

Stevens Healthcare
(former Cross Property)

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Phase I Environmental
Site Assessment Report
Former Cross Property
Edmonds, Washington

September 16, 1997



For
Stevens Healthcare

September 16, 1997

Consulting Engineers
and Geoscientists
Offices in Washington,
Oregon, and Alaska

Stevens Healthcare
21601 76th Avenue West
Edmonds, Washington 98026

Attention: Greg Andrews

GeoEngineers is pleased to submit two copies of our "Phase I Environmental Site Assessment (ESA) Report" for the former Cross Property site in Edmonds, Washington. Our services were completed in general accordance with our proposal dated August 7, 1997. We received written authorization for our services from Greg Andrews on August 12, 1997.

We appreciate the opportunity to work with Stevens Healthcare on this project. Please contact us if you have questions regarding this report or other aspects of the project.

Yours very truly,

GeoEngineers, Inc.



Kurt R. Fraese
Associate

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Stevens Hospital - Cross Property

Table No.

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Site Plan

1997 Site Photograph

1976 Aerial Photograph

Figure No.

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Appendix A - Phase I ESA Statement of Qualifications

Appendix B - SEACOR Report

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Appendix D - SEACOR - Site Plan

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**PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT
FORMER CROSS PROPERTY
EDMONDS, WASHINGTON
FOR
STEVENS HEALTHCARE**

1.0 INTRODUCTION

This report summarizes the results of our Phase I Environmental Site Assessment (ESA) of the former Cross Property located at 21700 Highway 99 in Edmonds, Washington. This property is referred to herein as the "site."

The site is shown relative to surrounding physical features in Figure 1. The general site layout and surrounding property use is shown in Figure 2. A panoramic photograph of the site is presented in Figure 3. Our study was completed at the request of Greg Andrews of Stevens Hospital.

We understand that Stevens Healthcare is considering leasing the site. We further understand that the results of this Phase I ESA will be used by Stevens Healthcare as part of their evaluation of environmental liabilities associated with entering into a lease agreement.

1.1 SCOPE OF SERVICES

The purpose of this Phase I ESA is to evaluate the presence or likely presence of hazardous substances, including petroleum products, that may have resulted from current or past activities on the site or in the site vicinity. GeoEngineers' qualifications for performing ESAs are presented in Appendix A.

GeoEngineers' scope of services was completed in general accordance with American Society for Testing Materials (ASTM) Standard E1527-97 for Phase I ESAs. Our specific scope of services completed for this Phase I ESA is as follows:

1. Review readily available geotechnical reports, environmental reports, and/or other relevant documents pertaining to environmental conditions at the subject site.
2. Review federal, state and local environmental databases provided by Environmental Data Resources (EDR) for listings of known or suspected environmental problems at the site or nearby properties. The specific databases and minimum search distances reviewed included the following:

<u>U.S. Environmental Protection Agency (EPA) Lists</u>	<u>Minimum Search Distance</u>
---	--------------------------------

- | | |
|---|----------|
| a. National Priorities List (NPL) | 1 mile |
| b. Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) | 0.5 mile |
| c. Resource Conservation and Recovery Act (RCRA), Corrective Action Report (CORRACTS) Facilities List | 1 mile |

- d. RCRA non-CORRACTS Facilities List 0.5 mile
- e. RCRA Notifiers List, Generators and Transporters Site and Adjoining Properties
- f. Emergency Response Notification System (ERNS) List Site

State and Local Health Department Lists

- a. Washington State Department of Ecology (Ecology) Toxics Cleanup Program Confirmed & Suspected Contaminated Sites (C&SCS) List 0.5 mile
- b. Model Toxics Control Act (MTCA) Site Register 1 mile
- c. Ecology Registered Underground Storage Tank (UST) Sites List Site and Adjoining Properties
- d. Ecology Leaking UST (LUST) Sites List 0.5 mile
- e. Solid Waste Disposal Facilities 0.5 mile

- 3. Review regulatory agency files regarding listed sites of potential environmental concern, if necessary.
- 4. Identify key persons with specific knowledge of past and present site use and request that the owner or owner representative meet a GEI representative on site for an interview during the site reconnaissance. Interview others familiar with past and present uses of the site and its vicinity as necessary.
- 5. Interview a representative of the local fire department, health department, and/or Ecology regarding the history of the subject site and surrounding properties relative to the likely presence of hazardous substances.
- 6. Review historical aerial photographs, fire insurance maps, city directories, tax assessor records, other historical maps and building department records, as available and appropriate, to identify past development history on and adjacent to the site relative to the possible use, generation, storage, release or disposal of hazardous substances. We attempted to identify uses of the site from the present to the time that records show no apparent development of the site or to 1940, whichever is earlier.
- 7. Review current USGS topographic maps to identify the physiographic setting of the site.
- 8. Identify the sources of potable water for the site; the type of heating and cooling systems for site structures; and the type of the sewage disposal systems used at the site.
- 9. Provide a statement on the local geologic, soil and ground water conditions, based on our general experience and sources such as geologic maps and soil surveys.
- 10. Conduct a visual reconnaissance of the site and adjacent properties to identify any visible evidence of possible contamination and potential sources of contamination.

Our scope of services did not include an environmental compliance audit, asbestos survey, lead-based paint survey, an evaluation of the potential presence of polychlorinated biphenyls (PCBs) in light ballasts, lead in drinking water, or urea-formaldehyde insulation in on-site

structures. Specific contamination evaluation activities such as soil or ground water sampling and chemical analysis, were not included in this scope of services. If requested, we can provide additional information regarding these services.

1.2 INVOLVED PARTIES

The site is currently owned by Stevens Healthcare. The site formerly was owned by the Cross family who operated an automobile wrecking yard at the site.

1.3 PREVIOUS ENVIRONMENTAL STUDIES - FORMER CROSS SITE

We reviewed the following reports related to subsurface characterization on the former Cross Property: "Preliminary Soil Sample Results...South and Adjacent to Kruger Clinic" dated October 4, 1993 by Seacor Inc. and "Comments on Seacor Report Dated October 4, 1993" dated October 29, 1993 by Landau Associates Inc. Copies of these reports are presented in Appendix B.

Seacor monitored the drilling of 4 monitoring well borings (OMW-1 through OMW-4) on the north-central portion of the site. The borings were drilled to 25 feet below ground surface (bgs) and well screens were installed from 10 to 25 feet bgs. Five soil samples from each boring (20 samples total) were submitted for testing of HVOCs by EPA Method 8010. One soil sample (OMW-2-25.5) located at a depth of 25.5 feet bgs contained tetrachloroethene (PCE) at concentrations exceeding the MTCA Method A cleanup level of 0.5 mg/kg PCE. Ground water was not encountered in any of the monitoring wells that were installed on the site. Seacor also obtained 14 soil samples for chemical analysis from 12 soil and monitoring well borings on the adjacent Kruger Property (a former wrecking yard). PCE was not detected in any of the soil samples tested from the Kruger Property.

Landau's October 29, 1993 letter identifies concerns with Seacor's technical approach. Landau suggests that: (1) data quality may be questionable because three different laboratories were used to test soil and ground water samples on the Kruger and Cross sites, (2) the distribution of soil samples tested on the Kruger (14 for 12 borings) and Cross (20 for 4 borings) properties presents a sampling bias, (3) utilizing the MTCA Method B cleanup level for PCE (19.6 mg/kg) may be appropriate, (4) the source of the PCE is unknown but probably related to automobile parts washing that occurred at both the Kruger and Cross sites, (5) the ground water beneath these sites is not of beneficial use and a risk based cleanup approach may be applicable. However, there currently is no information related to impacts, if any, to a deeper regional aquifer.

2.0 GENERAL SITE CHARACTERISTICS

2.1 LOCATION AND LEGAL DESCRIPTION

The site is located at 21700 Highway 99 in Edmonds, Washington. The site is in the southwest quarter of the northwest quarter of Section 29, Township 27 North, Range 4 East of the Willamette Meridian.

2.2 SITE RECONNAISSANCE OBSERVATIONS

2.2.1 General Observations

Representatives of GeoEngineers visited the site on August 27, 1997 to complete a site reconnaissance. Tom Goodson, maintenance department manager, for Stevens Healthcare met us on site (our interview with Mr. Goodson is presented in the "Interviews" section below). The site is approximately 122,000 square feet, fenced and consists of undeveloped lots except for buildings that occupy the southeast portion of the site. The approximate locations of the features discussed in this section are shown in Figure 2. A site photograph is presented in Figure 3. Site features of potential environmental significance observed during our reconnaissance are discussed below.

We observed the following on the site:

- Four monitoring wells (OMW-1 through OMW-4) are located near the north property boundary. We attempted to measure the ground water level in each well, however each well was dry. We measured the base of the wells at approximately 30 feet below ground surface.
- The southeastern portion of the site contains a carport building with a concrete floor and a former shop building (oriented east-west); a wash rack area with a 2.5 wide- by 4-foot long drain, a former maintenance garage area (oriented north-south); former warehouse and parts building and a former office building. The carport area currently is used to store Stevens Healthcare's tractors, vehicles and other equipment. The buildings are used to store files and used hospital equipment. We observed minor petroleum stains on the concrete slabs within the shop area and maintenance garage. However, no cracks or underground facilities were observed in these buildings.
- A vent pipe for an estimated 500-gallon used oil UST is located immediately west of the carport building. Mr. Goodson indicated that to his knowledge the UST remains in the ground. He did not know whether the UST still contained any petroleum.
- A large (2.5 ft X 4 ft) drain is located adjacent to a former steam cleaner shed. It appears that the area surrounding the drain was used as an automobile and parts wash area (wash rack).
- A round floor drain is located south of the warehouse building. This drain is located approximately 50 feet north of the wash rack drain.

- Three drains are located north of the warehouse building. Two of the drains are located immediately north of the building and the third drain (catch basin) is located approximately 40 feet north of the northwest building corner.
- A large (approximately 250 cubic yards) soil stockpile is located in the central portion of the site, immediately west of the fence that divides the site in half.

2.2.2 Site Improvements

The site is occupied by several buildings located in the southeast corner of the property. The buildings apparently were used by the Cross Autowrecking operations for automobile disassembly, parts storage and cleaning and offices.

2.2.3 Pits, Ponds or Lagoons

No pits, ponds or lagoons were observed on the site.

2.2.4 Site Drainage

Surface drainage at the site appears to be directed toward a limited number of catch basins and drains in the vicinity of the warehouse. The catch basins are connected to the City of Edmonds storm sewer system. Surface water runoff is appears to be to the east, and southeast based on site topography. We understand that standing water formerly was present in the northeast quadrant of the site. We understand that Stevens Healthcare installed a french drain in this area to control surface water collection. This area of the site was dry at the time of our site visit.

2.2.5 Stressed Vegetation, Stained Soil or Pavement

No stressed vegetation or significant areas of stained soil or pavement, believed to be associated with hazardous substances, was observed on the site.

2.2.6 Water Wells, Sumps and Drains

Several surface drains were observed in the southeast corner of the site and four monitoring wells observed in the northern portion of the site as discussed in Section 2.2.1 and shown in Figure 2.

2.2.7 Areas of Standing Water or Other Liquids

No areas of standing water or other liquids were observed on the site.

2.2.8 Waste Generation and Disposal

We did not observe any evidence of waste generation or disposal at the site.

2.2.9 Storage Tanks and Containers

We observed a vent pipe for one UST as described in Section 2.2.1. We understand that the UST was used to store used oil. We did not observe any other storage tanks or significant containers.

2.2.10 Indications of PCBs, Transformers and Utilities

We did not observe evidence of PCBs on the site. The site is serviced by the City of Edmonds storm and sanitary sewer systems. Potable water is provided to the site by the City of Edmonds. Heat for the buildings is provided by electricity.

2.2.11 Radon

We contacted the Washington State Department of Health (DOH) regarding the potential for radon gas in Western Washington. According to DOH, the potential for radon gas in the Puget Sound region is very low. It is estimated that only one percent of houses in the Puget Sound region have radon gas concentrations exceeding 4 picocuries per liter (pCi/L). The national average for radon gas concentrations in building structures is 4 pCi/L. According to DOH, radon gas is typically not a problem in larger buildings that have forced air or better ventilation.

We also contacted the Environmental Protection Agency's (EPA) Radiation Protection Program. EPA representatives concur with the opinion of DOH regarding the radon gas potential in the Puget Sound region. Additionally, EPA suggested that radon gas concentrations in the Puget Sound region are low for the following reasons: (1) a low uranium content in soils (radon gas is a decay product of uranium 238), (2) moist soil conditions (moisture inhibits radon movement), and (3) a high degree of fines in soil (lower permeability soils inhibit radon gas movement).

Based on our conversations with personnel from the EPA and DOH, it is our opinion that the potential for radon gas at concentrations in excess of 4 pCi/L at the site is low.

2.3 ADJACENT PROPERTY AND VICINITY OBSERVATIONS

The site is surrounded by commercial properties. We observed the following surrounding property use:

North - Kruger Clinic: The Kruger Clinic property (formerly a wrecking yard) consists of one large medical clinic building surrounded by asphalt paved parking lots. We observed 5 abandoned boring locations in the southwest portion of the Kruger Clinic parking lot. We also observed one monitoring well in this area. We observed a large asphalt patch north of the borings and a smaller asphalt patch east of the northernmost boring.

South - Top Foods Property; We observed a large grocery store building surrounded by asphalt paved parking lots on this property. A 7/11 mini-mart and gas station was observed northeast

of the Top Foods building. The 7/11 is located at the northwest corner of 220th Street SW and Highway 99.

East - Highway 99 and Commercial Properties; We observed Highway 99 and several commercial properties east of the site. The commercial properties consisted of Haveys Bike Shop, Convalescent Equipment, Shaffner VW car repair, Jeffs Auto Repair and Montes Clutch & Brake. An apparent residence is also located across Highway 99, east of the site.

West - Stevens Hospital; We observed buildings and parking lots associated with Stevens Hospital, west of the site. We did not observe any significant evidence of the past or present generation use, storage disposal or release of hazardous substances on adjacent properties. With the exception of the nearby gasoline station.

3.0 ENVIRONMENTAL SETTING

Our knowledge of the general physiographic setting, geology and ground water occurrence in the site vicinity is based on our review of the United States Geological Survey (USGS) Edmonds East Quadrangle Topographic Map, dated 1953 (photorevised 1981); the EDR report (Appendix C); the "Preliminary Surficial Geologic Map of the Edmonds East and Edmonds West Quadrangles, Snohomish and King Counties, Washington" dated 1975; our review of borings logs prepared for the site; and our general experience in the area.

3.1 REGIONAL PHYSIOGRAPHIC CONDITIONS

The site is located within the Hall Creek surface water drainage system. Hall Creek is located approximately 600 feet east of the site. The surface elevation of the site is approximately 360 feet above mean sea level. The subject site is located approximately 1 mile north of Lake Ballinger. Hall Creek flows from north to south into Lake Ballinger.

3.2 SOIL AND GEOLOGIC CONDITIONS

The site and its vicinity are underlain by dense layers of brown silty sand and coarse to fine sand. It is suspected that the sand and silty sand was deposited by Hall Creek and tributary streams. Although not described in the borings for the site, glacial till, (Vashon), is mapped as being present beneath the site. Vashon till consists of very dense, poorly sorted clay, silt, sand, and gravel. It is currently unknown where the top of the glacial till is beneath the subject site. However, it appears to be located at depths greater than 30 feet bgs because boring logs indicate sandy silt (Hall Creek deposit) at approximately 30 feet bgs.

3.3 GROUND WATER CONDITIONS

According to the EDR report, water wells located in the general vicinity of the site contain ground water approximately at depths ranging from 9 feet (likely perched on glacial till) to 330

feet bgs. Four monitoring wells, installed to 30 feet bgs on the north portion of the subject site by Seacor did not encounter ground water. However, it is suspected that shallow ground water, where present, is perched on top of the glacial till beneath the site. In our opinion, the direction of shallow ground water flow beneath the site likely is toward the southeast based on local topography, the location of the Hall Creek, and our experience in the area.

Ground water has been measured in 3 monitoring wells between 6 and 24 feet bgs. Seacor has suggested that the ground water flow direction was to the north on the Kruger site. However, based on our review of their reports this flow direction is not supported because no more than two wells contained water at any one time. Additionally, the wells on the Cross property have been consistently dry and were not used to evaluate ground water flow by Seacor.

4.0 ENVIRONMENTAL RECORDS REVIEW

GeoEngineers reviewed pertinent environmental records (regulatory lists) for those facilities that currently or previously have occupied properties within an ASTM-specified distance from the subject site. The information reviewed was provided by EDR. The EDR report is included in Appendix C. The report includes details regarding the listed facilities identified and maps showing the locations of the listed facilities. A summary of the listed facilities identified is presented in Table 1.

The subject site was identified in the UST records. According to the UST list a 111 to 1,100 gallon underground storage tank constructed of unprotected-steel was installed in 1964 at the site. The owner was listed as Cross Enterprises Inc. The UST was designated for use as a used oil/waste oil receptor. It is unknown whether used oil remains in the tank. Additional details regarding this UST are discussed in Sections 2.2.1 and 6.2 of this report.

Facilities found within the specified distances from the subject site were evaluated for potential impact to the subject site. The listed facilities either are located a significant distance (1/4 mile or greater) from the site or are located in an inferred down- or cross-gradient location relative to the site with the exception of the Kruger Clinic site (former wrecking yard) located immediately north of the subject site. In our opinion, the potential for significant site contamination originating from one or more of the listed facilities identified in Table 1 is low with one exception. Soil and/or ground water contamination by hazardous substances originating from the former wrecking yard on the Kruger Clinic property may have impacted the subject site. Local topography and soil conditions suggest that the Kruger property may be located in an upgradient or cross gradient position relative to the subject site. We reviewed the reports on file at Ecology for the Kruger Clinic property because of its proximity to the subject site and our knowledge that previous work on the Kruger property included soil testing on the subject site. The results of the previous studies completed on the subject site are discussed in Section 1.3. The results of the Kruger Clinic property evaluation.

5.0 ECOLOGY FILES REVIEW

We reviewed the following reports and information in the Ecology file for the Kruger Clinic site:

- Phase I Environmental Assessment, Kruger Clinic" dated December 21, 1992 by Seacor.
- Phase II Subsurface Investigation" dated February 5, 1993 by Seacor.
- Results of Additional Subsurface Investigation, Kruger Clinic" dated March 24, 1993 by Seacor.
- Preliminary Soil Sample Results.... Stevens Memorial Hospital Property" dated October 4, 1993 by Seacor.
- Independent Remedial Action Report" dated October 14, 1994 by Seacor.
- Various Ecology letters, communications, figures, tables, and an IRAP Request for Review form dated November 15, 1994.
- An Ecology prepared three dimensional ground water flow map dated November 18, 1994.
- An Ecology memorandum documenting an independent technical assistance meeting dated June 8, 1994.
- An Ecology letter summarizing their review of the IRAP submittal dated January 5, 1997.

In general, the Kruger Clinic site characterization consisted of historical site use research and two phases of limited soil and ground water sampling and testing. The historic site use consisted of an automobile wrecking yard owned by F.E. Roberts since approximately 1956. The site was purchased by Group Clinic R&D (Kruger Clinic) in 1984. As part of an environmental assessment prior to a clinic addition in 1992, three monitoring well borings and one soil boring were initially completed followed by the drilling of 8 follow-up borings and installation of temporary monitoring wells. Four soil and two ground water samples were tested for petroleum and (HVOC)s halogenated volatile organic compounds during the initial evaluation. PCE (in the ground water sample from MW-1) was the only compound detected at concentrations exceeding MTCA Method A cleanup levels. One soil sample was tested from each boring for PCE only in the follow-up site evaluation. PCE was not detected in any of the soil samples submitted. However, PCE was detected at concentrations exceeding MTCA Method A levels in two ground water samples (MW-1 and SW-1) obtained during the follow-up evaluation. A site plan showing the boring locations is present in Appendix D.

Based on limited site characterization, Seacor suggested that the PCE contamination encountered originated from the adjacent Stevens Healthcare property (subject site). Seacor estimated that the shallow ground water flow direction in the site vicinity is from the south to north (from the Stevens Healthcare property toward the Kruger Clinic property).

Ecology's June 8, 1994 and January 5, 1995 internal document and letter, respectively identify significant deficiencies in Seacor's evaluation of the Kruger property. Because of these deficiencies, Ecology did not grant no further action status for the Kruger property without further evaluation. Additionally a 3-dimensional ground water flow map was prepared for the Kruger property by Ecology. This map indicates that the flow direction of shallow perched

ground water is from northwest to southeast (from the Kruger site towards the Stevens Healthcare site). Selected Ecology documents including the ground water flow map and January 5, 1997 letter are presented in Appendix E.

6.0 SITE HISTORY

Our understanding of the history of the subject site is based on a review of historical photographs and interviews:

Historical aerial photographs dated 1947, 1955, 1967, 1981, 1985, 1989, and 1993 were reviewed by GeoEngineers at Walker & Associates in Tukwila, Washington. The scale of the photographs reviewed allowed for the interpretation of general site development/configuration, such as identifying most structures, roadways and clearings. However, the scale of the photographs did not allow for identification of specific site features, such as fuel pumps, wells or chemical storage areas on the site, if any.

Polk and Cole city business directories, Sanborn Fire Insurance Maps and State tax assessment records (Washington State Archives) were unavailable for the site.

6.1 HISTORICAL PHOTOGRAPHS AND MAPS

The historical aerial photographs indicate that the site and adjacent properties were undeveloped in 1947, with the exception of a several rural residences. The 1955 aerial photo shows several more residences on the adjacent properties and several buildings on the site. The first presence of the wrecking yard (Cross Autowrecking) was noted in the 1967 aerial photo. One rectangular building is apparent on the site in this photograph, along Highway 99 and a square building is apparent south of the site. A square building offsite was used as a truck maintenance facility as described in Section 6.2 of this report. There are cars parked over the entire site. The 1967 photo showed a second wrecking yard (Roberts Autowrecking) north of the current site boundary that extended to 216th Street SW. A fence in the 1976 photograph separates the two wrecking yards.

The 1976 photo shows that automobiles were organized into rows on the southern wrecking yard. The photo shows two rectangular buildings located in the southeast corner of the site; a building extending east-west and a building extending north-south. A shed is located northwest of these two buildings in this photo. Automobiles at the Roberts wrecking yard (owned and operated by the Roberts family) are scattered across this site. A rectangular building is located in the southeast corner of the Roberts wrecking yard property. The square building south of the Cross wrecking yard also is apparent in the 1976 photo. Automobiles and larger vehicles appear to be parked on this off-site property.

Buildings that appear to be service stations are present (1) northeast of the 216th Street SW and Highway 99 intersection and (2) northwest of the 220th Street SW and Highway 99 intersection in the 1976 photo approximately 1,200 and 1,200 feet from the site, respectively. The 1976 aerial photo is presented in Figure 4.

The large metal warehouse currently located at the site is apparent in the 1985 photo. The square building south of the site has been demolished and the adjacent Kruger site appears undeveloped in the 1985 photo. The Kruger Clinic building is apparent in the 1989 photograph.

6.2 INTERVIEWS

We further evaluated site history by completing interviews with the following individuals familiar with the subject site.

1. Greg Andrews, Stevens Hospital, Director of Plant Operations, interviewed on July 30, 1997.
2. Tom Goodson, Stevens Healthcare Maintenance Manager, interviewed August 27, 1997.
3. Gary McCombs, Fire Marshall, Edmonds Fire Department, interviewed on September 8, 1997.
4. Cage Cross, Former Owner of Cross Autowrecking, interviewed on September 11, 1997.

6.2.1 GREG ANDREWS and TOM GOODSON- Existing Property Owner Representatives

Mr. Andrews indicated that he has been employed at Stevens Hospital since 1989 and Mr. Goodson has worked at the site since 1990. Mr. Andrews and Mr. Goodson indicated that the former owners of the subject site were the Cross family and that the site was used as an automobile wrecking facility that was closed in 1983. Mr. Andrews and Mr. Goodson indicated the following regarding the site use: (1) Stevens Healthcare uses the site buildings for storage of used medical equipment and files, (2) a 500-gallon used oil UST remains west of the carport building located near the southern property boundary; the UST is not used by Stevens Healthcare, (3) several drains (shown in Figure 2) were formerly used during autowrecking operations and (4) a french drain was constructed by Stevens Healthcare in the northeast quadrant of the site in approximately 1994 because of poor drainage and ponded water in this portion of the site. Mr. Andrews and Mr. Goodson indicated that solvents were detected in soil samples obtained on the north-central portion of the site during an evaluation completed by the adjacent Kruger Clinic. They were unaware of any other contaminants at the property.

6.2.2 GARY MCCOMBS - Fire Marshal

Mr. McCombs indicated that the fire department had records of incident responses to the Cross Property. Mr. McCombs stated the fire department had been called to the site several times to extinguish small fires caused by errant sparks from acetylene torches. He indicated that he was unaware of any hazardous materials responses to the site or nearby properties.

6.2.3 CAGE CROSS - Former Property Owner

Mr. Cross indicated that he worked at the site from 1971 to 1987 and provided the following information regarding historic operations at the site and surrounding properties:

- Cross autowrecking operations occurred between approximately 1958 and 1987.
- The site was undeveloped prior to 1958.
- The north-south rectangular building located along Highway 99 was constructed in the 1960's. It was used for offices and parts sales.
- The east-west rectangular building located along the south property boundary was constructed in the early 1970's. It was used for automobile dismantling. Several aboveground hoists were used in this building.
- The steel warehouse building was constructed in the early 1980's.
- Steam cleaning and pressure washing was completed near the large drain in the southeast corner of the site. This drain is an oil/water separator and was "cleaned out" according to Mr. Cross when the property was sold to Stevens Healthcare.
- Solvents were used in the north-south rectangular building to wash parts. Solvents were stored in a 30-gallon (AST) above ground storage tank.
- A "cabinet-washer" located outside the north-south building, adjacent to the oil/water separator operated with degreasing solvents and was used to wash parts. Mr. Cross indicated that he did not remember what was done with the spent solvents.
- Mr. Cross indicated that sludge removed from the "cabinet-washer" was placed back in the automobiles which were then sent to an automobile crusher. The crusher was located on the west-central portion of the property. We did not see evidence of the crusher in the aerial photographs. Mr. Cross stated that he believed the crusher was installed after 1976.
- Mr. Cross indicated that he was unaware of any releases or spills of hazardous substances at the site with the exception of typical small oil leaks from wrecked cars. He indicated that they attempted to collect and recycle oil removed from the vehicles. The oil was placed in the 500-gallon UST located west of the east-west oriented building.
- We asked Mr. Cross about the square and rectangular structures northwest of the north-south building that we observed in the 1976 photo. He stated that the square building was used as a motorcycle shed and that the rectangular structures were truck trailers used as storage sheds.
- Mr. Cross indicated that operations at the adjacent Roberts Autowrecking facility (Kruger Clinic property) included a considerable amount of dumping, spilling and discharging of oil and solvents onto the ground. He indicated that he was unaware of any USTs or ASTs on the Roberts property used to contain waste oil. He indicated that he would suspect the area immediately west of the Roberts building (formerly located in the southeast corner of the Roberts property) to have the highest probability of contamination because parts were cleaned and stored in this area.
- Mr. Cross also indicated that the property immediately south of the Cross autowrecking operation, (Top Foods) the location of the square building identified in the 1976 photograph

was C&C Truck Parts. He indicated that the square building was originally used by Taylor Equipment as a truck maintenance shop. He stated that C&C Truck Parts operated a truck part salvage operation. He stated that they cleaned and sold truck parts and rebuilt transmissions. Mr. Cross indicated that C&C had a waste oil AST and an oil/water separator. Mr. Cross indicated that truck maintenance operations on this property began around the late 1950's.

6.3 ENVIRONMENTAL LIENS

During the course of our research, we did not find that environmental liens had been filed against the site.

7.0 CONCLUSIONS

Based on the results of our Phase I ESA research, we identified confirmed soil contamination by PCE, a common solvent used to clean parts, on the northern portion of the site. Additionally, it is our opinion that there is a risk of soil and/or ground water contamination on other portions of the subject site. The sources of these confirmed and suspected contaminants are historic automobile wrecking operations on the subject site and/or the adjacent Kruger Clinic property. Further evaluation of the PCE contamination and other suspected contaminants at the subject site would require a Phase II ESA to evaluate contamination by petroleum hydrocarbons, solvents and/or metals. The Phase II ESA would consist of soil and ground water sampling and chemical analysis. The following sections describe confirmed and/or suspected areas of contamination at the site that, in our opinion, would require supplemental evaluation during any future Phase II ESA.

7.1 CONFIRMED ON SITE CONTAMINATION

Tetrachloroethene (PCE) was detected at a concentration exceeding the MTCA Method A cleanup level of 0.5 mg/kg in one soil sample (OMW-2-25.5) obtained at a depth of 25.5 feet bgs in monitoring well boring OMW-2. OMW-2 is located near the north-central property boundary and was drilled as part of a site characterization of the property north of the subject site (Kruger Clinic property, former Roberts autowrecking property).

It is currently unknown whether ground water contamination exists on the site because ground water was not encountered in any of the monitoring wells at the time that they were installed by Seacor (August 1993). Additionally, ground water was not detected in any of the wells at the time of our site reconnaissance (August 27, 1997). However, perched ground water located on the Kruger Clinic property, immediately north of the subject site, has been tested and shown to contain concentrations of PCE exceeding MTCA Method A cleanup levels.

7.2 SUSPECTED ON SITE CONTAMINATION

We have identified the following areas of suspected soil and/or ground water contamination on site based on the results of our study and our experience at similar former autowrecking facilities.

7.2.1 WASH RACK AREA

Subsurface petroleum and/or solvent related contamination is suspected in the wash rack area because it contains a large drain that captured fluids during historic vehicle steam cleaning/pressure washing and likely parts washing activities. Additionally, any surface spills of hazardous substances used in the area may have entered this drain. The subsurface condition of the drain relative to cracks and holes from which contaminants could have been released into surrounding soil and ground water is not known. Potential sources of hazardous sources in the wash rack area are described below.

- Solvents were used to wash parts in the nearby automobile dismantling and shop buildings and wash rack areas (Figure 2).
- A former 30-gallon solvent AST was used in the nearby automobile dismantling area.
- A "cabinet-washer" was located adjacent to the drain. We understand that the "cabinet-washer" operated with degreasing solvents and was used to wash parts. Additionally, sludge was removed in this area from the "cabinet-washer" and was placed in automobiles that were sent to a crusher at another location on site.

7.2.2 OTHER DRAIN AREAS

We observed the presence of 4 additional drains located around the existing warehouse building. The potential exists for petroleum and solvents to have been dumped or spilled into these drains during the long period that the site was operated as a wrecking facility. The subsurface condition of these drains like the wash rack drain, is unknown.

7.2.3 CRUSHER AREA

Solvents, oil and/or heavy metals may be present in near surface soil in the former location of automobile crushing operations. We understand that the crusher was located on the west-central portion of the property.

7.2.4 WASTE OIL UST AREA

A 500-gallon used oil UST is located west of the east-west oriented building. It is likely that the subsurface petroleum-related contamination is present in the vicinity of the UST. Additionally, solvent related subsurface contamination may be present in the vicinity of this UST if it also was used to store wash solvents.

7.2.5 AUTOMOBILE STORAGE LOCATIONS

Near surface heavy oil-related soil contamination may be present in large portions of the site used to store wrecked cars. Uncontrolled oil releases affecting the upper approximately 1 to 2 feet of soil are common in vehicle storage areas at autowrecking facilities based on our experience.

7.3 OFFSITE CONTAMINATION

In our opinion, it is unlikely that historic truck maintenance and use of petroleum and solvent products at the former C&C Truck Parts facility located south of the site have caused contamination of regulatory significance at the subject site. The former C&C facility is located in an inferred downgradient position relative to the subject site.

In our opinion, northern portions of the subject site may contain contamination originating from the adjacent former Roberts autowrecking facility. Based on the results of our interviews with Mr. Cross, the management of petroleum and solvent-related products on the Roberts autowrecking site was poor. A considerable amount of dumping, spilling and discharging of oil and solvents onto the ground surface within 50 feet of the subject site may have occurred. Seacor has suggested in their October 14, 1994 IRAP report, that contamination on the Kruger Clinic property (formerly Roberts Autowrecking) resulted from the Cross autowrecking subject site operations. Seacor suggests that this contamination has occurred by perched ground water migrating from the Stevens Healthcare property onto the Kruger property (from south to north). In our opinion, Seacor has not adequately evaluated the shallow ground water flow direction in the site vicinity because ground water has not been present in more than two wells during their ground water monitoring events. Ecology has shown that the shallow ground water flow direction in this area is to the south/southeast based on 3-dimensional ground water contours prepared for the former Roberts site (Appendix E).

Ecology indicated in their response to the Kruger Clinic's IRAP submittal that additional soil and ground water characterization is necessary to evaluate contamination on the Roberts property and that "Seacor's conclusion that the source of PCE, noted on the Kruger Clinic site, originated from the Stevens Hospital property is inconclusive without additional supporting evidence." Ecology has not granted a no further action status for the Kruger Clinic property.

8.0 RECOMMENDATIONS

We recommend that Stevens Healthcare complete a Phase II ESA at the subject site to further evaluate (1) the suspected areas of soil and ground water contamination described in section 7.2., (2) the lateral and vertical extent of PCE contamination identified in soil along the north property boundary, (3) the ground water flow direction beneath the site, (4) the aquifer type and geologic relationships beneath the site, (5) the regulatory significance of any soil and ground water contamination detected on site and (6) remedial options.

9.0 LIMITATIONS

This Phase I ESA has been prepared for use by Stevens Healthcare and its authorized agents. This report is not intended for use by others, and the information contained herein is not applicable to other sites. If a lending agency or other parties intend to place reliance on the product of our services, we require that those parties indicate in writing their acknowledgment that the scope of services provided, and the general conditions under which the services were rendered including the limitation of liability, are understood and accepted by them. This is to provide our firm with reasonable protection against open-end litigation by third parties with whom there would otherwise be no contractual limits to their actions.

GeoEngineers makes no warranties or guarantees regarding the accuracy or completeness of information provided or compiled by others. The information presented in this report is based on the above-described research and a single recent site visit. GeoEngineers has relied upon information provided by others in our description of historical conditions and in our review of regulatory databases and files. The available data do not provide definitive information with regard to all past uses, operations or incidents at the site or adjacent properties.

No ESA can wholly eliminate uncertainty regarding the potential for recognized environmental conditions in connection with a property. Performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for recognized environmental conditions in connection with a property. There is always a potential that areas with contamination that were not identified during this Phase I ESA exist at the site or in the study area. Further evaluation of such potential would require additional research, subsurface exploration, sampling and/or testing.

Some substances may be present in the site vicinity in quantities or under conditions that may have led, or may lead, to contamination of the subject site, but are not included in current local, state or federal regulatory definitions of hazardous substances or do not otherwise present current potential liability. GeoEngineers cannot be responsible if the standards of all appropriate inquiry or regulatory definitions of hazardous substances change, or if you are required to meet more stringent standards in the future.

GeoEngineers has performed this Phase I in general accordance with the scope and limitations of our proposal, dated August 7, 1997 and ASTM E 1527-97, standard of practice for Phase I ESAs. Within the limitations of scope, schedule and budget, our services have been executed in accordance with the generally accepted environmental science practices for Phase I ESAs in this area at the time this report was prepared. No warranty or other conditions, express or implied, should be understood.

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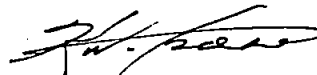
We appreciate the opportunity to be of service to Stevens Healthcare. Please call if you have questions regarding this report.

Respectfully submitted,

GeoEngineers, Inc.



David A. Cook
Project Geologist



Kurt R. Fraese
Associate

DAC:KRF:cdl

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TABLE 1
EPA AND ECOLOGY LISTED SITES
STEVENS HOSPITAL - CROSS PROPERTY
EDMONDS, WASHINGTON

ID No. ¹	Business	Address	Distance from Site	LISTS ²
N/A	Cross Enterprises, Inc.	21700 Highway 99	Site	UST
D12,D13,D14,D15	Kruger Clinic	21600 Highway 99	adjacent north	IRAP (4 reports)
A2	Brier Development Co.	21808 Highway 99	0-1/8 mile SE	RCRIS
B4	Classic Auto Rebuild	21701 Highway 99	0-1/8 mile NNE	RCRIS
B5	Jeffs Mngmt Inc./Jeffs Auto Repair	21701 Highway 99	0-1/8 mile NNE	RCRIS
3	7-11 Food Store 2306-2234	21920 Highway 99	0-1/8 mile SSW	UST
C8	Texaco #63-232-0502	22000 Highway 99	1/8-1/4 mile SSW	LUST, UST, RCRIS
23,25	Warren Medical Office Bldg	21727 76th Ave W	1/8-1/4 mile W	LUST, WAIRAP
14	Blue Cross of Washington	7001 220th St SW	1/8-1/4 mile SE	UST, RCRIS
C10	Lynnwood Honda	22020 Highway 99	1/8-1/4 mile SSW	RCRIS
D11	Montes Clutch/Brake Service	21619 Highway 99 Sta 1	1/8-1/4 mile NNE	RCRIS
16	WDDE NRD Lynnwood Barrel	7000 216th St SW	1/8-1/4 mile ENE	RCRIS
E17	SEA Inc.	7030 220th SW	1/8-1/4 mile SE	RCRIS
20	Saracenic Inc.	6925 216th St SW	1/8-1/4 mile ENE	RCRIS
21	Acura of Lynnwood	21515 Highway 99	1/8-1/4 mile NNE	RCRIS
22	Adzam Inc.	22130 Highway 99	1/8-1/4 mile SSW	RCRIS
C6,C7	Shell #20303	22000 Highway 99	1/8-1/4 mile SSW	WA IRAP
24	BIM Contractors	21400 Highway 99	1/4-1/2 mile NNE	WAIRAP, LUST
26	Aurora Toyota	21300 Highway 99	1/4-1/2 mile NNE	WAIRAP, LUST
27	Plain Pantry	21919 66th Ave W Sta J	1/4-1/2 mile ESE	WAIRAP, LUST
F28,29,30,31,32	Unocal #5168	6921 212th St SW	1/4-1/2 mile NNE	WAIRAP, LUST
33,34,35,36				
F37	Unocal Bulk Plant 5168	6921 212th St SW	1/4-1/2 mile NNE	WA IRAP
G38	Texaco STG3-232-0263	6602 220th St SW	1/4-1/2 mile ESE	LUST
G39,G40	Gull #0214	6602 220th St SW	1/4-1/2 mile ESE	WAIRAP, LUST
G41	1300 Hon Supermarket	22618 22620 Hwy 99	1/4-1/2 mile SSW	WAIRAP, LUST
H42	Chevron (private) aka Chevron	7609 212th St SW	1/4-1/2 mile NW	WA IRAP
H43	Dave Elkins	7609 212th St SW	1/4-1/2 mile NW	WA IRAP
I45	Highlands Bldg Maintenance	7208 210th St SW	1/4-1/2 mile N	LUST
I46	Coyote Corp	7208 210th St SW	1/4-1/2 mile N	WA IRAP
I44	Mark 2 Collision	21104 70th Ave W	1/4-1/2 mile NNE	CSCSL
J48	Ken's Radiator Service	6226 212th St SW	1/2-1 mile ENE	CSCSL
J49	Snohomish County PUD	6200 212th SW	1/2-1 mile ENE	CSCSL

Notes:

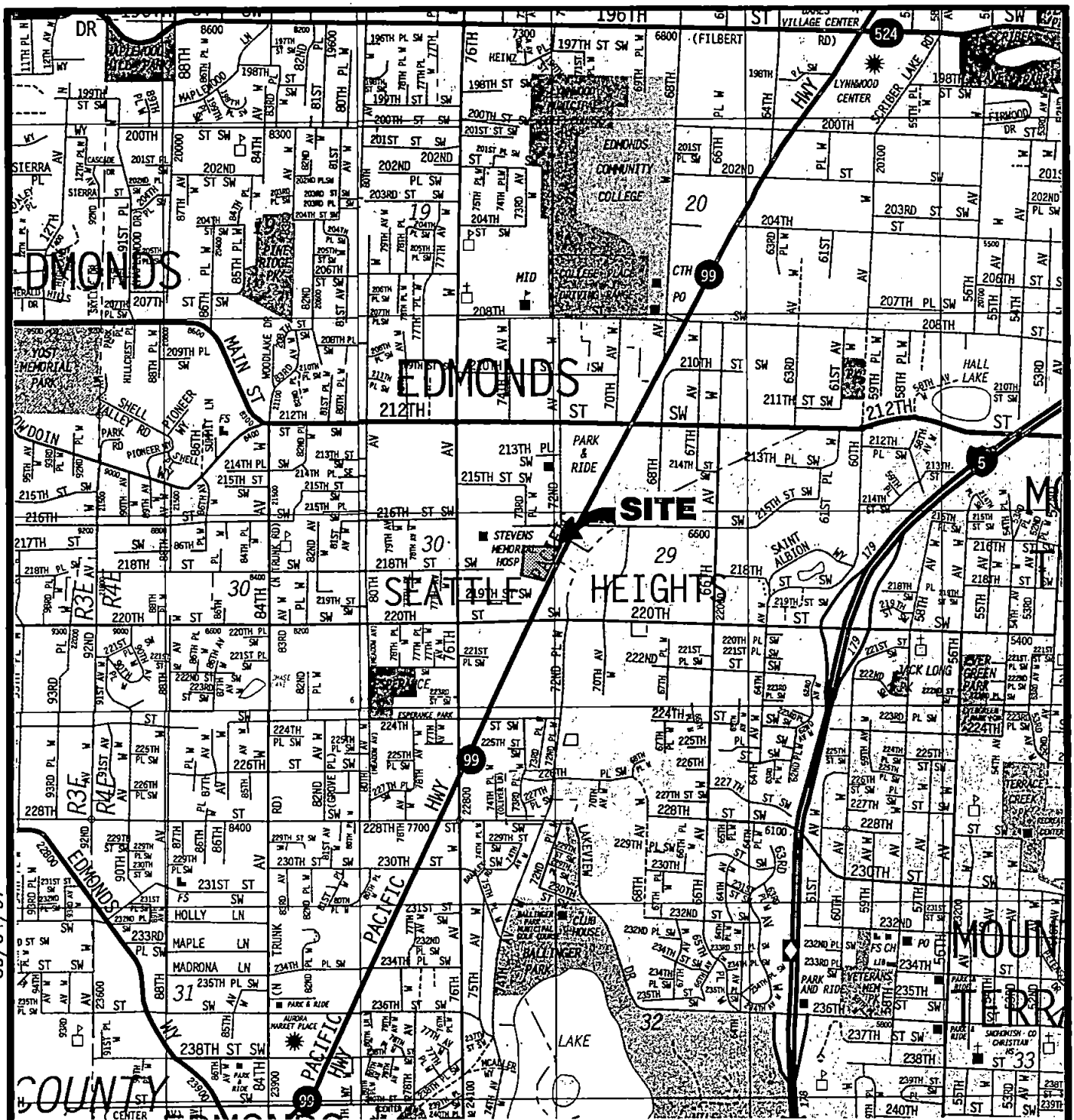
¹ Refer to page 4 and 5 "overview map" and "detail map" of the EDR report in Appendix C for the approximate location of each listed site

² Refer to page A7 through A12 of the EDR report in Appendix C for an explanation of the lists reviewed

09/04/97

5397-007-85

DAC:HLA



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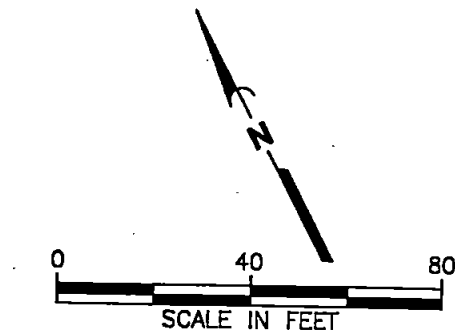
VICINITY MAP

FIGURE 1

09/15/97

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DAC:HLA



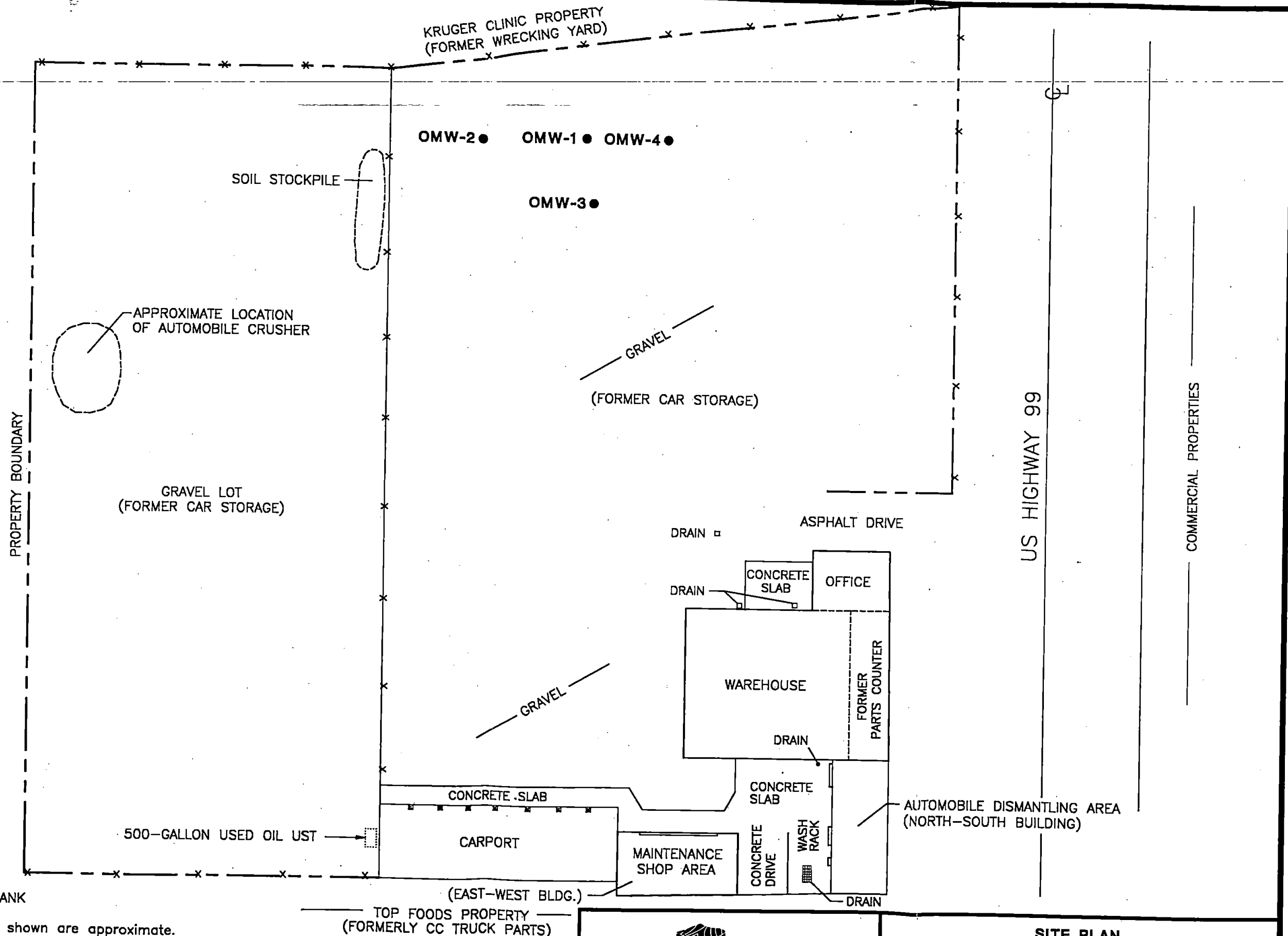
EXPLANATION:

MW-1● MONITORING WELL

UST UNDERGROUND STORAGE TANK

Note: The locations of all features shown are approximate.

Reference: Site drawing prepared by GeoEngineers representative.



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SITE PLAN

FIGURE 2

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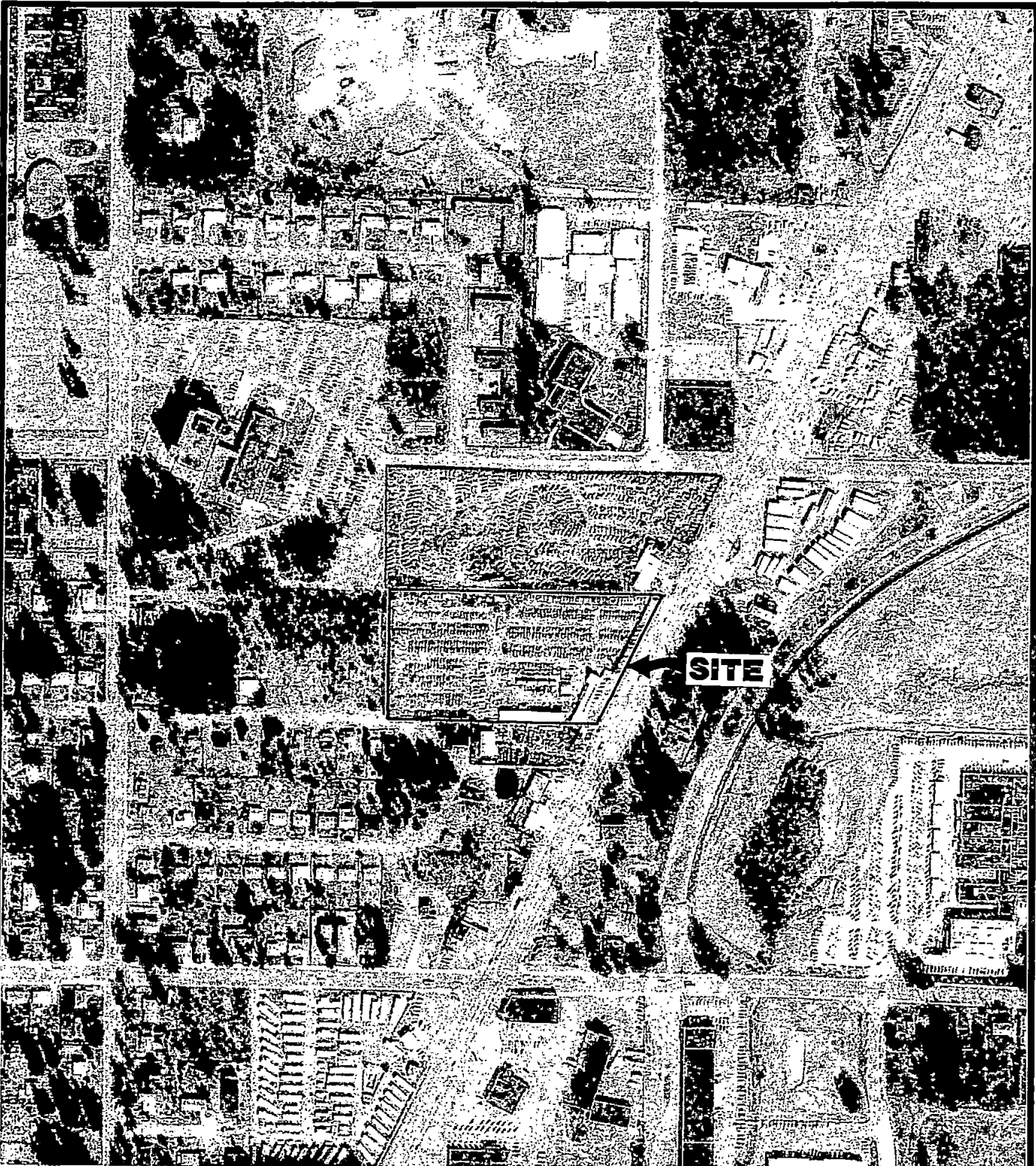
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1976

photo by Walker and Associates

APPENDIX A

APPENDIX A

PHASE I ESA STATEMENT OF QUALIFICATIONS

GeoEngineers has researched and assessed possible subsurface contamination for more than 1,000 projects located in the states of Washington, Oregon, Idaho, California and Alaska. We are very experienced with the interpretation of environmental information with regard to potential liabilities associated with property ownership or transfer. We have been involved with property assessments at sites ranging from small commercial properties with no apparent environmental problems to large industrial properties with complex histories. We also conduct specific subsurface exploration programs during Phase II ESAs, develop remedial plans for contaminated properties, and monitor and document remedial activities.

Internal guidelines for conducting Phase I ESAs have been developed by our firm. The primary objectives of the guidelines are to respond to client needs, standardize our technical approach, facilitate completion of the projects, and maintain high levels of quality and cost control. The guidelines incorporate procedures and data resources into a comprehensive document used by all technical staff responsible for performing these types of projects. The guidelines were developed after a thorough review of applicable regulations, standards and practices generally employed in the consulting industry for Phase I ESAs. Our standard procedures for conducting Phase I ESAs are, at a minimum, in conformance with the scope and limitations of ASTM Standard E 1527-97, Standard Practice for Phase I ESAs.

GeoEngineers has field and office staff who are specifically trained in performing ESAs. Historical research and agency database searches are accomplished by staff specialists, who are experienced with the wide range of documents and databases available for evaluation of historical land use and identification of sites with known or suspected environmental concerns. The site reconnaissance is completed by an experienced member of our staff with proven capabilities in identifying visual evidence of the possible use, generation, storage, release or disposal of hazardous substances.

Kurt Fraese, Associate, and Dave Cook, Project Geologist had primary responsibility for this Phase I ESA project. Mr. Fraese has been responsible for over 250 Phase I ESA projects in Seattle and Washington State involving investigation of actual or potential subsurface contamination. Mr. Cook has extensive experience researching and writing Phase I ESAs for sites with residential, commercial and industrial development and specializes in sites formerly used for automobile repair and maintenance.



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Environmental and Geotechnical Services

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DINGFIELD ASSOCIATES, LTD.

October 29, 1993

Dingfield Associates, Ltd.
2836 First Interstate Center
999 Third Ave.
Seattle, WA 98104

Attn: Mr. Jamie Vanek

RE: COMMENTS ON SEACOR REPORT DATED OCTOBER 4, 1993
FORMER CROSS AUTO PARTS PROPERTY
STEVENS MEMORIAL HOSPITAL
EDMONDS, WASHINGTON

Dear Mr. Vanek:

This letter report presents Landau Associates' comments on the October 4, 1993 report by SEACOR entitled *Preliminary Soil Sample Results, Subsurface Investigation, Stevens Memorial Hospital Property, South and Adjacent to Kruger Clinic, 21600 Highway 99, Edmonds, Washington*, as well as our interpretations of soil and groundwater conditions in this area. The SEACOR report describes chemical testing results for a drilling and soil sampling event that occurred on August 31, 1993, at the former Cross Auto Parts property.

Besides reviewing the above mentioned report, Landau Associates observed the drilling and soil sampling activities by SEACOR that occurred on August 31. In addition, we have reviewed information provided in three earlier SEACOR reports in preparing this letter. As part of a general background and review, we also conducted a visual reconnaissance of the Cross Auto Parts property and reviewed historical aerial photos.

BACKGROUND

SEACOR has conducted investigations at the Kruger Clinic property. Three reports that SEACOR prepared on this property prior to the October 4, 1993 report are:

- *Phase I Environmental Assessment, Kruger Clinic, 21600 Highway 99, Edmonds, Washington*, dated December 21, 1992
- *Phase II Subsurface Investigation, Kruger Clinic, 21600 Highway 99, Edmonds, Washington*, dated February 5, 1993
- *Results of Additional Subsurface Investigation, Kruger Clinic, 21600 Highway 99, Edmonds, Washington*, dated March 24, 1993.

Of particular relevance to conditions on the former Cross Auto Parts property was the detected presence of tetrachloroethene (PCE) in groundwater near the southwest portion of the Kruger Clinic. In a follow up investigation, SEACOR collected soil samples and installed four monitoring wells on the former Cross Auto Parts property adjacent to where the PCE was detected. Although the wells were dry at the time that they were installed, the soil samples collected contained PCE (see Table 1).

In our opinion, the most important questions that have arisen, given the information currently available, are:

- How significant are the PCE concentrations in soil and groundwater?
- Where did the PCE come from?

The first question can be answered by comparing the detected concentrations to the cleanup levels promulgated under the Washington State Model Toxic Control Act (MTCA; 173-340 WAC). The detected concentrations are summarized in Table 1, and the MTCA criteria are summarized in Table 2.

DATA QUALITY

The quality control data with each of the laboratory reports appended to the SEACOR reports suggest that the data are of acceptable quality. However, some situations exist that require explanation.

Three different laboratories were used. The labs achieved different detection limits, indicating that their analytical methods were not exactly the same. All detections of PCE in soil at the former Cross Auto Parts property were made by North Creek Analytical, Inc. None of the soil samples tested from the Kruger Clinic property contained detectable PCE. Most of these samples were tested by Superior Precision Analytical, Inc. Since at least three of these soil samples (samples SW-1, 19 ft; SW-6, 18.5 ft; and SW-7, 16.5 ft) were collected in close proximity to groundwater samples containing PCE (Table 1), it is unusual that these soil samples did not contain some PCE.

The distribution of samples presents a sampling bias. For example, a total of 12 borings were drilled at the Kruger Clinic property, and 15 soil samples were analyzed for PCE. In contrast, only four borings were drilled at the former Cross Auto Parts property, and 20 samples were analyzed. With four groundwater wells at the former Cross Auto Parts property

monitoring the same area as one well at the Kruger Clinic property, the bias persists. Obviously, a tighter sample density is more likely to detect the presence of a contaminant and vice versa.

In summary, the data presented by SEACOR would be more convincing if it had been collected in a more consistent manner. Because sampling and analytical methods changed at the property line, it is more difficult to attribute differences in data solely to differences in soil and groundwater conditions.

SOIL QUALITY

The MTCA Method B soil cleanup levels are applicable to this site. The July 1993 update of Ecology's risk-based formula values gives a Method B soil cleanup level for PCE of 19.6 mg/kg (Table 2). This value was not exceeded by any soil sample tested. Assuming that PCE concentrations higher than 19.6 mg/kg are not present (the full extent of PCE has not been completely defined), the potential risk to humans would be insignificant and soil cleanup would not be required.

GROUNDWATER

The MTCA Methods A and B cleanup levels for groundwater do not appear to be applicable to this site (Table 2). These risk-based cleanup levels assume that the highest beneficial use of the groundwater would be as a potential drinking water source. MTCA regulations state that such wells should yield at least 0.5 gal/min on a sustainable basis. Given the seasonal nature of groundwater occurrence at this location (all wells were dry during the summer), the shallow, water-bearing zone arguably is not suitable for domestic water supply purposes and, therefore, the Methods A and B cleanup levels are not applicable. In addition, the soil Method A cleanup level (of 0.5 mg/kg), which is based on protection of groundwater (as a domestic water source) from contaminants leaching from soil, is also not applicable.

An appropriate cleanup level for groundwater would probably be based on a human health risk analysis, assuming contamination reaches the deeper regional aquifer, or an ecological risk analysis, assuming the contamination discharges to a surface water body (such as Hall Creek). The former situation cannot be easily evaluated with the data available in the cited reports, because the depth to the regional aquifer or the intervening geology (except for the presence of till beneath the site) is not given.

The ecological risk assessment is likely to yield high cleanup levels because PCE is not bioaccumulated. In addition, large amount of dilution would occur as groundwater migrates

and discharges to a surface water body, such as Hall Creek. Therefore, it is unlikely that surface water cleanup levels would be exceeded.

SOURCE OF TETRACHLOROETHENE

The source of the PCE has not yet been identified. It could have come from degreasing activities associated with automobile parts recycling. Because both the former Cross Auto Parts property and the Kruger Clinic property were used for automobile recycling, it is possible for the PCE to have originated at either or both sites. Unless detailed information is obtained on topography (especially surface elevations), geology (especially the configurations of the top of the glacial till and other low permeability layers), the groundwater hydrology (especially groundwater flow directions), and soil and groundwater chemistry (so the migration pathway can be traced back to the surface), it may be very difficult or impossible to determine the source(s) of the PCE. If groundwater is perched in noncontiguous areas on top of the glacial till (which is a distinct possibility at this site), groundwater flow directions can change greatly over the course of a year, which would smear the contamination and complicate attempts to trace migration pathways.

CONCLUSIONS

The data presented in the SEACOR reports indicates that low levels of PCE are present in soil and groundwater near the property boundary between the Kruger Clinic property and the former Cross Auto Parts property (now owned by Stevens Memorial Hospital). The PCE concentrations in the soil do not appear to exceed MTCA Method B cleanup levels, which are the levels that would apply to this site. However, the total extent of the soil contamination has not yet been defined at the former Cross Auto Parts property.

Groundwater in the shallow, water-bearing zone on the Kruger Clinic property contains moderate levels of PCE. However, the groundwater is only present seasonally, which precludes its use as a domestic water source. In addition, monitoring wells installed at the former Cross Auto Parts property were dry when they were installed, which prevented evaluating the quality of the groundwater when it is present.

Groundwater cleanup levels for this site would likely be developed based on either a human health risk assessment of contamination reaching the deeper regional aquifer, or an ecological risk assessment of contamination reaching the surface water body. There is

insufficient information to evaluate the former, but the latter is likely to yield cleanup levels that would not be exceeded.

The data quality raises some questions. The differences in soil PCE testing results may be attributable to the different sampling and analytical procedures apparently used on either side of the property line.

The actual source area or areas have not been identified. The possibility that the former Cross Auto Parts property was a source cannot be ruled out with the available data.

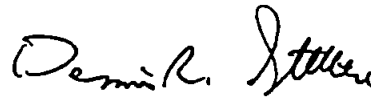
SEACOR apparently intends to collect groundwater samples when groundwater is present in the monitoring wells. We recommend that monitoring well MW-1 be sampled if one or more of the four wells on the former Cross Auto Parts property are sampled. We also recommend that elevations of the ground surface at all boring and well locations be measured and that water level elevations be measured at all wells whenever groundwater samples are collected. Because the groundwater conditions (such as flow direction and contaminant concentrations) are dynamic, they may change significantly throughout the year and additional monitoring may be required.

* * * * *

It has been a pleasure to provide these services. Do not hesitate to call if you have any questions or would like additional information.

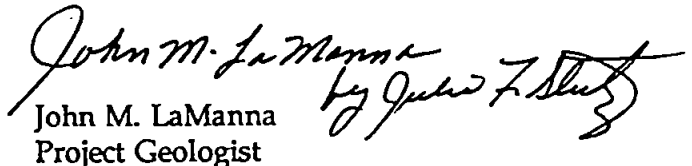
LANDAU ASSOCIATES, INC.

By:



Dennis R. Stettler, P.E.
Project Manager

and


John M. LaManna
Project Geologist

DRS/JML/bb

No. 205003.10

4 copies submitted

Attachments: Table 1, Summary of Tetrachloroethene Testing
Table 2, Summary of Cleanup Levels

TABLE 1

SUMMARY OF TETRACHLOROETHENE TESTING

Matrix	Date Collected	Sample I.D.	Concentration	Units	Laboratory
Soil	23 Jan 1993	SB-1, 10-11 ft	0.2 U	mg/kg	NCA
	23 Jan 1993	MW-1, 5-6 ft	0.1 U	mg/kg	NCA
	23 Jan 1993	MW-2, 5.5-6.5 ft	0.1 U	mg/kg	NCA
	23 Jan 1993	MW-3, 10-10.8 ft	0.1 U	mg/kg	NCA
	6 Mar 1993	SW-1, 19 ft	0.005 U	mg/kg	SPA
	6 Mar 1993	SW-2, 19 ft	0.005 U	mg/kg	SPA
	6 Mar 1993	SW-3, 19 ft	0.005 U	mg/kg	SPA
	6 Mar 1993	SW-3, 26.5 ft	0.005 U	mg/kg	SPA
	6 Mar 1993	SW-4, 17.5 ft	0.005 U	mg/kg	SPA
	6 Mar 1993	SW-4, 26.5 ft	0.005 U	mg/kg	SPA
	6 Mar 1993	SW-5, 25 ft	0.005 U	mg/kg	SPA
	6 Mar 1993	SW-6, 18.5 ft	0.005 U	mg/kg	SPA
	6 Mar 1993	SW-7, 16.5 ft	0.005 U	mg/kg	SPA
	6 Mar 1993	SW-8, 18.5 ft	0.005 U	mg/kg	SPA
	6 Mar 1993	SW-8, 25 ft	0.005 U	mg/kg	SPA
	31 Aug 1993	OMW-1, 10.5 ft	0.05 U	mg/kg	NCA
	31 Aug 1993	OMW-1, 15.5 ft	0.05 U	mg/kg	NCA
	31 Aug 1993	OMW-1, 20 ft	0.056	mg/kg	NCA
	31 Aug 1993	OMW-1, 25.5 ft	0.075	mg/kg	NCA
	31 Aug 1993	OMW-1, 30.5 ft	0.17	mg/kg	NCA
	31 Aug 1993	OMW-2, 10.5 ft	0.14	mg/kg	NCA
	31 Aug 1993	OMW-2, 15.5 ft	0.24	mg/kg	NCA
	31 Aug 1993	OMW-2, 20.5 ft	0.28	mg/kg	NCA

TABLE 1
SUMMARY OF TETRACHLOROETHENE TESTING

Matrix	Date Collected	Sample I.D.	Concentration	Units	Laboratory
Soil (continued)	31 Aug 1993	OMW-2, 25.5 ft	1.8	mg/kg	NCA
	31 Aug 1993	OMW-2, 30.5 ft	0.05 U	mg/kg	NCA
	31 Aug 1993	OMW-3, 10 ft	0.05 U	mg/kg	NCA
	31 Aug 1993	OMW-3, 15.5 ft	0.05 U	mg/kg	NCA
	31 Aug 1993	OMW-3, 20.5 ft	0.081	mg/kg	NCA
	31 Aug 1993	OMW-3, 25.5 ft	0.05 U	mg/kg	NCA
	31 Aug 1993	OMW-3, 30.5 ft	0.19	mg/kg	NCA
	31 Aug 1993	OMW-4, 10.5 ft	0.05 U	mg/kg	NCA
	31 Aug 1993	OMW-4, 15.5 ft	0.05 U	mg/kg	NCA
	31 Aug 1993	OMW-4, 20.5 ft	0.05 U	mg/kg	NCA
	31 Aug 1993	OMW-4, 25.5 ft	0.05 U	mg/kg	NCA
	31 Aug 1993	OMW-4, 30.5 ft	0.05 U	mg/kg	NCA

TABLE 1
SUMMARY OF TETRACHLOROETHENE TESTING

Matrix	Date Collected	Sample I.D.	Concentration	Units	Laboratory
Groundwater	27 Jan 1993	MW-1	182	µg/L	NCA
	27 Jan 1993	MW-3	2.0 U	µg/L	NCA
	17 Feb 1993	MW-1	170	µg/L	NCA
	17 Feb 1993	MW-1	180	µg/L	ATI
	6 Mar 1993	MW-1	150	µg/L	SPA
	6 Mar 1993	SW-1	90	µg/L	SPA
	6 Mar 1993	SW-2	0.5 U	µg/L	SPA
	6 Mar 1993	SW-3	0.5 U	µg/L	SPA
	6 Mar 1993	SW-6	3.2	µg/L	SPA
	6 Mar 1993	SW-7	1.3	µg/L	SPA

U = not detected at the given detection limit

NCA = North Creek Analytical, Inc., Bothell, Washington

ATI = Analytical Technologies, Inc., Renton, Washington

SPA = Superior Precision Analytical, Inc., Martinez, California

TABLE 2
SUMMARY OF CLEANUP LEVELS

MTCA Cleanup Level Method	Tetrachloroethene Cleanup Level Concentration ^(a)	Units
Nonindustrial soil, Method A	0.5	mg/kg
Industrial soil, Method A	0.5	mg/kg
Soil, Method B	19.6	mg/kg
Groundwater, Method A	5.0	µg/L
Groundwater, Method B	0.858	µg/L

- (a) Method B cleanup levels for tetrachloroethene taken from Washington State Department of Ecology, Toxics Cleanup Program. *Notes on Model Toxics Control Act Risk Based Formula Values and Information Used to Derive Values.* July 1, 1993 Update.

APPENDIX B

SEACOR

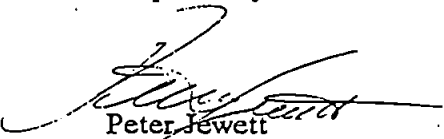
PRELIMINARY SOIL SAMPLE RESULTS
SUBSURFACE INVESTIGATION
STEVENS MEMORIAL HOSPITAL PROPERTY
SOUTH AND ADJACENT TO
KRUGER CLINIC
21600 HIGHWAY 99, EDMONDS, WA
SEACOR JOB NO. 00502-001-02

Submitted by
SEACOR


For
Group Clinic R and D Partnership
Stafford, Fry, Cooper and Stewart
500 Watermark Tower, 88 Spring Street
Seattle, WA 98104

October 4, 1993

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FIGURES

FIGURE 1 - Boring Location Map

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APPENDIX A - Boring Logs

APPENDIX B - Laboratory Reports and Chain-of-Custody Records

1.0 INTRODUCTION

This report presents the preliminary results of a subsurface soil investigation, performed by Science & Engineering Analysis Corporation (SEACOR) for Group Clinic R and D. This investigation was conducted at a portion of the Stevens Memorial Hospital property which is adjacent and south of Kruger Clinic, located at 21600 Highway 99, Edmonds, Washington. This investigation was conducted based on results of previous studies conducted by SEACOR which identified concentrations of tetrachloroethene in groundwater, which were above the Washington State Department of Ecology Model Toxics Control Act Cleanup Regulation (MTCA) Method A cleanup levels. The objective of this investigation was to assess for the presence or absence of tetrachloroethene in the subsurface adjacent to Kruger Clinic.

1.1 OBJECTIVES AND SCOPE OF WORK

The purpose of this investigation was to assess for the potential presence or absence of tetrachloroethene in areas adjacent to where previous studies had noted the compound in groundwater samples. The overall intent of the assessment is to evaluate groundwater and soil quality. Groundwater was not observed in existing monitoring wells at the time of this investigation, nor was groundwater encountered during drilling activities. This report presents the results of soil samples only.

SEACOR's scope of work to accomplish the stated objective included the following tasks:

- Prepare and implement a site-specific Health and Safety (H&S) Plan.
- Locate all underground utilities through review of the available construction records, visible features on-site, and services provided by the utility locating service.
- Provide a drilling subcontractor, licensed in Washington, to perform the drilling activities.
- Drill and sample four soil borings to 25 feet and, complete as groundwater monitoring wells.
- Submit soil samples from each boring to an analytical laboratory for chemical analysis.
- Assess the data and prepare this preliminary report documenting the field procedures and summarizing the soil sample results.

2.0 FIELD ACTIVITIES AND OBSERVATIONS

2.1 PREPARATION AND IMPLEMENTATION OF A SITE-SPECIFIC HEALTH AND SAFETY PLAN

A project-specific Health and Safety Plan (H&S Plan) was prepared in accordance with Washington State (Chapter 49.18 RCW) and Federal (29 CFR 1910) regulations for performing work at hazardous or potentially hazardous waste sites. The H&S Plan identified potential physical and chemical hazards associated with the subsurface exploration, and specified personal protection requirements and safety monitoring. A copy of the H&S Plan was available on-site at all times during the field investigation.

Prior to beginning field activity, SEACOR conducted a daily Health and Safety meeting. During the meeting, the HASP was reviewed and discussed with on-site personnel, including SEACOR personnel, subcontractors, and visitors.

During field activities, health and safety monitoring was performed using a photoionization detector (PID). The PID was equipped with a 10.2 electron-volt lamp and calibrated, in the field, to 100 parts per million (ppm) isobutylene. As air is drawn through the PID, volatile organic vapors, if present, are ionized by the 10.2 electron-volt lamp which can cause a response on the digital display of the PID. PID readings were taken during field activities within the breathing zones of personnel and at the boring headspace.

2.2 UNDERGROUND UTILITY CLEARANCE AND BORING LOCATION

The Utilities Underground Location Center was notified and all public utilities entering the site were marked at the property boundaries. The four borings were located in an area where no underground utilities were identified and in areas which would provide sufficient data to characterize the general subsurface site conditions.

Boring locations are shown on Figure 1. The monitoring wells were designated as OMW to distinguish the new locations as off-site monitoring wells.

2.3 DRILLING AND SOIL SAMPLING ACTIVITIES

On August 31, 1993, a SEACOR geologist was on-site with the drilling subcontractor, Cascade Drilling, to drill the soil borings. The borings were drilled using a truck-mounted mobile B-61 equipped with 8-inch outside diameter hollow-stem augers. A SEACOR geologist observed the drilling activities and visually classified the soils encountered in accordance with the Unified Soil Classification System (USCS). Geologic and hydrogeologic conditions encountered during drilling were recorded on boring logs (Appendix A). During drilling, soil samples for chemical analysis and logging purposes were collected at 5-foot intervals using a split-spoon sampler. At each sample interval, the sampler was driven 18-inches ahead of the auger using a 140-pound drop hammer. Collected soil samples were logged and monitored for volatile organic vapors using a PID and a portion of soil in the sampler was retained for potential chemical analysis. Soil for potential

chemical analysis was removed from the sampler in a brass tube, sealed, and delivered to the laboratory. The sampling tubes were entered on chain-of-custody forms and placed in a field cooler with blue ice pending delivery to the analytical laboratory. Each sample was uniquely identified with tags denoting the sample number and depth, location, date, job description, and sampler's initials. The tags were securely fixed to each sample container.

All of the soil borings were advanced to a depth of 25 feet. The general geology and hydrogeology were similar to that documented during previous investigations which found uncontrolled fill/glacial outwash overlying glacial till. The borings were terminated within the glacial till at depths of 25 feet.

No PID readings above background levels were observed at any of the sampling locations. Soil samples were collected at five foot intervals and submitted for laboratory analysis. Sample interval depths and PID readings are shown on the boring logs in Appendix A.

The borings were converted to groundwater monitoring wells in accordance with the *Minimum Standards For Construction and Maintenance of Wells*, as outlined in Washington Administrative Code (WAC) Chapter 173-160. The monitoring wells were installed through the hollow-stem augers using 2-inch diameter, flush-threaded, Schedule 40 PVC slotted (0.010-inch slots) and blank casing. The base of the casing string was sealed with a PVC, flush-threaded bottom cap, and the top was covered with a locking expansion plug-type cap.

The slotted interval extended from approximately 10 to 25 feet below ground surface. The annular space between the well casing and the borehole was packed with clean, inert filter sand to approximately 1 foot above the slotted section. A two feet thick bentonite seal was placed above the filter sand, and the remainder of the annulus was filled with "Jet Set" concrete. The well was completed below grade in a watertight, traffic rated meter box, which extends approximately 0.5 inch above surrounding grade so that surface run-off will be diverted away from the wellhead. Monitoring well construction details are provided on the boring logs in Appendix A.

3.0 LABORATORY ANALYSIS AND RESULTS

A total of 20 soil samples were submitted for chemical analysis under chain-of-custody protocol to North Creek Analytical (NCA), located in Bothell, Washington. NCA is accredited through the Washington State Department of Ecology. Samples were contained, handled, and analyzed in accordance with accepted Washington State and/or EPA protocol within specified holding times. Sample containers were clearly labeled with tags securely fixed to the containers, denoting job name and number, sample number, location and depth (if applicable), date, time, and sampler's initials. All samples were analyzed on a rush basis to provide two day turnaround.

All of the soil samples were submitted for analysis to assess for the presence or absence of tetrachloroethene and other volatile organic compounds by EPA Method 8010. Analytical results are summarized on Table 1. Laboratory results are attached in Appendix B.

The results indicate the presence of low levels of tetrachloroethene in 9 of the 20 soil samples analyzed. Only one sample, OMW-2.25.5, was observed at a concentration above the MTCA Method A cleanup level of 0.50 parts per million (ppm). The results of analytical results from soil samples collected during the previous on-site sampling are summarized on Table 2. No tetrachloroethene was found in soil samples collected on-site during the previous investigations.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The results indicate that there are low levels of tetrachloroethene in some of the soil samples collected from the hospital property adjacent to the Kruger Clinic site. The highest concentration was found in OMW-2-25.5, which is the western most monitoring well. The results are contrasted with results from the on-site sampling which did not reveal the presence of concentrations of tetrachloroethene above the laboratory detection limits in any of the soil samples analyzed.

None of the monitoring wells encountered groundwater when they were installed. The existing monitoring wells on the Kruger Clinic property, in which groundwater has previously been observed, were dry at the time the field work was conducted as well. SEACOR recommends that all existing and newly installed monitoring wells be developed and sampled once there is sufficient groundwater. The results of the groundwater samples can then be compared, a hydrologic gradient calculated, and a final report prepared.

5.0 STANDARD LIMITATIONS

The findings and conclusions documented in this report have been prepared for the specific application to this project and have been developed in a manner consistent with that level of care and skill normally exercised by members of the environmental science profession currently practicing under similar conditions in the area. No warranty, expressed or implied, is made. This report is for the exclusive use of Group Clinic R and D and their representatives.

A potential always remains for the presence of unknown, unidentified, or unforeseen subsurface contamination. Further evidence against such potential site contamination would require additional subsurface exploration and testing.

If new information is developed in future site work (which may include excavations, borings, or other studies), SEACOR should be requested to re-evaluate the conclusions of this report, and to provide amendments as required.

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS SUMMARY
ADJACENT PROPERTY
KRUGER CLINIC
EPA Method 8010¹ mg/kg (ppm)

Sample Location	Tetrachloroethene ¹
OMW-1-10.5 ²	ND ³
OMW-1-15.5	ND
OMW-1-20	0.056
OMW-1-25.5	0.075
OMW-1-30.5	0.17
OMW-2-10.5	0.14
OMW-2-15.5	0.24
OMW-2-20.5	0.28
OMW-2-25.5	1.8⁴
OMW-2-30.5	ND
OMW-3-10	ND
OMW-3-15.5	ND
OMW-3-20.5	0.081
OMW-3-25.5	ND
OMW-3-30.5	0.19
OMW-4-10.5	ND
OMW-4-15.5	ND
OMW-4-20.5	ND
OMW-4-25.5	ND
OMW-4-30.5	ND

Notes:

1. All other halogenated volatile organics were not detected above laboratory detection limits.
2. OMW-1-10.5: 1 = Number of well; 10.5 = depth of sample.
3. ND = Not detected above laboratory detection limit.
4. Bold above MTCA Method A cleanup level of 0.5 ppm.

216th STREET

PLANTER

EXISTING MEDICAL
OFFICE BUILDING

SIDEWALK
&
PLANTER

PLANTER

CONCRETE
RETAINING
WALL

ASPHALT
PARKING LOT

SW-2
+ [20.11]
(ND)

SW-7
+ [23.34]
(ND)

SW-3
+ [22.79]
(ND)

SW-4
+ [DRY]

SW-8
+ [DRY]

SW-5
+ [DRY]

SW-1
+ [20.24]
(90)

MW-1

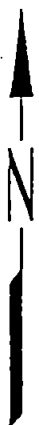
SW-6
+ [22.73]
(3.2)

OMW-2

OMW-1

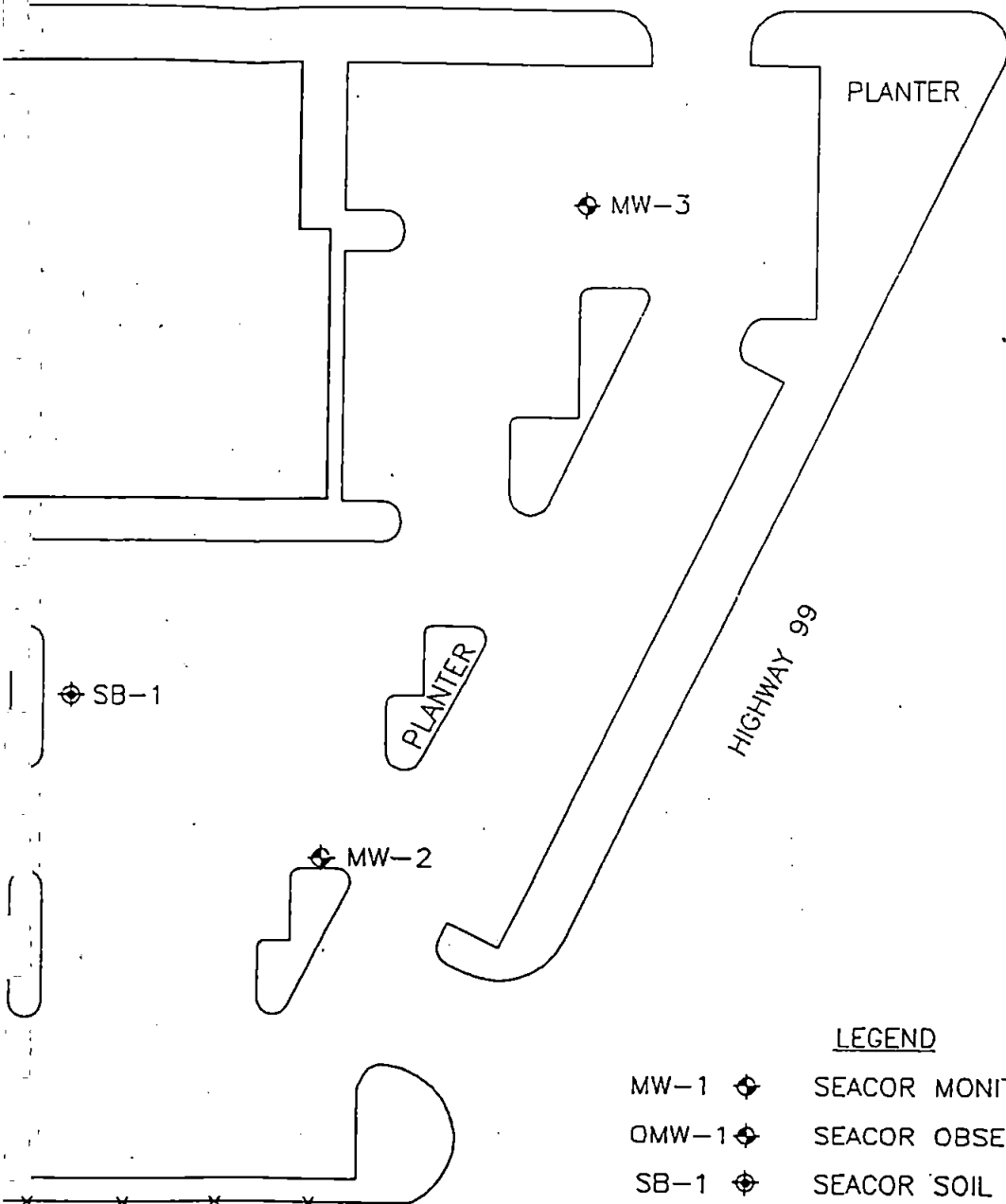
OMW-4

OMW-3



0 50 100

SCALE (FEET)



LEGEND

- MW-1 ◆ SEACOR MONITORING WELL
- OMW-1 ◆ SEACOR OBSERVATION MONITORING WELL
- SB-1 ◆ SEACOR SOIL BORING
- SW-1 + SEACOR SAMPLE WELL
- [23.34] DEPTH TO GROUNDWATER
- (3.2) ppb TETRACHLOROETHENE
- (ND) NOT DETECTED

SEACOR

DWN	CC
APPR	<i>[Signature]</i>
DATE	9/16/93
JOB#	00502-001-02

FIGURE 1
 SITE PLAN
 KRUGER CLINIC
 21600 HIGHWAY 99
 EDMONDS, WASHINGTON

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS SUMMARY
ADJACENT PROPERTY
KRUGER CLINIC
EPA Method 8010¹ mg/kg (ppm)

Sample Location	Tetrachloroethene ¹
OMW-1-10.5 ²	ND ³
OMW-1-15.5	ND
OMW-1-20	0.056
OMW-1-25.5	0.075
OMW-1-30.5	0.17
OMW-2-10.5	0.14
OMW-2-15.5	0.24
OMW-2-20.5	0.28
OMW-2-25.5	1.8 ⁴
OMW-2-30.5	ND
OMW-3-10	ND
OMW-3-15.5	ND
OMW-3-20.5	0.081
OMW-3-25.5	ND
OMW-3-30.5	0.19
OMW-4-10.5	ND
OMW-4-15.5	ND
OMW-4-20.5	ND
OMW-4-25.5	ND
OMW-4-30.5	ND

Notes:

1. All other halogenated volatile organics were not detected above laboratory detection limits.
2. OMW-1-10.5: 1 = Number of well; 10.5 = depth of sample.
3. ND = Not detected above laboratory detection limit.
4. Bold above MTCA Method A cleanup level of 0.5 ppm.

TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS SUMMARY¹
PREVIOUS STUDY RESULTS
ON-SITE SAMPLING
KRUGER CLINIC

Sample Location	Tetrachloroethene
SB-(10-11') ²	ND ³
MW-1 (5-6') ¹	ND
MW-2 (5.5-6.5') ¹	ND
MW-3 (10-10.8') ¹	ND
SW-1 (19')	ND
SW-2 (19')	ND
SW-3 (19')	ND
SW-4 (17.5')	ND
SW-5 (17.5')	ND
SW-5 (25')	ND
SW-6 (18.5')	ND
SW-7 (16.5')	ND
SW-8 (18.5')	ND
SW-8 (25')	ND

Notes:

1. Samples collected 1/27/93 and 3/6/93.
2. Numbers in () designate depth of sample.
3. ND = Not detected above laboratory detection limit.

**APPENDIX A
BORING LOGS**

SEACOR

BORING LOG

BORING: OMW-1

PAGE 1 OF 1

PROJECT KRUGER CLINIC

LOCATION 21600 HIGHWAY 99
EDMONDS, WASHINGTON

SURFACE ELEVATION

CASING TOP ELEVATION

START 8/31/93 0854

FINISH 8/31/93 0942

SAMPLER D. DELL'AGNESE

MONITORING DEVICE PID

SUBCONTRACTOR AND EQUIPMENT CASCADE DRILLING INC.

COMMENTS

PENETRATION RESULTS	Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification	Boring Abandonment/ Well Construction Details
BLOWS 6" / 6" / 6"						
70		NA	0			Monument
			5	SILTY SAND Yellowish Brown 10YR5/4 Coarse to Fine, some Coarse to Fine Gravel, some Silt, Dense, slightly Moist (30,55,15,0)	SM	Concrete
			10	SILTY SAND Dark Yellowish Brown 10YR4/4 Coarse to Fine, some Fine Gravel, some Clay, Dense, slightly Moist (5,80,15,0) thin laminations and beds of silt with mottling, thin beds of medium sand, rare lamination of silt and clay	SM	Bentonite Chips
30/32/35		6.2	15	SAND Dark Yellowish Brown 10YR4/4 Brown 10YR5/3 Coarse to Fine Sand, rare Silt, Very Dense, Slightly Moist (0,98,2,0)	SW	2" SCH 40 PVC Blank
38/50		18.2	20	SAND Brown 10YR5/3 Coarse to Fine, Very Dense, slightly Moist (0,100,0,0)	SW	Colorado Silica 10/20 Sand
50/50		8.4	25	SILTY SAND Brown 10YR5/3 Yellowish Brown 10YR5/4, Coarse to Fine Sand, rare Silt, Very Dense, slightly Moist (0,95,5,0)	SM	2" SCH 40 PVC Casing (0.010" Slot)
45/50		10.3	30	SANDY SILT Light Olive Brown 2.5YR5/3 trace Clay, Very Hard, Moist (0,30,65,2) stringers	ML	Bottom Cap
32/50		8.7	35			

SEACOR

BORING LOG

BORING: OMW-2

PAGE 1 OF 1

PROJECT KRUGER CLINIC

LOCATION 21600 HIGHWAY 99
EDMONDS, WASHINGTON

SURFACE ELEVATION

CASING TOP ELEVATION

START 8/31/93 0957

FINISH 8/31/93 1045

SAMPLER D. DELL'AGNESE

MONITORING DEVICE PID

SUBCONTRACTOR AND EQUIPMENT CASCADE DRILLING INC.

COMMENTS

PENETRATION RESULTS	Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification	Boring Abandonment/ Well Construction Details
BLOWS 6" / 6" / 6"						
40/50(5")		25.8	0	SILTY SAND Light Brownish Gray 10YR6/2 Brown 10YR5/3 Coarse to Fine, some Silt, some Clay, Very Dense, slightly Moist (0.80,19,1) thin laminations of silt and clay rich layers	SM	
31/42/50 (3")		18.6	5	Pale Brown 10YR6/3 Brown 10YR5/3 SAA slightly Moist, rare Gravel, Very Dense		
32/50(6")		9.7	10	SILTY SAND/SANDY SILT Light Olive Brown 2.5YR5/4 Brown 10YR5/3, mottled with rust colors, Coarse to Fine Sand, Silt, some Clay Very Dense, slightly Moist (0.79,20,1) interbedded coarse sand layers with silt rich layers, strong rust mottling in silts	SM SM ML SP	
23/25/28		16.2	15	SAA	SM	
25/25/28		21.7	20	SILTY SAND 10YR5/1 Gray mottled with rust colors in sections, Medium to Fine Sand, some Silt, rare Fine Gravel, rare Clay, Very Dense, slightly Moist (5.50,44,1)	SM	
38/50		4.2	25	SILTY SAND Gray NS slightly Greenish SAA slight increase in Sand (5.60,34,1)	SM	
			30			
			35			

SEACOR

BORING LOG

BORING: OMW-3

PAGE 1 OF 1

PROJECT KRUGER CLINIC

LOCATION 21600 HIGHWAY 99
EDMONDS, WASHINGTON

SURFACE ELEVATION

CASING TOP ELEVATION

START 8/31/93 1052

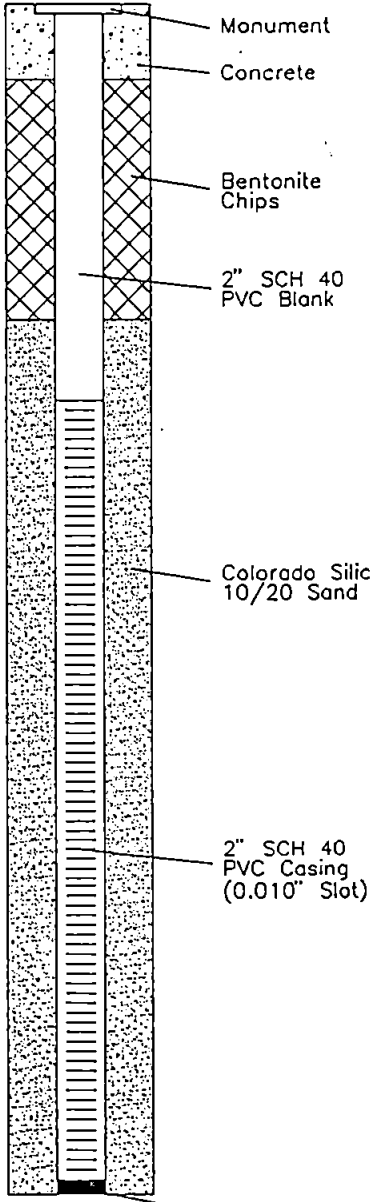
FINISH 8/31/93 1121

SAMPLER D. DELL'AGNESE

MONITORING DEVICE PID

SUBCONTRACTOR AND EQUIPMENT CASCADE DRILLING INC.

COMMENTS

PENETRATION RESULTS	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification	Boring Abandonment/ Well Construction Details
BLOWS 6" / 6" / 6"						
70		10.1	5	SILTY SAND Brown 10YR5/3 Coarse to Fine, some Medium to Fine Gravel, some Silt, Dense to Gravels, slightly Moist (25,60,15,0)	SM	 <p>Monument</p> <p>Concrete</p> <p>Bentonite Chips</p> <p>2" SCH 40 PVC Blank</p> <p>Colorado Silica 10/20 Sand</p> <p>2" SCH 40 PVC Casing (0.010" Slot)</p> <p>Bottom Cap</p>
80		9.3	10	SAA	SM	
72		6.4	15	SAND Brown 10YR4/3 mottled, Coarse to Fine, some Silt, Dense, slightly Moist (0,98,2,0)	SW	
32/45/50		8.9	20	SAA	SW	
32/38/41		11.4	25	SILTY SAND Very mottled, Yellowish Brown 10YR5/4, Brown 10YR5/3 and Rust colors, Medium to Fine Sand, some Silt, some Clay, very Dense, slightly Moist (0,50,45,5) some lamination of silt rich layers	SM	
32/50		7.5	30	SILTY SAND Gray to Greenish Gray 5GY6/1 strongly mottled with rust colors, Medium to Fine Sand, some Silt, rare Clay, Very Dense, slightly Moist (0,50,45,5) some stringers of coarse Sand with strong rust colors, some interbedded layers rich in silt	SM	
			35			

SEACOR

BORING LOG

BORING: OMW-4

PAGE 1 OF 1

PROJECT KRUGER CLINIC

LOCATION 21600 HIGHWAY 99
EDMONDS, WASHINGTON

SURFACE ELEVATION

CASING TOP ELEVATION

START 8/31/93 1141

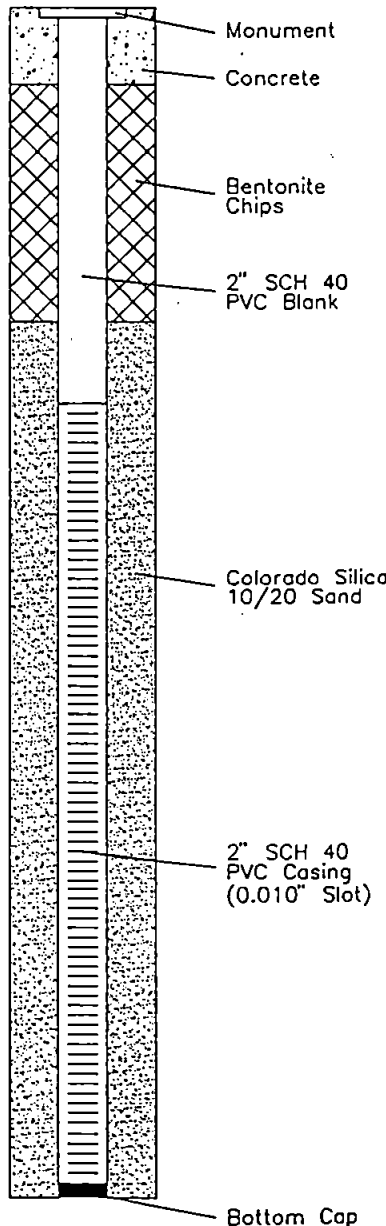
FINISH 8/31/93 1221

SAMPLER D. DELL'AGNESE

MONITORING DEVICE PID

SUBCONTRACTOR AND EQUIPMENT CASCADE DRILLING INC.

COMMENTS

PENETRATION RESULTS	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification	Boring Abandonment/ Well Construction Details
BLOWS 6" / 6" / 6"						
70		15.5	0	SILTY SAND Brown 10YR5/3 Coarse to Fine, some Coarse to Fine Gravel, some Silt, rare Clay, Dense, slightly Moist (35,50,14,1)	SM	
24/30/36		19.2	5	SAND Brown 10YR5/3 Coarse to Fine, some Silt, Medium Dense, slightly Moist (0.98,2,0)	SW	
35/50		8.6	10	SILTY SAND Brown 10YR5/3 with Grayish Brown 10YR5/2 Coarse to Fine, some Silt, rare Clay, Dense slightly Moist (0.80,19,1) thin laminates of silt rich with clay layers, some rust color, mottling	SM ML SM	
40/50		4.1	15	SAND Brown 10YR5/3 mottled, Coarse to Fine, rare Silt, Dense, slightly Moist (0.99,1,0)	SW	
32/50		9.2	20	SILTY SAND Grayish Brown 10YR4/2 Coarse to Fine, some Silt, rare Clay, Very Dense, slightly Moist (0.70,29,1) thin layers and stringers of silt rich and clays, stringers of coarse sand with rust colors	SM	
34/50		8.5	25	SILTY SAND Grayish Brown 10YR5/2 Medium to Fine Sand, some Silt, rare Clay, Very Dense, Moist (0.50,45,5) stringers of coarse sand-thin silt rich layers and clay	SM	
			30			
			35			

APPENDIX B
LABORATORY REPORTS AND
CHAIN-OF-CUSTODY RECORDS



18939 120th Avenue N.E., Suite 101 • Bothell, WA 98011-2569
Phone (206) 481-9200 • FAX (206) 485-2992

SEACOR Client Project ID: #00502-001-02
11040 Main Street, #240 Sample Matrix: Soil
Bellevue, WA 98004
Attention: Peter Jewett First Sample #: 309-0005

Received: Sep 1, 1993
Reported: Sep 9, 1993

TOTAL SOLIDS & MOISTURE CONTENT REPORT

Sample Number	Sample Description	Total Solids %	Moisture Content %
309-0005	OMW-1-10.5	84	16
309-0006	OMW-1-15.5	82	18
309-0007	OMW-1-20	96	4.0
309-0008	OMW-1-25.5	90	10
309-0009	OMW-1-30.5	81	19
309-0010	OMW-2-10.5	83	17
309-0011	OMW-2-15.5	90	10
309-0012	OMW-2-20.5	91	9.0
309-0013	OMW-2-25.5	84	16
309-0014	OMW-2-30.5	85	15
309-0015	OMW-3-10	94	6.0

The enclosed analytical results for soils, sediments and sludges have been converted to a DRY WEIGHT reporting basis.
To attain the wet weight "as received" equivalent, multiply the dry weight result by the decimal fraction of percent Total Solids.
The results in this report apply to the samples analyzed in accordance with the chain of custody document.
This analytical report must be reproduced in its entirety.

NORTH CREEK ANALYTICAL Inc.


Matthew T. Essig
Project Manager


SEACOR	Client Project ID: #00502-001-02	
11040 Main Street, #240	Sample Matrix: Soil	
Bellevue, WA 98004		Received: Sep 1, 1993
Attention: Peter Jewett	First Sample #: 309-0016	Reported: Sep 9, 1993

TOTAL SOLIDS & MOISTURE CONTENT REPORT

Sample Number	Sample Description	Total Solids %	Moisture Content %
309-0016	OMW-3-15.5	93	7.0
309-0017	OMW-3-20.5	96	4.0
309-0018	OMW-3-25.5	83	17
309-0019	OMW-3-30.5	86	14
309-0020	OMW-4-10.5	93	7.0
309-0021	OMW-4-15.5	96	4.0
309-0022	OMW-4-20.5	97	3.0
309-0023	OMW-4-25.5	80	20
309-0024	OMW-4-30.5	79	21

The enclosed analytical results for soils, sediments and sludges have been converted to a DRY WEIGHT reporting basis.
To attain the wet weight "as received" equivalent, multiply the dry weight result by the decimal fraction of percent Total Solids.
The results in this report apply to the samples analyzed in accordance with the chain of custody document.
This analytical report must be reproduced in its entirety.

NORTH CREEK ANALYTICAL Inc.


Matthew T. Essig
Project Manager

SEACOR	Client Project ID: #00502-001-02	Sampled: Aug 31, 1993
11040 Main Street, #240	Sample Descript: Soil, OMW-1-10.5	Received: Sep 1, 1993
Bellevue, WA 98004	Analysis Method: EPA 8010	Analyzed: Sep 2, 1993
Attention: Peter Jewett	Sample Number: 309-0005	Reported: Sep 9, 1993

HALOGENATED VOLATILE ORGANICS

Analyte	Reporting Limit mg/kg (ppm)	Sample Results mg/kg (ppm)
Bromodichloromethane.....	0.050	N.D.
Bromoform.....	0.050	N.D.
Bromomethane.....	0.050	N.D.
Carbon tetrachloride.....	0.050	N.D.
Chlorobenzene.....	0.050	N.D.
Chloroethane.....	0.050	N.D.
Chloroform.....	0.050	N.D.
Chloromethane.....	0.050	N.D.
Dibromochloromethane.....	0.050	N.D.
1,2-Dichlorobenzene.....	0.050	N.D.
1,3-Dichlorobenzene.....	0.050	N.D.
1,4-Dichlorobenzene.....	0.050	N.D.
1,1-Dichloroethane.....	0.050	N.D.
1,2-Dichloroethane.....	0.050	N.D.
1,1-Dichloroethene.....	0.050	N.D.
cis 1,2-Dichloroethene.....	0.050	N.D.
trans 1,2-Dichloroethene.....	0.050	N.D.
1,2-Dichloropropane.....	0.050	N.D.
cis-1,3-Dichloropropene.....	0.050	N.D.
trans-1,3-Dichloropropene.....	0.050	N.D.
Methylene chloride.....	0.50	N.D.
1,1,2,2-Tetrachloroethane.....	0.050	N.D.
Tetrachloroethene.....	0.050	N.D.
1,1,1-Trichloroethane.....	0.050	N.D.
1,1,2-Trichloroethane.....	0.050	N.D.
Trichloroethene.....	0.050	N.D.
Trichlorofluoromethane.....	0.050	N.D.
Vinyl chloride.....	0.050	N.D.

4-Bromofluorobenzene Surrogate Recovery, %: 81

Surrogate Recovery Control Limits are 58 - 131 %.

The results reported above are on a dry weight basis.

Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Matthew T. Essig
Matthew T. Essig
Project Manager



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SEACOR	Client Project ID: #00502-001-02	Sampled: Aug 31, 1993
11040 Main Street, #240	Sample Descript: Soil, OMW-1-15.5	Received: Sep 1, 1993
Bellevue, WA 98004	Analysis Method: EPA 8010	Analyzed: Sep 2, 1993
Attention: Peter Jewett	Sample Number: 309-0006	Reported: Sep 9, 1993

HALOGENATED VOLATILE ORGANICS

Analyte	Reporting Limit mg/kg (ppm)	Sample Results mg/kg (ppm)
Bromodichloromethane.....	0.050	N.D.
Bromoform.....	0.050	N.D.
Bromomethane.....	0.050	N.D.
Carbon tetrachloride.....	0.050	N.D.
Chlorobenzene.....	0.050	N.D.
Chloroethane.....	0.050	N.D.
Chloroform.....	0.050	N.D.
Chloromethane.....	0.050	N.D.
Dibromochloromethane.....	0.050	N.D.
1,2-Dichlorobenzene.....	0.050	N.D.
1,3-Dichlorobenzene.....	0.050	N.D.
1,4-Dichlorobenzene.....	0.050	N.D.
1,1-Dichloroethane.....	0.050	N.D.
1,2-Dichloroethane.....	0.050	N.D.
1,1-Dichloroethene.....	0.050	N.D.
cis 1,2-Dichloroethene.....	0.050	N.D.
trans 1,2-Dichloroethene.....	0.050	N.D.
1,2-Dichloropropane.....	0.050	N.D.
cis-1,3-Dichloropropene.....	0.050	N.D.
trans-1,3-Dichloropropene.....	0.050	N.D.
Methylene chloride.....	0.25	N.D.
1,1,2,2-Tetrachloroethane.....	0.050	N.D.
Tetrachloroethene.....	0.050	N.D.
1,1,1-Trichloroethane.....	0.050	N.D.
1,1,2-Trichloroethane.....	0.050	N.D.
Trichloroethene.....	0.050	N.D.
Trichlorofluoromethane.....	0.050	N.D.
Vinyl chloride.....	0.050	N.D.

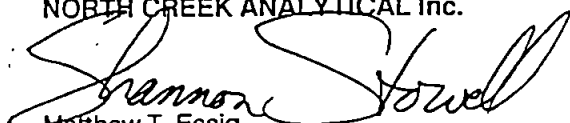
4-Bromofluorobenzene Surrogate Recovery, %: 83

Surrogate Recovery Control Limits are 58 - 131 %.

The results reported above are on a dry weight basis.

Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.


Matthew T. Essig
Project Manager

3090005.SEA <4>



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SEACOR	Client Project ID: #00502-001-02	Sampled: Aug 31, 1993
11040 Main Street, #240	Sample Descript: Soil, OMW-1-20	Received: Sep 1, 1993
Bellevue, WA 98004	Analysis Method: EPA 8010	Analyzed: Sep 2, 1993
Attention: Peter Jewett	Sample Number: 309-0007	Reported: Sep 9, 1993

HALOGENATED VOLATILE ORGANICS

Analyte	Reporting Limit mg/kg (ppm)	Sample Results mg/kg (ppm)
Bromodichloromethane.....	0.050	N.D.
Bromoform.....	0.050	N.D.
Bromomethane.....	0.050	N.D.
Carbon tetrachloride.....	0.050	N.D.
Chlorobenzene.....	0.050	N.D.
Chloroethane.....	0.050	N.D.
Chloroform.....	0.050	N.D.
Chloromethane.....	0.050	N.D.
Dibromochloromethane.....	0.050	N.D.
1,2-Dichlorobenzene.....	0.050	N.D.
1,3-Dichlorobenzene.....	0.050	N.D.
1,4-Dichlorobenzene.....	0.050	N.D.
1,1-Dichloroethane.....	0.050	N.D.
1,2-Dichloroethane.....	0.050	N.D.
1,1-Dichloroethene.....	0.050	N.D.
cis 1,2-Dichloroethene.....	0.050	N.D.
trans 1,2-Dichloroethene.....	0.050	N.D.
1,2-Dichloropropane.....	0.050	N.D.
cis-1,3-Dichloropropene.....	0.050	N.D.
trans-1,3-Dichloropropene.....	0.050	N.D.
Methylene chloride.....	0.50	N.D.
1,1,2,2-Tetrachloroethane.....	0.050	N.D.
Tetrachloroethene.....	0.050	0.056
1,1,1-Trichloroethane.....	0.050	N.D.
1,1,2-Trichloroethane.....	0.050	N.D.
Trichloroethene.....	0.050	N.D.
Trichlorofluoromethane.....	0.050	N.D.
Vinyl chloride.....	0.050	N.D.

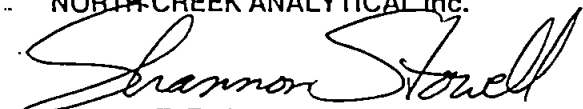
4-Bromofluorobenzene Surrogate Recovery, %: 81

Surrogate Recovery Control Limits are 58 - 131 %.

The results reported above are on a dry weight basis.

Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.


Matthew T. Essig
Project Manager



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SEACOR	Client Project ID: #00502-001-02	Sampled: Aug 31, 1993
11040 Main Street, #240	Sample Descript: Soil, OMW-1-25.5	Received: Sep 1, 1993
Bellevue, WA 98004	Analysis Method: EPA 8010	Analyzed: Sep 2, 1993
Attention: Peter Jewett	Sample Number: 309-0008	Reported: Sep 9, 1993

HALOGENATED VOLATILE ORGANICS

Analyte	Reporting Limit mg/kg (ppm)	Sample Results mg/kg (ppm)
Bromodichloromethane.....	0.050	N.D.
Bromoform.....	0.050	N.D.
Bromomethane.....	0.050	N.D.
Carbon tetrachloride.....	0.050	N.D.
Chlorobenzene.....	0.050	N.D.
Chloroethane.....	0.050	N.D.
Chloroform.....	0.050	N.D.
Chloromethane.....	0.050	N.D.
Dibromochloromethane.....	0.050	N.D.
1,2-Dichlorobenzene.....	0.050	N.D.
1,3-Dichlorobenzene.....	0.050	N.D.
1,4-Dichlorobenzene.....	0.050	N.D.
1,1-Dichloroethane.....	0.050	N.D.
1,2-Dichloroethane.....	0.050	N.D.
1,1-Dichloroethene.....	0.050	N.D.
cis 1,2-Dichloroethene.....	0.050	N.D.
trans 1,2-Dichloroethene.....	0.050	N.D.
1,2-Dichloropropane.....	0.050	N.D.
cis-1,3-Dichloropropene.....	0.050	N.D.
trans-1,3-Dichloropropene.....	0.050	N.D.
Methylene chloride.....	0.50	N.D.
1,1,2,2-Tetrachloroethane.....	0.050	N.D.
Tetrachloroethene.....	0.050	0.075
1,1,1-Trichloroethane.....	0.050	N.D.
1,1,2-Trichloroethane.....	0.050	N.D.
Trichloroethene.....	0.050	N.D.
Trichlorofluoromethane.....	0.050	N.D.
Vinyl chloride.....	0.050	N.D.

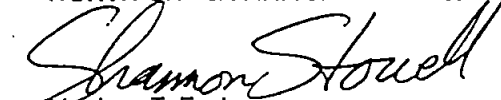
4-Bromofluorobenzene Surrogate Recovery, %: 93

Surrogate Recovery Control Limits are 58 - 131 %.

The results reported above are on a dry weight basis.

Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.


Matthew T. Essig
Project Manager

3090005.SEA <6>



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SEACOR	Client Project ID: #00502-001-02	Sampled: Aug 31, 1993
11040 Main Street, #240	Sample Descript: Soil, OMW-1-30.5	Received: Sep 1, 1993
Bellevue, WA 98004	Analysis Method: EPA 8010	Analyzed: Sep 2, 1993
Attention: Peter Jewett	Sample Number: 309-0009	Reported: Sep 9, 1993

HALOGENATED VOLATILE ORGANICS

Analyte	Reporting Limit mg/kg (ppm)	Sample Results mg/kg (ppm)
Bromodichloromethane.....	0.050	N.D.
Bromoform.....	0.050	N.D.
Bromomethane.....	0.050	N.D.
Carbon tetrachloride.....	0.050	N.D.
Chlorobenzene.....	0.050	N.D.
Chloroethane.....	0.050	N.D.
Chloroform.....	0.050	N.D.
Chloromethane.....	0.050	N.D.
Dibromochloromethane.....	0.050	N.D.
1,2-Dichlorobenzene.....	0.050	N.D.
1,3-Dichlorobenzene.....	0.050	N.D.
1,4-Dichlorobenzene.....	0.050	N.D.
1,1-Dichloroethane.....	0.050	N.D.
1,2-Dichloroethane.....	0.050	N.D.
1,1-Dichloroethene.....	0.050	N.D.
cis 1,2-Dichloroethene.....	0.050	N.D.
trans 1,2-Dichloroethene.....	0.050	N.D.
1,2-Dichloropropane.....	0.050	N.D.
cis-1,3-Dichloropropene.....	0.050	N.D.
trans-1,3-Dichloropropene.....	0.050	N.D.
Methylene chloride.....	0.25	N.D.
1,1,2,2-Tetrachloroethane.....	0.050	N.D.
Tetrachloroethene.....	0.050	0.17
1,1,1-Trichloroethane.....	0.050	N.D.
1,1,2-Trichloroethane.....	0.050	N.D.
Trichloroethene.....	0.050	N.D.
Trichlorofluoromethane.....	0.050	N.D.
Vinyl chloride.....	0.050	N.D.

4-Bromofluorobenzene Surrogate Recovery, %: 82

Surrogate Recovery Control Limits are 58 - 131 %.

The results reported above are on a dry weight basis.

Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.


Matthew T. Essig
Project Manager

3090005.SEA <7>



18939 120th Avenue N.E., Suite 101 • Bothell, WA 98011-2569
Phone (206) 481-9200 • FAX (206) 485-2992

SEACOR	Client Project ID: #00502-001-02	Sampled: Aug 31, 1993
11040 Main Street, #240	Sample Descript: Soil, OMW-2-10.5	Received: Sep 1, 1993
Bellevue, WA 98004	Analysis Method: EPA 8010	Analyzed: Sep 2, 1993
Attention: Peter Jewett	Sample Number: 309-0010	Reported: Sep 9, 1993

HALOGENATED VOLATILE ORGANICS

Analyte	Reporting Limit mg/kg (ppm)	Sample Results mg/kg (ppm)
Bromodichloromethane.....	0.050	N.D.
Bromoform.....	0.050	N.D.
Bromomethane.....	0.050	N.D.
Carbon tetrachloride.....	0.050	N.D.
Chlorobenzene.....	0.050	N.D.
Chloroethane.....	0.050	N.D.
Chloroform.....	0.050	N.D.
Chloromethane.....	0.050	N.D.
Dibromochloromethane.....	0.050	N.D.
1,2-Dichlorobenzene.....	0.050	N.D.
1,3-Dichlorobenzene.....	0.050	N.D.
1,4-Dichlorobenzene.....	0.050	N.D.
1,1-Dichloroethane.....	0.050	N.D.
1,2-Dichloroethane.....	0.050	N.D.
1,1-Dichloroethene.....	0.050	N.D.
cis 1,2-Dichloroethene.....	0.050	N.D.
trans 1,2-Dichloroethene.....	0.050	N.D.
1,2-Dichloropropane.....	0.050	N.D.
cis-1,3-Dichloropropene.....	0.050	N.D.
trans-1,3-Dichloropropene.....	0.050	N.D.
Methylene chloride.....	0.50	N.D.
1,1,2,2-Tetrachloroethane.....	0.050	N.D.
Tetrachloroethene.....	0.050	0.14
1,1,1-Trichloroethane.....	0.050	N.D.
1,1,2-Trichloroethane.....	0.050	N.D.
Trichloroethene.....	0.050	N.D.
Trichlorofluoromethane.....	0.050	N.D.
Vinyl chloride.....	0.050	N.D.

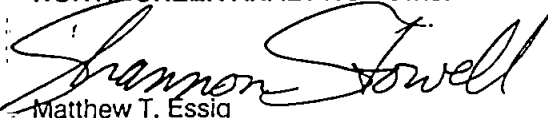
4-Bromofluorobenzene Surrogate Recovery, %: 75

Surrogate Recovery Control Limits are 58 - 131 %.

The results reported above are on a dry weight basis.

Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.


Matthew T. Essig
Project Manager

3090005.SEA <8>

SEACOR	Client Project ID: #00502-001-02	Sampled: Aug 31, 1993
11040 Main Street, #240	Sample Descript: Soil, OMW-2-15.5	Received: Sep 1, 1993
Bellevue, WA 98004	Analysis Method: EPA 8010	Analyzed: Sep 2, 1993
Attention: Peter Jewett	Sample Number: 309-0011	Reported: Sep 9, 1993

HALOGENATED VOLATILE ORGANICS

Analyte	Reporting Limit mg/kg (ppm)	Sample Results mg/kg (ppm)
Bromodichloromethane.....	0.050	N.D.
Bromoform.....	0.050	N.D.
Bromomethane.....	0.050	N.D.
Carbon tetrachloride.....	0.050	N.D.
Chlorobenzene.....	0.050	N.D.
Chloroethane.....	0.050	N.D.
Chloroform.....	0.050	N.D.
Chloromethane.....	0.050	N.D.
Dibromochloromethane.....	0.050	N.D.
1,2-Dichlorobenzene.....	0.050	N.D.
1,3-Dichlorobenzene.....	0.050	N.D.
1,4-Dichlorobenzene.....	0.050	N.D.
1,1-Dichloroethane.....	0.050	N.D.
1,2-Dichloroethane.....	0.050	N.D.
1,1-Dichloroethene.....	0.050	N.D.
cis 1,2-Dichloroethene.....	0.050	N.D.
trans 1,2-Dichloroethene.....	0.050	N.D.
1,2-Dichloropropane.....	0.050	N.D.
cis-1,3-Dichloropropene.....	0.050	N.D.
trans-1,3-Dichloropropene.....	0.050	N.D.
Methylene chloride.....	0.25	N.D.
1,1,2,2-Tetrachloroethane.....	0.050	N.D.
Tetrachloroethene.....	0.050	0.24
1,1,1-Trichloroethane.....	0.050	N.D.
1,1,2-Trichloroethane.....	0.050	N.D.
Trichloroethene.....	0.050	N.D.
Trichlorofluoromethane.....	0.050	N.D.
Vinyl chloride.....	0.050	N.D.

4-Bromofluorobenzene Surrogate Recovery, %: 80

Surrogate Recovery Control Limits are 58 - 131 %.

The results reported above are on a dry weight basis.

Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Shannon Stowell
Matthew T. Essig
Project Manager



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SEACOR	Client Project ID: #00502-001-02	Sampled: Aug 31, 1993
11040 Main Street, #240	Sample Descript: Soil, OMW-2-20.5	Received: Sep 1, 1993
Bellevue, WA 98004	Analysis Method: EPA 8010	Analyzed: Sep 2, 1993
Attention: Peter Jewett	Sample Number: 309-0012	Reported: Sep 9, 1993

HALOGENATED VOLATILE ORGANICS

Analyte	Reporting Limit mg/kg (ppm)	Sample Results mg/kg (ppm)
Bromodichloromethane.....	0.050	N.D.
Bromoform.....	0.050	N.D.
Bromomethane.....	0.050	N.D.
Carbon tetrachloride.....	0.050	N.D.
Chlorobenzene.....	0.050	N.D.
Chloroethane.....	0.050	N.D.
Chloroform.....	0.050	N.D.
Chloromethane.....	0.050	N.D.
Dibromochloromethane.....	0.050	N.D.
1,2-Dichlorobenzene.....	0.050	N.D.
1,3-Dichlorobenzene.....	0.050	N.D.
1,4-Dichlorobenzene.....	0.050	N.D.
1,1-Dichloroethane.....	0.050	N.D.
1,2-Dichloroethane.....	0.050	N.D.
1,1-Dichloroethene.....	0.050	N.D.
cis 1,2-Dichloroethene.....	0.050	N.D.
trans 1,2-Dichloroethene.....	0.050	N.D.
1,2-Dichloropropane.....	0.050	N.D.
cis-1,3-Dichloropropene.....	0.050	N.D.
trans-1,3-Dichloropropene.....	0.050	N.D.
Methylene chloride.....	0.25	N.D.
1,1,2,2-Tetrachloroethane.....	0.050	N.D.
Tetrachloroethene.....	0.050	0.28
1,1,1-Trichloroethane.....	0.050	N.D.
1,1,2-Trichloroethane.....	0.050	N.D.
Trichloroethene.....	0.050	N.D.
Trichlorofluoromethane.....	0.050	N.D.
Vinyl chloride.....	0.050	N.D.


4-Bromofluorobenzene Surrogate Recovery, %: 82

Surrogate Recovery Control Limits are 58 - 131 %.

The results reported above are on a dry weight basis.

Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.


Matthew T. Essig
Project Manager

SEACOR	Client Project ID: #00502-001-02	Sampled: Aug 31, 1993
11040 Main Street, #240	Sample Descript: Soil, OMW-2-25.5	Received: Sep 1, 1993
Bellevue, WA 98004	Analysis Method: EPA 8010	Analyzed: Sep 2, 1993
Attention: Peter Jewett	Sample Number: 309-0013	Reported: Sep 9, 1993

HALOGENATED VOLATILE ORGANICS

Analyte	Reporting Limit mg/kg (ppm)	Sample Results mg/kg (ppm)
Bromodichloromethane.....	0.050	N.D.
Bromoform.....	0.050	N.D.
Bromomethane.....	0.050	N.D.
Carbon tetrachloride.....	0.050	N.D.
Chlorobenzene.....	0.050	N.D.
Chloroethane.....	0.050	N.D.
Chloroform.....	0.050	N.D.
Chloromethane.....	0.050	N.D.
Dibromochloromethane.....	0.050	N.D.
1,2-Dichlorobenzene.....	0.050	N.D.
1,3-Dichlorobenzene.....	0.050	N.D.
1,4-Dichlorobenzene.....	0.050	N.D.
1,1-Dichloroethane.....	0.050	N.D.
1,2-Dichloroethane.....	0.050	N.D.
1,1-Dichloroethene.....	0.050	N.D.
cis 1,2-Dichloroethene.....	0.050	N.D.
trans 1,2-Dichloroethene.....	0.050	N.D.
1,2-Dichloropropane.....	0.050	N.D.
cis-1,3-Dichloropropene.....	0.050	N.D.
trans-1,3-Dichloropropene.....	0.050	N.D.
Methylene chloride.....	0.50	N.D.
1,1,2,2-Tetrachloroethane.....	0.050	N.D.
Tetrachloroethene.....	0.050	1.8
1,1,1-Trichloroethane.....	0.050	N.D.
1,1,2-Trichloroethane.....	0.050	N.D.
Trichloroethene.....	0.050	N.D.
Trichlorofluoromethane.....	0.050	N.D.
Vinyl chloride.....	0.050	N.D.

4-Bromofluorobenzene Surrogate Recovery, %: 85

Surrogate Recovery Control Limits are 58 - 131 %.

The results reported above are on a dry weight basis.

Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Sharon Stowell
Matthew T. Essig
Project Manager



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SEACOR	Client Project ID: #00502-001-02	Sampled: Aug 31, 1993
11040 Main Street, #240	Sample Descript: Soil, OMW-2-30.5	Received: Sep 1, 1993
Bellevue, WA 98004	Analysis Method: EPA 8010	Analyzed: Sep 2, 1993
Attention: Peter Jewett	Sample Number: 309-0014	Reported: Sep 9, 1993

HALOGENATED VOLATILE ORGANICS

Analyte	Reporting Limit mg/kg (ppm)	Sample Results mg/kg (ppm)
Bromodichloromethane.....	0.050	N.D.
Bromoform.....	0.050	N.D.
Bromomethane.....	0.050	N.D.
Carbon tetrachloride.....	0.050	N.D.
Chlorobenzene.....	0.050	N.D.
Chloroethane.....	0.050	N.D.
Chloroform.....	0.050	N.D.
Chloromethane.....	0.050	N.D.
Dibromochloromethane.....	0.050	N.D.
1,2-Dichlorobenzene.....	0.050	N.D.
1,3-Dichlorobenzene.....	0.050	N.D.
1,4-Dichlorobenzene.....	0.050	N.D.
1,1-Dichloroethane.....	0.050	N.D.
1,2-Dichloroethane.....	0.050	N.D.
1,1-Dichloroethene.....	0.050	N.D.
cis 1,2-Dichloroethene.....	0.050	N.D.
trans 1,2-Dichloroethene.....	0.050	N.D.
1,2-Dichloropropane.....	0.050	N.D.
cis-1,3-Dichloropropene.....	0.050	N.D.
trans-1,3-Dichloropropene.....	0.050	N.D.
Methylene chloride.....	0.25	N.D.
1,1,2,2-Tetrachloroethane.....	0.050	N.D.
Tetrachloroethene.....	0.050	N.D.
1,1,1-Trichloroethane.....	0.050	N.D.
1,1,2-Trichloroethane.....	0.050	N.D.
Trichloroethene.....	0.050	N.D.
Trichlorofluoromethane.....	0.050	N.D.
Vinyl chloride.....	0.050	N.D.

4-Bromofluorobenzene Surrogate Recovery, %: 90

Surrogate Recovery Control Limits are 58 - 131 %.

The results reported above are on a dry weight basis.

Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Matthew T. Essig
Project Manager

SEACOR	Client Project ID: #00502-001-02	Sampled: Aug 31, 1993
11040 Main Street, #240	Sample Descript: Soil, OMW-3-10	Received: Sep 1, 1993
Bellevue, WA 98004	Analysis Method: EPA 8010	Analyzed: Sep 2, 1993
Attention: Peter Jewett	Sample Number: 309-0015	Reported: Sep 9, 1993

HALOGENATED VOLATILE ORGANICS

Analyte	Reporting Limit mg/kg (ppm)	Sample Results mg/kg (ppm)
Bromodichloromethane.....	0.050	N.D.
Bromoform.....	0.050	N.D.
Bromomethane.....	0.050	N.D.
Carbon tetrachloride.....	0.050	N.D.
Chlorobenzene.....	0.050	N.D.
Chloroethane.....	0.050	N.D.
Chloroform.....	0.050	N.D.
Chloromethane.....	0.050	N.D.
Dibromochloromethane.....	0.050	N.D.
1,2-Dichlorobenzene.....	0.050	N.D.
1,3-Dichlorobenzene.....	0.050	N.D.
1,4-Dichlorobenzene.....	0.050	N.D.
1,1-Dichloroethane.....	0.050	N.D.
1,2-Dichloroethane.....	0.050	N.D.
1,1-Dichloroethene.....	0.050	N.D.
cis 1,2-Dichloroethene.....	0.050	N.D.
trans 1,2-Dichloroethene.....	0.050	N.D.
1,2-Dichloropropane.....	0.050	N.D.
cis-1,3-Dichloropropene.....	0.050	N.D.
trans-1,3-Dichloropropene.....	0.050	N.D.
Methylene chloride.....	0.25	N.D.
1,1,1,2-Tetrachloroethane.....	0.050	N.D.
Tetrachloroethene.....	0.050	N.D.
1,1,1-Trichloroethane.....	0.050	N.D.
1,1,2-Trichloroethane.....	0.050	N.D.
Trichloroethene.....	0.050	N.D.
Trichlorofluoromethane.....	0.050	N.D.
Vinyl chloride.....	0.050	N.D.

4-Bromofluorobenzene Surrogate Recovery, %: S-2

Surrogate Recovery Control Limits are 58 - 131 %.

The results reported above are on a dry weight basis.

Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc. Please Note:

S-2 = The Surrogate Recovery for this sample is not available due to coelution with other organic compounds present in the sample.

Matthew T. Essig
Project Manager

SEACOR	Client Project ID: #00502-001-02	Sampled: Aug 31, 1993
11040 Main Street, #240	Sample Descript: Soil, OMW-3-15.5	Received: Sep 1, 1993
Bellevue, WA 98004	Analysis Method: EPA 8010	Analyzed: Sep 2, 1993
Attention: Peter Jewett	Sample Number: 309-0016	Reported: Sep 9, 1993

HALOGENATED VOLATILE ORGANICS

Analyte	Reporting Limit mg/kg (ppm)	Sample Results mg/kg (ppm)
Bromodichloromethane.....	0.050	N.D.
Bromoform.....	0.050	N.D.
Bromomethane.....	0.050	N.D.
Carbon tetrachloride.....	0.050	N.D.
Chlorobenzene.....	0.050	N.D.
Chloroethane.....	0.050	N.D.
Chloroform.....	0.050	N.D.
Chloromethane.....	0.050	N.D.
Dibromochloromethane.....	0.050	N.D.
1,2-Dichlorobenzene.....	0.050	N.D.
1,3-Dichlorobenzene.....	0.050	N.D.
1,4-Dichlorobenzene.....	0.050	N.D.
1,1-Dichloroethane.....	0.050	N.D.
1,2-Dichloroethane.....	0.050	N.D.
1,1-Dichloroethene.....	0.050	N.D.
cis 1,2-Dichloroethene.....	0.050	N.D.
trans 1,2-Dichloroethene.....	0.050	N.D.
1,2-Dichloropropane.....	0.050	N.D.
cis-1,3-Dichloropropene.....	0.050	N.D.
trans-1,3-Dichloropropene.....	0.050	N.D.
Methylene chloride.....	0.50	N.D.
1,1,2,2-Tetrachloroethane.....	0.050	N.D.
Tetrachloroethene.....	0.050	N.D.
1,1,1-Trichloroethane.....	0.050	N.D.
1,1,2-Trichloroethane.....	0.050	N.D.
Trichloroethene.....	0.050	N.D.
Trichlorofluoromethane.....	0.050	N.D.
Vinyl chloride.....	0.050	N.D.

4-Bromofluorobenzene Surrogate Recovery, %: 92

Surrogate Recovery Control Limits are 58 - 131 %.

The results reported above are on a dry weight basis.

Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.



Matthew T. Essig
Project Manager

SEACOR	Client Project ID: #00502-001-02	Sampled: Aug 31, 1993
11040 Main Street, #240	Sample Descript: Soil, OMW-3-20.5	Received: Sep 1, 1993
Bellevue, WA 98004	Analysis Method: EPA 8010	Analyzed: Sep 2, 1993
Attention: Peter Jewett	Sample Number: 309-0017	Reported: Sep 9, 1993

HALOGENATED VOLATILE ORGANICS

Analyte	Reporting Limit mg/kg (ppm)	Sample Results mg/kg (ppm)
Bromodichloromethane.....	0.050	N.D.
Bromoform.....	0.050	N.D.
Bromomethane.....	0.050	N.D.
Carbon tetrachloride.....	0.050	N.D.
Chlorobenzene.....	0.050	N.D.
Chloroethane.....	0.050	N.D.
Chloroform.....	0.050	N.D.
Chloromethane.....	0.050	N.D.
Dibromochloromethane.....	0.050	N.D.
1,2-Dichlorobenzene.....	0.050	N.D.
1,3-Dichlorobenzene.....	0.050	N.D.
1,4-Dichlorobenzene.....	0.050	N.D.
1,1-Dichloroethane.....	0.050	N.D.
1,2-Dichloroethane.....	0.050	N.D.
1,1-Dichloroethene.....	0.050	N.D.
cis 1,2-Dichloroethene.....	0.050	N.D.
trans 1,2-Dichloroethene.....	0.050	N.D.
1,2-Dichloropropane.....	0.050	N.D.
cis-1,3-Dichloropropene.....	0.050	N.D.
trans-1,3-Dichloropropene.....	0.050	N.D.
Methylene chloride.....	0.50	N.D.
1,1,2,2-Tetrachloroethane.....	0.050	N.D.
Tetrachloroethene.....	0.050	0.081
1,1,1-Trichloroethane.....	0.050	N.D.
1,1,2-Trichloroethane.....	0.050	N.D.
Trichloroethene.....	0.050	N.D.
Trichlorofluoromethane.....	0.050	N.D.
Vinyl chloride.....	0.050	N.D.

4-Bromofluorobenzene Surrogate Recovery, %: 102

Surrogate Recovery Control Limits are 58 - 131 %.

The results reported above are on a dry weight basis.

Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Shannon Stowell
Matthew T. Essig
Project Manager

SEACOR	Client Project ID: #00502-001-02	Sampled: Aug 31, 1993
11040 Main Street, #240	Sample Descript: Soil, OMW-3-25.5	Received: Sep 1, 1993
Bellevue, WA 98004	Analysis Method: EPA 8010	Analyzed: Sep 2, 1993
Attention: Peter Jewett	Sample Number: 309-0018	Reported: Sep 9, 1993

HALOGENATED VOLATILE ORGANICS

Analyte	Reporting Limit mg/kg (ppm)	Sample Results mg/kg (ppm)
Bromodichloromethane.....	0.050	N.D.
Bromoform.....	0.050	N.D.
Bromomethane.....	0.050	N.D.
Carbon tetrachloride.....	0.050	N.D.
Chlorobenzene.....	0.050	N.D.
Chloroethane.....	0.050	N.D.
Chloroform.....	0.050	N.D.
Chloromethane.....	0.050	N.D.
Dibromochloromethane.....	0.050	N.D.
1,2-Dichlorobenzene.....	0.050	N.D.
1,3-Dichlorobenzene.....	0.050	N.D.
1,4-Dichlorobenzene.....	0.050	N.D.
1,1-Dichloroethane.....	0.050	N.D.
1,2-Dichloroethane.....	0.050	N.D.
1,1-Dichloroethene.....	0.050	N.D.
cis 1,2-Dichloroethene.....	0.050	N.D.
trans 1,2-Dichloroethene.....	0.050	N.D.
1,2-Dichloropropane.....	0.050	N.D.
cis-1,3-Dichloropropene.....	0.050	N.D.
trans-1,3-Dichloropropene.....	0.050	N.D.
Methylene chloride.....	0.50	N.D.
1,1,2,2-Tetrachloroethane.....	0.050	N.D.
Tetrachloroethene.....	0.050	N.D.
1,1,1-Trichloroethane.....	0.050	N.D.
1,1,2-Trichloroethane.....	0.050	N.D.
Trichloroethene.....	0.050	N.D.
Trichlorofluoromethane.....	0.050	N.D.
Vinyl chloride.....	0.050	N.D.

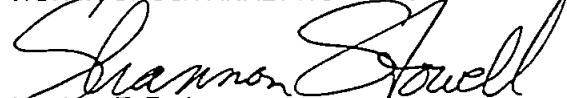
4-Bromofluorobenzene Surrogate Recovery, %: 87

Surrogate Recovery Control Limits are 58 - 131 %.

The results reported above are on a dry weight basis.

Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.


Matthew T. Essig
Project Manager



18939 120th Avenue N.E., Suite 101 • Bothell, WA 98011-2569
Phone (206) 481-9200 • FAX (206) 485-2992

SEACOR	Client Project ID: #00502-001-02	Sampled: Aug 31, 1993
11040 Main Street, #240	Sample Descript: Soil, OMW-3-30.5	Received: Sep 1, 1993
Bellevue, WA 98004	Analysis Method: EPA 8010	Analyzed: Sep 2, 1993
Attention: Peter Jewett	Sample Number: 309-0019	Reported: Sep 9, 1993

HALOGENATED VOLATILE ORGANICS

Analyte	Reporting Limit mg/kg (ppm)	Sample Results mg/kg (ppm)
Bromodichloromethane.....	0.050	N.D.
Bromoform.....	0.050	N.D.
Bromomethane.....	0.050	N.D.
Carbon tetrachloride.....	0.050	N.D.
Chlorobenzene.....	0.050	N.D.
Chloroethane.....	0.050	N.D.
Chloroform.....	0.050	N.D.
Chloromethane.....	0.050	N.D.
Dibromochloromethane.....	0.050	N.D.
1,2-Dichlorobenzene.....	0.050	N.D.
1,3-Dichlorobenzene.....	0.050	N.D.
1,4-Dichlorobenzene.....	0.050	N.D.
1,1-Dichloroethane.....	0.050	N.D.
1,2-Dichloroethane.....	0.050	N.D.
1,1-Dichloroethene.....	0.050	N.D.
cis 1,2-Dichloroethene.....	0.050	N.D.
trans 1,2-Dichloroethene.....	0.050	N.D.
1,2-Dichloropropane.....	0.050	N.D.
cis-1,3-Dichloropropene.....	0.050	N.D.
trans-1,3-Dichloropropene.....	0.050	N.D.
Methylene chloride.....	0.50	N.D.
1,1,2,2-Tetrachloroethane.....	0.050	N.D.
Tetrachloroethene.....	0.050	0.19
1,1,1-Trichloroethane.....	0.050	N.D.
1,1,2-Trichloroethane.....	0.050	N.D.
Trichloroethene.....	0.050	N.D.
Trichlorofluoromethane.....	0.050	N.D.
Vinyl chloride.....	0.050	N.D.

4-Bromofluorobenzene Surrogate Recovery, %: 119

Surrogate Recovery Control Limits are 58 - 131 %.

The results reported above are on a dry weight basis.

Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.


Matthew T. Essig
Project Manager

3090005.SEA <17>

SEACOR	Client Project ID: #00502-001-02	Sampled: Aug 31, 1993
11040 Main Street, #240	Sample Descript: Soil, OMW-4-10.5	Received: Sep 1, 1993
Bellevue, WA 98004	Analysis Method: EPA 8010	Analyzed: Sep 2, 1993
Attention: Peter Jewett	Sample Number: 309-0020	Reported: Sep 9, 1993

HALOGENATED VOLATILE ORGANICS

Analyte	Reporting Limit mg/kg (ppm)	Sample Results mg/kg (ppm)
Bromodichloromethane.....	0.050	N.D.
Bromoform.....	0.050	N.D.
Bromomethane.....	0.050	N.D.
Carbon tetrachloride.....	0.050	N.D.
Chlorobenzene.....	0.050	N.D.
Chloroethane.....	0.050	N.D.
Chloroform.....	0.050	N.D.
Chloromethane.....	0.050	N.D.
Dibromochloromethane.....	0.050	N.D.
1,2-Dichlorobenzene.....	0.050	N.D.
1,3-Dichlorobenzene.....	0.050	N.D.
1,4-Dichlorobenzene.....	0.050	N.D.
1,1-Dichloroethane.....	0.050	N.D.
1,2-Dichloroethane.....	0.050	N.D.
1,1-Dichloroethene.....	0.050	N.D.
cis 1,2-Dichloroethene.....	0.050	N.D.
trans 1,2-Dichloroethene.....	0.050	N.D.
1,2-Dichloropropane.....	0.050	N.D.
cis-1,3-Dichloropropene.....	0.050	N.D.
trans-1,3-Dichloropropene.....	0.050	N.D.
Methylene chloride.....	0.50	N.D.
1,1,2,2-Tetrachloroethane.....	0.050	N.D.
Tetrachloroethene.....	0.050	N.D.
1,1,1-Trichloroethane.....	0.050	N.D.
1,1,2-Trichloroethane.....	0.050	N.D.
Trichloroethene.....	0.050	N.D.
Trichlorofluoromethane.....	0.050	N.D.
Vinyl chloride.....	0.050	N.D.


4-Bromofluorobenzene Surrogate Recovery, %: 82

Surrogate Recovery Control Limits are 58 - 131 %.

The results reported above are on a dry weight basis.

Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.


Matthew T. Essig
Project Manager

SEACOR	Client Project ID: #00502-001-02	Sampled: Aug 31, 1993
11040 Main Street, #240	Sample Descript: Soil, OMW-4-15.5	Received: Sep 1, 1993
Bellevue, WA 98004	Analysis Method: EPA 8010	Analyzed: Sep 2, 1993
Attention: Peter Jewett	Sample Number: 309-0021	Reported: Sep 9, 1993

HALOGENATED VOLATILE ORGANICS

Analyte	Reporting Limit mg/kg (ppm)	Sample Results mg/kg (ppm)
Bromodichloromethane.....	0.050	N.D.
Bromoform.....	0.050	N.D.
Bromomethane.....	0.050	N.D.
Carbon tetrachloride.....	0.050	N.D.
Chlorobenzene.....	0.050	N.D.
Chloroethane.....	0.050	N.D.
Chloroform.....	0.050	N.D.
Chloromethane.....	0.050	N.D.
Dibromochloromethane.....	0.050	N.D.
1,2-Dichlorobenzene.....	0.050	N.D.
1,3-Dichlorobenzene.....	0.050	N.D.
1,4-Dichlorobenzene.....	0.050	N.D.
1,1-Dichloroethane.....	0.050	N.D.
1,2-Dichloroethane.....	0.050	N.D.
1,1-Dichloroethene.....	0.050	N.D.
cis 1,2-Dichloroethene.....	0.050	N.D.
trans 1,2-Dichloroethene.....	0.050	N.D.
1,2-Dichloropropane.....	0.050	N.D.
cis-1,3-Dichloropropene.....	0.050	N.D.
trans-1,3-Dichloropropene.....	0.050	N.D.
Methylene chloride.....	0.25	N.D.
1,1,1,2-Tetrachloroethane.....	0.050	N.D.
Tetrachloroethene.....	0.050	N.D.
1,1,1-Trichloroethane.....	0.050	N.D.
1,1,2-Trichloroethane.....	0.050	N.D.
Trichloroethene.....	0.050	N.D.
Trichlorofluoromethane.....	0.050	N.D.
Vinyl chloride.....	0.050	N.D.

4-Bromofluorobenzene Surrogate Recovery, %: 130

Surrogate Recovery Control Limits are 58 - 131 %.

The results reported above are on a dry weight basis.

Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Shannon Stowell
Matthew T. Essig
Project Manager



18939 120th Avenue N.E., Suite 101• Bothell, WA 98011-2569
Phone (206) 481-9200 • FAX (206) 485-2992

SEACOR	Client Project ID: #00502-001-02	Sampled: Aug 31, 1993
11040 Main Street, #240	Sample Descript: Soil, OMW-4-20.5	Received: Sep 1, 1993
Bellevue, WA 98004	Analysis Method: EPA 8010	Analyzed: Sep 2, 1993
Attention: Peter Jewett	Sample Number: 309-0022	Reported: Sep 9, 1993

HALOGENATED VOLATILE ORGANICS

Analyte	Reporting Limit mg/kg (ppm)	Sample Results mg/kg (ppm)
Bromodichloromethane.....	0.050	N.D.
Bromoform.....	0.050	N.D.
Bromomethane.....	0.050	N.D.
Carbon tetrachloride.....	0.050	N.D.
Chlorobenzene.....	0.050	N.D.
Chloroethane.....	0.050	N.D.
Chloroform.....	0.050	N.D.
Chloromethane.....	0.050	N.D.
Dibromochloromethane.....	0.050	N.D.
1,2-Dichlorobenzene.....	0.050	N.D.
1,3-Dichlorobenzene.....	0.050	N.D.
1,4-Dichlorobenzene.....	0.050	N.D.
1,1-Dichloroethane.....	0.050	N.D.
1,2-Dichloroethane.....	0.050	N.D.
1,1-Dichloroethene.....	0.050	N.D.
cis 1,2-Dichloroethene.....	0.050	N.D.
trans 1,2-Dichloroethene.....	0.050	N.D.
1,2-Dichloropropane.....	0.050	N.D.
cis-1,3-Dichloropropene.....	0.050	N.D.
trans-1,3-Dichloropropene.....	0.050	N.D.
Methylene chloride.....	0.50	N.D.
1,1,2,2-Tetrachloroethane.....	0.050	N.D.
Tetrachloroethene.....	0.050	N.D.
1,1,1-Trichloroethane.....	0.050	N.D.
1,1,2-Trichloroethane.....	0.050	N.D.
Trichloroethene.....	0.050	N.D.
Trichlorofluoromethane.....	0.050	N.D.
Vinyl chloride.....	0.050	N.D.

4-Bromofluorobenzene Surrogate Recovery, %: 99

Surrogate Recovery Control Limits are 58 - 131 %.

The results reported above are on a dry weight basis.

Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Matthew T. Essig

Project Manager



18939 120th Avenue N.E., Suite 101 • Bothell, WA 98011-2569
Phone (206) 481-9200 • FAX (206) 485-2992

SEACOR	Client Project ID: #00502-001-02	Sampled: Aug 31, 1993
11040 Main Street, #240	Sample Descript: Soil, OMW-4-25.5	Received: Sep 1, 1993
Bellevue, WA 98004	Analysis Method: EPA 8010	Analyzed: Sep 2, 1993
Attention: Peter Jewett	Sample Number: 309-0023	Reported: Sep 9, 1993

HALOGENATED VOLATILE ORGANICS

Analyte	Reporting Limit mg/kg (ppm)	Sample Results mg/kg (ppm)
Bromodichloromethane.....	0.050	N.D.
Bromoform.....	0.050	N.D.
Bromomethane.....	0.050	N.D.
Carbon tetrachloride.....	0.050	N.D.
Chlorobenzene.....	0.050	N.D.
Chloroethane.....	0.050	N.D.
Chloroform.....	0.050	N.D.
Chloromethane.....	0.050	N.D.
Dibromochloromethane.....	0.050	N.D.
1,2-Dichlorobenzene.....	0.050	N.D.
1,3-Dichlorobenzene.....	0.050	N.D.
1,4-Dichlorobenzene.....	0.050	N.D.
1,1-Dichloroethane.....	0.050	N.D.
1,2-Dichloroethane.....	0.050	N.D.
1,1-Dichloroethene.....	0.050	N.D.
cis 1,2-Dichloroethene.....	0.050	N.D.
trans 1,2-Dichloroethene.....	0.050	N.D.
1,2-Dichloropropane.....	0.050	N.D.
cis-1,3-Dichloropropene.....	0.050	N.D.
trans-1,3-Dichloropropene.....	0.050	N.D.
Methylene chloride.....	0.25	N.D.
1,1,2,2-Tetrachloroethane.....	0.050	N.D.
Tetrachloroethene.....	0.050	N.D.
1,1,1-Trichloroethane.....	0.050	N.D.
1,1,2-Trichloroethane.....	0.050	N.D.
Trichloroethene.....	0.050	N.D.
Trichlorofluoromethane.....	0.050	N.D.
Vinyl chloride.....	0.050	N.D.

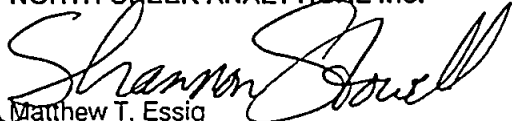
4-Bromofluorobenzene Surrogate Recovery, %: 95

Surrogate Recovery Control Limits are 58 - 131 %.

The results reported above are on a dry weight basis.

Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.


Matthew T. Essig
Project Manager



18939 120th Avenue N.E., Suite 101• Bothell, WA 98011-2569
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SEACOR	Client Project ID: #00502-001-02	Sampled: Aug 31, 1993
11040 Main Street, #240	Sample Descript: Soil, OMW-4-30.5	Received: Sep 1, 1993
Bellevue, WA 98004	Analysis Method: EPA 8010	Analyzed: Sep 2, 1993
Attention: Peter Jewett	Sample Number: 309-0024	Reported: Sep 9, 1993

HALOGENATED VOLATILE ORGANICS

Analyte	Reporting Limit mg/kg (ppm)	Sample Results mg/kg (ppm)
Bromodichloromethane.....	0.050	N.D.
Bromoform.....	0.050	N.D.
Bromomethane.....	0.050	N.D.
Carbon tetrachloride.....	0.050	N.D.
Chlorobenzene.....	0.050	N.D.
Chloroethane.....	0.050	N.D.
Chloroform.....	0.050	N.D.
Chloromethane.....	0.050	N.D.
Dibromochloromethane.....	0.050	N.D.
1,2-Dichlorobenzene.....	0.050	N.D.
1,3-Dichlorobenzene.....	0.050	N.D.
1,4-Dichlorobenzene.....	0.050	N.D.
1,1-Dichloroethane.....	0.050	N.D.
1,2-Dichloroethane.....	0.050	N.D.
1,1-Dichloroethene.....	0.050	N.D.
cis 1,2-Dichloroethene.....	0.050	N.D.
trans 1,2-Dichloroethene.....	0.050	N.D.
1,2-Dichloropropane.....	0.050	N.D.
cis-1,3-Dichloropropene.....	0.050	N.D.
trans-1,3-Dichloropropene.....	0.050	N.D.
Methylene chloride.....	0.25	N.D.
1,1,2,2-Tetrachloroethane.....	0.050	N.D.
Tetrachloroethene.....	0.050	N.D.
1,1,1-Trichloroethane.....	0.050	N.D.
1,1,2-Trichloroethane.....	0.050	N.D.
Trichloroethene.....	0.050	N.D.
Trichlorofluoromethane.....	0.050	N.D.
Vinyl chloride.....	0.050	N.D.

4-Bromofluorobenzene Surrogate Recovery, %: 87

Surrogate Recovery Control Limits are 58 - 131 %.

The results reported above are on a dry weight basis.

Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Matthew T. Essig
Project Manager



18939 120th Avenue N.E., Suite 101 • Bothell, WA 98011-2569
Phone (206) 481-9200 • FAX (206) 485-2992

SEACOR	Client Project ID: #00502-001-02	
11040 Main Street, #240	Sample Descript: Method Blank	
Bellevue, WA 98004	Analysis Method: EPA 8010	Analyzed: Sep 2, 1993
Attention: Peter Jewett	Sample Number: BLK090293	Reported: Sep 9, 1993

HALOGENATED VOLATILE ORGANICS

Analyte	Reporting Limit mg/kg (ppm)	Sample Results mg/kg (ppm)
Bromodichloromethane.....	0.050	N.D.
Bromoform.....	0.050	N.D.
Bromomethane.....	0.050	N.D.
Carbon tetrachloride.....	0.050	N.D.
Chlorobenzene.....	0.050	N.D.
Chloroethane.....	0.050	N.D.
Chloroform.....	0.050	N.D.
Chloromethane.....	0.050	N.D.
Dibromochloromethane.....	0.050	N.D.
1,2-Dichlorobenzene.....	0.050	N.D.
1,3-Dichlorobenzene.....	0.050	N.D.
1,4-Dichlorobenzene.....	0.050	N.D.
1,1-Dichloroethane.....	0.050	N.D.
1,2-Dichloroethane.....	0.050	N.D.
1,1-Dichloroethene.....	0.050	N.D.
cis 1,2-Dichloroethene.....	0.050	N.D.
trans 1,2-Dichloroethene.....	0.050	N.D.
1,2-Dichloropropane.....	0.050	N.D.
cis-1,3-Dichloropropene.....	0.050	N.D.
trans-1,3-Dichloropropene.....	0.050	N.D.
Methylene chloride.....	0.25	N.D.
1,1,2,2-Tetrachloroethane.....	0.050	N.D.
Tetrachloroethene.....	0.050	N.D.
1,1,1-Trichloroethane.....	0.050	N.D.
1,1,2-Trichloroethane.....	0.050	N.D.
Trichloroethene.....	0.050	N.D.
Trichlorofluoromethane.....	0.050	N.D.
Vinyl chloride.....	0.050	N.D.

4-Bromofluorobenzene Surrogate Recovery, %: 82

Surrogate Recovery Control Limits are 58 - 131 %.

The results reported above are on a dry weight basis.

Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Matthew T. Essig
Project Manager

SEACOR
11040 Main Street, #240
Bellevue, WA 98004
Attention: Peter Jewett

Client Project ID: #00502-001-02
Sample Matrix: Soil
Analysis Method: EPA 8010
Units: mg/kg (ppm)
QC Sample #: 309-0007

Analyst: R. Lister

Analyzed: Sep 2, 1993
Reported: Sep 9, 1993

MATRIX SPIKE QUALITY CONTROL DATA REPORT

ANALYTE	1,1-DCE	TCE	Chloro- Benzene
Sample Result:	N.D.	N.D.	N.D.
Spike Conc. Added:	2.0	2.0	2.0
Spike Result:	0.99	1.3	1.5
Spike % Recovery:	50%	65%	75%
Spike Dup. Result:	1.1	1.3	1.6
Spike Duplicate % Recovery:	55%	65%	80%
Upper Control Limit %:	119	106	108
Lower Control Limit %:	31	48	62
Relative % Difference:	11%	0.0%	1.7%
Maximum RPD:	31	15	11

NORTH CREEK ANALYTICAL Inc.

% Recovery:

Spike Result - Sample Result

x 100

Spike Conc. Added

Relative % Difference:

Spike Result - Spike Dup. Result

x 100

(Spike Result + Spike Dup. Result) / 2

Matthew T. Essig
Project Manager

SEACOR Chain-of-Custody Record

Address

11040 main street suite 240
 Bellevue, WA 98004

Project # 00502-001-03 Task # _____
 Project Manager Peter Jewett
 Laboratory North Creek AN
 Turn-around time: STANDARD

Sampler's Name: Dan Dell Agnese
 Sampler's Signature: Dan Dell Agnese

Analysis Request

Sample ID	Date	Time	Matrix	TPHg/BTEX 8015 (modified)/8020	TPHd 8015 (modified)	TPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	Pesticides/PCB's 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCLP Metals	Comments/ Instructions	Number of Containers
omw-1 - 10.5	8/31/93	9:09	soil						✓						3090005	
omw-1 - 15.5		9:13	soil						✓						6	
omw-1 - 20		9:19	soil						✓						7	
omw-1 - 25.5		9:29	soil						✓						8	
omw-1 - 30.5		9:37	soil						✓						9	
omw-2 - 10.5		10:13	soil						✓						10	
omw-2 - 15.5		10:17	soil						✓						11	
omw-2 - 20.5		10:25	soil						✓						12	
omw-2 - 25.5		10:27	soil						✓						13	
omw-2 - 30.5	✓	10:39	soil						✓						14	

Special Instructions/Comments:

Relinquished by: Dan Dell Agnese
 Sign Dan Dell Agnese
 Print DAN DELL AGNESE
 Company SEACOR
 Time 9:09 Date 9/1/93

Relinquished by: Alan Candee
 Sign Alan Candee
 Print ALAN CANDEE
 Company ENA
 Time 9:47 Date 9-1-93

Received by: Alan Candee
 Sign Alan Candee
 Print ALAN CANDEE
 Company ENA
 Time 9:09 Date 9-1-93

Received by: Tim Collier
 Sign Tim Collier
 Print Tim Collier
 Company UCAT
 Time 9:50 Date 9/1/93

Sample Receipt

Total no. of containers 20
 Chain of custody seals: OK
 Rec'd good condition/cold: OK
 Conforms to record: OK

Client: _____
 Client Contact: _____
 Client Phone Number: _____

SEACOR Chain-of-Custody Record

Address

11040 main street suite 240
Bellevue, WA 98004

Project # 00502-001-02 Task #

Project Manager Peter Jewett

Laboratory North Creek AN

Turn-around time: STANDARD

Sampler's Name: Dan Dell'Agnese

Sampler's Signature: Dan Dell'Agnese

Analysis Request

Sample ID	Date	Time	Matrix	TPHg/BTEX 8015 (modified) /8020	TPHd 8015 (modified)	TPH 418.1	Aromatic Volatiles 602/8020	Volatile Organics 624/8240 (GC/MS)	Halogenated Volatiles 601/8010	Semi-volatile Organics 625/8270 (GC/MS)	Pesticides/PCB's 608/8080	Total Lead 7421	Priority Pollutant Metals (13)	TCLP Metals	Comments/ Instructions	Number of Containers
OMW-3-10	8/31/93	11:02	soil						✓						3090015	
OMW-3-15.5		11:04	soil						✓						16	
OMW-3-20.5		11:10	soil						✓						17	
OMW-3-25.5		11:12	soil						✓						18	
OMW-3-30.5		11:18	soil						✓						19	
OMW-4-10.5		11:54	soil						✓						20	
OMW-4-15.5		12:06	soil						✓						21	
OMW-4-20.5		12:11	soil						✓						22	
OMW-4-25.5		12:15	soil						✓						23	
OMW-4-30.5	✓	12:24	soil						✓						24	

Special Instructions/Comments:

Relinquished by:

Sign

Print

Company

Time

Date

Relinquished by:

Sign

Print

Company

Time

Date

Received by:

Sign

Print

Company

Time

Date

Received by:

Sign

Print

Company

Time

Date

Sample Receipt

Total no. of containers

Chain of custody seals:

Rec'd good condition/cold:

Conforms to record:

Client:

Client Contact:

Client Phone Number:

APPENDIX C



e data resources, inc.

The EDR-Radius Map with GeoCheck™

**Former Cross Property
21700 Hwy 99
Edmonds, WA 98026**

Inquiry Number: 192619.1s

August 18, 1997

The Source For Environmental Risk Management Data

**3530 Post Road
Southport, Connecticut 06490**

Nationwide Customer Service

**Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com**

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc. (EDR). The report meets the government records search requirements of ASTM Standard Practice for Environmental Site Assessments, E 1527-97. Search distances are per ASTM standard or custom distances requested by the user.

The address of the subject property for which the search was intended is:

21700 HWY 99
EDMONDS, WA 98026

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the subject property or within the ASTM E 1527-97 search radius around the subject property for the following Databases:

NPL:..... National Priority List
Delisted NPL:..... NPL Deletions
RCRIS-TSD:..... Resource Conservation and Recovery Information System
CERCLIS:..... Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP:..... Comprehensive Environmental Response, Compensation, and Liability Information System
SWF/LF:..... Solid Waste Facilities Handbook
RAATS:..... RCRA Administrative Action Tracking System
RCRIS-LQG:..... Resource Conservation and Recovery Information System
HMIRS:..... Hazardous Materials Information Reporting System
PADS:..... PCB Activity Database System
ERNS:..... Emergency Response Notification System
FINDS:..... Facility Index System
TRIS:..... Toxic Chemical Release Inventory System
NPL Lien:..... Federal Superfund Liens
TSCA:..... Toxic Substances Control Act
MLTS:..... Material Licensing Tracking System
ROD:..... Records Of Decision
CONSENT:..... Superfund (CERCLA) Consent Decrees
Air Emissions:..... Washington Emissions Data System
Coal Gas:..... Former Manufactured gas (Coal Gas) Sites.

Unmapped (orphan) sites are not considered in the foregoing analysis.

Search Results:

Search results for the subject property and the search radius, are listed below:

Subject Property:

The subject property was identified in the following government records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
CROSS ENTERPRISES INC. 21700 HIGHWAY 99 EDMONDS, WA 98026	UST	N/A

EXECUTIVE SUMMARY

Surrounding Properties:

Elevations have been determined from the USGS 1 degree Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. EDR's definition of a site with an elevation equal to the subject property includes a tolerance of -10 feet. Sites with an elevation equal to or higher than the subject property have been differentiated below from sites with an elevation lower than the subject property (by more than 10 feet). Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

CSCSL: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data comes from the Department of Ecology's Confirmed & Suspected Contaminated Sites List.

A review of the CSCSL list, as provided by EDR, and dated 06/09/1997 has revealed that there are 3 CSCSL sites within approximately 1 Mile of the subject property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
MARK 2 COLLISION	21104 70TH AV W	1/4 - 1/2NNE	44	24
<i>KEN'S RADIATOR SERVICE</i>	<i>6226 212TH ST SW</i>	<i>1/2 - 1 ENE</i>	<i>J48</i>	<i>28</i>
<i>SNOHOMISH COUNTY PUD</i>	<i>6200 212TH ST SW</i>	<i>1/2 - 1 ENE</i>	<i>J49</i>	<i>33</i>

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 12/01/1996 has revealed that there is 1 CORRACTS site within approximately 1 Mile of the subject property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>SAFETY KLEEN CORP 7 092 01</i>	<i>6303 212TH ST SW STE C</i>	<i>1/2 - 1 ENE</i>	<i>47</i>	<i>27</i>

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data comes from the Department of Ecology's Leaking Underground Storage Tanks Site List.

A review of the LUST list, as provided by EDR, and dated 05/01/1997 has revealed that there are 10 LUST sites within approximately 0.5 Miles of the subject property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>TEXACO #63-232-0502</i>	<i>22000 HIGHWAY 99</i>	<i>1/8 - 1/4 SSW</i>	<i>C8</i>	<i>10</i>
WARREN MEDICAL OFFICE BLDG	21727 76TH AVE W	1/8 - 1/4 W	23	16
<i>B & M CONTRACTORS</i>	<i>21400 HIGHWAY 99</i>	<i>1/4 - 1/2NNE</i>	<i>24</i>	<i>16</i>
<i>AURORA TOYOTA</i>	<i>21300 HWY 99</i>	<i>1/4 - 1/2NNE</i>	<i>26</i>	<i>17</i>
<i>PLAID PANTRY #316</i>	<i>21919 66TH AVE W STE J</i>	<i>1/4 - 1/2ESE</i>	<i>27</i>	<i>18</i>
UNOCAL 5168	6921 - 212TH ST. S. W.	1/4 - 1/2NNE	F32	20
<i>TEXACO STA 63 232 0263</i>	<i>6602 220TH SW</i>	<i>1/4 - 1/2ESE</i>	<i>G38</i>	<i>21</i>
<i>BOO HAN SUPERMARKET</i>	<i>22618 - 22626 HWY 99</i>	<i>1/4 - 1/2SSW</i>	<i>41</i>	<i>22</i>
<i>DAVE ELKINS</i>	<i>7609 212TH ST SW # SW</i>	<i>1/4 - 1/2NW</i>	<i>H43</i>	<i>23</i>

EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
HIGHLANDS BUILDING MAINTENANCE	7208 210TH ST SW	1/4 - 1/2N	I45	26

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data comes from the Department of Ecology's Statewide UST Site/Tank Report.

A review of the UST list, as provided by EDR, and dated 05/01/1997 has revealed that there are 3 UST sites within approximately 0.25 Miles of the subject property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
7-ELEVEN FOOD STORE #2306-2234	21920 HIGHWAY 99	0 - 1/8 SSW	3	8
TEXACO #63-232-0502	22000 HIGHWAY 99	1/8 - 1/4 SSW	C8	10
BLUE CROSS OF WASHINGTON AND A	7001- 220TH ST SW	1/8 - 1/4 SE	E19	14

RCRIS: The Resource Conservation and Recovery Act database includes selected information on sites that generate, store, treat, or dispose of hazardous waste as defined by the Act. The source of this database is the U.S. EPA.

A review of the RCRIS-SQG list, as provided by EDR, and dated 04/01/1997 has revealed that there are 12 RCRIS-SQG sites within approximately 0.25 Miles of the subject property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
BRIAR DEVELOPMENT CO	21808 HWY 99	0 - 1/8 SE	A2	8
CLASSIC AUTO REBUILD	21701 HWY 99 STE B	0 - 1/8 NNE	B4	9
JEFFS MNGMT INC JEFFS AUTO REP	21701 HWY 99 STE A	0 - 1/8 NNE	B5	9
TEXACO SS 63232502	22000 HWY 99	1/8 - 1/4 SSW	C9	11
LYNNWOOD HONDA	22020 HWY 99	1/8 - 1/4 SSW	C10	11
MONTYS CLUTCH BRAKE ENGINE	21619 HWY 99 STE 1	1/8 - 1/4 NNE	D11	12
WDOE NRO LYNNWOOD BARREL	7000 216TH ST SW	1/8 - 1/4 ENE	16	13
SEA INC	7030 220TH SW	1/8 - 1/4 SE	E17	14
BLUE CROSS OF WASHINGTON & ALA	7003 220TH SW	1/8 - 1/4 SE	E18	14
SARACENIC INC	6925 216TH ST SW	1/8 - 1/4 ENE	20	15
ACURA OF LYNNWOOD	21515 HWY 99	1/8 - 1/4 NNE	21	15
ADZAM INC	22130 HWY 99	1/8 - 1/4 SSW	22	15

IRAP: These are remedial action reports Ecology has recieved from either the owner or operator of the site. These actions have been conducted without department oversight or approval and are not under an order or decree.

A review of the WA IRAP list, as provided by EDR, and dated 03/01/1997 has revealed that there are 24 WA IRAP sites within approximately 0.5 Miles of the subject property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
SHELL #20303	22000 HIGHWAY 99	1/8 - 1/4 SSW	C6	9
SHELL #20303	22000 HIGHWAY 99	1/8 - 1/4 SSW	C7	9
KRUEGER CLINIC	21600 HIGHWAY 99	1/8 - 1/4 NNE	D12	12
KRUEGER CLINIC (FOUR REPORTS)	21600 HIGHWAY 99	1/8 - 1/4 NNE	D13	12
KRUGER CLINIC	21600 HIGHWAY 99	1/8 - 1/4 NNE	D14	13
KRUEGER CLINIC	21600 HIGHWAY 99	1/8 - 1/4 NNE	D15	13
B & M CONTRACTORS	21400 HIGHWAY 99	1/4 - 1/2 NNE	24	16
WARREN MEDICAL OFFICE BUILDING	21727 76TH AVE. W.	1/4 - 1/2 W	25	17

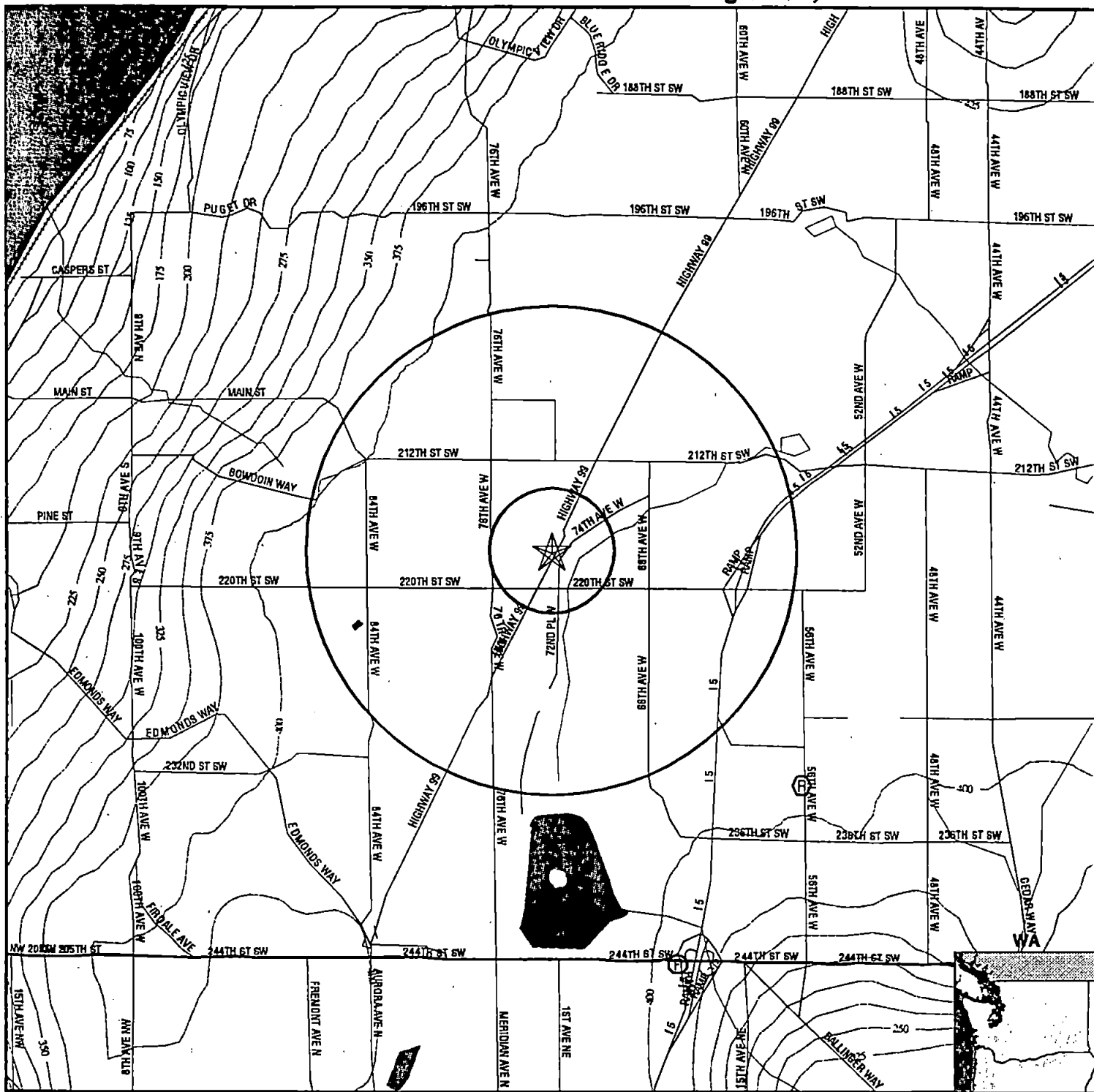
EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
AURORA TOYOTA	21300 HWY 99	1/4 - 1/2 NNE	26	17
PLAID PANTRY #316	21919 66TH AVE W STE J	1/4 - 1/2 ESE	27	18
UNOCAL #5168	6921 212TH ST SW	1/4 - 1/2 NNE	F28	19
UNOCAL #5168	6921 212TH ST SW	1/4 - 1/2 NNE	F29	19
UNOCAL #5168	6921 212TH ST SW	1/4 - 1/2 NNE	F30	19
UNOCAL #5168	6921 212TH ST SW	1/4 - 1/2 NNE	F31	19
UNOCAL #5168	6921 212TH ST SW	1/4 - 1/2 NNE	F33	20
UNOCAL #5168	6921 212TH ST SW	1/4 - 1/2 NNE	F34	20
UNOCAL #5168	6921 212TH ST SW	1/4 - 1/2 NNE	F35	20
UNOCAL #5168	6921 212TH ST SW	1/4 - 1/2 NNE	F36	21
UNOCAL BULK PLANT #5168	6921 212TH ST SW	1/4 - 1/2 NNE	F37	21
GULL #0214	6602 220TH ST SW	1/4 - 1/2 ESE	G39	22
GULL #0214 (TWO REPORTS)	6602 220TH ST SW	1/4 - 1/2 ESE	G40	22
BOO HAN SUPERMARKET	22618 - 22626 HWY 99	1/4 - 1/2 SSW	41	22
CHEVRON (PRIVATE) AKA CHEVRON	7609 212TH ST SW	1/4 - 1/2 NW	H42	23
COYOTE CORP.	7208 210TH ST SW	1/4 - 1/2 N	I46	27

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

<u>Site Name</u>	<u>Database(s)</u>
COUNTRYSIDE DEVELOPMENT	CSCSL
SOUTHWEST TRANSFR STATION	SWF/LF
BP OIL SITE 11096	RCRIS-SQG,FINDS,UST
	WA IRAP,LUST
SNOHOMISH COUNTY FIRE DISTRICT 1	UST
BOB MILLER	UST
U.S. POSTAL SERVICE	UST
CLOUDY & BRITTON INC	UST
ARCO 5525	UST
WDOT BRDG 405 E & W	RCRIS-SQG
FIRESTONE	RCRIS-SQG,FINDS
MEINEKE DISCOUNT MUFFLER	RCRIS-SQG,FINDS
LYNNWOOD DRYCLEANERS	RCRIS-SQG,FINDS
SCHAFNER MOTORS INC	RCRIS-SQG,FINDS
ARCO PRODUCTS CO 5525 PRESTIGE STA 5516	RCRIS-SQG,FINDS
TEXACO SS 63232163	RCRIS-SQG,FINDS
FILE DOCTORS THE	RCRIS-SQG,FINDS
USEPA MOUNTLAKE TERRACE DRUMS	RCRIS-LQG
US POSTAL SERVICE	WA IRAP
UNOCAL #5168	WA IRAP
UNOCAL #5533	WA IRAP
UNOCAL #5533	WA IRAP
UNOCAL #5533	WA IRAP
UNOCAL #5533	WA IRAP
DONNELL'S CONSTRUCTION SUPPLY CO., INC.	WA IRAP
LYNNWOOD SEWER LIFT STATION #10	WA IRAP
JONES RESIDENCE	WA IRAP
TEXACO #63232 0163 (THREE REPORTS)	WA IRAP
TEXACO #63 232 0163	WA IRAP



- Major Roads
- Contour Lines
- Waterways
- Earthquake epicenter, Richter 5 or greater
- Closest Federal Well in quadrant
- Closest State Well in quadrant
- Closest Public Water Supply Well



TARGET PROPERTY: Former Cross Property
ADDRESS: 21700 Hwy 99
CITY/STATE/ZIP: Edmonds WA 98026
LAT/LONG: 47.8019 / 122.3293

CUSTOMER: Geo Engineers, Inc.
CONTACT: Mr Dave Cook
INQUIRY #: 192619.1s
DATE: August 18, 1997 6:37 pm

GEOCHECK VERSION 2.1 SUMMARY

GEOLOGIC AGE IDENTIFICATION†

Geologic Code: Q
Era: Cenozoic
System: Quaternary
Series: Quaternary

ROCK STRATIGRAPHIC UNIT†

Category: Stratified Sequence

GROUNDWATER FLOW INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, including well data collected on nearby properties, regional groundwater flow information (from deep aquifers), or surface topography.‡

General Topographic Gradient: Undeterminable
General Hydrogeologic Gradient: No hydrogeologic data available.

USGS TOPOGRAPHIC MAP ASSOCIATED WITH THIS SITE

Target Property: 2447122-G3 EDMONDS EAST, WA

FEDERAL DATABASE WELL INFORMATION

<u>WELL QUADRANT</u>	<u>DISTANCE FROM TP</u>	<u>LITHOLOGY</u>	<u>DEPTH TO WATER TABLE</u>
Eastern	>2 Miles	Not Reported	9 ft.
Southern	1 - 2 Miles	Not Reported	330 ft.
Western	>2 Miles	Not Reported	280 ft.

STATE DATABASE WELL INFORMATION

<u>WELL QUADRANT</u>	<u>DISTANCE FROM TP</u>
NO WELLS FOUND	

PUBLIC WATER SUPPLY SYSTEM INFORMATION (EPA-FRDS)

Searched by Nearest Well.

NOTE: PWS System location is not always the same as well location.

PWS Name: SOUTH SOUND SPEEDWAY
LACEY, WA 98503

Location Relative to TP: 1 - 2 Miles East

Well currently has or has had major violation(s): Yes





AREA RADON INFORMATION

Zip Code: 98026

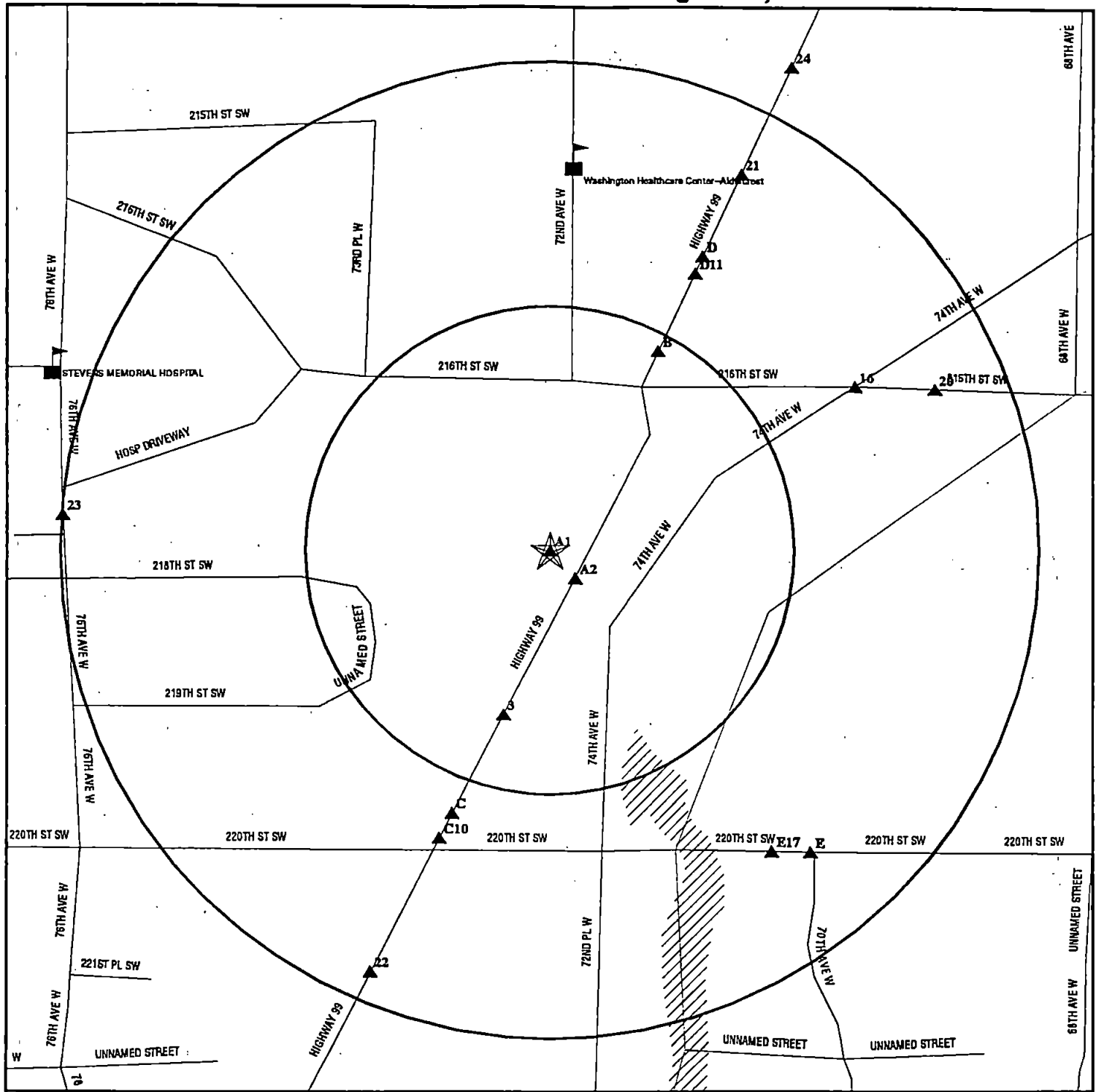
Number of sites tested: 4

<u>Area</u>	<u>Average Activity</u>	<u>% <4 pCi/L</u>	<u>% 4-20 pCi/L</u>	<u>% >20 pCi/L</u>
Living Area - 1st Floor	0.025 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.050 pCi/L	100%	0%	0%

† Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).
‡ U.S. EPA Ground Water Handbook, Vol I: Ground Water and Contamination, Office of Research and development EPA/625/6-90/016a, Chapter 4, page 78, September 1990.

-  Power transmission lines
 Oil & Gas pipelines
 100-year flood zone
 500-year flood zone

CUSTOMER: Geo Engineers, Inc.
CONTACT: Mr Dave Cook
INQUIRY #: 192619.1s
DATE: August 18, 1997 6:29 pm



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Coal Gasification Sites (if requested)
- ▲ Sensitive Receptors
- National Priority List Sites
- Landfill Sites

- Power transmission lines
- Oil & Gas pipelines
- ▨ 100-year flood zone
- ▨ 500-year flood zone



<p>TARGET PROPERTY: Former Cross Property ADDRESS: 21700 Hwy 99 CITY/STATE/ZIP: Edmonds WA 98026 LAT/LONG: 47.8019 / 122.3293</p>	<p>CUSTOMER: Geo Engineers, Inc. CONTACT: Mr Dave Cook INQUIRY #: 192619.1s DATE: August 18, 1997 6:34 pm</p>
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MAP FINDINGS SUMMARY SHOWING ALL SITES

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NPL		1.000	0	0	0	0	NR	0
Delisted NPL		TP	NR	NR	NR	NR	NR	0
RCRIS-TSD		0.500	0	0	0	NR	NR	0
CSCSL		1.000	0	0	1	2	NR	3
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		TP	NR	NR	NR	NR	NR	0
CORRACTS		1.000	0	0	0	1	NR	1
State Landfill		0.500	0	0	0	NR	NR	0
LUST		0.500	0	2	8	NR	NR	10
UST	X	0.250	1	2	NR	NR	NR	3
RAATS		TP	NR	NR	NR	NR	NR	0
RCRIS Sm. Quan. Gen.		0.250	3	9	NR	NR	NR	12
RCRIS Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
ERNS		TP	NR	NR	NR	NR	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
NPL Liens		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
ROD		1.000	0	0	0	0	NR	0
CONSENT		1.000	0	0	0	0	NR	0
Wa Air Emissions (EMI)		TP	NR	NR	NR	NR	NR	0
WA IRAP		0.500	0	6	18	NR	NR	24
Coal Gas		1.000	0	0	0	0	NR	0

TP = Target Property

NR = Not Requested at this Search Distance

* Sites may be listed in more than one database

**MAP FINDINGS SUMMARY SHOWING
ONLY SITES HIGHER THAN OR THE SAME ELEVATION AS TP**

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NPL		1.000	0	0	0	0	NR	0
Delisted NPL		TP	NR	NR	NR	NR	NR	0
RCRIS-TSD		0.500	0	0	0	NR	NR	0
CSCSL		1.000	0	0	1	2	NR	3
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		TP	NR	NR	NR	NR	NR	0
CORRACTS		1.000	0	0	0	1	NR	1
State Landfill		0.500	0	0	0	NR	NR	0
LUST		0.500	0	2	8	NR	NR	10
UST	X	0.250	1	2	NR	NR	NR	3
RAATS		TP	NR	NR	NR	NR	NR	0
RCRIS Sm. Quan. Gen.		0.250	3	9	NR	NR	NR	12
RCRIS Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
ERNS		TP	NR	NR	NR	NR	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
NPL Liens		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
ROD		1.000	0	0	0	0	NR	0
CONSENT		1.000	0	0	0	0	NR	0
Wa Air Emissions (EMI)		TP	NR	NR	NR	NR	NR	0
WA IRAP		0.500	0	6	18	NR	NR	24
Coal Gas		1.000	0	0	0	0	NR	0

TP = Target Property

NR = Not Requested at this Search Distance

* Sites may be listed in more than one database

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

Coal Gas Site Search: No site was found in a search of Real Property Scan's ENVIROHAZ database.

A1
Target
Property

CROSS ENTERPRISES INC.
21700 HIGHWAY 99
EDMONDS, WA 98026

UST

U000588069
N/A

UST:

Facility ID: 2983
Install Date: 12/31/64
Capacity: 111 to 1,100 Gallons
Compartment #: 1
Ecology Region: North Western

Tank ID: 1
Status: Unknown
Tank Material: Steel-Unprotected
Substance: USED OIL/WASTE OIL

A2
SE
< 1/8
Higher

BRIAR DEVELOPMENT CO
21808 HWY 99
EDMONDS, WA 98020

RCRIS-SQG
FINDS

1000154211
WAD981773286

RCRIS:

Owner: DONALD HAGGEN
Record Date: 03/07/88
Classification: Not reported

BIENNIAL REPORTS:

Last Biennial Reporting Year: 1993

Waste Quantity (Lbs)

Used Oil Recyc: No

Violation Status: No violations found

3
SSW
< 1/8
Higher

7-ELEVEN FOOD STORE #2306-22346B
21920 HIGHWAY 99
EDMONDS, WA 98020

UST

U003028575
N/A

UST:

Facility ID: 8638
Install Date: 5/1/80
Capacity: 10,000 TO 19,999 GALLONS
Compartment #: 1
Ecology Region: North Western

Tank ID: REG
Status: Operational
Tank Material: Steel-Unprotected
Substance: LEADED GASOLINE

Facility ID: 8638
Install Date: 5/1/80
Capacity: 10,000 TO 19,999 GALLONS
Compartment #: 1
Ecology Region: North Western

Tank ID: NOL
Status: Operational
Tank Material: Steel-Unprotected
Substance: UNLEADED GASOLINE

Facility ID: 8638
Install Date: 5/1/80
Capacity: 10,000 TO 19,999 GALLONS
Compartment #: 1
Ecology Region: North Western

Tank ID: SNL
Status: Operational
Tank Material: Steel-Unprotected
Substance: UNLEADED GASOLINE

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
B4 NNE < 1/8 Higher	CLASSIC AUTO REBUILD 21701 HWY 99 STE B LYNNWOOD, WA 98036 RCRIS: Owner: JEFFS MANAGEMENT INC Record Date: 10/22/87 Classification: Small Quantity Generator BIENNIAL REPORTS: Last Biennial Reporting Year: 1993 Waste Quantity (Lbs) Used Oil Recyc: No Violation Status: No violations found	RCRIS-SQG FINDS	1000386734 WAD135925600
B5 NNE < 1/8 Higher	JEFFS MNGMT INC JEFFS AUTO REPAIR 21701 HWY 99 STE A LYNNWOOD, WA 98036 RCRIS: Owner: JEFFS MANAGEMENT INC Record Date: 03/05/93 Classification: Small Quantity Generator BIENNIAL REPORTS: Last Biennial Reporting Year: 1993 Waste Quantity (Lbs) Used Oil Recyc: No Violation Status: No violations found	RCRIS-SQG FINDS	1000839002 WAD988518221
C6 SSW 1/8-1/4 Higher	SHELL #20303 22000 HIGHWAY 99 EDMONDS, WA 98026 WA IRAP: Date Ecology Received Report: 01/06/1993 Contaminants Found at Site: Petroleum products Media Contaminated: Soil Cause of Contamination: Tank Region: North Western Type of Report Ecology Received: Interim.cleanup.report Site Register Issue: 92-46	WA IRAP	S102515560 N/A
C7 SSW 1/8-1/4 Higher	SHELL #20303 22000 HIGHWAY 99 EDMONDS, WA 98026	WA IRAP	S102515561 N/A

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL #20303 (Continued)

S102515561

WA IRAP:

Date Ecology Received Report: 09/17/1993
Contaminants Found at Site: Petroleum products
Media Contaminated: Soil
Cause of Contamination: Tank
Region: North Western
Type of Report Ecology Received: Final cleanup report
Site Register Issue: 93-13

C8
SSW
1/8-1/4
Higher

TEXACO #63-232-0502
22000 HIGHWAY 99
EDMONDS, WA 98026

UST
LUST

U003026571
N/A

LUST:

Facility ID: 3307 Ecology Region: North Western
Release Date: 12/27/90 0:00:00 Release ID: 2084
Release Status: REPORTED CLEANED UP Status Date: 9/27/95 0:00:00
Affected Media: SOIL Region: STATE

Facility ID: 3307 Ecology Region: North Western
Release Date: 12/27/90 0:00:00 Release ID: 2084
Release Status: CLEANUP STARTED Status Date: 12/27/90 0:00:00
Affected Media: SOIL Region: STATE

UST:

Facility ID: 3307 Tank ID: 2
Install Date: 12/31/64 Status: Removed
Capacity: Not reported Tank Material: Steel-Unprotected
Compartment #: 1 Substance: LEADED GASOLINE
Ecology Region: North Western

Facility ID: 3307 Tank ID: 3
Install Date: 12/31/64 Status: Removed
Capacity: Not reported Tank Material: Steel-Unprotected
Compartment #: 1 Substance: LEADED GASOLINE
Ecology Region: North Western

Facility ID: 3307 Tank ID: 1
Install Date: 12/31/64 Status: Removed
Capacity: Not reported Tank Material: Steel-Unprotected
Compartment #: 1 Substance: UNLEADED GASOLINE
Ecology Region: North Western

Facility ID: 3307 Tank ID: 4
Install Date: 12/31/64 Status: Removed
Capacity: Not reported Tank Material: Steel-Unprotected
Compartment #: 1 Substance: UNLEADED GASOLINE
Ecology Region: North Western

Facility ID: 3307 Tank ID: 7
Install Date: 8/17/92 Status: Operational
Capacity: Not reported Tank Material: Fiberglass Reinforced Plastic
Compartment #: 1 Substance: LEADED GASOLINE
Ecology Region: North Western

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

TEXACO #63-232-0502 (Continued)

U003026571

Facility ID: 3307
Install Date: 8/17/92
Capacity: Not reported
Compartment #: 1
Ecology Region: North Western

Tank ID: 6
Status: Operational
Tank Material: Fiberglass Reinforced Plastic
Substance: UNLEADED GASOLINE

Facility ID: 3307
Install Date: 8/17/92
Capacity: Not reported
Compartment #: 1
Ecology Region: North Western

Tank ID: 8
Status: Operational
Tank Material: Fiberglass Reinforced Plastic
Substance: UNLEADED GASOLINE

Facility ID: 3307
Install Date: 8/17/92
Capacity: Not reported
Compartment #: 1
Ecology Region: North Western

Tank ID: 9
Status: Operational
Tank Material: Fiberglass Reinforced Plastic
Substance: UNLEADED GASOLINE

Facility ID: 3307
Install Date: 12/31/64
Capacity: 111 to 1,100 Gallons
Compartment #: 1
Ecology Region: North Western

Tank ID: 5
Status: Removed
Tank Material: Steel-Unprotected
Substance: USED OIL/WASTE OIL

C9
SSW
1/8-1/4
Higher

TEXACO SS 63232502
22000 HWY 99
EDMONDS, WA 98026

RCRIS-SQG 1000660703
FINDS WAD988503900

RCRIS:

Owner: TEXACO REFINING & MARKETING INC
Record Date: 03/16/92
Classification: Small Quantity Generator

BIENNIAL REPORTS:

Last Biennial Reporting Year: 1993

Waste Quantity (Lbs)

Used Oil Recyc: No

Violation Status: No violations found

C10
SSW
1/8-1/4
Higher

LYNNWOOD HONDA
22020 HWY 99
EDMONDS, WA 98020

RCRIS-SQG 1000839054
FINDS WAD988518858

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

LYNNWOOD HONDA (Continued)

1000839054

RCRIS:

Owner: LYNNWOOD ENTERPRISES INC
Record Date: 03/15/93
Classification: Conditionally Exempt Small Quantity Generator

BIENNIAL REPORTS:

Last Biennial Reporting Year: 1993

Waste Quantity (Lbs)

Used Oil Recyc: Yes

Violation Status: No violations found

D11
NNE
1/8-1/4
Higher

MONTYS CLUTCH BRAKE ENGINE
21619 HWY 99 STE 1
LYNNWOOD, WA 98036

RCRIS-SQG
FINDS

1000659921
WAD988496006

RCRIS:

Owner: DAVE MONTGOMERY
Record Date: 01/17/92
Classification: Small Quantity Generator

BIENNIAL REPORTS:

Last Biennial Reporting Year: 1993

Waste Quantity (Lbs)

Used Oil Recyc: No

Violation Status: No violations found

D12
NNE
1/8-1/4
Higher

KRUEGER CLINIC
21600 HIGHWAY 99
EDMONDS, WA 98206

WA IRAP

S102514685
N/A

WA IRAP:

Date Ecology Received Report: 10/12/1993
Contaminants Found at Site: Halogenated Solvents
Media Contaminated: Groundwater
Cause of Contamination: Not reported
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 93-10

D13
NNE
1/8-1/4
Higher

KRUEGER CLINIC (FOUR REPORTS)
21600 HIGHWAY 99
EDMONDS, WA 98026

WA IRAP

S102514686
N/A

MAP FINDINGS

Elevation

Elevation

Elevation

Database(s)

EDR ID Number
EPA ID Number

S102514686

Date Ecology Received Report:	06/08/1994
Contaminants Found at Site:	Metals
	Halogenated organic compounds
Media Contaminated:	Groundwater
Cause of Contamination:	Unknown
Region:	North Western
Type of Report Ecology Received:	Final cleanup report
Site Register Issue:	93-26

**KRUGER CLINIC
21600 HIGHWAY 99
EDMONDS, WA 98026**

WA IRAP

S102514687
N/A

Date Ecology Received Report:	12/16/1994
Contaminants Found at Site:	Halogenated organic compounds
Media Contaminated:	Groundwater, Soil
Cause of Contamination:	Improper Handling
Region:	North Western
Type of Report Ecology Received:	Final cleanup report
Site Register Issue:	93-44

KRUEGER CLINIC
21600 HIGHWAY 99
EDMONDS, WA 98206

WA IRAP

S102514684
N/A

Date Ecology Received Report:	Not reported
Contaminants Found at Site:	Halogenated organic compounds
Media Contaminated:	Groundwater
Cause of Contamination:	Not reported
Region:	North Western
Type of Report Ecology Received:	Interim cleanup report
Site Register Issue:	93-08

WDOE NRO LYNNWOOD BARREL
7000 216TH ST SW
LYNNWOOD, WA 98036

RCRIS-SQG
FINDS

1000838559
WAD988513461

Owner: STATE OF WASHINGTON
Record Date: 11/18/92
Classification: Not reported

Last Biennial Reporting Year: 1993

<u>Waste</u>	<u>Quantity (Lbs)</u>
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MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

WDOE NRO LYNNWOOD BARREL (Continued)

1000838559

Used Oil Recyc: No

Violation Status: No violations found

E17
SE
1/8-1/4
Higher

SEA INC
7030 220TH SW
MOUNTLAKE TERRACE, WA 98043

RCRIS-SQG
FINDS

1000138242
WAD982656407

RCRIS:

Owner: SEA INC

Record Date: 03/15/89

Classification: Small Quantity Generator

BIENNIAL REPORTS:

Last Biennial Reporting Year: 1993

Waste Quantity (Lbs)

Used Oil Recyc: No

Violation Status: No violations found

E18
SE
1/8-1/4
Higher

BLUE CROSS OF WASHINGTON & ALASKA
7003 220TH SW
MOUNTLAKE TERRACE, WA 98043

RCRIS-SQG
FINDS

1000196325
WAD982653834

RCRIS:

Owner: BLUE CROSS

Record Date: 08/24/95

Classification: Not reported

BIENNIAL REPORTS:

Last Biennial Reporting Year: 1993

Waste Quantity (Lbs)

Used Oil Recyc: No

Violation Status: No violations found

E19
SE
1/8-1/4
Higher

BLUE CROSS OF WASHINGTON AND ALASKA
7001- 220TH ST SW
MOUNTLAKE TERRACE, WA 98043

UST

U003025268
N/A

UST:

Facility ID: 102133

Install Date: 2/15/93

Capacity: Not reported

Compartment #: 1

Ecology Region: North Western

Tank ID: 206363

Status: Operational

Tank Material: Steel-Unprotected

Substance: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

20
ENE
1/8-1/4
Higher

SARACENIC INC
6925 216TH ST SW
LYNNWOOD, WA 98036

RCRIS-SQG
FINDS

1000696884
WAD988505129

RCRIS:

Owner: SARACENIC INC

Record Date: 03/13/92

Classification: Small Quantity Generator

BIENNIAL REPORTS:

Last Biennial Reporting Year: 1993

Waste Quantity (Lbs)

Used Oil Recyc: No

Violation Status: No violations found

21
NNE
1/8-1/4
Higher

ACURA OF LYNNWOOD
21515 HWY 99
LYNNWOOD, WA 98036

RCRIS-SQG
FINDS

1000352552
WAD982655375

RCRIS:

Owner: LYNNWOOD MOTOR CO INC

Record Date: 08/25/88

Classification: Conditionally Exempt Small Quantity Generator

BIENNIAL REPORTS:

Last Biennial Reporting Year: 1993

Waste Quantity (Lbs)

Used Oil Recyc: No

Violation Status: No violations found

22
SSW
1/8-1/4
Higher

ADZAM INC
22130 HWY 99
EDMONDS, WA 98026

RCRIS-SQG
FINDS

1000658830
WAD988484879

RCRIS:

Owner: F DOUGLAS IKEGAMI

Record Date: 07/20/95

Classification: Small Quantity Generator

BIENNIAL REPORTS:

Last Biennial Reporting Year: 1993

Waste Quantity (Lbs)

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
	ADZAM INC (Continued)		1000658830
	Used Oil Recyc: No		
	Violation Status: No violations found		
23 West 1/8-1/4 Higher	WARREN MEDICAL OFFICE BLDG 21727 76TH AVE W MERCER ISLAND, WA 98026	LUST	S101826228 N/A
	LUST:		
	Facility ID: 318727	Ecology Region: North Western	
	Release Date: 9/15/95 0:00:00	Release ID: 318729	
	Release Status: REPORTED CLEANED UP	Status Date: 11/2/95 0:00:00	
	Affected Media: SOIL	Region: STATE	
	Facility ID: 318727	Ecology Region: North Western	
	Release Date: 9/15/95 0:00:00	Release ID: 318729	
	Release Status: CLEANUP STARTED	Status Date: 9/15/95 0:00:00	
	Affected Media: SOIL	Region: STATE	
24 NNE 1/4-1/2 Higher	B & M CONTRACTORS 21400 HIGHWAY 99 EDMONDS, WA 98020	UST WA IRAP LUST	U000712549 N/A
	LUST:		
	Facility ID: 101148	Ecology Region: North Western	
	Release Date: 8/11/94 0:00:00	Release ID: 5446	
	Release Status: CLEANUP STARTED	Status Date: 6/1/95 0:00:00	
	Affected Media: SOIL	Region: STATE	
	Facility ID: 101148	Ecology Region: North Western	
	Release Date: 8/11/94 0:00:00	Release ID: 5446	
	Release Status: CLEANUP STARTED	Status Date: 6/1/95 0:00:00	
	Affected Media: GROUND WATER	Region: STATE	
	WA IRAP:		
	Date Ecology Received Report: 05/30/1996		
	Contaminants Found at Site: Petroleum products		
	Media Contaminated: Groundwater, Soil		
	Cause of Contamination: Tank		
	Region: North Western		
	Type of Report Ecology Received: Interim cleanup report		
	Site Register Issue: 94-38		
	UST:		
	Facility ID: 101148	Tank ID: 2	
	Install Date: 2/10/88	Status: Removed	
	Capacity: 111 to 1,100 Gallons	Tank Material: Steel-Unprotected	
	Compartment #: 1	Substance: Not reported	
	Ecology Region: North Western		
	Facility ID: 101148	Tank ID: 1	
	Install Date: 6/4/84	Status: Removed	
	Capacity: 111 to 1,100 Gallons	Tank Material: Steel-Unprotected	
	Compartment #: 1	Substance: UNLEADED GASOLINE	
	Ecology Region: North Western		

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

B & M CONTRACTORS (Continued)

U000712549

Facility ID:	101148	Tank ID:	3
Install Date:	12/31/64	Status:	Closed in Place
Capacity:	111 to 1,100 Gallons	Tank Material:	Steel-Unprotected
Compartment #:	1	Substance:	UNLEADED GASOLINE
Ecology Region:	North Western		

25
West
1/4-1/2
Higher

WARREN MEDICAL OFFICE BUILDING (THREE RE
21727 76TH AVE. W.
MERCER ISLAND, WA 98026

WA IRAP

S102516785
N/A

WA IRAP:

Date Ecology Received Report:	09/15/1995
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Soil
Cause of Contamination:	Tank
Region:	North Western
Type of Report Ecology Received:	Interim cleanup report
Site Register Issue:	94-13

26
NNE
1/4-1/2
Higher

AURORA TOYOTA
21300 HWY 99
EDMONDS, WA 98020

RCRIS-SQG
FINDS
UST
WA IRAP
LUST

1000340845
WAD988468781

RCRIS:

Owner:	AURORA MOTORS INC
Record Date:	10/04/89
Classification:	Small Quantity Generator

BIENNIAL REPORTS:

Last Biennial Reporting Year: 1993

Waste	Quantity (Lbs)	Waste	Quantity (Lbs)
D001	2840.00	D008	2600.00
D018	23300.00	D039	23300.00

Used Oil Recyc: Yes

Violation Status: No violations found

LUST:

Facility ID:	3462	Ecology Region:	North Western
Release Date:	9/28/93 0:00:00	Release ID:	4730
Release Status:	REPORTED CLEANED UP	Status Date:	6/1/95 0:00:00
Affected Media:	SOIL	Region:	STATE
Facility ID:	3462	Ecology Region:	North Western
Release Date:	9/28/93 0:00:00	Release ID:	4730
Release Status:	CLEANUP STARTED	Status Date:	9/28/93 0:00:00
Affected Media:	SOIL	Region:	STATE

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

AURORA TOYOTA (Continued)

1000340845

WA IRAP:

Date Ecology Received Report: 09/28/1993
Contaminants Found at Site: Petroleum products
Media Contaminated: Soil
Cause of Contamination: Tank
Region: North Western
Type of Report Ecology Received: Final cleanup report
Site Register Issue: 93-10

UST:

Facility ID:	3462	Tank ID:	B1
Install Date:	6/1/73	Status:	Removed
Capacity:	111 to 1,100 Gallons	Tank Material:	Steel-Unprotected
Compartment #:	1	Substance:	USED OIL/WASTE OIL
Ecology Region:	North Western		

27
ESE
1/4-1/2
Higher

PLAID PANTRY #316
21919 66TH AVE W STE J
MOUNTLAKE TERRACE, WA 98043

UST
WA IRAP
LUST

U001126768
N/A

LUST:

Facility ID:	11386	Ecology Region:	North Western
Release Date:	7/13/94 0:00:00	Release ID:	5439
Release Status:	REPORTED CLEANED UP	Status Date:	6/1/95 0:00:00
Affected Media:	SOIL	Region:	STATE

Facility ID:	11386	Ecology Region:	North Western
Release Date:	7/13/94 0:00:00	Release ID:	5439
Release Status:	CLEANUP STARTED	Status Date:	7/13/94 0:00:00
Affected Media:	SOIL	Region:	STATE

WA IRAP:

Date Ecology Received Report: 02/01/1995
Contaminants Found at Site: Petroleum products
Media Contaminated: Soil
Cause of Contamination: Tank
Region: North Western
Type of Report Ecology Received: Final cleanup report
Site Register Issue: 93-49

UST:

Facility ID:	11386	Tank ID:	1
Install Date:	1/1/85	Status:	Operational
Capacity:	Not reported	Tank Material:	Coated Steel
Compartment #:	1	Substance:	LEADED GASOLINE
Ecology Region:	North Western		
Facility ID:	11386	Tank ID:	2
Install Date:	1/1/85	Status:	Operational
Capacity:	Not reported	Tank Material:	Coated Steel
Compartment #:	1	Substance:	UNLEADED GASOLINE
Ecology Region:	North Western		
Facility ID:	11386	Tank ID:	3
Install Date:	1/1/85	Status:	Operational
Capacity:	Not reported	Tank Material:	Coated Steel
Compartment #:	1	Substance:	UNLEADED GASOLINE
Ecology Region:	North Western		

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
F28 NNE 1/4-1/2 Higher	UNOCAL #5168 6921 212TH ST SW LYNNWOOD, WA 98036	WA IRAP	S102516492 N/A
WA IRAP: Date Ecology Received Report: 05/26/1992 Contaminants Found at Site: Petroleum products Media Contaminated: Groundwater, Soil Cause of Contamination: Tank Region: North Western Type of Report Ecology Received: Interim cleanup report Site Register Issue: 92-36			
F29 NNE 1/4-1/2 Higher	UNOCAL #5168 6921 212TH ST SW LYNNWOOD, WA 98036	WA IRAP	S102516495 N/A
WA IRAP: Date Ecology Received Report: 02/16/1994 Contaminants Found at Site: Petroleum products Media Contaminated: Groundwater, Soil Cause of Contamination: Tank Region: North Western Type of Report Ecology Received: Interim cleanup report Site Register Issue: 93-29			
F30 NNE 1/4-1/2 Higher	UNOCAL #5168 6921 212TH ST SW LYNNWOOD, WA 98036	WA IRAP	S102516496 N/A
WA IRAP: Date Ecology Received Report: 06/22/1995 Contaminants Found at Site: Petroleum products Media Contaminated: Groundwater, Soil Cause of Contamination: Tank Region: North Western Type of Report Ecology Received: Interim cleanup report Site Register Issue: 94-05			
F31 NNE 1/4-1/2 Higher	UNOCAL #5168 6921 212TH ST SW LYNNWOOD, WA 98037	WA IRAP	S102517841 N/A
WA IRAP: Date Ecology Received Report: 11/26/1996 Contaminants Found at Site: Petroleum products Media Contaminated: Groundwater, Soil Cause of Contamination: Tank Region: North Western Type of Report Ecology Received: Interim cleanup report Site Register Issue: 94-44			

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
F32 NNE 1/4-1/2 Higher	UNOCAL 5168 6921 - 212TH ST. S. W. LYNNWOOD, WA 98036	LUST	S101098972 N/A
LUST:			
<div> <div> Facility ID: 8466 Release Date: 8/10/90 0:00:00 Release Status: MONITORING Affected Media: SOIL </div> <div> Ecology Region: North Western Release ID: 3041 Status Date: 7/19/96 0:00:00 Region: STATE </div> </div>			
<div> <div> Facility ID: 8466 Release Date: 8/10/90 0:00:00 Release Status: MONITORING Affected Media: GROUND WATER </div> <div> Ecology Region: North Western Release ID: 3041 Status Date: 7/19/96 0:00:00 Region: STATE </div> </div>			
<div> <div> Facility ID: 8466 Release Date: 8/10/90 0:00:00 Release Status: CLEANUP STARTED Affected Media: GROUND WATER </div> <div> Ecology Region: North Western Release ID: 3041 Status Date: 6/1/95 0:00:00 Region: STATE </div> </div>			
<div> <div> Facility ID: 8466 Release Date: 8/10/90 0:00:00 Release Status: CLEANUP STARTED Affected Media: SOIL </div> <div> Ecology Region: North Western Release ID: 3041 Status Date: 6/1/95 0:00:00 Region: STATE </div> </div>			
F33 NNE 1/4-1/2 Higher	UNOCAL #5168 6921 212TH ST SW LYNNWOOD, WA 98036	WA IRAP	S102516491 N/A
WA IRAP:			
<div> <div>Date Ecology Received Report: 10/22/1990</div> <div>Contaminants Found at Site: Petroleum products</div> <div>Media Contaminated: Soil</div> <div>Cause of Contamination: Tank</div> <div>Region: North Western</div> <div>Type of Report Ecology Received: Interim cleanup report</div> <div>Site Register Issue: 90-14</div> </div>			
F34 NNE 1/4-1/2 Higher	UNOCAL #5168 6921 212TH ST SW LYNNWOOD, WA 98036	WA IRAP	S102516493 N/A
WA IRAP:			
<div> <div>Date Ecology Received Report: 06/21/1993</div> <div>Contaminants Found at Site: Petroleum products</div> <div>Media Contaminated: Groundwater, Soil</div> <div>Cause of Contamination: Tank</div> <div>Region: North Western</div> <div>Type of Report Ecology Received: Interim cleanup report</div> <div>Site Register Issue: 93-04</div> </div>			
F35 NNE 1/4-1/2 Higher	UNOCAL #5168 6921 212TH ST SW LYNNWOOD, WA 98036	WA IRAP	S102517728 N/A

MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Site	Database(s)	EDR ID Number EPA ID Number
	UNOCAL #5168 (Continued)		S102517728
	WA IRAP: Date Ecology Received Report: 06/07/1996 Contaminants Found at Site: Petroleum products Media Contaminated: Groundwater, Soil Cause of Contamination: Tank Region: North Western Type of Report Ecology Received: Interim cleanup report Site Register Issue: 94-41		
F36 NNE 1/4-1/2 Higher	UNOCAL #5168 6921 212TH ST SW LYNNWOOD, WA 98036	WA IRAP	S102516494 N/A
	WA IRAP: Date Ecology Received Report: 02/16/1994 Contaminants Found at Site: Petroleum products Media Contaminated: Groundwater, Soil Cause of Contamination: Tank Region: North Western Type of Report Ecology Received: Interim cleanup report Site Register Issue: 93-28		
F37 NNE 1/4-1/2 Higher	UNOCAL BULK PLANT #5168 6921 212TH ST SW LYNNWOOD, WA 98036	WA IRAP	S102517413 N/A
	WA IRAP: Date Ecology Received Report: 12/18/1995 Contaminants Found at Site: Petroleum products Media Contaminated: Groundwater, Soil Cause of Contamination: Tank Region: North Western Type of Report Ecology Received: Interim cleanup report Site Register Issue: 94-31		
G38 ESE 1/4-1/2 Higher	TEXACO STA 63 232 0263 6602 220TH SW MOUNTLAKE TERRACE, WA 98043	RCRIS-SQG FINDS LUST	1000660683 WAD988503702
	RCRIS: Owner: TEXACO REFINING & MARKETING INC Record Date: 03/16/92 Classification: Small Quantity Generator BIENNIAL REPORTS: Last Biennial Reporting Year: 1993 Waste Quantity (Lbs)		

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

TEXACO STA 63 232 0263 (Continued)

1000660683

Used Oil Recyc: No

Violation Status: No violations found

LUST:

Facility ID:	7671	Ecology Region:	North Western
Release Date:	6/19/90 0:00:00	Release ID:	2612
Release Status:	REPORTED CLEANED UP	Status Date:	6/1/95 0:00:00
Affected Media:	SOIL	Region:	STATE
Facility ID:	7671	Ecology Region:	North Western
Release Date:	6/19/90 0:00:00	Release ID:	2612
Release Status:	REPORTED CLEANED UP	Status Date:	6/1/95 0:00:00
Affected Media:	GROUND WATER	Region:	STATE
Facility ID:	7671	Ecology Region:	North Western
Release Date:	6/19/90 0:00:00	Release ID:	2612
Release Status:	CLEANUP STARTED	Status Date:	6/19/90 0:00:00
Affected Media:	SOIL	Region:	STATE
Facility ID:	7671	Ecology Region:	North Western
Release Date:	6/19/90 0:00:00	Release ID:	2612
Release Status:	CLEANUP STARTED	Status Date:	6/19/90 0:00:00
Affected Media:	GROUND WATER	Region:	STATE

G39
ESE
1/4-1/2
Higher

GULL #0214
6602 220TH ST SW
MOUNTLAKE TERRACE, WA 98043

WA IRAP

S102514388
N/A

WA IRAP:

Date Ecology Received Report: 10/07/1991
Contaminants Found at Site: Petroleum products
Media Contaminated: Soil
Cause of Contamination: Tank
Region: North Western
Type of Report Ecology Received: Final cleanup report
Site Register Issue: 92-08

G40
ESE
1/4-1/2
Higher

GULL #0214 (TWO REPORTS)
6602 220TH ST SW
MOUNTLAKE TERRACE, WA 98043

WA IRAP

S102514389
N/A

WA IRAP:

Date Ecology Received Report: 06/13/1995
Contaminants Found at Site: Petroleum products
Media Contaminated: Groundwater, Soil
Cause of Contamination: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 94-07

41
SSW
1/4-1/2
Higher

BOO HAN SUPERMARKET
22618 - 22626 HWY 99
EDMONDS, WA 98026

WA IRAP
LUST

S100759811
N/A

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

BOO HAN SUPERMARKET (Continued)

S100759811

LUST:

Facility ID: 200319 Ecology Region: North Western
Release Date: 12/3/93 0:00:00 Release ID: 4991
Release Status: CLEANUP STARTED Status Date: 5/21/95 0:00:00
Affected Media: SOIL Region: STATE

WA IRAP:

Date Ecology Received Report: 12/03/1993
Contaminants Found at Site: Petroleum products
Media Contaminated: Soil
Cause of Contamination: Tank
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 93-15

H42
NW
1/4-1/2
Higher

CHEVRON (PRIVATE) AKA CHEVRON ELKINS
7609 212TH ST SW
EDMONDS, WA 98020

WA IRAP

S102513563
N/A

WA IRAP:

Date Ecology Received Report: 09/16/1991
Contaminants Found at Site: Petroleum products
Media Contaminated: Soil
Cause of Contamination: Tank
Region: North Western
Type of Report Ecology Received: Final cleanup report
Site Register Issue: 92-07

H43
NW
1/4-1/2
Higher

DAVE ELKINS
7609 212TH ST SW # SW
EDMONDS, WA 98026

UST
LUST

U003029037
N/A

LUST:

Facility ID: 97387 Ecology Region: North Western
Release Date: 10/16/89 0:00:00 Release ID: 1500
Release Status: REPORTED CLEANED UP Status Date: 6/1/95 0:00:00
Affected Media: SOIL Region: STATE

Facility ID: 97387 Ecology Region: North Western
Release Date: 10/16/89 0:00:00 Release ID: 1500
Release Status: CLEANUP STARTED Status Date: 10/16/89 0:00:00
Affected Media: SOIL Region: STATE

UST:

Facility ID: 97387 Tank ID: 1
Install Date: 12/31/64 Status: Removed
Capacity: Not reported Tank Material: Steel-Unprotected
Compartment #: 1 Substance: LEADED GASOLINE
Ecology Region: North Western

Facility ID: 97387 Tank ID: 2
Install Date: 12/31/64 Status: Removed
Capacity: Not reported Tank Material: Steel-Unprotected
Compartment #: 1 Substance: UNLEADED GASOLINE
Ecology Region: North Western

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

DAVE ELKINS (Continued)

U003029037

Facility ID:	97387	Tank ID:	3
Install Date:	12/31/64	Status:	Removed
Capacity:	Not reported	Tank Material:	Steel-Unprotected
Compartment #:	1	Substance:	UNLEADED GASOLINE
Ecology Region:	North Western		
Facility ID:	97387	Tank ID:	4
Install Date:	12/31/64	Status:	Removed
Capacity:	Not reported	Tank Material:	Steel-Unprotected
Compartment #:	1	Substance:	UNLEADED GASOLINE
Ecology Region:	North Western		
Facility ID:	97387	Tank ID:	5
Install Date:	12/31/64	Status:	Removed
Capacity:	111 to 1,100 Gallons	Tank Material:	Steel-Unprotected
Compartment #:	1	Substance:	USED OIL/WASTE OIL
Ecology Region:	North Western		

44
NNE
1/4-1/2
Higher

MARK 2 COLLISION
21104 70TH AV W
EDMONDS, WA 98026

CSCSL

S100328999
N/A

SHWS:

Facility ID:	2800
Facility Status:	Not reported
Flag:	STATE
Rank:	Not reported
Responsible Unit:	NORTHWEST
Ecology Site Status relative to the MTCA cleanup process:	Awaiting Site Hazard Assessment (SHA)
Independent Site Status - those sites undergoing an independent cleanup:	Not reported
WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):	Not reported
Affected Media:	Sediment
Media Status:	S (Suspected) - Due to preliminary investigations or the nature of business operations or manufacturing processes, certain contaminants are suspected to be present at the site
Base/Neutral/Acid Organics:	Not reported
Halogenated Organic Compounds:	Not reported
EPA Priority Pollutants - Metals and Cyanide:	Suspected to be present
Metals - Other non-priority pollutant metals:	Not reported
Polychlorinated biPhenyls (PCBs):	Not reported
Pesticides:	Not reported
Petroleum Products:	Suspected to be present
Phenolic Compounds:	Not reported
Non-Halogenated Solvents:	Suspected to be present
Dioxin:	Not reported
Polynuclear Aromatic Hydrocarbons (PAH):	Not reported
Reactive Wastes:	Not reported
Corrosive Wastes:	Not reported
Radioactive Wastes:	Not reported
Asbestos:	Not reported
Conventional Contaminants, Organic:	Not reported
Conventional Contaminants, Inorganic:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MARK 2 COLLISION (Continued)

S100328999

Facility ID: 2800
Facility Status: Not reported
Flag: STATE
Rank: Not reported
Responsible Unit: NORTHWEST
Ecology Site Status relative to the MTCA cleanup process:
Awaiting Site Hazard Assessment (SHA)
Independent Site Status - those sites undergoing an independent cleanup:
Not reported
WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):
Not reported
Affected Media: Soil
Media Status: S (Suspected) - Due to preliminary investigations or the nature of business operations
or manufacturing processes, certain contaminants are suspected to be present at the
site
Base/Neutral/Acid Organics: Not reported
Halogenated Organic Compounds: Not reported
EPA Priority Pollutants - Metals and Cyanide: Suspected to be present
Metals - Other non-priority pollutant metals: Not reported
Polychlorinated biPhenyls (PCBs): Not reported
Pesticides: Not reported
Petroleum Products: Suspected to be present
Phenolic Compounds: Not reported
Non-Halogenated Solvents: Suspected to be present
Dioxin: Not reported
Polynuclear Aromatic Hydrocarbons (PAH): Not reported
Reactive Wastes: Not reported
Corrosive Wastes: Not reported
Radioactive Wastes: Not reported
Asbestos: Not reported
Conventional Contaminants, Organic: Not reported
Conventional Contaminants, Inorganic: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

MARK 2 COLLISION (Continued)

S100328999

Facility ID: 2800
Facility Status: Not reported
Flag: STATE
Rank: Not reported
Responsible Unit: NORTHWEST
Ecology Site Status relative to the MTCA cleanup process:
Awaiting Site Hazard Assessment (SHA)
Independent Site Status - those sites undergoing an independent cleanup:
Not reported
WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):
Not reported
Affected Media: Surface Water
Media Status: S (Suspected) - Due to preliminary investigations or the nature of business operations or manufacturing processes, certain contaminants are suspected to be present at the site
Base/Neutral/Acid Organics: Not reported
Halogenated Organic Compounds: Not reported
EPA Priority Pollutants - Metals and Cyanide: Suspected to be present
Metals - Other non-priority pollutant metals: Not reported
Polychlorinated biPhenyls (PCBs): Not reported
Pesticides: Not reported
Petroleum Products: Suspected to be present
Phenolic Compounds: Not reported
Non-Halogenated Solvents: Suspected to be present
Dioxin: Not reported
Polynuclear Aromatic Hydrocarbons (PAH): Not reported
Reactive Wastes: Not reported
Corrosive Wastes: Not reported
Radioactive Wastes: Not reported
Asbestos: Not reported
Conventional Contaminants, Organic: Not reported
Conventional Contaminants, Inorganic: Not reported

I45
North
1/4-1/2
Higher

HIGHLANDS BUILDING MAINTENANCE INC
7208 210TH ST SW
EDMONDS, WA 98020

UST
LUST

U000588474
N/A

LUST:

Facility ID: 3472
Release Date: 8/1/91 0:00:00
Release Status: CLEANUP STARTED
Affected Media: SOIL

Ecology Region: North Western
Release ID: 2387
Status Date: 6/1/95 0:00:00
Region: STATE

UST:

Facility ID: 3472
Install Date: 12/31/64
Capacity: Not reported
Compartment #: 1
Ecology Region: North Western

Tank ID: 1
Status: REMOVED
Tank Material: Not reported
Substance: LEADED GASOLINE

Facility ID: 3472
Install Date: 12/31/64
Capacity: Not reported
Compartment #: 1
Ecology Region: North Western

Tank ID: 2
Status: REMOVED
Tank Material: Not reported
Substance: LEADED GASOLINE

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

HIGHLANDS BUILDING MAINTENANCE INC (Continued)

U000588474

Facility ID:	3472	Tank ID:	3
Install Date:	12/31/64	Status:	REMOVED
Capacity:	Not reported	Tank Material:	Not reported
Compartment #:	1	Substance:	UNLEADED GASOLINE
Ecology Region:	North Western		

I46
North
1/4-1/2
Higher

COYOTE CORP.
7208 210TH ST SW
EDMONDS, WA 98020

WA IRAP

S102513731
N/A

WA IRAP:

Date Ecology Received Report:	10/08/1991
Contaminants Found at Site:	Petroleum products
Media Contaminated:	Soil
Cause of Contamination:	Tank
Region:	North Western
Type of Report Ecology Received:	Interim cleanup report
Site Register Issue:	92-08

47
ENE
1/2-1
Higher

SAFETY KLEEN CORP 7 092 01
6303 212TH ST SW STE C
LYNNWOOD, WA 98036

FINDS
RCRIS-LQG
RCRIS-TSD
RAATS
CORRACTS
UST
LUST

1000224448
WAD000712042

CORRACTS Data:

Prioritization:	Medium
Status:	RCRA Facility Assessment Completed, Determination of Need for a RCRA Facility Investigation

RCRIS Corrective Action Summary:

Effective Date: 07/01/91
Legal Authority: RCRA 3004(u) or equivalent

RCRIS:

Owner: DEL & DOROTHY BARTON
(206) 776-0283

Record Date: 05/22/91

Classification: Large Quantity Generator, TSDF, Hazardous Waste Transporter

BIENNIAL REPORTS:

Last Biennial Reporting Year: 1993

Waste	Quantity (Lbs)	Waste	Quantity (Lbs)
D001	2556140.00	D006	123900.00
D007	74480.00	D008	123900.00
D022	4540.00	D027	53960.00
D035	20800.00	D039	2796240.00
F001	2506680.00	F002	267560.00
F003	2527480.00	F004	4540.00
F005	2527480.00		

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

SAFETY KLEEN CORP 7 092 01 (Continued)

1000224448

Used Oil Recyc: No

TSDF Activities: Not reported

Violation Status: Violations exist, violations outstanding in the land restrictions area

There are 2 compliance/violation record(s) reported at this site:

Evaluation	Area of Violation	Date of Compliance
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	02/22/95
Compliance Evaluation Inspection (CEI)	TSD-Other Requirements	01/21/94
	TSD-Other Requirements	03/14/94
	TSD-Other Requirements	01/21/94

LUST:

Facility ID: 9800
Release Date: 7/13/94 0:00:00
Release Status: CLEANUP STARTED
Affected Media: SOIL

Ecology Region: North Western
Release ID: 5349
Status Date: 6/1/95 0:00:00
Region: STATE

UST:

Facility ID: 9800
Install Date: 12/31/64
Capacity: Not reported
Compartment #: 1
Ecology Region: North Western

Tank ID: 2
Status: Exempt
Tank Material: Steel-Unprotected
Substance: Not reported

Facility ID: 9800
Install Date: 12/31/64
Capacity: Not reported
Compartment #: 1
Ecology Region: North Western

Tank ID: 3
Status: Exempt
Tank Material: Steel-Unprotected
Substance: Not reported

Facility ID: 9800
Install Date: 2/1/79
Capacity: Not reported
Compartment #: 1
Ecology Region: North Western

Tank ID: 1
Status: Operational
Tank Material: Steel-Unprotected
Substance: Not reported

J48
ENE
1/2-1
Higher

KEN'S RADIATOR SERVICE
6226 212TH ST SW
LYNNWOOD, WA 98036

WA IRAP
CSCSL

S102364205
N/A

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

KEN'S RADIATOR SERVICE (Continued)

S102364205

SHWS:

Facility ID: 2768
Facility Status: INDEPENDENT RA
Flag: STATE/HSL
Rank: 2
Responsible Unit: NORTHWEST
Ecology Site Status relative to the MTCA cleanup process:
Independent Remedial Action
Independent Site Status - those sites undergoing an independent cleanup:
Not reported
WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):
2 - Moderate to greatest assessed risk to human health and to the environment
Affected Media: Air
Media Status: S (Suspected) - Due to preliminary investigations or the nature of business operations or manufacturing processes, certain contaminants are suspected to be present at the site
Base/Neutral/Acid Organics: Not reported
Halogenated Organic Compounds: Not reported
EPA Priority Pollutants - Metals and Cyanide: Suspected to be present
Metals - Other non-priority pollutant metals: Not reported
Polychlorinated biPhenyls (PCBs): Not reported
Pesticides: Not reported
Petroleum Products: Suspected to be present
Phenolic Compounds: Not reported
Non-Halogenated Solvents: Not reported
Dioxin: Not reported
Polynuclear Aromatic Hydrocarbons (PAH): Not reported
Reactive Wastes: Not reported
Corrosive Wastes: Not reported
Radioactive Wastes: Not reported
Asbestos: Not reported
Conventional Contaminants, Organic: Not reported
Conventional Contaminants, Inorganic: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

KEN'S RADIATOR SERVICE (Continued)

S102364205

Facility ID: 2768
Facility Status: INDEPENDENT RA
Flag: STATE/HSL
Rank: 2
Responsible Unit: NORTHWEST
Ecology Site Status relative to the MTCA cleanup process:
Independent Remedial Action
Independent Site Status - those sites undergoing an independent cleanup:
Not reported
WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):
2 - Moderate to greatest assessed risk to human health and to the environment
Affected Media: Groundwater
Media Status: S (Suspected) - Due to preliminary investigations or the nature of business operations or manufacturing processes, certain contaminants are suspected to be present at the site
Base/Neutral/Acid Organics: Not reported
Halogenated Organic Compounds: Not reported
EPA Priority Pollutants - Metals and Cyanide: Suspected to be present
Metals - Other non-priority pollutant metals: Not reported
Polychlorinated biPhenyls (PCBs): Not reported
Pesticides: Not reported
Petroleum Products: Suspected to be present
Phenolic Compounds: Not reported
Non-Halogenated Solvents: Not reported
Dioxin: Not reported
Polynuclear Aromatic Hydrocarbons (PAH): Not reported
Reactive Wastes: Not reported
Corrosive Wastes: Not reported
Radioactive Wastes: Not reported
Asbestos: Not reported
Conventional Contaminants, Organic: Not reported
Conventional Contaminants, Inorganic: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

KEN'S RADIATOR SERVICE (Continued)

S102364205

Facility ID: 2768
Facility Status: INDEPENDENT RA
Flag: STATE/HSL
Rank: 2
Responsible Unit: NORTHWEST
Ecology Site Status relative to the MTCA cleanup process:
Independent Remedial Action
Independent Site Status - those sites undergoing an independent cleanup:
Not reported
WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):
2 - Moderate to greatest assessed risk to human health and to the environment
Affected Media: Sediment
Media Status: C (Confirmed) - The presence of hazardous substances above MTCA cleanup levels has been confirmed by laboratory analysis (or field determination in the case of petroleum contamination)
Base/Neutral/Acid Organics: Not reported
Halogenated Organic Compounds: Not reported
EPA Priority Pollutants - Metals and Cyanide: Confirmed above MTCA cleanup levels
Metals - Other non-priority pollutant metals: Not reported
Polychlorinated biPhenyls (PCBs): Not reported
Pesticides: Not reported
Petroleum Products: Confirmed above MTCA cleanup levels
Phenolic Compounds: Not reported
Non-Halogenated Solvents: Not reported
Dioxin: Not reported
Polynuclear Aromatic Hydrocarbons (PAH): Not reported
Reactive Wastes: Not reported
Corrosive Wastes: Not reported
Radioactive Wastes: Not reported
Asbestos: Not reported
Conventional Contaminants, Organic: Not reported
Conventional Contaminants, Inorganic: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

KEN'S RADIATOR SERVICE (Continued)

S102364205

Facility ID: 2768
Facility Status: INDEPENDENT RA
Flag: STATE/HSL
Rank: 2
Responsible Unit: NORTHWEST
Ecology Site Status relative to the MTCA cleanup process:
Independent Remedial Action
Independent Site Status - those sites undergoing an independent cleanup:
Not reported
WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):
2 - Moderate to greatest assessed risk to human health and to the environment
Affected Media: Soil
Media Status: C (Confirmed) - The presence of hazardous substances above MTCA cleanup levels has been confirmed by laboratory analysis (or field determination in the case of petroleum contamination)
Base/Neutral/Acid Organics: Not reported
Halogenated Organic Compounds: Not reported
EPA Priority Pollutants - Metals and Cyanide: Confirmed above MTCA cleanup levels
Metals - Other non-priority pollutant metals: Not reported
Polychlorinated biPhenyls (PCBs): Not reported
Pesticides: Not reported
Petroleum Products: Confirmed above MTCA cleanup levels
Phenolic Compounds: Not reported
Non-Halogenated Solvents: Not reported
Dioxin: Not reported
Polynuclear Aromatic Hydrocarbons (PAH): Not reported
Reactive Wastes: Not reported
Corrosive Wastes: Not reported
Radioactive Wastes: Not reported
Asbestos: Not reported
Conventional Contaminants, Organic: Not reported
Conventional Contaminants, Inorganic: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

KEN'S RADIATOR SERVICE (Continued)

S102364205

Facility ID: 2768
 Facility Status: INDEPENDENT RA
 Flag: STATE/HSL
 Rank: 2
 Responsible Unit: NORTHWEST
 Ecology Site Status relative to the MTCA cleanup process:
 Independent Remedial Action
 Independent Site Status - those sites undergoing an independent cleanup:
 Not reported
 WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):
 2 - Moderate to greatest assessed risk to human health and to the environment
 Affected Media: Surface Water
 Media Status: C (Confirmed) - The presence of hazardous substances above MTCA cleanup levels has
 been confirmed by laboratory analysis (or field determination in the case of petroleum
 contamination)

Base/Neutral/Acid Organics:	Not reported
Halogenated Organic Compounds:	Not reported
EPA Priority Pollutants - Metals and Cyanide:	Confirmed above MTCA cleanup levels
Metals - Other non-priority pollutant metals:	Not reported
Polychlorinated biPhenyls (PCBs):	Not reported
Pesticides:	Not reported
Petroleum Products:	Confirmed above MTCA cleanup levels
Phenolic Compounds:	Not reported
Non-Halogenated Solvents:	Not reported
Dioxin:	Not reported
Polynuclear Aromatic Hydrocarbons (PAH):	Not reported
Reactive Wastes:	Not reported
Corrosive Wastes:	Not reported
Radioactive Wastes:	Not reported
Asbestos:	Not reported
Conventional Contaminants, Organic:	Not reported
Conventional Contaminants, Inorganic:	Not reported

WA IRAP:

Date Ecology Received Report:	05/24/1993
Contaminants Found at Site:	Metals
	Petroleum products
Media Contaminated:	Soil
Cause of Contamination:	Not reported
Region:	North Western
Type of Report Ecology Received:	Interim cleanup report
Site Register Issue:	93-10
Date Ecology Received Report:	09/29/1993
Contaminants Found at Site:	Metals
	Petroleum products
Media Contaminated:	Soil
Cause of Contamination:	Not reported
Region:	North Western
Type of Report Ecology Received:	Interim cleanup report
Site Register Issue:	93-10

J49
ENE
1/2-1
Higher

SNOHOMISH COUNTY PUD
6200 212TH ST SW
LYNNWOOD, WA 98036

WA IRAP
CSCSL

S100080126
N/A

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

SNOHOMISH COUNTY PUD (Continued)

S100080126

SHWS:

Facility ID: 2770

Facility Status: INDEPENDENT RA

Flag: STATE/HSL

Rank: 2

Responsible Unit: NORTHWEST

Ecology Site Status relative to the MTCA cleanup process:

Independent Remedial Action

Independent Site Status - those sites undergoing an independent cleanup:

Not reported

WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):

2 - Moderate to greatest assessed risk to human health and to the environment

Affected Media: Air

Media Status: S (Suspected) - Due to preliminary investigations or the nature of business operations or manufacturing processes, certain contaminants are suspected to be present at the site

Base/Neutral/Acid Organics:

Not reported

Halogenated Organic Compounds:

Not reported

EPA Priority Pollutants - Metals and Cyanide:

Suspected to be present

Metals - Other non-priority pollutant metals:

Not reported

Polychlorinated biPhenyls (PCBs):

Not reported

Pesticides:

Not reported

Petroleum Products:

Suspected to be present

Phenolic Compounds:

Not reported

Non-Halogenated Solvents:

Not reported

Dioxin:

Not reported

Polynuclear Aromatic Hydrocarbons (PAH):

Not reported

Reactive Wastes:

Not reported

Corrosive Wastes:

Not reported

Radioactive Wastes:

Not reported

Asbestos:

Not reported

Conventional Contaminants, Organic:

Not reported

Conventional Contaminants, Inorganic:

Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

SNOHOMISH COUNTY PUD (Continued)

S100080126

Facility ID: 2770
Facility Status: INDEPENDENT RA
Flag: STATE/HSL
Rank: 2
Responsible Unit: NORTHWEST
Ecology Site Status relative to the MTCA cleanup process:
Independent Remedial Action
Independent Site Status - those sites undergoing an independent cleanup:
Not reported
WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):
2 - Moderate to greatest assessed risk to human health and to the environment
Affected Media: Groundwater
Media Status: S (Suspected) - Due to preliminary investigations or the nature of business operations or manufacturing processes, certain contaminants are suspected to be present at the site
Base/Neutral/Acid Organics: Not reported
Halogenated Organic Compounds: Not reported
EPA Priority Pollutants - Metals and Cyanide: Suspected to be present
Metals - Other non-priority pollutant metals: Not reported
Polychlorinated biPhenyls (PCBs): Not reported
Pesticides: Not reported
Petroleum Products: Suspected to be present
Phenolic Compounds: Not reported
Non-Halogenated Solvents: Not reported
Dioxin: Not reported
Polynuclear Aromatic Hydrocarbons (PAH): Not reported
Reactive Wastes: Not reported
Corrosive Wastes: Not reported
Radioactive Wastes: Not reported
Asbestos: Not reported
Conventional Contaminants, Organic: Not reported
Conventional Contaminants, Inorganic: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

SNOHOMISH COUNTY PUD (Continued)

S100080126

Facility ID: 2770
Facility Status: INDEPENDENT RA
Flag: STATE/HSL
Rank: 2
Responsible Unit: NORTHWEST
Ecology Site Status relative to the MTCA cleanup process:
Independent Remedial Action
Independent Site Status - those sites undergoing an independent cleanup:
Not reported
WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):
2 - Moderate to greatest assessed risk to human health and to the environment
Affected Media: Sediment
Media Status: C (Confirmed) - The presence of hazardous substances above MTCA cleanup levels has been confirmed by laboratory analysis (or field determination in the case of petroleum contamination)
Base/Neutral/Acid Organics: Not reported
Halogenated Organic Compounds: Not reported
EPA Priority Pollutants - Metals and Cyanide: Confirmed above MTCA cleanup levels
Metals - Other non-priority pollutant metals: Not reported
Polychlorinated biPhenyls (PCBs): Not reported
Pesticides: Not reported
Petroleum Products: Confirmed above MTCA cleanup levels
Phenolic Compounds: Not reported
Non-Halogenated Solvents: Not reported
Dioxin: Not reported
Polynuclear Aromatic Hydrocarbons (PAH): Not reported
Reactive Wastes: Not reported
Corrosive Wastes: Not reported
Radioactive Wastes: Not reported
Asbestos: Not reported
Conventional Contaminants, Organic: Not reported
Conventional Contaminants, Inorganic: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SNOHOMISH COUNTY PUD (Continued)

S100080126

Facility ID: 2770
Facility Status: INDEPENDENT RA
Flag: STATE/HSL
Rank: 2
Responsible Unit: NORTHWEST
Ecology Site Status relative to the MTCA cleanup process:
Independent Remedial Action
Independent Site Status - those sites undergoing an independent cleanup:
Not reported
WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):
2 - Moderate to greatest assessed risk to human health and to the environment
Affected Media: Soil
Media Status: S (Suspected) - Due to preliminary investigations or the nature of business operations
or manufacturing processes, certain contaminants are suspected to be present at the
site
Base/Neutral/Acid Organics: Not reported
Halogenated Organic Compounds: Not reported
EPA Priority Pollutants - Metals and Cyanide: Suspected to be present
Metals - Other non-priority pollutant metals: Not reported
Polychlorinated biPhenyls (PCBs): Not reported
Pesticides: Not reported
Petroleum Products: Suspected to be present
Phenolic Compounds: Not reported
Non-Halogenated Solvents: Not reported
Dioxin: Not reported
Polynuclear Aromatic Hydrocarbons (PAH): Not reported
Reactive Wastes: Not reported
Corrosive Wastes: Not reported
Radioactive Wastes: Not reported
Asbestos: Not reported
Conventional Contaminants, Organic: Not reported
Conventional Contaminants, Inorganic: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

SNOHOMISH COUNTY PUD (Continued)

S100080126

Facility ID: 2770
Facility Status: INDEPENDENT RA
Flag: STATE/HSL
Rank: 2
Responsible Unit: NORTHWEST
Ecology Site Status relative to the MTCA cleanup process:
Independent Remedial Action
Independent Site Status - those sites undergoing an independent cleanup:
Not reported
WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):
2 - Moderate to greatest assessed risk to human health and to the environment
Affected Media: Surface Water
Media Status: C (Confirmed) - The presence of hazardous substances above MTCA cleanup levels has been confirmed by laboratory analysis (or field determination in the case of petroleum contamination)
Base/Neutral/Acid Organics: Not reported
Halogenated Organic Compounds: Not reported
EPA Priority Pollutants - Metals and Cyanide: Confirmed above MTCA cleanup levels
Metals - Other non-priority pollutant medals: Not reported
Polychlorinated biPhenyls (PCBs): Not reported
Pesticides: Not reported
Petroleum Products: Confirmed above MTCA cleanup levels
Phenolic Compounds: Not reported
Non-Halogenated Solvents: Not reported
Dioxin: Not reported
Polynuclear Aromatic Hydrocarbons (PAH): Not reported
Reactive Wastes: Not reported
Corrosive Wastes: Not reported
Radioactive Wastes: Not reported
Asbestos: Not reported
Conventional Contaminants, Organic: Not reported
Conventional Contaminants, Inorganic: Not reported

WA IRAP:

Date Ecology Received Report: 10/08/1992
Contaminants Found at Site: Metals
Petroleum products
Media Contaminated: Soil
Cause of Contamination: Not reported
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 93-10
Date Ecology Received Report: 05/21/1993
Contaminants Found at Site: Metals
Petroleum products
Media Contaminated: Soil
Cause of Contamination: Not reported
Region: North Western
Type of Report Ecology Received: Interim cleanup report
Site Register Issue: 93-10

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

SNOHOMISH COUNTY PUD (Continued)

S100080126

Date Ecology Received Report: 12/01/1993
Contaminants Found at Site: Metals
Media Contaminated: Soil
Cause of Contamination: Handling practices
Region: North Western
Type of Report Ecology Received: Final cleanup report
Site Register Issue: 93-16

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)	Facility ID
BRIER	S102258076	COUNTRYSIDE DEVELOPMENT	33RD PL SW / 214TH ST SW	98036	CSCSL	
EDMONDS	S102516258	US POSTAL SERVICE	76TH AND OLYMPIC VIEW DRIVE	98026	WA IRAP	
EDMONDS	U001121930	SNOHOMISH COUNTY FIRE DISTRICT 1	23009 88TH AVE W	98026	UST	
EDMONDS	1000659079	BP OIL SITE 11096	7601 LK BALLINGER WAY	98026	RCRIS-SQG, FINDS, UST, WA IRAP, LUST	10182
LYNNWOOD	S102516490	UNOCAL #5168	212TH ST. SW	98036	WA IRAP	
LYNNWOOD	1001082005	WDOT BRDG 405 E & W	MP 30.2 SR 405 SWAMP CRK	98036	RCRIS-SQG	
LYNNWOOD	1000891965	FIRESTONE	19800 H 44TH AVE W	98036	RCRIS-SQG, FINDS	
LYNNWOOD	1000891854	MEINEKE DISCOUNT MUFFLER	21619 HWY 99 STE E	98036	RCRIS-SQG, FINDS	
LYNNWOOD	1000696942	LYNNWOOD DRYCLEANERS	19500A HWY 99	98036	RCRIS-SQG, FINDS	
LYNNWOOD	U000923472	BOB MILLER	21126 44TH AVE W	98036	UST	
LYNNWOOD	S102516526	UNOCAL #5533	16404 36TH AVE. N.	98036	WA IRAP	
LYNNWOOD	S102516525	UNOCAL #5533	16404 36TH AVE. N.	98036	WA IRAP	
LYNNWOOD	S102516524	UNOCAL #5533	16404 36TH AVE. N.	98036	WA IRAP	
LYNNWOOD	S102516523	UNOCAL #5533	16404 36TH AVE. N.	98036	WA IRAP	
LYNNWOOD	U001123656	U.S. POSTAL SERVICE	6817-208 S.W.	98036	UST	
LYNNWOOD	S102513788	DONNELL'S CONSTRUCTION SUPPLY CO., INC.	7010 196TH ST SW	98036	WA IRAP	
LYNNWOOD	S102514775	LYNNWOOD SEWER LIFT STATION #10	4599 204TH ST.	98036	WA IRAP	
LYNNWOOD	S102514602	JONES RESIDENCE	12629 238TH ST.	98036	WA IRAP	
MOUNTLAKE	S100484197	SOUTHWEST TRAMSFER STATION	2131 61ST PLACE W	98043	SWF/LF	
MOUNTLAKE TERRACE	U001124977	CLOUDY & BRITTON INC	6202-214TH-SW	98043	UST	
MOUNTLAKE TERRACE	1000697042	SCHAFNER MOTORS INC	21705 HWY 99	98043	RCRIS-SQG, FINDS	
MOUNTLAKE TERRACE	U003029271	ARCO 5525	21201 44TH AVE W	98043	UST	
MOUNTLAKE TERRACE	S102516013	TEXACO #63232 0163 (THREE REPORTS)	22801 44TH AVE W	98043	WA IRAP	
MOUNTLAKE TERRACE	S102515983	TEXACO #63 232 0163	22801 44TH AVE W	98043	WA IRAP	
MOUNTLAKE TERRACE	1000838709	ARCO PRODUCTS CO 5525 PRESTIGE STA 5516	21201 44TH AVE W	98043	RCRIS-SQG, FINDS	
MOUNTLAKE TERRACE	1000660592	TEXACO SS 63232163	22801 44TH AVE W	98043	RCRIS-SQG, FINDS	
MOUNTLAKE TERRACE	1001126021	USEPA MOUNTLAKE TERRACE DRUMS	NE CORNER 212TH ST SW	98043	RCRIS-LQG	
MOUNTLAKE TERRACE	1000196477	FILE DOCTORS THE	6505 218TH SW STE B	98043	RCRIS-SQG, FINDS	

GEOCHECK VERSION 2.1 ADDENDUM FEDERAL DATABASE WELL INFORMATION

Well Closest to Target Property (Eastern Quadrant)

BASIC WELL DATA

Site ID:	474634122171901	Distance from TP:	>2 Miles
Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Not Reported
Altitude:	340.00 ft.	State:	Not Reported
Well Depth:	10.20 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	9.15 ft.	Prim. Use of Site:	Observation
Date Measured:	08131953	Prim. Use of Water:	Unused

LITHOLOGIC DATA

Not Reported

WATER LEVEL VARIABILITY

Not Reported

GEOCHECK VERSION 2.1

FEDERAL DATABASE WELL INFORMATION

Well Closest to Target Property (Southern Quadrant)

BASIC WELL DATA

Site ID:	474639122190601	Distance from TP:	1 - 2 Miles
Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1953	County:	Not Reported
Altitude:	310.00 ft.	State:	Not Reported
Well Depth:	565.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	330.01 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	09291953	Prim. Use of Water:	Irrigation

LITHOLOGIC DATA

Not Reported

WATER LEVEL VARIABILITY

Not Reported

GEOCHECK VERSION 2.1
FEDERAL DATABASE WELL INFORMATION

Well Closest to Target Property (Western Quadrant)

BASIC WELL DATA

Site ID:	474740122224001	Distance from TP:	>2 Miles
Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Not Reported
Altitude:	460.00 ft.	State:	Not Reported
Well Depth:	300.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	280.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	Not Reported	Prim. Use of Water:	Domestic

LITHOLOGIC DATA

Not Reported

WATER LEVEL VARIABILITY

Not Reported

GEOCHECK VERSION 2.1

PUBLIC WATER SUPPLY SYSTEM INFORMATION

Searched by Nearest Well.

PWS SUMMARY:

PWS ID:	WA5308786	PWS Status:	Active	Distance from TP:	1 - 2 Miles
Date Initiated:	Not Reported	Date Deactivated:	Not Reported	Dir relative to TP:	East
PWS Name:	SOUTH SOUND SPEEDWAY LACEY, WA 98503				

Addressee / Facility: Not Reported

Facility Latitude: 47 47 17
City Served: Not Reported
Treatment Class: Treated

Facility Longitude: 122 18 27

Population Served: 101 - 500 Persons

Well currently has or has had major violation(s): Yes

Violations information not reported.

EPA Waste Codes Addendum

Code	Description
D001	IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
D006	CADMIUM
D007	CHROMIUM
D008	LEAD
D018	BENZENE
D022	CHLOROFORM
D027	1,4-DICHLOROBENZENE
D035	METHYL ETHYL KETONE
D039	TETRACHLOROETHYLENE
F001	THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
F002	THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
F003	THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
F004	THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: CRESOLS AND CRESYLIC ACID, AND

EPA Waste Codes Addendum

Code	Description
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	NITROBENZENE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
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F005	THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Elapsed ASTM days: Provides confirmation that this EDR report meets or exceeds the 90-day updating requirement of the ASTM standard.

FEDERAL ASTM RECORDS:

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

Source: EPA/NTIS

Telephone: 703-413-0223

CERCLIS: CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/30/97

Date Made Active at EDR: 06/30/97

Database Release Frequency: Monthly

Date of Data Arrival at EDR: 05/19/97

Elapsed ASTM days: 42

Date of Last EDR Contact: 07/10/97

ERNS: Emergency Response Notification System

Source: EPA/NTIS

Telephone: 202-260-2342

ERNS: Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/01/97

Date Made Active at EDR: 06/24/97

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 04/10/97

Elapsed ASTM days: 75

Date of Last EDR Contact: 04/07/97

NPL: National Priority List

Source: EPA

Telephone: 703-603-8852

NPL: National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC).

Date of Government Version: 04/01/97

Date Made Active at EDR: 05/29/97

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 04/21/97

Elapsed ASTM days: 38

Date of Last EDR Contact: 07/01/97

RCRIS: Resource Conservation and Recovery Information System

Source: EPA/NTIS

Telephone: 800-424-9346

RCRIS: Resource Conservation and Recovery Information System. RCRIS includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

Date of Government Version: 04/01/97

Date Made Active at EDR: 06/30/97

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 04/25/97

Elapsed ASTM days: 66

Date of Last EDR Contact: 08/04/97

CORRACTS: Corrective Action Report

Source: EPA

Telephone: 800-424-9346

CORRACTS: CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/01/96

Date Made Active at EDR: 03/03/97

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 12/30/96

Elapsed ASTM days: 63

Date of Last EDR Contact: 07/07/97

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FEDERAL NON-ASTM RECORDS:

CONSENT: Superfund (CERCLA) Consent Decrees

Source: EPA Regional Offices

Telephone: Varies

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: Varies

Database Release Frequency: Varies

Date of Last EDR Contact: Varies

Date of Next Scheduled EDR Contact: N/A

FINDS: Facility Index System

Source: EPA/NTIS

Telephone: 703-908-2493

FINDS: Facility Index System. FINDS contains both facility information and "pointers" to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 09/30/95

Database Release Frequency: Quarterly

Date of Last EDR Contact: 05/05/97

Date of Next Scheduled EDR Contact: 08/04/97

HMIRS: Hazardous Materials Information Reporting System

Source: U.S. Department of Transportation

Telephone: 202-366-4526

HMIRS: Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/95

Database Release Frequency: Annually

Date of Last EDR Contact: 07/28/97

Date of Next Scheduled EDR Contact: 10/27/97

MLTS: Material Licensing Tracking System

Source: Nuclear Regulatory Commission

Telephone: 301-415-7169

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 01/15/97

Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/14/97

Date of Next Scheduled EDR Contact: 10/13/97

NPL LIENS: Federal Superfund Liens

Source: EPA

Telephone: 205-564-4267

NPL LIENS: Federal Superfund Liens. Under the authority granted the USEPA by the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner receives notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/91

Database Release Frequency: No Update Planned

Date of Last EDR Contact: 05/29/97

Date of Next Scheduled EDR Contact: 08/25/97

PADS: PCB Activity Database System

Source: EPA

Telephone: 202-260-3936

PADS: PCB Activity Database. PADS identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/27/97

Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 05/20/97

Date of Next Scheduled EDR Contact: 08/18/97

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RAATS: RCRA Administrative Action Tracking System

Source: EPA

Telephone: 202-564-4104

RAATS: RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/95

Database Release Frequency: N/A

Date of Last EDR Contact: 07/01/97

Date of Next Scheduled EDR Contact: 09/15/97

ROD: Records Of Decision

Source: NTIS

Telephone: 703-416-0223

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 03/31/95

Database Release Frequency: Annually

Date of Last EDR Contact: 06/02/97

Date of Next Scheduled EDR Contact: 09/01/97

TRIS: Toxic Chemical Release Inventory System

Source: EPA/NTIS

Telephone: 202-260-1531

TRIS: Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/92

Database Release Frequency: Annually

Date of Last EDR Contact: 07/02/97

Date of Next Scheduled EDR Contact: 09/29/97

TSCA: Toxic Substances Control Act

Source: EPA/NTIS

Telephone: 202-260-1444

TSCA: Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site. USEPA has no current plan to update and/or re-issue this database.

Date of Government Version: 01/31/95

Database Release Frequency: Annually

Date of Last EDR Contact: 06/16/97

Date of Next Scheduled EDR Contact: 09/15/97

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STATE OF WASHINGTON ASTM RECORDS:

CSCSL: Confirmed & Suspected Contaminated Sites List

Source: Department of Ecology

Telephone: 360-407-7200

SHWS: State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 06/09/97

Date Made Active at EDR: 07/28/97

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 06/10/97

Elapsed ASTM days: 48

Date of Last EDR Contact: 05/19/97

HSL: Hazardous Sites List

Source: Department of Ecology

Telephone: 360-407-7200

HSL: The Hazardous Sites List is a subset of the CSCSL Report. It includes sites which have been assessed and ranked using the Washington Ranking Method (WARM).

Date of Government Version: 02/20/97

Date Made Active at EDR: 04/24/97

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 03/12/97

Elapsed ASTM days: 43

Date of Last EDR Contact: 06/16/97

LUST: Leaking Underground Storage Tanks Site List

Source: Department of Ecology

Telephone: 360-407-7200

LUST: Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 05/01/97

Date Made Active at EDR: 07/17/97

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 05/19/97

Elapsed ASTM days: 59

Date of Last EDR Contact: 08/04/97

SWF/LF: Solid Waste Facilities Handbook

Source: Department of Ecology

Telephone: 360-407-6132

SWF/LF: Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 06/13/96

Date Made Active at EDR: 12/09/96

Database Release Frequency: Annually

Date of Data Arrival at EDR: 11/22/96

Elapsed ASTM days: 17

Date of Last EDR Contact: 05/20/97

UST: Statewide UST Site/Tank Report

Source: Department of Ecology

Telephone: 360-407-7170

UST: Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 05/01/97

Date Made Active at EDR: 07/03/97

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 05/19/97

Elapsed ASTM days: 45

Date of Last EDR Contact: 08/04/97

STATE OF WASHINGTON NON-ASTM RECORDS:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AIR EMISSIONS: Washington Emissions Data System

Source: Department of Ecology

Telephone: 360-407-6040

Date of Government Version: 12/31/95

Database Release Frequency: No Update Planned

Date of Last EDR Contact: 07/30/97

Date of Next Scheduled EDR Contact: 10/27/97

IRAP: Independent Cleanup Reports

Source: Department of Ecology

Telephone: 360-407-7200

IRAP: These are remedial action reports Ecology has received from either the owner or operator of the sites. These actions have been conducted without department oversight or approval and are not under an order or decree.

Date of Government Version: 03/01/97

Database Release Frequency: Quarterly

Date of Last EDR Contact: 06/09/97

Date of Next Scheduled EDR Contact: 09/08/97

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

WASHINGTON COUNTY RECORDS

KING COUNTY:

Seattle - King County Abandoned Landfill Toxicity / Hazard Assessment project

Source: Department of Public Health

Telephone: 206-296-4785

This report presents the Seattle-King County Health Department's follow-up investigation of two city owned and four county owned abandoned landfills which was conducted from February to December 1986.

Date of Government Version: 12/31/86

Database Release Frequency: No Update Planned

Date of Last EDR Contact: 08/14/95

Date of Next Scheduled EDR Contact: N/A

Abandoned Landfill Study in King County

Source: Seattle-King County Department of Public Health

Telephone: 206-296-4785

The King County Abandoned Landfill Survey was conducted from October through December 1984 by the Health Department's Environmental Health Division at the request of the King County Council. The primary objective of the survey was to determine if any public health problems existed at the predetermined 24 sites.

Date of Government Version: 04/30/85

Database Release Frequency: No Update Planned

Date of Last EDR Contact: 10/21/94

Date of Next Scheduled EDR Contact: N/A

Abandoned Landfill Study in the City of Seattle

Source: Seattle - King County Department of Public Health

Telephone: 206-296-4785

The Seattle Abandoned Landfill Survey was conducted in June and July of 1984 by the Health Department's Environmental Health Division at the request of the Mayor's Office. The primary objective of the survey was to determine if any public health problems existed at the predetermined 12 sites.

Date of Government Version: 07/30/84

Database Release Frequency: No Update Planned

Date of Last EDR Contact: 10/21/94

Date of Next Scheduled EDR Contact: N/A

SNOHOMISH COUNTY:

Soilid Waste Sites of Record at Snohomish Health District

Source: Snohomish Health District

Telephone: 206-339-5250

Date of Government Version: 06/19/96

Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 07/23/97

Date of Next Scheduled EDR Contact: 10/20/97

TACOMA-PIERCE COUNTY:

Closed Landfill Survey

Source: Tacoma-Pierce County Health Department

Telephone: 206-591-6500

Following numerous requests for information about closed dumpsites and landfills in Pierce County, the Tacoma-Pierce County Health Department decided to conduct a study on the matter. The aim of the study was to evaluate public health risks associated with the closed dumpsites and landfills, and to determine the need, if any, for further investigations of a more detailed nature. The sites represent all of the known dumpsites and landfills closed after 1950.

Date of Government Version: 04/15/93

Database Release Frequency: No Update Planned

Date of Last EDR Contact: 01/11/95

Date of Next Scheduled EDR Contact: N/A

Historical and Other Database(s)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

Former Manufactured Gas (Coal Gas) Sites: The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. ©Copyright 1993 Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative.

Disclaimer Provided by Real Property Scan, Inc.

The information contained in this report has predominantly been obtained from publicly available sources produced by entities other than Real Property Scan. While reasonable steps have been taken to insure the accuracy of this report, Real Property Scan does not guarantee the accuracy of this report. Any liability on the part of Real Property Scan is strictly limited to a refund of the amount paid. No claim is made for the actual existence of toxins at any site. This report does not constitute a legal opinion.

DELISTED NPL: Delisted NPL Sites

Source: EPA

Telephone: 703-603-8769

DELISTED NPL: The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

NFRAP: No Further Remedial Action Planned

Source: EPA/NTIS

Telephone: 703-413-0223

NFRAP: As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

FRDS: Federal Reporting Data System

Source: EPA/Office of Drinking Water

Telephone: 202-260-2805

FRDS provides information regarding public water supplies and their compliance with monitoring requirements, maximum contaminant levels (MCL's), and other requirements of the Safe Drinking Water Act of 1986.

Area Radon Information: The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

Oil/Gas Pipelines/Electrical Transmission Lines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines and electrical transmission lines.

Sensitive Receptors: There are individuals who, due to their fragile immune systems, are deemed to be especially sensitive to environmental discharges. These typically include the elderly, the sick, and children. While the exact location of these sensitive receptors cannot be determined, EDR indicates those facilities, such as schools, hospitals, day care centers, and nursing homes, where sensitive receptors are likely to be located.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

USGS Water Wells: In November 1971 the United States Geological Survey (USGS) implemented a national water resource information tracking system. This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on more than 900,000 wells, springs, and other sources of groundwater.

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1994 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

Water Dams: National Inventory of Dams

Source: Federal Emergency Management Agency

Telephone: 202-646-2801

WATER DAMS: National computer database of more than 74,000 dams maintained by the Federal Emergency Management Agency.

Water Wells in Kitsap County

Source: Public Utility District No. 1 of Kitsap County

Telephone: 206-779-7656

APPENDIX D

PLANTER

PLANTER

EXISTING MEDICAL OFFICE BUILDING

SIDEWALK & PLANTER

CONCRETE RETAINING WALL

ASPHALT PARKING LOT

PLANTER

HIGHWAY 99

MW-3

SB-1

MW-2

SW-4 [DRY] +

SW-5 [DRY] +

SW-1 [20.24] + (90)

SW-2 + [20.11] (ND)

SW-8 [DRY] +

SW-7 + [23.34] (ND)

SW-3 + [22.79] (ND)

SW-6 + [22.73] (3.2)

MW-1

OMW-1

OMW-2

OMW-3

OMW-4

LEGEND

MW-1 \diamond SEACOR M

OMW-1 \diamond SEACOR O

SB-1 \diamond SEACOR S

SW-1 + SEACOR S

[23.34] DEPTH TO

(3.2) ppb TETRA

(ND) NOT DETEC

MW-1	SEACOR MONITORING WELL
OMW-1	SEACOR OBSERVATION MONITORING WELL
SB-1	SEACOR SOIL BORING
SW-1	SEACOR SAMPLE WELL
[23.34]	DEPTH TO GROUNDWATER
(3.2)	ppb TETRACHLOROETHENE
(ND)	NOT DETECTED

SEACOR

DWN CC
APPR 12
DATE 9/16/93
JOB#
00502-001-02

FIGURE 1
SITE PLAN
KRUGER CLINIC
21600 HIGHWAY 99
EDMONDS, WASHINGTON

APPENDIX E

Date 6/8/94

TO: Mary O'Herron

FROM: Elaine Atkinson

SUBJECT: Independent Technical Assistance Meeting for Site

Date of Meeting: 6/8/94

Attending for Ecology: Elaine Atkinson, Nnamdi Madakor

Time of Meeting: 1:30

Meeting Location: NWRO

Is This Site on ERTS?

YY N

Other Attendees: Peter Jewett, Seacor;
Bill Neal, Stafford Frey Cooper Attorneys

Is This Site on SMIS? not yet, but referred by Norm Peck

Was the Site Visited By Ecology?

YY N

Topics Discussed: They gave some of the background of the site, i.e. it was a former wrecking yard and now has a clinic on it. Investigations were conducted looking for TPH, PCBs, VOAs and metals. Tetrachloroethylene (PCE) was detected in groundwater at 110 ppb (cleanup level is 5 ppb). Metals were also detected. Chromium, lead, etc. appear high although it's not clear whether the samples were filtered or not, or whether filtering is justified for the site conditions. PCE was detected at 2.3 ppm on adjacent property, but this appears to be downgradient of the site. However, Seacor feels they cannot determine the groundwater flow direction because many of there wells went dry (they claim these dry spells are correlated to dry weather conditions and vice versa).

Nnamdi says based on the data collected, it is possible the MW-2 location is a low spot and potential collection point for PCE, which is a DNAPL. He says they should have drilled at MW-2 until till was reached, as in the other two wells.

Peter said that, based on the soil descriptions and blow counts during drilling, he suspects till was encountered in the boring but that the hydro. neglected to describe it as till in this boring. We indicated that Ecology would require at least a groundwater sample be collected from MW-2 (this was never sampled because the well has been dry) if not additional drilling to reach the till layer and assure there is no DNAPL pool of concern.

There is a Phase I put together by Seacor that gives a good site history. Peter said he will send a copy. He provided copies of Converse Consultants, RZA and Geotech Consultants reports that were previously prepared for the site.

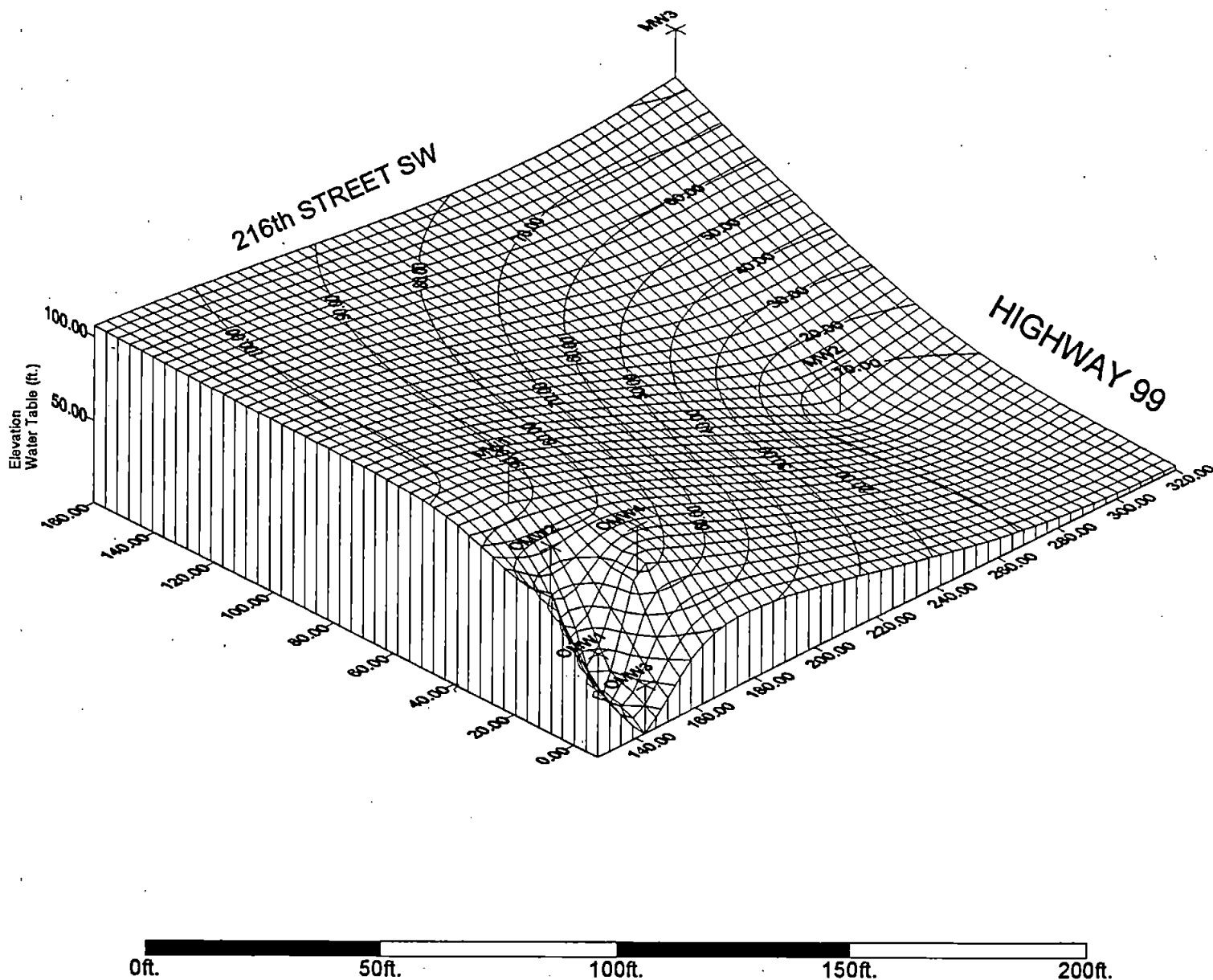
Elaine mentioned that the drain field is also a concern, and Nnamdi requested that below-ground sewer and utility locations be indicated on the figure.

Peter asked about taking a risk-based approach to establish cleanup levels for the site. I referred him to Craig McCormack, and suggested we do a conference call.

Decisions Reached:

(Please Attach Meeting Notes and Any Reports to this Memo)

KRUGER WATER TABLE ELEVATION: MARCH 28, 1994



Department of Ecology
Toxics Cleanup Program

Kruger Clinic: IRAP

FIGURE: 1

DRAWN: NM

Draft/Final
*

Date: November 18, 1994

APPENDIX F



STATE OF WASHINGTON

DEPARTMENT OF ECOLOGY

Northwest Regional Office, 3190 - 160th Ave S.E. • Bellevue, Washington 98008-5452 • (206) 649-7000
January 5, 1995

Mr. Bill Neal, Attorney
Property Management NW
Group Clinic R&D Trust
P O BOX 3579
Redmond, WA. 98073-3579

RE: Independent Remedial Action for the Kruger Clinic Site.

Dear Sir:

Thank you for submitting the results of your independent remedial action for Department of Ecology (Ecology) review. Ecology appreciates your initiative in pursuing this administrative option under the Model Toxics Control Act.

Ecology's Toxics Cleanup Program has reviewed the following documents addressing the Kruger Clinic, and the adjacent Stevens Memorial Hospital sites located in the residential and commercial developments at 21600 Highway 99, Edmonds, Snohomish County, Washington:

1. Independent Remedial Action Report, October 14, 1994, by SEACOR, Job No. 00502-001-02.
2. Additional Subsurface Investigation, March 24, 1993, by SEACOR, Job No. 00502-001-02.
3. Phase II Subsurface Investigation, February 5, 1994, by SEACOR, Job No. 00502-001-02.
4. Phase I Environmental Assessment, December 21, 1992, by SEACOR, Job No. 00502-001-01.
5. Table 1. Groundwater Elevation Measured, March 28, 1994, by SEACOR, Job No. 00502-001-02.

Based on the review of these reports, Ecology has determined that additional information is necessary prior to making a final determination regarding the Kruger Clinic site.

Ecology's main concerns are as follows:

- o Site groundwater is degraded based on data.
- o Kruger has not substantiated offsite sources of contamination.

Mr. Bill Neal, Attorney
IRAP: KRUGER CLINIC
January 5, 1995

In order to assist you in preparing for re-application review through the Independent Remedial Action Program (IRAP) should you decide to do so, we have provided a thorough documentation of the shortcomings with the remedial action report submitted by SEACOR. These are summarized as follows:

- o Table 1 of the 3/28/94 report, for the Kruger Clinic site that addresses depth to groundwater, and depth to bottom of site wells does not corroborate the boring site well logs presented in Appendix B, of the IRAP Report, 10/14/94, for the Kruger Clinic.
- o Soil boring logs in the IRAP Report of 10/14/94 for the Kruger Clinic do not corroborate The Phase II Subsurface Investigation Report of 2/5/94, for the Kruger Clinic.
- o Boring logs for the adjacent Stevens Memorial Hospital site are needed to correlate the Kruger site stratigraphy.
- o This report addresses two separately owned sites: The Kruger Clinic site, and the Stevens Memorial Hospital site. The sites are adjacent to each other and were both used as a single automobile wrecking yard for at least 25 years prior to construction of the existing hospital and medical clinic.

Based on this historical information, SEACOR's conclusion that the source of the Tetrachloroethene (PCE), noted on the Kruger Clinic site, originated from the Stevens Hospital property is inconclusive without additional supporting evidence.

- o Groundwater flow beneath the site:
 - a. Provide a groundwater flow map showing the direction of flow beneath the site, and on-site and off-site migration of the following hazardous substances detected on site; PCE, Lead, and Chromium (also show the same for the adjacent Stevens Memorial Hospital site).
- o Aquifer(s) type and geologic relationship (cross-section):
 - a. Provide a hydrogeologic cross-section beneath the site (include groundwater relationship).
 - b. Show geologic relationships, contacts, and the stratigraphic correlation beneath the site and the adjacent Stevens Memorial Hospital site.

Mr. Bill Neal, Attorney
IRAP: KRUGER CLINIC
January 5, 1995

- c. Show depth to perched watertable, if any (the wells that go dry; MW-2, OMW-1, OMW-3).
 - d. Show the depth to the shallow aquifer, if present.
 - e. Show the depths to multiple aquifers, if present.
 - f. Show the hydraulic continuity or lack of, between the identified aquifer(s).
 - g. Identify aquifer type (or combination of aquifer types), as watertable, perched, confined or semi-confined.
- o Groundwater quality beneath the site:
 - a. What is the groundwater quality southeast of the site around MW-2? Hall Creek, a potentially sensitive receptor is located 700 feet southeast of the site.
 - b. Water quality around MW-1 is degraded with PCE at 182 ppb, and Chromium at 250 ppb. MTCA Method A cleanup levels for these known carcinogens are 5 ppb and 50 ppb respectively.
 - c. Water quality around MW-3 is degraded with Lead at 210 ppb, and Chromium at 970 ppb. MTCA Method A cleanup levels for Lead, a known carcinogen is 5 ppb.
- o Nature and Extent of contamination:
 - a. Graphically show the lateral, and the vertical extent of contamination beneath the site, and on-site and off-site impact, if any.
 - b. Confirm the source(s) of the hazardous substances; PCE, Lead, and Chromium contamination beneath the site.
- o Migratory routes:
 - a. Identify potential secondary migratory routes for the hazardous substances beneath the site (abandoned tunnels, plumbing systems, utility corridors, buried stream channels, sewer lines, etc.)
- o Environmental and human threats posed by the hazardous substances beneath the site:

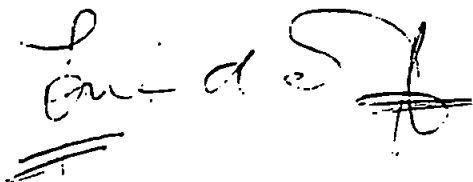
Mr. Bill Neal, Attorney
IRAP: KRUGER CLINIC
January 5, 1995

- a. Identify pathways, actual and potential human and environmental receptors (e.g., inhalation of PCE fumes and vapors through secondary conduits like sewer lines, pipings, and other utilities that can potentially reach office buildings, basements, etc.: Dissolved PCE and metals that can potentially migrate to Hall Creek located about 700 feet southeast of the site: and the ecosystem the Creek supports, e.g., ingestion of fish and critters. Dermal contact from recreational activities like swimming, etc.)
- o Discuss site remedial alternatives, and graphically show former wetland areas, if any.

The review of this independent remedial action has raised a number of concerns that need to be addressed before a final site determination can be made. Ecology recommends that all of the requested information be compiled and summarized in one report prior to re-applying for report review through the IRAP. All diagrams requested for the site should also be presented in one volume.

If you have any questions relating to this letter, please feel free to contact me at (206) 649-7112.

Sincerely,



Nnamdi Madakor
Site Manager, Hydrogeologist III
Toxics Cleanup Program

cc: Peter Jewett, SEACOR

NM:nm