

Walla Walla Fire Department N/A
200 S. 12th St.
Walla Walla, Washington 99362
(509) 527-4429

12. Explanation of Excavation Subsurface Investigation:

Smell of Fuel_X_ Discoloration_X_ Free Product___ Sheen on Groundwater___
No Evidence of Contamination___

13. Was Groundwater contact made? Yes___ No_X_

14. Did overexcavation take place? Yes___ No_X_

15. Samples Collected:

Sample No:	Location:	FID/PID Results:	Analysis:
1400110194	Stockpile	43.5	TPH-D
1402110194	Stockpile	211	TPH-D
1403110194	Stockpile	N/A	TPH-D
1515110194	Center Base, 7.5' BGS	32.4	TPH-D
1520110194	North Wall, 5'	N/A	TPH-D
1522110194	South Wall, 5'	N/A	TPH-D
1524110194	East Wall, 4'	45.3	TPH-D
1526110194	West Wall, 4'	N/A	TPH-D

16. Physical characteristics of site:

- a. Border sites (north, south, east, west)
 - North - Alder Street, Commercial
 - South - Alley, Law Office
 - East - Commercial
 - West - 1st Avenue, Coldwell Banker

- b. Depth to groundwater:
 - Estimated to be 12 ft BGS

- c. Subsurface Profile:
 - Native - Sandy GRAVEL with silt and cobbles
 - Fill - Course SAND

- d. Location of nearest surface water: *170 yds*
 - Old Mill Creek - approximately ~~500~~ feet to north

17. Disposal

- a. Tanks: Pemco

- b. Contaminated Soil: Huntingdon/Pemco

- c. Contents of Tank: Pemco

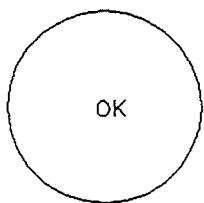
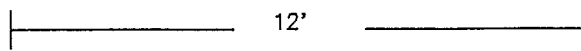
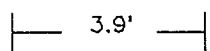
18. Excavation subsoil Log:

19. General observations and comments:

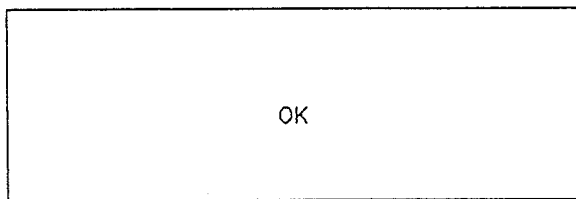
(Please mark diagrams on next page)

Tank appeared to be in good condition with no signs of pitting and very little rusting. Discolored and odorous soil was observed around the fill pipe and extended down both sides of tank. This suggests a release from past overfills and/or a leaking fill pipe. Approximately 15 yds³ of petroleum contaminated soil was removed from the excavation in order to remove the tank and to "clear up" the tank basin. Native soils were encountered at about 7.5 feet BGS. Due to the proximity of the building foundation, the limited working space, and because the site was already impacted by another release, overexcavating activities were not conducted. In general, field observations indicate the release is limited in magnitude and scope.

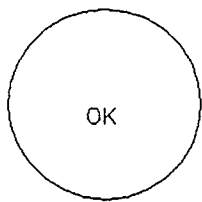
TANK DIAGRAM



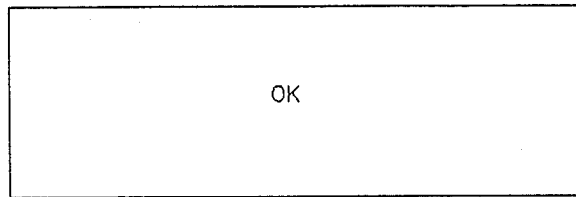
West End



North Side

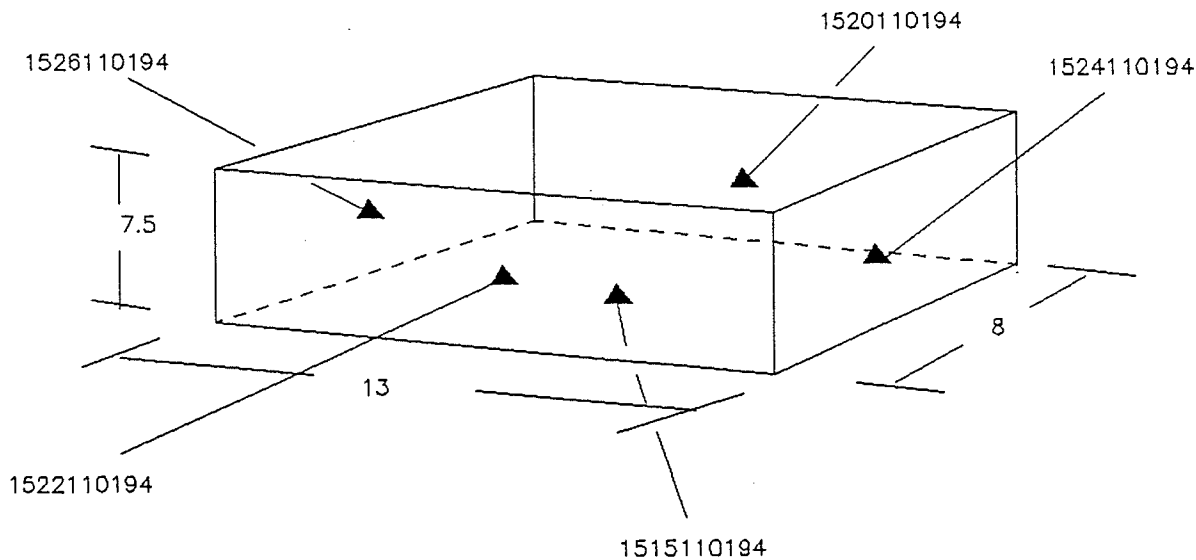
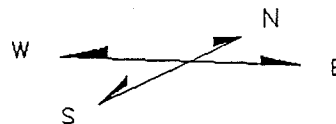


East End



South Side

EXCAVATION DIAGRAM



APPENDIX 5

Laboratory Results

Summary of Analytical Results
Underground Storage Tank Site Assessment
U S WEST Communications Facility
Walla Walla, Washington

Sample No.	Location	Matrix	Concentrations					
			TPH-HCID	TPH-D	Benzene	Toluene	Ethylbenzene	Xylenes
1515110194	Base, 7.5'	Soil		< 22 mg/kg				
1520110194	North Wall, 5'	Soil		< 22 mg/kg				
1522110194	South Wall, 5'	Soil		< 25 mg/kg				
1524110194	East Wall, 4'	Soil		< 22 mg/kg				
1526110194	West Wall, 4'	Soil		< 22 mg/kg				
1400110194	Stockpile	Soil		< 23 mg/kg				
1402110194	Stockpile	Soil		34 mg/kg				
1403110194	Stockpile	Soil		56 mg/kg				



Analytical**Technologies**, Inc.

17400 S.W. Upper Boones Ferry Road, Suite 270

Durham, OR. 97224

(503) 684-0447 (503) 620-0393 (FAX)

ATI I.D. 411523

November 10, 1994

Greg Thurman
Huntingdon E & E
370 Benjamin Lane
Boise, ID 83704

Project Name / Number: UST ESA / 194-2088

Attention: Greg Thurman

On November 3, 1994, Analytical Technologies, Inc. received eight soil samples for analysis for the above listed project. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

If you have any questions or comments, please do not hesitate to contact us at (503)684-0447.

Fred Voosen
Project Manager

Alan J. Kleinschmidt for
Laboratory Manager

AJK:alm
Enclosure



SAMPLE CROSS REFERENCE SHEET

CLIENT:	Huntingdon E & E	ATI I.D.:	411523
PROJECT #:	194-2088		
PROJECT NAME:	UST ESA	MATRIX:	SOIL

ATI #	CLIENT DESCRIPTION	DATE SAMPLED
411523-1	1515110194	11/01/94
411523-2	1520110194	11/01/94
411523-3	1522110194	11/01/94
411523-4	1524110194	11/01/94
411523-5	1526110194	11/01/94
411523-6	1400110194	11/01/94
411523-7	1402110194	11/01/94
411523-8	1403110194	11/01/94

-----TOTALS-----

MATRIX
SOIL

SAMPLES
8

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of the report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.



GAS CHROMATOGRAPHY RESULTS

TEST:	TPH-Diesel (Washington)	ATI I.D.:	411523
CLIENT:	Huntingdon E & E	DATE SAMPLED:	11/01/94
PROJECT #:	194-2088	DATE RECEIVED:	11/03/94
PROJECT NAME:	UST ESA	DATE EXTRACTED:	11/07/94
SAMPLE MATRIX:	SOIL	UNITS:	mg/Kg

RESULTS CORRECTED FOR MOISTURE CONTENT

ATI ID	CLIENT ID	DATE ANALYZED	DF	DIESEL C12 - C24	O-TERPHENYL (59% - 144%)
411523-0	Method Blank	11/07/94	1	< 20	88%
411523-1	1515110194	11/08/94	1	< 22	90%
411523-2	1520110194	11/08/94	1	< 22	96%
411523-3	1522110194	11/08/94	1	< 25	93%
411523-4	1524110194	11/08/94	1	< 22	100%
411523-5	1526110194	11/08/94	1	< 22	102%
411523-6	1400110194	11/08/94	1	< 23	104%
411523-7	1402110194	11/08/94	1	34	101%
411523-8	1403110194	11/08/94	1	56	100%

Analyst: BZ u/9/94Reviewer: CS 11-9-94

GAS CHROMATOGRAPHY DUPLICATE RESULTS

TEST:	TPH-Diesel (Washington)	ATI ACCESSION:	411523
CLIENT:	Huntingdon E & E	QC SAMPLE:	411523-5
PROJECT #:	194-2088	DATE EXTRACTED:	11/07/94
PROJECT NAME:	UST ESA	DATE ANALYZED:	11/08/94
SAMPLE MATRIX:	SOIL	DILUTION FACTOR:	1
		UNITS:	mg/Kg

RESULTS CORRECTED FOR MOISTURE CONTENT

PARAMETER	SAMPLE RESULT	SAMPLE DUP RESULT	RPD
DIESEL	< 22	< 22	N/A
SURROGATE: O-TERPHENYL (59% - 144%)	102%	103%	

CONTROL LIMITS

DIESEL	RPD 23
--------	-----------

 Analyst: RA ulaly

 Reviewer: CS 11-9-94

GAS CHROMATOGRAPHY SPIKE RESULTS

TEST:	TPH-DIESEL (Washington)	ATI ACCESSION:	411523
CLIENT:	Huntingdon E & E	QC SAMPLE:	411523-1
PROJECT #:	194-2088	DATE EXTRACTED:	11/07/94
PROJECT NAME:	UST ESA	DATE ANALYZED:	11/08/94
SAMPLE MATRIX:	Soil	DILUTION FACTOR:	1
		UNITS:	mg/Kg

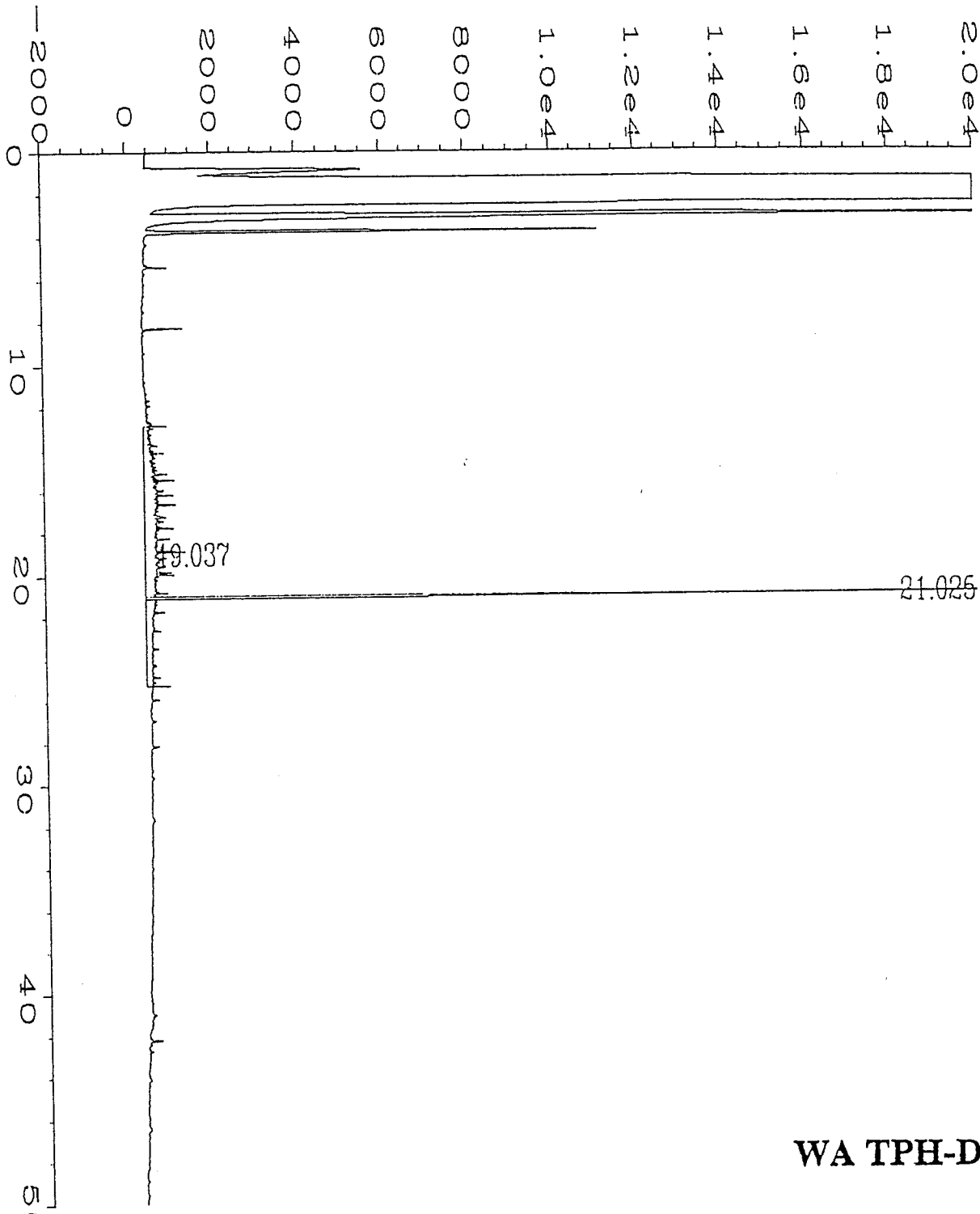
RESULTS CORRECTED FOR MOISTURE CONTENT

PARAMETER	SAMPLE RESULT	SPIKE CONC.	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
DIESEL	< 22	281	280	100	265	94	6
SURROGATE: O-TERPHENYL (59% - 144%)				100%		95%	

CONTROL LIMITS

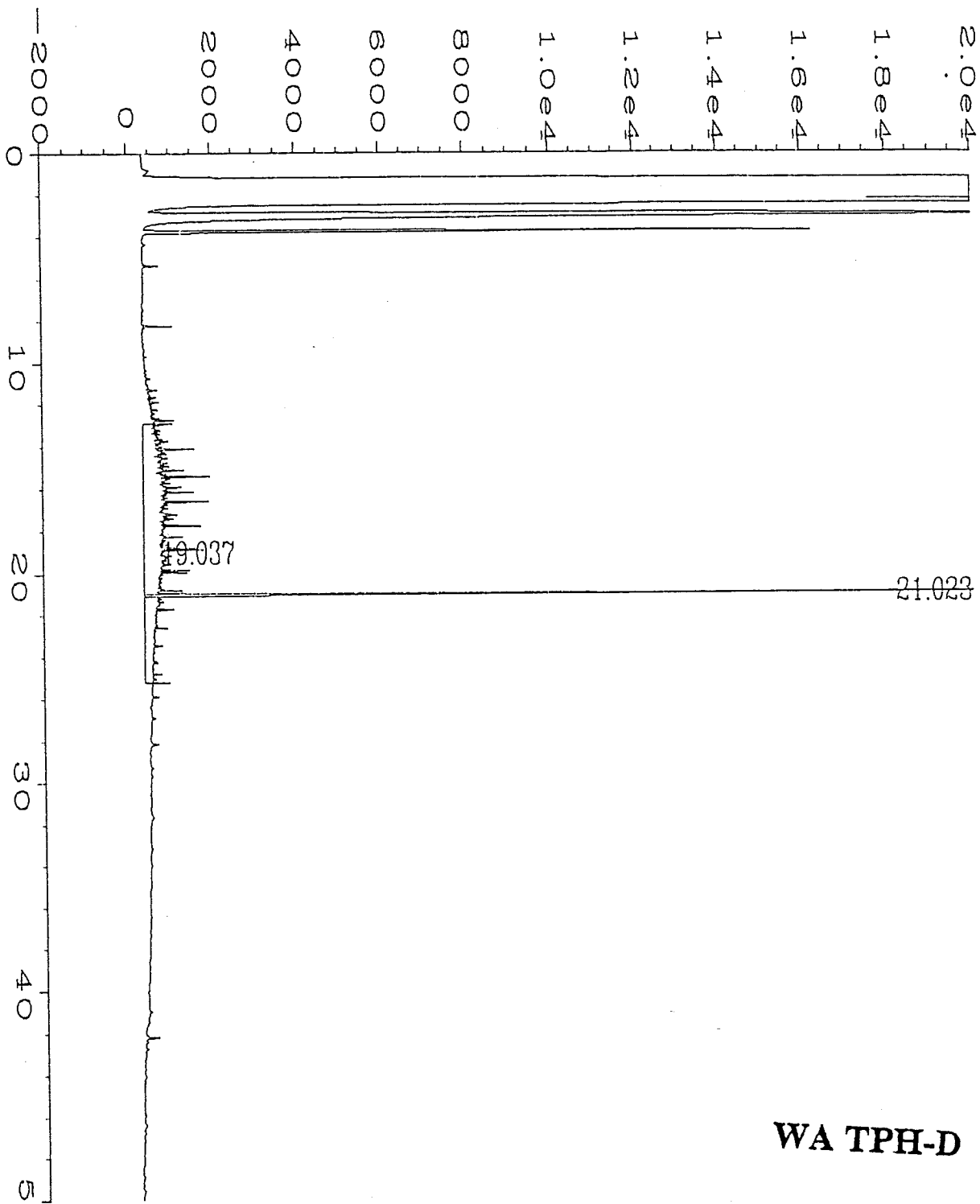
DIESEL	% REC	RPD
	65 - 142	20

Analyst: BJL 11/9/94
 Reviewer: CS 11-9-94



WA TPH-D

Data File Name	: F:\DATA\FUELS\DEEMTER\D\941108\056R0101.D	Page Number	: 1
Operator	: FUELS	Vial Number	: 56
Instrument	: DEEMTER	Injection Number	: 1
Sample Name	: 411523-7	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	OHCID.MTH
Acquired on	: 08 Nov 94 06:00 PM	Analysis Method	: WR-TPHD.MTH
Report Created on:	09 Nov 94 09:44 AM	Sample Amount	: 0
Last Recalib on	: 07 NOV 94 03:45 PM	ISTD Amount	:
Multiplier	: 1		

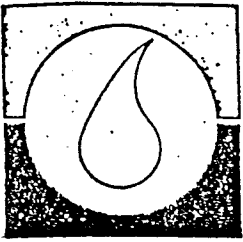


WA TPH-D

Data File Name	: F:\DATA\FUELS\DEEMTER\D\941108\057R0101.D	Page Number	: 1
Operator	: FUELS	Vial Number	: 57
Instrument	: DEEMTER	Injection Number	: 1
Sample Name	: 411523-8	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	OHCID.MTH
Acquired on	: 08 Nov 94 07:03 PM	Analysis Method	: WR-TPHD.MTH
Report Created on:	09 Nov 94 09:46 AM	Sample Amount	: 0
Last Recalib on	: 07 NOV 94 03:45 PM	ISTD Amount	:
Multiplier	: 1		

APPENDIX 6

Disposal Documentation



PEMCO

437 N. Columbia Blvd.
P.O. Box 11569
Portland, Oregon 97211
Office (503) 283-2151
FAX (503) 283-6388

CERTIFICATION OF TANK DISPOSAL

DATE: 11-2-94

JOB NUMBER: 60517

LOCATION FROM WHICH REMOVED: U.S. WEST (WACWA WACWA, WASH)

<u>QUANTITY</u>	<u>SIZE</u>	<u>LAST KNOWN PRODUCT</u>
<u>1</u>	<u>1,000</u>	<u>DIESEL</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

TRANSPORT DRIVER: D. VEJEY

RECEIVING SCRAP YARD: _____

RECEIVED BY: John W. [Signature]

APPENDIX 7

WDOE Action Levels

SUMMARY OF WASHINGTON STATE DEPARTMENT OF ECOLOGY ACTION LEVELS

In March 1989, a toxic waste cleanup law went into effect in Washington. Passed as Initiative 97, this law is known as the Model Toxics Control Act (MTCA), Chapter 70.105D RCW. In developing the Act's cleanup regulation, the Washington State Department of Ecology established cleanup standards and requirements for cleanup actions.

Cleanup levels are established for carcinogenic and noncarcinogenic substances. MTCA provides three options for establishing site-specific cleanup levels or action levels. The following summarizes the options or methods outlined in the Act.

METHOD A Defines action levels for 25 of the most common hazardous substances found at sites. This method is designated for cleanups that are relatively straightforward or involve only a few hazardous substances, all of which must be listed on the Method A tables. Method A action levels are the most stringent.

METHOD B Levels are established using site risk assessments which are dependent upon site specific characteristics, i.e. how hazardous substances interact, the combined health effects of the substances, and how their movement on-site and off-site could threaten human health and the environment.

The risk level for individual carcinogens cannot exceed one-in-a-million. When more than one type of substance is present, the total risk at the site may not exceed 1 in 100,000. Noncarcinogenic substances may not exceed levels at which human illness may result. This method is generally used when sites are impacted by substances not listed under Method A. It is considered less stringent than Method A.

METHOD C Levels are similar to Method B, but the lifetime cancer risk is set at 1 in 100,000 for both individual substances and for the total risk caused by all site substances. Method C is used when cleanup levels under Method A or B are not achievable, or may cause more harm to the environment. When this method is used, data must be provided that cleanup levels will protect both human health and the environment. It is considered less stringent than Method A or Method B and is usually reserved for industrial sites.

In some cases, action levels are set at concentrations lower than what can be reliably measured using sampling and analytical methods. When these cases occur, the lowest reliable measurement is used (WAC 173-340, 1991). Method A action levels were used in this study and are the most stringent.

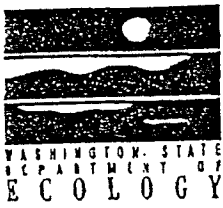
**Washington Department of Ecology
Action Levels for Petroleum Releases***

Constituent	CAS No.	Groundwater	Soil
Benzene	71-43-2	1.0 ug/L	0.5 mg/kg
Toluene	108-88-3	40.0 ug/L	40.0 mg/kg
Ethylbenzene	100-41-4	30.0 ug/L	20.0 mg/kg
Xylenes	1330-20-7	20.0 ug/L	20.0 mg/kg
TPH (gasoline)	--	1000.0 ug/L	100.0 mg/kg
TPH (other)	--	1000.0 ug/L	200.0 mg/kg
Lead	7439-92-1	5.0 ug/L	250.0 mg/kg

* Adapted from Guidance for Remediation of Releases from Underground Storage Tanks, Washington State Department of Ecology, Toxics Cleanup Program, p.74

APPENDIX 8

WDOE UST Closure/Assessment Documentation



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: 610033258

Site: 010033

SW

SITE INFORMATION:

Site ID Number (on invoice or available from Ecology if the tank is registered): 010033

Site/Business Name: U S WEST (W00397)

Site Address: 102 E ALDER ST
WALLA WALLA
 City: WA State: WA ZIP-Code: _____

Owner/Operator Telephone: (206) 623-4032

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 production from the tank? (yes/no)	Is no date tank was pumped
<u>3</u>	<u>9/94</u>	<u>1028 gal</u>	<u>oil</u>	<u>5/94</u>	<u>?</u>	

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: _____ Contact Name: _____

Telephone: (____) _____

Address: _____
 Street P.O. Box
 City State 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: POPPERMAN EQUIPMENT INC - REMO

Contact Name: _____

Telephone: 503 283-2197

Address: _____
 Street P.O. Box
 City State ZIP-Code

This form will be returned to this address

UST OWNER/ OPERATOR: U S WEST

MAILING ADDRESS: 1600 TRAV. Rm 1501
SEATTLE WA 98191
 City State ZIP-Code

Once validated by Ecology, this form serves as your temporary permit for the tanks listed above.

Please type or print information

ECY 020-33

Muirhead Sail
745 N 11th

FIRE DEPARTMENT
CITY OF WALLA WALLA

1-1000 gal @

PERMIT

LELO

O2 20.9

For Keeping, Storage, Use, Manufacture, Handling, Transportation, or other Disposition of Flammable, Combustible, or Explosive Materials, as stated below:

No. 110194-01

11-1-94
(Date)

TO WHOM IT MAY CONCERN:

By virtue of the provisions of the Fire Prevention Ordinance of the City of Walla Walla,

PEMCO
(Name of Concern)

No. 102 Street, 1st conducting a US West #6577
(Business)

having made application in due form, and as the conditions, surroundings, and arrangements are, in my opinion, such that the intent of the Ordinance can be observed, authority is hereby given and this PERMIT is GRANTED for

UST Removal

This PERMIT is issued and accepted on condition that all Ordinance provisions now adopted, or that may hereafter be adopted, shall be complied with.

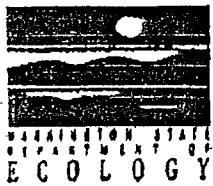
THIS PERMIT IS VALID FOR 11-1-94

This permit does not take the place of any License required by law and is not transferable. Any change in the use or occupancy of premises shall require a new permit.

Glen W. Johnson
By Order of the Chief of Fire Department

Issued by Fire Prevention Bureau Officer

THIS PERMIT MUST AT ALL TIMES BE KEPT POSTED ON THE PREMISES MENTIONED ABOVE



**UNDERGROUND TANK
TEMPORARY/PERMANENT CLOSURE
and SITE ASSESSMENT NOTICE**

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

For Office Use Only
Owner # 40005258
Site # 010033

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

SITE INFORMATION:

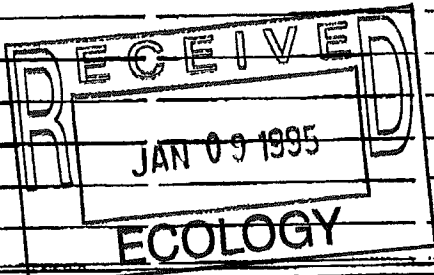
Site ID Number (on invoice or available from Ecology if the tanks are registered): 010033
Site/Business Name: US WEST Communications
Site Address: 102 East Alder St. Telephone: (____) _____
Walla Walla WA 99362
City State ZIP Code

TANK INFORMATION:

Tank ID	Closure Date	Tank Capacity	Substance Stored
<u>3</u>	<u>11-1-94</u>	<u>1000</u>	<u>Diesel Fuel</u>

**CONFIRMATION
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:

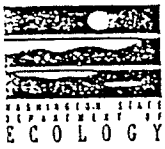
UST Owner/Operator: US WEST Business Resources
Owners Signature: [Signature] Telephone: (503) 242-8924
Address: 421 S.W. Oak, Room 4N13
Portland OR 97204
City State ZIP Code

TANK CLOSURE/CHANGE-IN-SERVICE PERFORMED BY:

Service Provider: PEMCO License Number: 5001205
Licensed Supervisor: Bruce Cleveland Decommissioning License Number: W000293
Supervisors Signature: _____
Address: 437 N. Columbia Blvd 11569
Portland OR 97211
City State ZIP Code
Telephone: (503) 283-2151

SITE CHECK/SITE ASSESSMENT CONDUCTED BY:

Name of Registered Site Assessor: Greg Thurman - Huntington Engineering
Telephone: (509) 547-1671
Address: 2214 N. 4th Ave WA 99301
Pasco City State ZIP Code



UNDERGROUND STORAGE TANK
Site Check/Site Assessment Checklist

E

For Office Use Only
 Owner # U0005258
 Site # 010033

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.

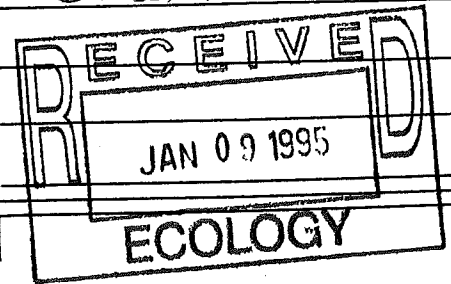
Underground Storage Tank Section
 Department of Ecology
 P. O. Box 47655
 Olympia, WA 98504-7655

SITE INFORMATION

Site ID Number (on invoice or available from Ecology if the tanks are registered): 010033
 Site/Business Name: US WEST Communications Facility
 Site Address: 102 East Alder St. Telephone: (503)
Street
Walla Walla WA 99362
City State ZIP-Code

TANK INFORMATION

Tank ID No.	Tank Capacity	Substance Stored
<u>3</u>	<u>1</u>	<u>Diesel Fuel</u>



REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT

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

CHECKLIST

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

YES NO

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

SITE ASSESSOR INFORMATION

<u>Greg Thurman</u> PERSON REGISTERED WITH ECOLOGY	<u>Huntingdon</u> FIRM AFFILIATED WITH
BUSINESS ADDRESS: <u>2314 N. 4th Ave</u>	TELEPHONE: <u>(509) 547-1671</u>
<u>Pasco</u> CITY	<u>WA</u> STATE
	<u>99301</u> 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.	
<u>12-10-94</u> Date	<u>Greg Thurman</u> Signature of Person Registered with Ecology



UNDERGROUND STORAGE TANK

Permanent Closure/Change-In-Service Checklist

40005258

010033

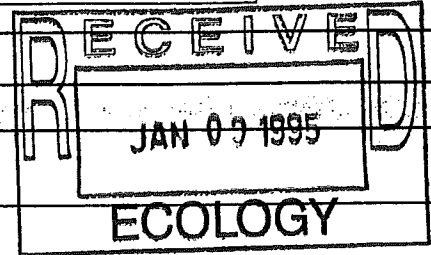
The purpose of this form is to certify the proper closure/change-in-service of underground storage tank (UST) systems. These activities must be conducted in accordance with Chapter 173.360 WAC. Washington State UST rules require the tank owner or operator to notify Ecology in writing 30 days prior to closure or change-in-service of tanks. This must be done by completing the 30 Day Notice form (ECY 010-155).

This Permanent Closure Checklist shall be completed and signed by a Licensed Decommissioning Supervisor. The supervisor shall be on site when all tank permanent closure/change-in-service 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. If any of the activities listed below have been supervised by a different licensed supervisor, a separate checklist must be filled out and signed by the licensed supervisor performing those activities.

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

A separate checklist must be completed for each UST system (tank and associated piping), except that UST systems at one site may be reported together by completing page 2 of this form separately for each system. The completed checklist should be mailed to the following address within 30 days of the completion of the closure or change-in-service.

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



1. UST SYSTEM OWNER AND LOCATION

Site Owner/Operator: U.S. WEST, Business Resources

Owners Address: 421 S.W. Oak, Room 4N13

Street
Portland OR 97204
City State ZIP-Code

Telephone: (503) 242-8924

Site ID Number (on invoice or available from Ecology if tank is registered): 010033

Site/Business Name: U.S. WEST Communications

Site Address: 102 East Alder St Walla Walle

Street County
Walla Walle WA 99362
City State ZIP-Code

2. TANK PERMANENT CLOSURE/CHANGE-IN-SERVICE PERFORMED BY:

Firm: Pemco License Number: SC01205

Address: 437 N. Columbia Blvd PO Box 11569

Street P.O. Box
Portland Oregon 97211
City State ZIP-Code

Telephone: (503) 299-7541

Licensed Supervisor: Ronald Fisher Decommissioning License Number: 01-026 95
CR 11004

3. TANK CLOSURE/CHANGE-IN-SERVICE INFORMATION

1. Tank ID Number (as registered with Ecology): _____ 2. Year installed: _____
3. Tank capacity in gallons: 1000 4. Date of last use: 10-31-94
5. Last substance stored: Diesel 6. Date of closure/change-in-service: 11-1-94
7. Type of closure: Closure with Tank Removal In-place Closure Change-in-Service
8. If in-place closure is used, the tank has been filled with the following substance: _____
9. If change-in-service, indicate new substance stored in tank: _____
10. Local permit(s) (if any) obtained from: Fire Dept City of Walla Walla
- Always contact local authorities regarding permit requirements.
11. Has a site assessment been completed? Yes No

Unless an external release detection system is operating at the time of closure or change in service, and a report is provided as specified in WAC 173-360-390, a site assessment must be conducted. This site assessment must be conducted by a person registered with the Department of Ecology to perform site assessments. Results of the site assessment must be included with the Site Assessment Checklist (ECY 010-158).

4. CHECKLIST

Each item of the following checklist shall be initialed by the licensed supervisor whose signature appears below.

	Yes	No	NA*
1. Has all liquid been removed from product lines?	Ro		
2. Has all product piping been capped or removed?	Ro		
3. Have all non-product lines been capped or removed?	Ro		
4. Have all liquid and accumulated sludges been removed from the tank?	Ro		
5. Has the tank been properly purged or inerted?	Ro		
6. Have the drop tube, fill pipe, gauge pipe, pumps and other tank fixtures been removed?	Ro		
7. Have all tank openings been plugged or capped? NOTE: One plug should have 1/8 inch vent hole.	Ro		
8. Have all sludges removed from the tank been designated and disposed of in accordance with the state of Washington's dangerous waste regulations (Chapter 173-303 WAC)?	Ro		
9. If removed, was tank properly labeled and disposed of in accordance with all applicable local, state and federal regulations?			

*Item not applicable

I hereby certify that I have been the licensed supervisor present on site during the above listed permanent closure activities and to the best of my knowledge they have been conducted in compliance with all applicable state and federal laws, regulations and procedures pertaining to underground storage tanks.

Persons submitting false information are subject to penalties under Chapter 173.360 WAC.

11-1-94 _____
Date Signature of Licensed Supervisor

5. ADDITIONAL REQUIRED SIGNATURES

11-7-94 _____
Date Signature of Licensed Service Provider (firm) Owner or Authorized Representative

11/4/95 _____
Date Signature of Tank Owner or Authorized Representative