

**INDEPENDENT REMEDIAL ACTION PROGRAM (IRAP)
REPORT OF
PHASE III INVESTIGATION AND REMEDIATION
ELLIOTT (GOODYEAR) TIRE CENTER
1 EAST LINCOLN STREET
YAKIMA, WASHINGTON**

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EXECUTIVE SUMMARY

Maxim Technologies, Inc. completed an Independent Remedial Action Program (IRAP) under the Model Toxics Control Act at the Elliott (Goodyear) Tire Center in Yakima, Washington, a property owned by Mr. Lovering. Investigations by a previous consultant had discovered tetrachloroethylene (PCE) in a dry well at this site resulting in the naming of Mr. Lovering as a Potential Liable Party in the Yakima Railroad Area, an area of known PCE contamination. The IRAP included remedial activities and sampling of soils and groundwater. This report presents the results of all activities conducted under this IRAP.

Soil and groundwater at the Elliott (Goodyear) Tire Center were impacted with elevated concentrations of petroleum hydrocarbons. Minor tetrachloroethene (PCE) contamination was detected in the soil. Maxim Technologies, Inc., (Maxim) identified the contamination sources and successfully remediated the site soil pursuant to the IRAP. The contamination sources were identified through an extensive soil sampling plan both in the interior and the exterior of the Tire Center. The exterior was sampled by excavating numerous test pits and the interior was sampled through coreholes drilled beneath the concrete slab. Except for petroleum contamination left beneath the interior, all contamination sources were successfully removed. Groundwater will be remediated via natural attenuation processes. A two year quarterly groundwater sampling program including eight sampling events has been implemented for the site.

Elliott (Goodyear) Tire Center Findings and Remedial Actions are summarized below:

- The Elliott (Goodyear) Tire Center does not appear to be a contributing source to the tetrachloroethene (PCE) groundwater problem in the Yakima Railroad Area. Five groundwater sampling rounds were completed to date. The maximum concentrations of PCE measured in groundwater samples collected from these sampling rounds was 1 ppb, well below U.S EPA drinking water standards of 5 ppb. The PCE concentrations of 1 ppb was reported in one of the five sampling rounds and was measured in all the monitoring wells at the site. The uniform concentrations of PCE in all of the groundwater monitoring wells (both upgradient and downgradient) during that one sampling event indicates an off-site source for the PCE in groundwater.
- Of approximately 90 soil samples collected at the site and analyzed for PCE, only two small isolated areas in the interior bay reported low but detectable concentrations of PCE. The PCE contamination found was successfully removed. One additional sludge sample from the dry well (sump) contained PCE. The sump sludge and sump were also removed. Results from all of the 54 soil samples collected from beneath the parking lot and around the building reported PCE concentrations below detection limits (ND).

- Two abandoned gasoline underground storage tanks (USTs), discovered by Maxim while sampling, were excavated and removed. One hundred and eighty tons of petroleum contaminated soil (PCS) were transported to Anderson Rock (Anderson's) for landfarm remediation subsequent to approval by the Yakima County Health Department. Two-hundred and thirty one tons of clean material purchased from Central Pre-Mix were used to backfill the excavation.
- Two contaminated dry wells found at the site and adjacent soils were excavated and removed. Three hundred eight tons of PCS were transported to Anderson's. The PCE and petroleum contaminated sludge from the dry wells, along with the PCE from the interior, were contained in drums at the site, and transported for disposal by Phillips Environmental. A new dry well and catch basin were installed and 344 tons of clean material purchased from Central Pre-Mix were used to backfill the excavation.
- Petroleum contamination is present in the soil beneath the concrete floor in the bay area but is limited to the top 2 ft. This contaminated soil was not removed. A Restrictive Covenant was prepared and the PCS will be remediated in the future when the building will be demolished or replaced.
- Five rounds of groundwater sampling were completed. Petroleum contamination is present in one of the three groundwater monitoring wells adjacent to the old gas station and the dry wells. Groundwater will be assessed for PCE and petroleum hydrocarbon concentrations on a quarterly basis for two years in accordance with IRAP Guidelines. This assessment will include three additional sampling rounds.

The successful remediation of soil at the Elliott Tire Center should be followed by implementing corrective measures to prevent accidental spills into the newly installed dry well and onto the floors. Adsorbents presently installed in the new dry well should be regularly maintained and replaced to minimize the potential for new releases of contaminants to groundwater.

1.0 INTRODUCTION

Prior to selling the Elliott (Goodyear) Tire Center, Mr. Lovering, the property owner, requested Environmental Associates, Inc., to conduct Phase I and II Environmental Site Assessments (ESA) of the facility. These assessments revealed the presence of tetrachloroethene (PCE) and petroleum hydrocarbons at the site. Environmental Associates, Inc., found PCE in a single sludge sample collected from a dry well (sump) during the Phase II ESA. Because of the PCE contamination, Mr. Lovering was named by Ecology a Potential Liable Party (PLP) in the Yakima Railroad Area (YRRA).

Subsequently, Mr. Lovering negotiated with Ecology an Independent Remedial Action Program (IRAP) under the Model Toxics Control Act (MTCA). The IRAP consisted of a sampling and analysis plan (SAP) in accordance with IRAP guidelines. The SAP was implemented concurrently with remediation and groundwater monitoring activities at the site. Groundwater monitoring commenced during February 1995 and will continue for two years in accordance with the IRAP guidelines.

1.1 SITE HISTORY

A review of historical sources including Polk Directories and Sanborn Fire Insurance Maps indicates that service stations and residences were located on the property presently occupied by the Elliott Tire Center from 1921 to 1961. The Lovering's acquired the property in 1961. By 1968, the tire service center was constructed. A warehouse, presently occupied by Irwin Research was erected during 1972.

Environmental Associates, Inc. conducted the Phase I and Phase II environmental investigations during 1994 and 1995. The PCE concentration of 2.3 milligrams per kilogram (mg/kg) detected in the dry well sludge sample collected during the Phase II investigation exceeded the MTCA Method B/protective of groundwater criterion of 0.08 mg/kg (Environmental Associates, 1995). However, because soil samples collected during the Phase II investigation were not analyzed for PCE, the extent of the contamination at the site was unknown. In addition to PCE, petroleum hydrocarbon contamination, including gasoline and diesel contamination, was detected in soil and groundwater samples also collected during the Phase II investigation. The petroleum contamination in soil and groundwater appeared to be localized to an area of the site where historic gas/oil sales activities had been conducted. At the time of the Phase I ESA, a solvent sink for parts cleaning was present at the Elliott Tire Center. According to the Manager Mr. Clark Smith, Safety Kleen Corporation regularly pumps and replaces the solvents used. Waste oil, anti-freeze, and oil filters are regularly collected by the APEX Company for disposal/recycling.

1.2 SITE DESCRIPTION

The site occupies approximately a one-half city block at the northeast corner of East Lincoln Avenue and North Front Street, in Yakima, Washington (Figure 1). The site is bounded on the north by East "D" Street, on the west by North Front Street, on the south by East Lincoln Avenue, and on the east by an alleyway. An approximate legal description for the site is Lots 17 through 32, Block 7, Town of North Yakima, now Yakima, located within the northwest quarter of the northwest quarter of section 19, and the northeast quarter of the northeast quarter of Section 24, Township 13 north, Range 18 east of the Willamette Meridian, Yakima County, Washington. Based on the United States Geological Survey (USGS) 7.5 minute series topographic map of the area (Yakima West Quadrangle), the latitude is 46 degrees 35 minutes 57 seconds north and the longitude is 120 degrees 30 minutes 5 seconds west.

The Elliott Tire Service Center is a 19,200 square feet retail store and storage area constructed of concrete. The adjacent warehouse occupied by Irwin Research is a concrete tilt-up structure with a total footprint area of approximately 11,300 square feet located on the northern portion of the site.

Utilities at the site include water, sanitary sewer, electrical, and natural gas. Potable water supplies and sanitary sewer services are provided by the City of Yakima. A water line is located west of the site along Front Street. A sewer line is located east of the site beneath the alley. Natural gas services are provided by Cascade Natural Gas. Electricity and electrical utilities are provided by Pacific Power and Light.

1.3 AREA GEOLOGY

The city of Yakima is located in the western part of the Columbia Basin within the Yakima Fold Belt (YFB). The YFB is a series of anticlinal ridges and synclinal valleys in the western and central parts of the Basin. Structural trends range from northwest to northeast but are predominantly east-west. Two predominant anticlines, Umtanum and Yakima ridges, extend across the entire fold belt. Most of the anticlinal ridges are associated with faults. Although the faults are rarely exposed, nearly all the steep forelimbs of the asymmetrical anticlines are faulted.

Most of the rocks exposed in the western part of the Columbia Basin are the Columbia River Basalt Group (CRBG). The CRBG is Miocene in age and covers approximately 164,000 square km of eastern Washington Oregon and western Idaho with tholeiitic flood basalt flows. Intercalated with, and in some places overlying the CRBG, are sedimentary rocks of the Ellensburg Formation. Additional younger sedimentary rocks (Miocene-Pleistocene) include the Ringold Formation, Snipes Mountain conglomerate,

Thorp Gravel, the Hanford Formation (cataclysmic Pleistocene flood deposits), and other localized strata. Most post-CRBG sediments are confined to the synclinal valleys of the YFB. The sedimentary record is incomplete but is the direct reflection of the structural development of the Columbia Basin. The Thorp Gravel river terrace deposits record the post- CRBG history of the upper Yakima River. Except for local deposits (the "Plio-Pleistocene unit" and "early Palouse soil"), there is a hiatus in the stratigraphic record between the end of the Ringold (3.4 Ma) and Thorp Gravel (approx 3.7 Ma) deposition, and the Pleistocene (1.6 Ma) deposits. Pleistocene to Holocene sediments overlying the CRBG include flood gravels and slackwater sediments of the Hanford Formation, terrace gravels of the Columbia, Snake, and Yakima Rivers. In the YRRA the underlying localized strata are the Yakima Gravels. These gravels directly overly the Ellensburg Formation. The Yakima Gravels are locally derived open framework alluvial and colluvial deposits and range in thickness between 0 and 100 ft. The gravels are a laterally discontinues strata common on basin margins and uplifted ridges (Reidel and others, 1994).

1.4 SITE SOIL AND TOPOGRAPHY

The predominant soil type at the site has been classified as Naches Loam by the United States Department of Agriculture. This soil formed in old alluvium on stream terraces and in valleys (USDA, 1985). Drilling logs of monitoring wells installed during the Phase II investigation (Environmental Associates, 1995) indicate that the soil beneath the site consists of two distinct units, an upper fine-grained to impervious unit to a depth of approximately 5 feet below ground surface and a lower, porous gravelly unit. The upper unit consists of silty clay and is probably a slack water deposit within the Yakima Gravels alluvial system. Drilling logs of the monitoring wells are contained in Appendix A.

Topography at the site is generally flat. Elevation at the site is approximately 1060 to 1080 feet above mean sea level. The average annual precipitation of about 7 to 9 inches supports various grasses (USDA, 1985).

1.5 SURFACE AND GROUNDWATER HYDROLOGY

The nearest surface water is the southeasterly flowing Yakima River. The Yakima River is located about 1.8 miles east of the site.

Results of previous investigations and monitoring at the site indicate that groundwater occurs at depths of 10 to 20 feet below ground surface and flows toward the east/southeast (Environmental Associates, 1995). These depths and flow direction are consistent with the findings of other environmental investigations completed

within the YRRA (Roeder, 1995). The Yakima irrigation system, when opened annually during the spring and summer months is known to influence groundwater depth and flow directions in the area.

1.6 PROJECT OBJECTIVES AND REMEDIATION ALTERNATIVES

Three (3) adverse environmental conditions resulted in the IRAP:

- (1) Insufficient subsurface characterization: Although a Sandborn Fire Map depicted the presence of a gas station, magnetic and ground penetrating radar surveys conducted by Environmental Associates, Inc., did not detect the USTs. Soil and groundwater samples collected from borings and monitoring wells indicated that both the soil and groundwater were contaminated with petroleum hydrocarbons. However, the subsurface characterization did not find the contamination sources for the site. The soil borings, well locations, and analytical results from Environmental Associates ESAs are presented in Appendix A.
- (2) Presence of regulated materials at the site dry well: PCE, used as a de-greaser, was found in the parking lot dry well. Subsequent to detection of the PCE, no additional soil sampling was performed to confirm the presence or absence of PCE in the site soil. Although there is no historical evidence for the use of PCE at the site, prior disposal practices are not known.
- (3) Location of the site immediately north of the YRRA: The YRRA is a mile-wide corridor extending from Lincoln Avenue on the north to Union Gap in southeastern Yakima. Groundwater within this area has been contaminated with PCE.

Maxim personnel developed objectives for the Phase III investigation and remediation project consistent with the IRAP guidelines and with consideration of the aforementioned environmental conditions. These objectives included the following:

- Investigate the site for the presence of PCE; and,
- Remediate soil and groundwater so that closing of a real estate transaction concerning this property will be possible.

Closing has been delayed due to the environmental condition of the property. Closing will be delayed until Ecology issues a *No Further Action (NFA)* (or equivalent) letter with regard to the environmental condition of the subject real premises. To obtain a

NFA letter Ecology requires "source control" or remediation of the impacted soil at the site and evaluation of groundwater quality through a monitoring program.

Maxim personnel evaluated remediation alternatives consistent with MTCA criteria (WAC 173-340-360(4)(a)) which include the following:

- (i) Overall protectiveness of human health and the environment;
- (ii) Long term effectiveness;
- (iii) Short term effectiveness;
- (iv) Permanent reduction of toxicity, mobility and volume;
- (v) Ability to implement;
- (vi) Cleanup costs; and,
- (vii) Community concerns.

These criteria, along with the existing and proposed site use, were considered during evaluation of remediation alternatives. Alternatives evaluated by Maxim personnel included the following:

1. Excavation of contaminated soil and off-site disposal (landfill); and,
2. Solid phase, in-situ bioremediation.

The treatment methods involving bioremediation, were considered less feasible for the project conditions. First, soil removal options with treatment or disposal are preferable over in-situ treatment methods where business operations at the site will be disrupted during installation. Second, the time required to complete the alternative in-situ methods did not meet the project timetable. Therefore, the remediation method of excavation and disposal was chosen.

2.0 METHODS

Maxim developed a soil and groundwater Sampling Analysis Plan (SAP) to meet requirements of the IRAP and to guide the evaluation of soil and groundwater contamination suspected to be present beneath the Elliott Tire Center. The SAP consisted of sampling both the exterior and interior of the facility and included the following:

- Test Pit Investigation. 54 soil samples were collected from test pits as follows: 48 soil samples from 15 test pits in the parking lot area were collected at depths of 3, 6, and 10 ft below surface. Six exterior soils samples around the building were also collected at 3 ft below the surface.
- Dry Wells Investigation. 11 sludge/soil samples were collected from two dry wells.
- Interior Bay Investigation. 24 interior soil samples were collected at various depths during three sampling events inside the tire and automobile repair shop. Sampling was biased towards areas with likely contamination, adjacent hydraulic automotive equipment (hoists and jacks).
- Groundwater Investigation. 5 groundwater sampling events were conducted in February 1995, August 1995, November 1995, February 1996 and August 1996. The February 1995 sampling round was conducted by Environmental Associates. The remaining rounds were conducted by Maxim. The samples were analyzed for VOCs, gasoline diesel and heavy oil.

Maxim's project manager provided oversight of investigation and remediation activities at the site during August through October 1995. Remedial actions were conducted concurrent with the soil sampling activities. The following sections describe our methods used to complete these investigation and remediation activities.

2.1 TEST PIT INVESTIGATION AND SOIL REMOVAL

A Maxim field scientist supervised the excavation of test pits and conducted associated soil sampling at the Elliott Tire Center during August 1995. Tri-Valley Construction excavated test pits using a backhoe in the parking lot and around the perimeter of the building. Sampling began in the parking lot along Front Street with test pits excavated every 35 feet. Subsequent to the parking lot investigation, sampling continued around the building with test pits excavated every 70 feet. Test pit locations are presented in Figures 2 and 3 and logs of the test pits are contained

in Appendix B.

Test pits TP-1 through TP-15 were sampled at the parking lot at 3, 6, and 10 feet below ground surface or until groundwater contact was made at about 11 feet below surface (Figure 4). Test pits TP-3 and TP-12 were located above borings B-3 and B-2 respectively. Sampling of borings B-3 and B-2 by Environmental Associates in a prior investigation detected petroleum contamination. A location map of Environmental Associates' Site Investigation is located in Appendix A. The purpose of excavating test pits TP-3 and TP-12 in these locations was to confirm the presence of petroleum contamination. Test pits TP-16 through TP-20, located around the perimeter of the building (Figure 2), were sampled at 3 feet below surface. Transglobal Environmental Services (TEG) analyzed the soil samples collected from the test pits and hand borings on-site for volatile organic compounds (VOCs) using EPA Method 8010/8020, Total Petroleum Hydrocarbons (TPH) as gasoline using EPA Method WTPH-G, TPH as diesel using EPA Method WTPH-D, and TPH as heavy oil using EPA Method WTPH-D/extended.

Excavation of contaminated soil was completed concurrently with the test pit investigation. The on-site mobile laboratory was used to guide the excavation and segregate the excavated soils. The on-site mobile laboratory enabled extensive sampling to ensure and confirm proper site remediation. The areas of the site which were excavated included:

- (1) Soil around and underlying the two gasoline underground storage tanks (USTs) in the parking lot (Figure 3); and,
- (2) The soil around and underlying the two dry wells (Figure 3).

2.2 UNDERGROUND STORAGE TANK INVESTIGATION

During test pit sampling activities, Maxim discovered two 1000 gallon gasoline underground storage tanks (USTs) in the parking lot. The USTs were apparently filled with sand and abandoned in place by the prior gas station owners. The inspection of the removed tanks did not reveal any holes. The USTs were removed during August 1995, and 180 tons of petroleum contaminated soil were transported Anderson's Landfill in Yakima for remediation. An associated 231 tons of clean backfill were purchased (by the contractor) from Central Pre-Mix. The site assessment and UST decommissioning services were performed by Cayuse Environmental. The UST report is included in Appendix G, disposal and backfill documents are presented in Appendix D, and the approximate limits of the soil excavation are shown on Figures 3 and 4.

2.3 DRY WELLS (SUMPS) SAMPLING AND CLEANUP

Two dry wells were present on the parking lot of the Elliott Tire Center. The first well was a newer dry well which collected runoff from the parking lot. The second, older well was covered with concrete and asphalt. This older well was apparently connected to the roof drain. The roof drainpipe was plugged resulting in occasional flooding of the parking lot during heavy rain.

Test pits TP-13 and TP-14 (Figure 4) were excavated adjacent to the dry wells to investigate potential impacts to soil and groundwater. In addition, the sludge in both dry wells was visually examined and found to be very moist, dark, and "fatty looking" with a strong odor of petroleum hydrocarbons. Both wells appeared contaminated with petroleum hydrocarbons. On-site analysis of sludge samples collected from the two dry wells verified the presence of petroleum hydrocarbons and also indicated the presence of PCE at concentrations of 2.0 mg/kg in the newer dry well.

The dry wells and surrounding soil were excavated and removed (Figures 3 and 4). The depth of excavation was directly above the groundwater contact at 11 feet below ground surface. The dry wells sludge was placed in two drums for appropriate disposal with Phillips Environmental. Three-hundred and eight (308) tons of petroleum contaminated soil from the dry well areas were excavated and transported to Anderson's for remediation. An associated 344 tons of clean backfill material were purchased (by the contractor) from Central Pre-Mix to backfill the excavation. Documentation of PCS disposal and clean backfill are contained in Appendix D. A new dry well and a catch basin were subsequently installed to replace the contaminated dry wells. The dry well and catch basin design was approved by City of Yakima Engineering Department. A schematic diagram of the new dry well and catch basin is presented in Appendix H.

2.4 INTERIOR BAY INVESTIGATION

Unlike the parking lot area where soil sampling was conducted using a 35 ft grid, soil samples collected beneath the concrete floor in the bay area were biased. The locations of the soil borings in the interior bay area are shown on Figure 5. Samples were collected adjacent to each jack and hoist where a release was likely to occur (Figure 5). There were three rounds of sampling beneath the concrete floor. Prior to each round, holes were cut in the concrete floor. In the first round, five coreholes were drilled. Soil samples were collected with a post hole digger from 10 inch diameter holes at 1.5 feet below the surface. Subsequent to the discovery of PCE in

two coreholes, CH-4 and CH-5, a second round of sampling was planned to better delineate the PCE. For this round a "StrataProbe" coring device was used. The StrataProbe can penetrate to deeper depths than a post hole digger. Seven 2 inch coreholes were sampled with the StrataProbe at depths ranging from 2 to 6 feet below surface.

Following these two rounds of sampling, the PCE in the soil was delineated. PCE contamination was found to be limited to the immediate area of coreholes CH-4 and CH-5. Approximately one cubic yard of contaminated soil was excavated from these areas and, in the third round of sampling, confirmational samples were collected subsequent to this removal. In this removal effort, two new 10 inch coreholes were cut overlapping both sides of the original coreholes CH-4 and CH-5. The concrete floor was then removed from all 3 coreholes, and PCE contaminated soil was excavated with a post hole digger. Subsequent to soil removal, confirmational soil samples were collected 2 ft below the concrete slab. In addition to PCE, the soil beneath the slab was found to be contaminated with petroleum hydrocarbons.

2.5 GROUNDWATER INVESTIGATION

Three groundwater monitoring wells (MW-1, MW-2 and MW-3), one located hydraulically up-gradient and two located hydraulically down-gradient, were installed at the site during February 1995 as part of the Phase II ESA conducted by Environmental Associates, Inc. (Figure 2). The location of the wells was based on petroleum contamination found in soil borings drilled during an earlier phase of the ESA. The drilling contractor, R&R drilling, installed the wells using an ODEX air rotary drill rig. The wells were cased using two inch diameter flush-threaded PVC, and completed from 10 to 25 ft below surface using factory slotted PVC screen (Environmental Associates, 1995). The wells were completed at the surface by setting a flush mount protective cover in concrete around the well casing (Appendix A).

Five rounds of groundwater sampling were completed during February 1995 (by Environmental Associates), August 1995, November 1995, February 1996 and August 1996 (by Maxim). Maxim personnel measured the static water level in the wells using a decontaminated electric well probe during each event. An adequate volume of groundwater was then removed from each well to ensure that the water being sampled was representative of the formation water. The volume of water purged prior to sampling was equivalent to three well bore volumes, or less if temperature, pH, and specific conductance measurements indicated a steady state condition had been achieved. Groundwater samples were collected using disposable

bailers or a decontaminated stainless steel bailer. The water samples were transferred to 40 milliliter vials and 1 liter amber bottles and preserved with hydrochloric acid. The samples were placed in an ice-filled cooler and hand delivered or shipped to a laboratory for analysis. Groundwater sampling field forms are contained in Appendix E. On-Site Environmental, Inc. laboratory analyzed the groundwater samples collected by Environmental Associates during February 1995.

Samples collected from all three wells were analyzed for TPH as gasoline and TPH as diesel. Additionally, during the February 1995 sampling round, only the sample collected from MW-1, the down-gradient well, was analyzed for VOCs according to EPA Method 8240. The full GC/MS VOCs scan used in EPA Method 8240 analyzes a wide range of potential contaminants in addition to PCE with a PCE reporting limit of 10 parts per billion (ppb). VOCs analysis of samples collected during later sampling events was conducted according to EPA method 8010/8020 which analyzes fewer parameters with lower reporting limits (PCE at 1 ppb). Maxim used TEG for all sampling rounds. Groundwater samples collected from all three wells were analyzed for VOCs using EPA Method 8010/8020, and petroleum hydrocarbons including TPH as gasoline using EPA Method WTPH-G, TPH as diesel using EPA Method WTPH-D, and heavy oil using EPA Method WTPH-D/D extended. In each sampling event, a duplicate groundwater sample was provided to the analytical laboratory for the purpose of quality assurance/quality control.

hydrocarbons. The PCE found in the sump is probably a result of an accidental discharge associated with runoff or the bay area.

3.3 NEW DRY WELL (SUMP) AND CATCH BASIN INSTALLATION

A new dry well (sump) installed in the parking lot replacing the two contaminated sumps was designed to adequately drain the parking lot and provide for better protection of groundwater than the previously installed sumps. The sump design and cross-section are presented in Appendix H. Because sumps are "open holes in the ground", they serve as a major conduits for contaminants entering the shallow aquifer. The City of Yakima sewer system is at capacity and the City engineer will not permit the connection of parking lot sumps to the City sewer system. Because the old sumps at the Elliott Tire Center were both contaminated with sludge and served as conduits for groundwater contamination, we tried to design a sump that will minimize any future contamination from entering the groundwater.

The sump system includes both a sump and a catch basin located approximately 80 feet southwest of the sump. The sump includes the following: a standard 48 inch diameter round culvert 10 feet deep set on a concrete base; a 25 foot diameter drain field containing 6518 cubic feet of 1 1/4 and 3/4 inch diameter washed rock to effectively drain the building roof (19,200 square feet) and the parking lot (12,100 square feet); perforations in the concrete culvert to allow water to flow out; 80 feet of PVC pipe connecting the sump and catch basin; and a 24 inch manhole frame and lid. In order to have a superior sump to the previous ones, the following steps were taken:

- Unlike the bottomless design of the old sumps, the new sump installed has a 6 inch thick concrete base.
- The base of the sump and the 25 foot perimeter of the drain field were underlain with a one-piece drainage fabric membrane. The drainage fabric membrane serves to prevent fines and other particulates from entering the groundwater.
- Both the sump and catch basin contain absorbent pillows to absorb accidental spills. The pillows are maintained and replaced on a regular basis.

The sump design was reviewed and approved by the City of Yakima Civil Engineering Division.

3.4 INTERIOR BAY ANALYTICAL RESULTS

PCE. Analytical results of soil samples collected from the bay area are presented in Table 5 and are also shown on Figure 5. Twenty four (24) soil samples were analyzed for PCE. PCE contamination was found in two samples CH-4 and CH-5, at concentrations of 0.29 mg/kg and 0.12 mg/kg, respectively. Coreholes CH-4 and CH-5 were located adjacent to the two automotive hydraulic jacks (Figure 5). The PCE was localized to these two areas and was limited to the upper 1.5 feet. Following the PCE discovery, four additional coreholes were drilled using the Strataprobe to further delineate the extent of PCE contamination. Eleven soil samples were collected around these two contaminated areas, from core holes GYI-1 through GYI-4 at depths ranging between 2 feet and 6 feet below surface. PCE concentrations measured in all 11 of the samples collected with the Strataprobe were below the method detection limits (ND). Following excavation of PCE contaminated soil, confirmational sampling reported PCE concentrations below detection limits near CH-4, and at 0.05 mg/kg near CH-5 which is below the MTCA Method B cleanup level.

The low PCE concentrations, the limited areal extent of contamination, and the shallow depth of contamination are probably attributable to the non-routine use of solvents at this site, the lack of floor drains and/or sumps in the bay area, and the presence of a relatively impermeable soil beneath the site. These factors have likely limited the lateral and downward migration of PCE contamination.

Petroleum Hydrocarbons. Petroleum contamination is present in the first 2 feet below the concrete surface in the bay area (Figure 5). TPH as diesel and heavy oil contamination ranges from 182 mg/kg to 3,230 mg/kg at 1.5 feet below the surface, and from 397 mg/kg to 1,230 mg/kg at 2 feet below surface. A petroleum hydrocarbon concentration of 36 mg/kg was measured at 5 feet below surface which is well below the MTCA Method A cleanup level of 200 mg/kg. These results indicate that petroleum contamination decreases rapidly with depth.

Petroleum in the bay area is likely the result of the automotive repair and maintenance at the shop. Leaks from the hydraulic jacks were noted during our investigation. Other occasional hydraulic leaks were reported to us by the personnel at the site. Cracks in the concrete floors and pathways associated with subfloor hydraulic lines served as conduits for petroleum contamination to the subsurface. The relatively higher viscosity of the oil and the presence of clay beneath the site, probably limited the downward migration of petroleum contamination.

3.5 LITHOLOGY AND GROUNDWATER OCCURRENCE

The borings drilled during the Phase II ESA and tests pits completed during the Phase III investigation encountered two distinct hydrogeologic units consisting of an upper relatively impermeable unit and a lower permeable unit. The top unit from the surface to a depth of about 5 feet consisted mostly of clay, silty clay, and silty sand. This unit is in the vadose zone, above the seasonal high water table. The underlying unit, mostly in the saturated zone, consisted of silty, sandy gravels, with groundwater intercepted at approximately 18 feet below ground surface during February 1995. Monitoring well and test pit logs are presented in Appendices A and B, respectively. An East-West geologic cross-section is presented in Figure 6.

Static water level measurements were recorded in all four monitoring wells during each quarterly sampling event (Table 6). Groundwater contour maps of each event are presented in Figures 7 through 10 and a hydrograph of all three wells for the period 1995 through 1996 is presented in Figure 11. The groundwater contour map for the August 1996 quarterly sampling event is presented in Figure 12 (a draft).

The hydrographs indicate that the highest water levels occur during late summer and the lowest water levels occur during the winter. Groundwater flow directions shifted 45 degrees from an easterly direction during the winter months (February 1995 and 1996), to a east/southeast direction during the summer and fall (August and November 1995). Groundwater gradient is relatively steep during irrigation season in the summer months. During the fall and the winter months the groundwater gradient is relatively flat which is consistent with the lack of irrigation waters.

3.6 GROUNDWATER QUALITY

Groundwater quality analysis results for the four monitoring events conducted at the Elliott Tire Center are summarized in Table 6. Laboratory analysis reports of the water samples are contained in Appendix E.

Detectable levels of PCE ranging from 0.64 parts per billion (ppb) to 1 ppb were reported in water samples collected from monitoring wells MW-1, MW-2 and MW-3 only during water table lows occurring in the winter (February 1995 and 1996). During the summer and fall months (August and November 1995) when the water table is high, PCE concentrations were all below method detection limits. Evaluation of this data suggests that during water table lows there is less dilution from irrigation waters resulting in these minor detectable concentrations of PCE in the groundwater. The presence of PCE in samples collected during February 1996 from all three

monitoring wells, including well MW-3 located hydraulically upgradient, suggests that this site is not a source of PCE groundwater contamination.

Concentrations of petroleum hydrocarbons have not been detected in groundwater samples collected from monitoring wells MW-1 and MW-2 during any of the monitoring events completed at the facility (Table 6). However, TPH as gasoline concentration of 2,420 ppb and a Total BTEX concentration of 189 ppb were measured in the groundwater sample collected from monitoring well MW-3 during February 1996 (Table 7). These results are relatively consistent with the results of the February 1995 monitoring event. MW-3 is located adjacent to the dry well and the two former USTs. TPH as gasoline at concentrations of 200 ppb (well below cleanup levels of 1000 ppb) was also measured in the groundwater sample collected from MW-3 in the August 1996 monitoring event.

The detection of contaminant concentrations in water samples collected from MW-3 may have been in response to the disruption of contaminated soil beneath the site during the excavation and removal of the nearby USTs and dry well, the presence of residual gasoline contamination, or in response to seasonal fluctuations of the water table. Concentrations below detection limits found in the two down gradient wells suggest that groundwater gasoline contamination is localized to area proximal to MW-3. The findings of future quarterly monitoring events may help explain the cause of these detected concentrations during February 1995 and 1996, and August 1996 monitoring events.

4.0 SUMMARY OF FINDINGS

Extensive sampling at the Elliott (Goodyear) Tire Center identified three areas of petroleum contamination and a small source area of PCE contamination. Petroleum contamination was associated with two abandoned USTs, contaminated dry wells, and the leaking of petroleum hydrocarbons beneath the concrete floor slab in the bay area.

Petroleum contamination was detected in the groundwater in MW-3, adjacent to the two USTs and dry wells. Because groundwater in the two down-gradient monitoring wells was not contaminated with petroleum hydrocarbons, the impacted area is limited. Since "source control" activities have been successful, the groundwater will be remediated naturally over time.

PCE contamination found in the parking lot dry well sludge during Phase II ESA was confirmed by our investigation. The PCE, however, was present only in the sludge and was not present in the soil beneath the dry well. PCE was not present anywhere else in the parking lot or on the perimeter of the property. PCE concentrations of 1 ppb in groundwater, well below U.S EPA drinking water standards of 5 ppb, were reported from the February 1996, sampling event.

Minor PCE contamination was present in two small and isolated "hot spots" beneath the bay area concrete floor slab. The presence of clay soil beneath the site probably prevented the PCE from migrating from these areas into the groundwater. The PCE contamination found was probably a result of accidental spills. Subsequent to extensive soil sampling, PCE contaminated soil was excavated and removed. The volume of contaminated soil was less than one cubic yard. The low concentrations of PCE, the small volume, and its limited areal extent are attributed to the non-routine use of solvents at the site, the impermeable nature of the underlying soil, and the lack of interior floor drains and other man-made and natural conduits. The absence of PCE above 1 ppb in the groundwater and the minor PCE contamination found in the soil suggest that this site did not contribute to the PCE problem in the YRRA.

5.0 RECOMMENDATIONS

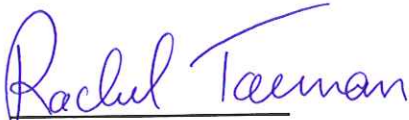
Contaminated soil and sludge associated with former USTs and dry wells were identified and removed from the Elliott Tire Center. In addition, two small areas of PCE contamination beneath the bay area in the interior of the building were also delineated and removed. Because of these activities, potential sources of groundwater contamination appear to have been successfully removed from the site. Based on these findings and conclusions we provide the following recommendations for future activities and considerations at the site:

- Although PCE beneath the bay area was successfully delineated and removed, petroleum contamination remains beneath the floor slab. We recommend leaving this contamination in place until the building is demolished. A *Restrictive Covenant* and *Institutional Controls* should be implemented to address this contamination.
- We recommend that the quarterly groundwater monitoring program currently in progress would fulfill the *Institutional Control* requirements for the property. The groundwater monitoring should continue for two years. The groundwater samples will be analyzed for the contaminants of concern including PCE and petroleum hydrocarbons.
- Corrective measures to prevent accidental spills into the newly installed dry well and onto floors should be implemented at the site. Absorbents presently installed in the new dry well should be regularly maintained and replaced to minimize the potential for new releases of contaminants to groundwater.

6.0 LIMITATIONS

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

Prepared and submitted by:



Rachel Tauman,
Yakima Office Manager

Reviewed by:

Bill Bucher
Helena Office Manager

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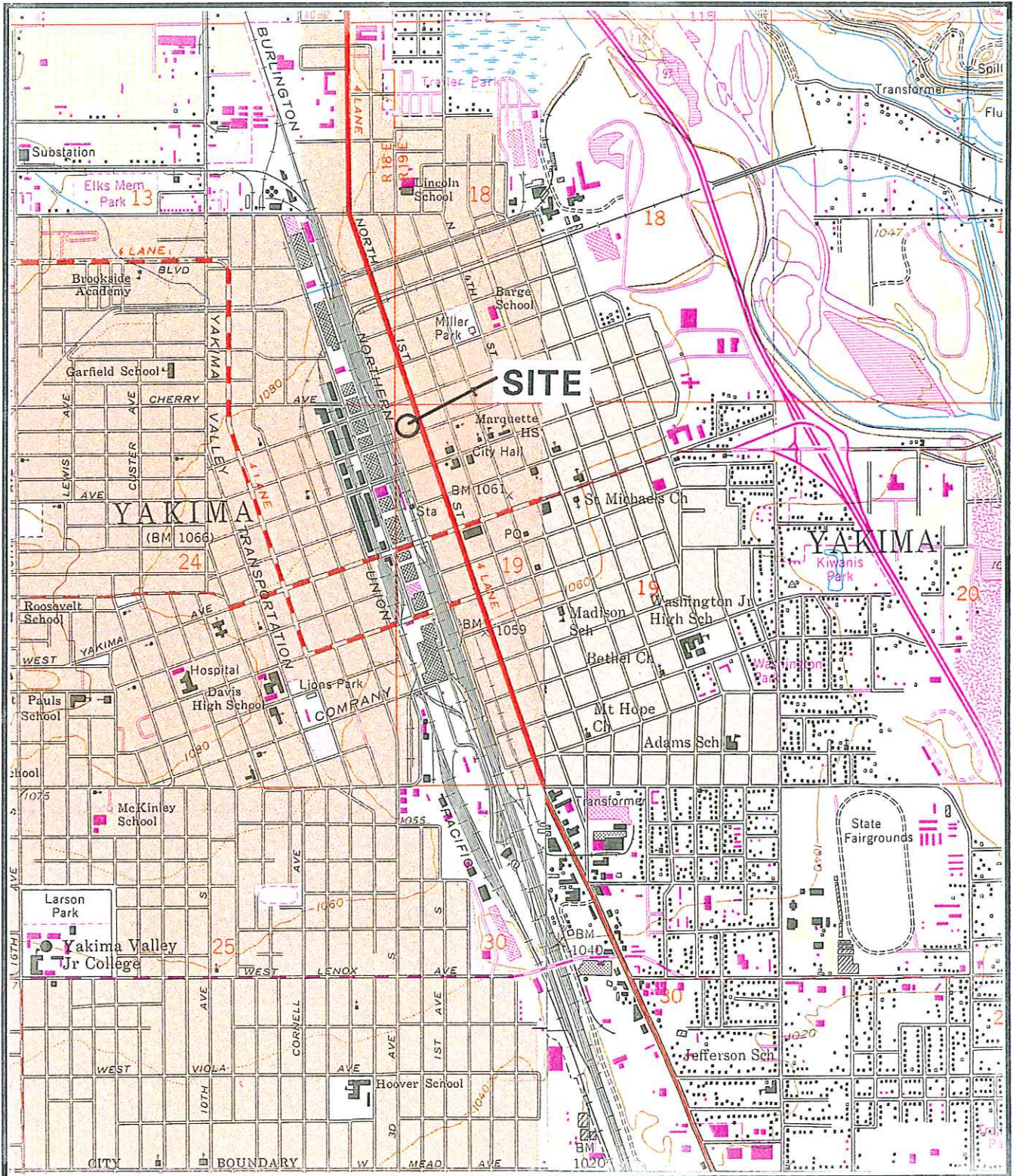
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FIGURES



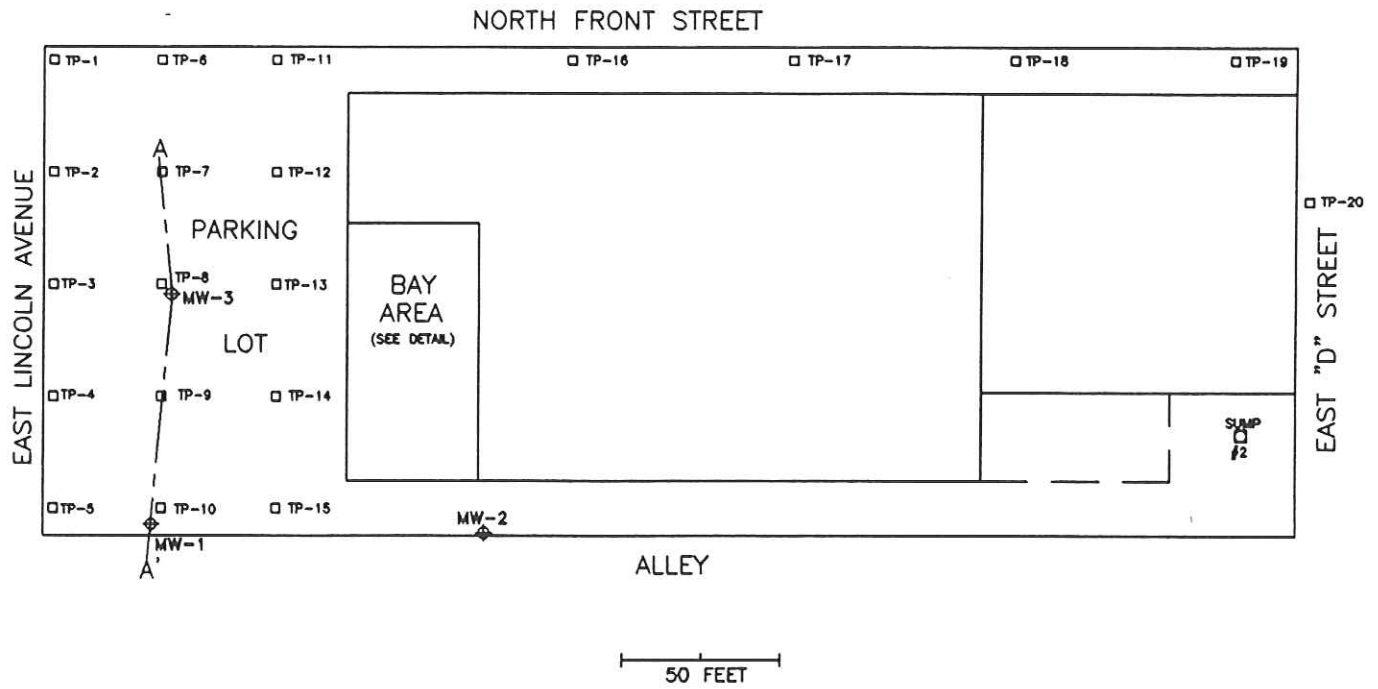
**FIGURE 1
SITE LOCATION PLAN**

**ELLIOT TIRE (GOODYEAR) RECLAMATION
N. FRONT STREET AND E. LINCOLN AVENUE
YAKIMA, WASHINGTON**

MAXIM
TECHNOLOGIES INC

PROJECT NO. 5609500616.04	DRAWING BY: KJM CHECKED BY: RT	DATE: 3/26/96 DATE: 3/27/96	SCALE: 1: 24,000
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LEGEND

- TP-1 TEST PIT
- ◇ MW-2 MONITORING WELL
- A — — — A' GEOLOGIC CROSS-SECTION LINE

NOTE: Tetrachloroethene, Gasoline, Diesel, and Heavy Oil WERE NOT DETECTED in TP-16, TP-17, TP-18, TP-19, and Sump #2.



FIGURE 2
SITE MAP, AND LOCATION OF TEST PITS
AND MONITORING WELLS

ELLIOT TIRE (GOODYEAR) REMEDIATION
N. FRONT STREET & E. LINCOLN AVE.
YAKIMA, WASHINGTON

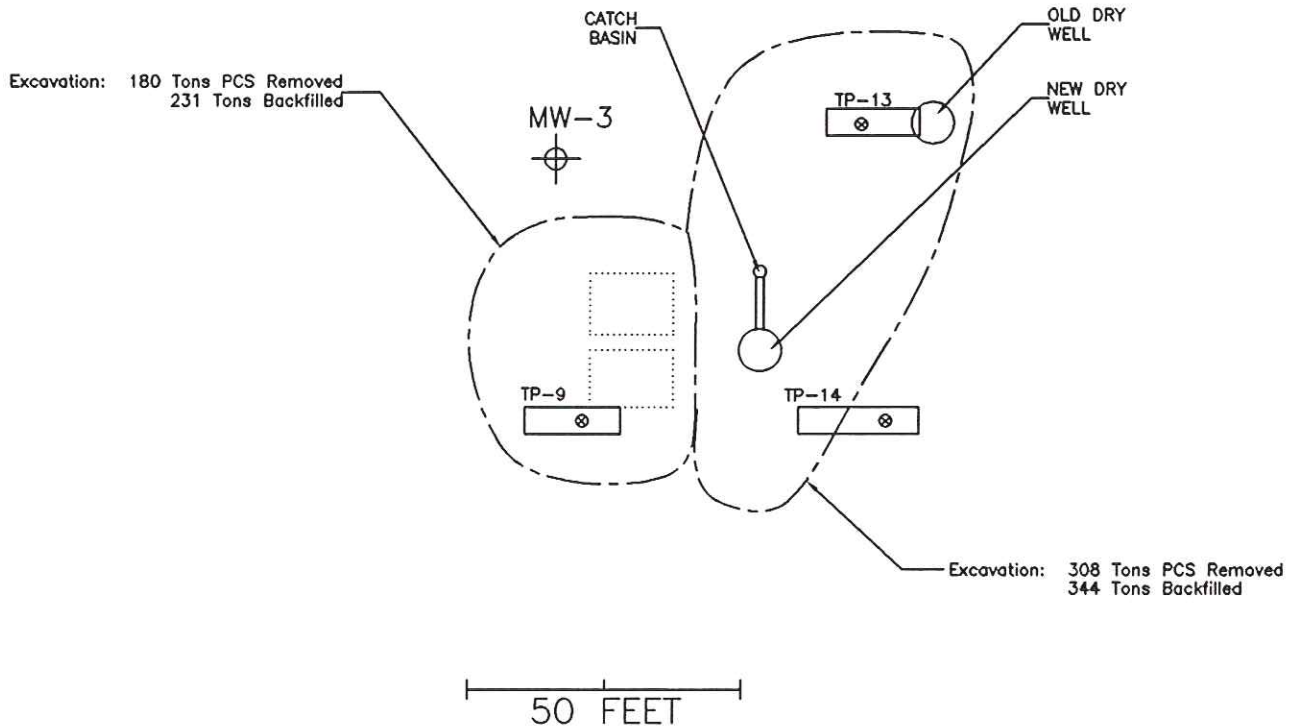


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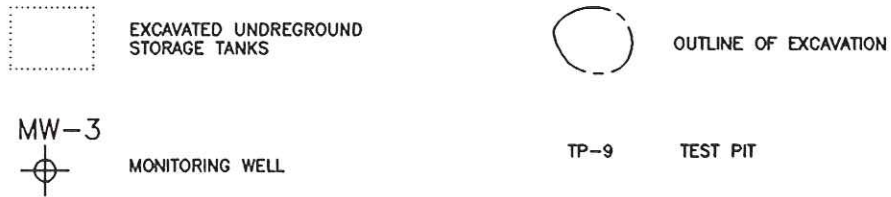


FIGURE 3
UST AND SUMP EXCAVATION DETAIL

ELLIOT TIRE (GOODYEAR) REMEDIATION
N. FRONT STREET & E. LINCOLN AVE.
YAKIMA, WASHINGTON



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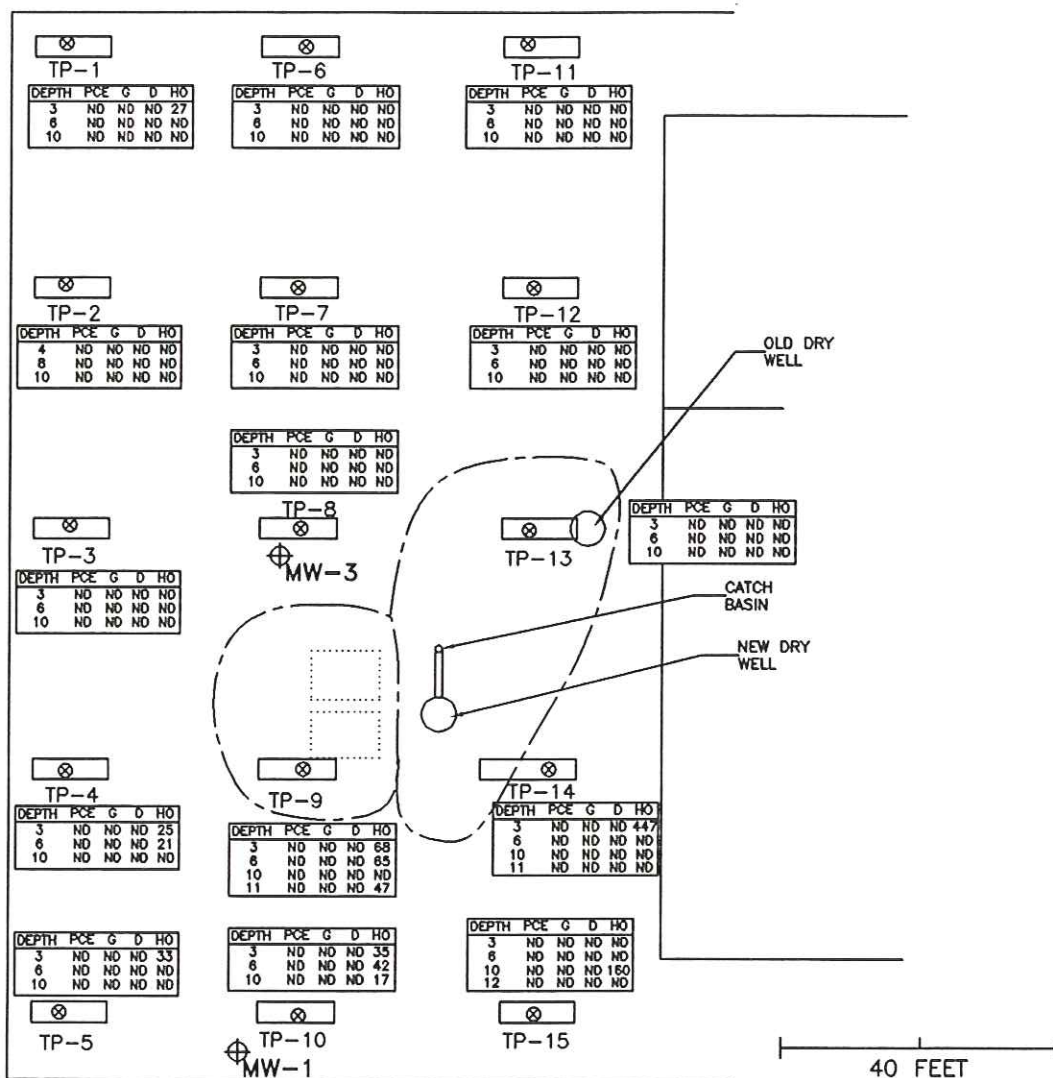
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NORTH FRONT STREET

EAST LINCOLN AVENUE



ALLEY
LEGEND

FIGURE 4
PARKING LOT SOIL SAMPLING (DETAIL)

ELLIOT TIRE (GOODYEAR) REMEDIATION
N. FRONT STREET & E. LINCOLN AVE.
YAKIMA, WASHINGTON

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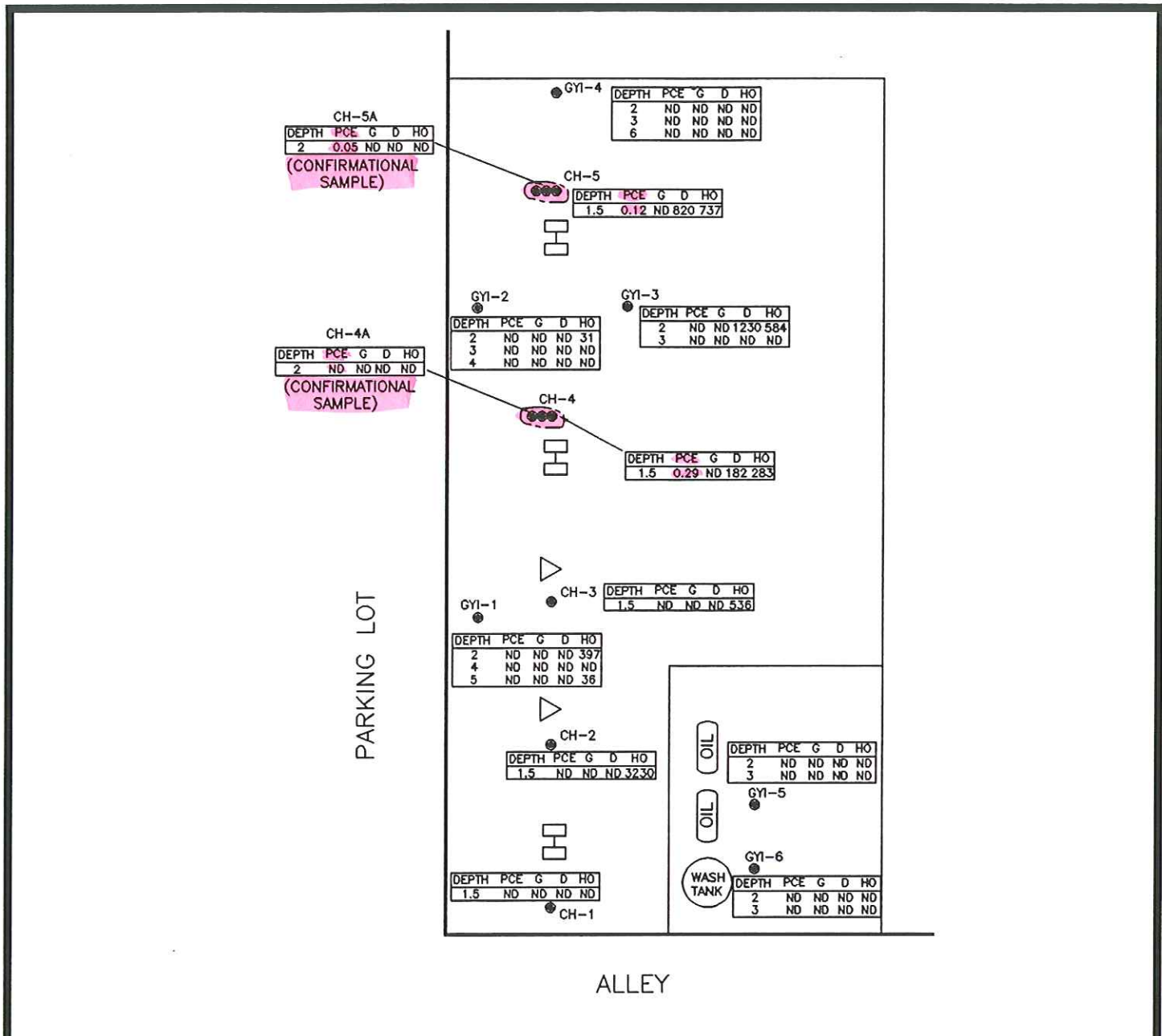


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LEGEND

DEPTH — SAMPLE DEPTH (FEET)		OUTLINE OF EXCAVATION
PCE — TETRACHLOROETHENE (mg/kg)		HOIST
G — GASOLINE (mg/kg)		JACK
D — DIESEL (mg/kg)		CORE HOLE
HO — HEAVY OIL (mg/kg)		

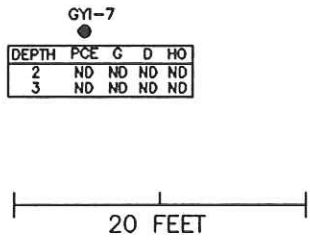


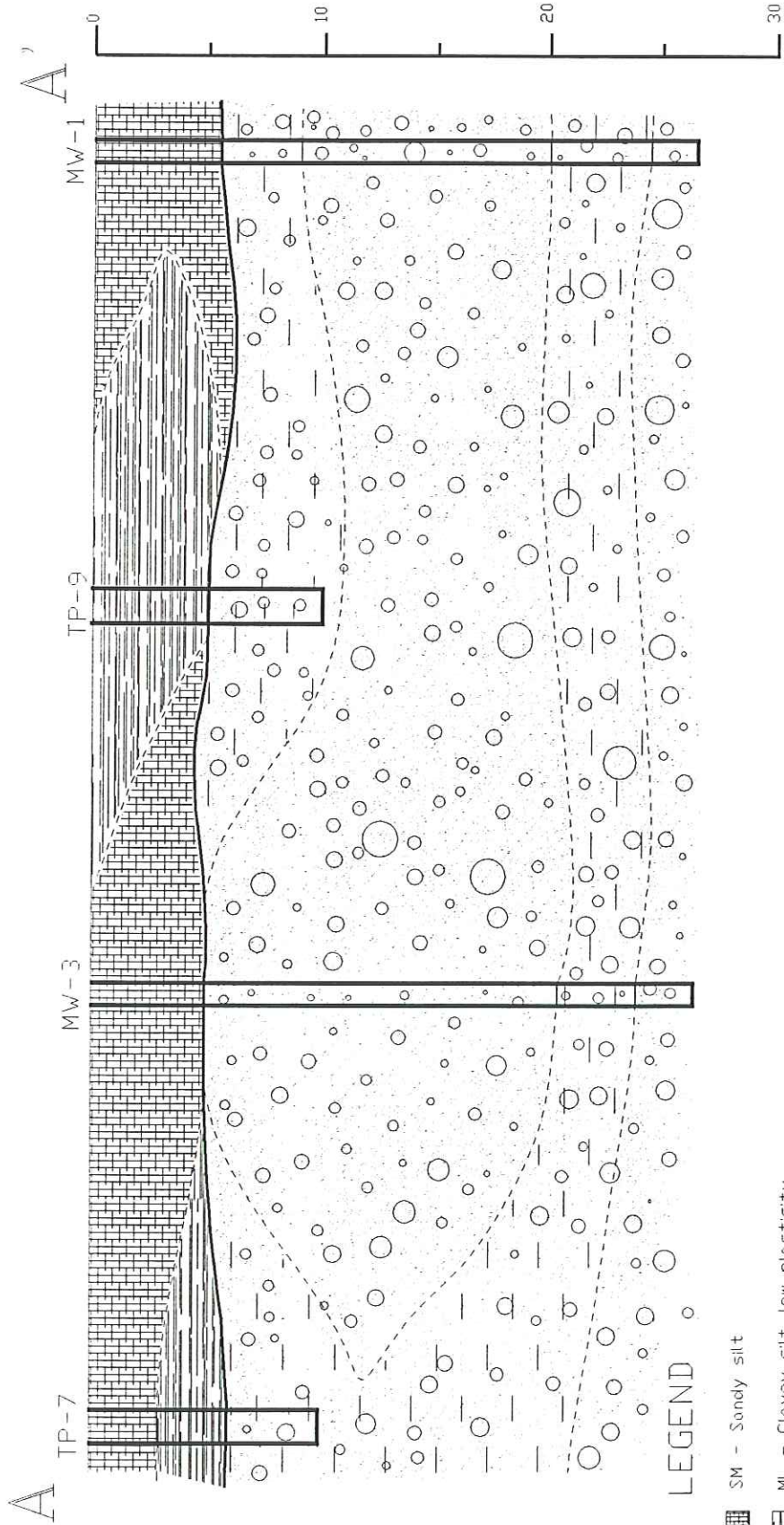
FIGURE 5
BAY AREA SOIL SAMPLING (DETAIL)

ELLIOT TIRE (GOODYEAR) REMEDIATION
N. FRONT STREET & E. LINCOLN AVE.
YAKIMA, WASHINGTON



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LEGEND

- SM - Sandy silt
- ML - Clayey silt, low plasticity
- GM - Silty gravel
- GP - Poorly graded gravel



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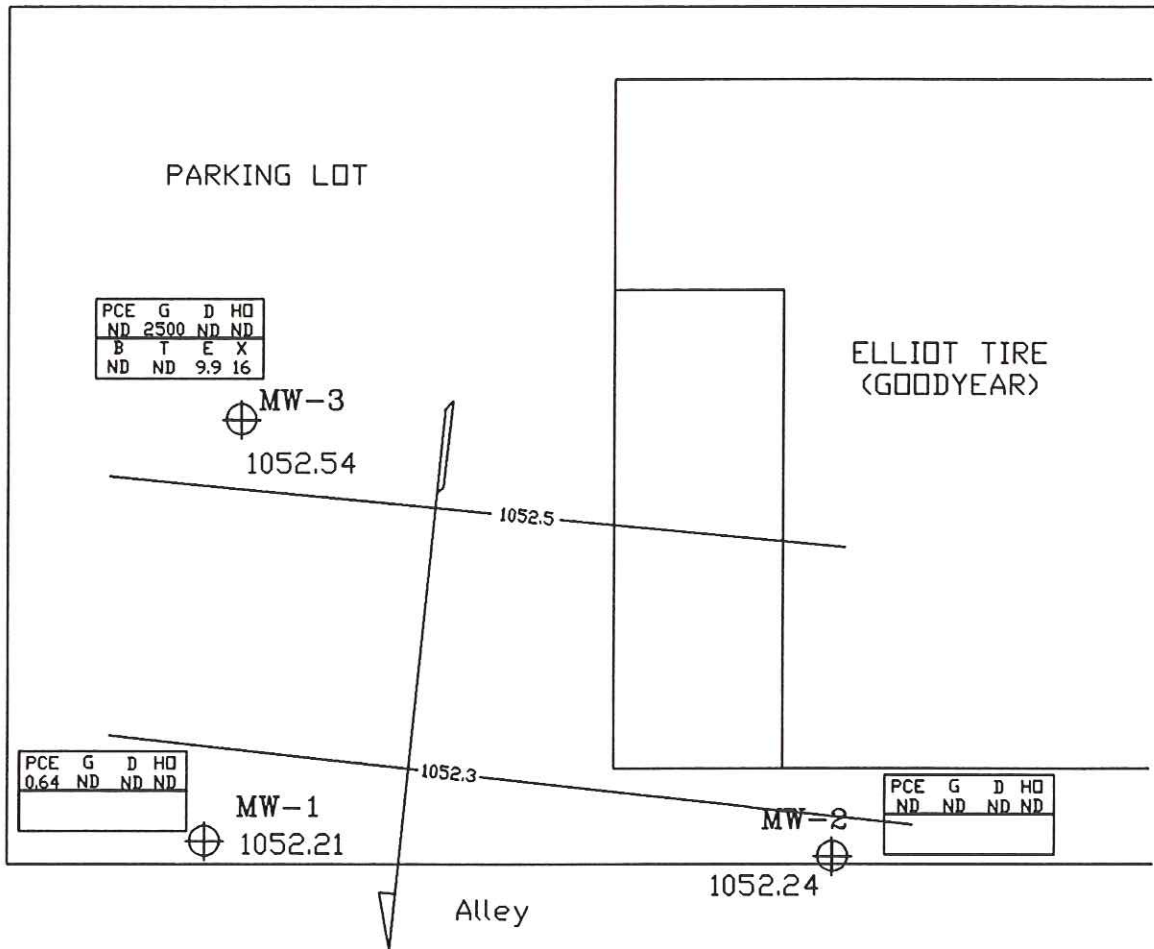
FIGURE 6
GEOLOGIC CROSS-SECTION

ELLIOT TIRE (GOODYEAR) REMEDIATION
N. FRONT STREET & E. LINCOLN AVE.
YAKIMA, WASHINGTON



North Front Street

East Lincoln Avenue



Approximate Scale (feet)



LEGEND

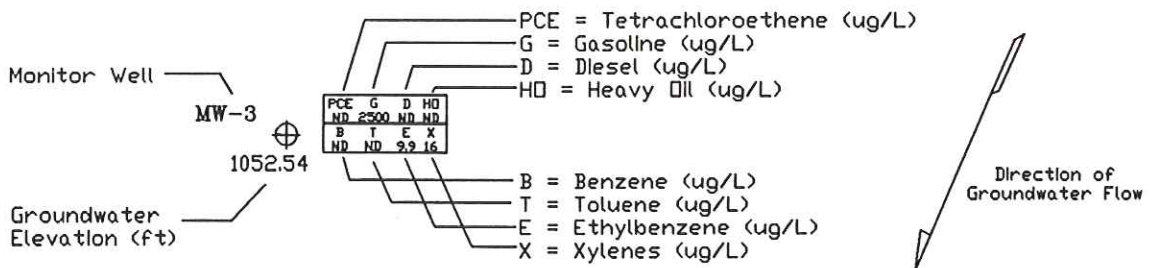


FIGURE 7
GROUNDWATER GRADIENT AND CONTAMINANT
CONCENTRATIONS: FEBRUARY 21, 1995

ELLIOT TIRE (GOODYEAR) REMEDIATION
N. FRONT STREET & E. LINCOLN AVE.
YAKIMA, WASHINGTON

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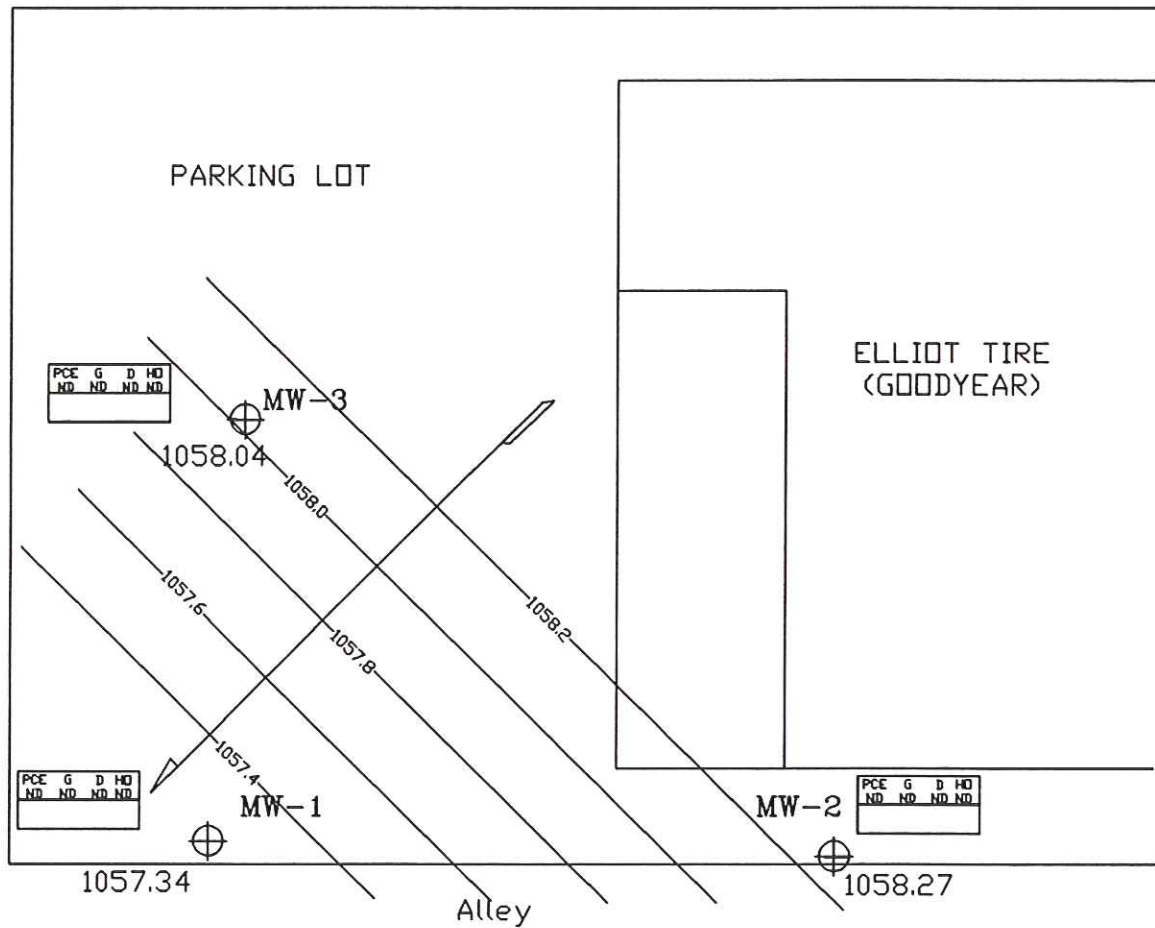
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DATE: 4-29-96

SCALE:
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North Front Street

East Lincoln Avenue



LEGEND

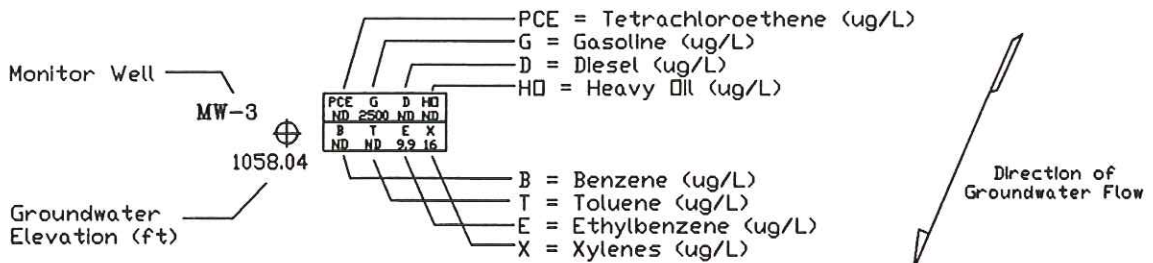


FIGURE 8
GROUNDWATER GRADIENT AND CONTAMINANT
CONCENTRATIONS: AUGUST 15, 1995

ELLIOT TIRE (GOODYEAR) REMEDIATION
N. FRONT STREET & E. LINCOLN AVE.
YAKIMA, WASHINGTON

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5609500616.04

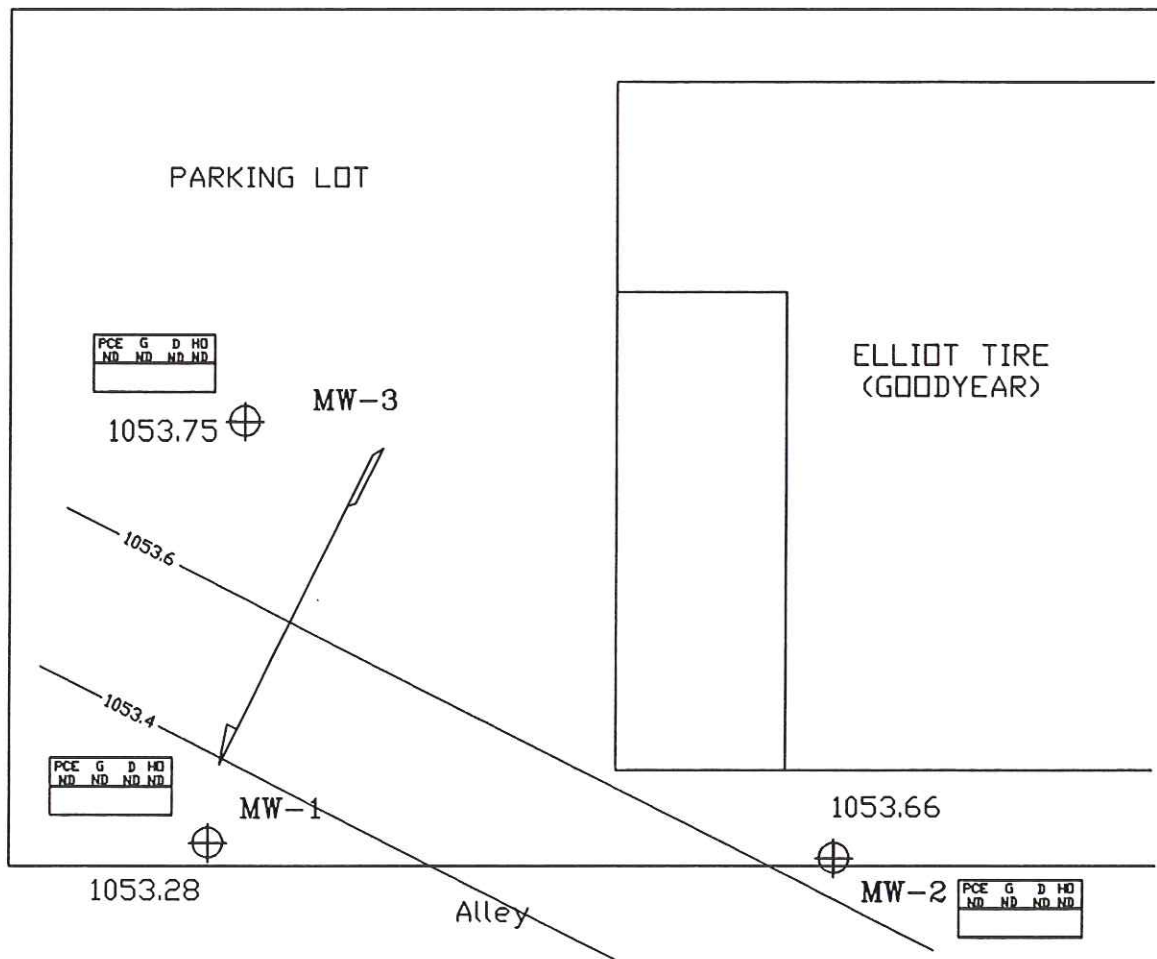
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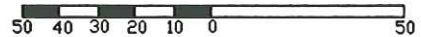
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North Front Street

East Lincoln Avenue



Approximate Scale (feet)



LEGEND

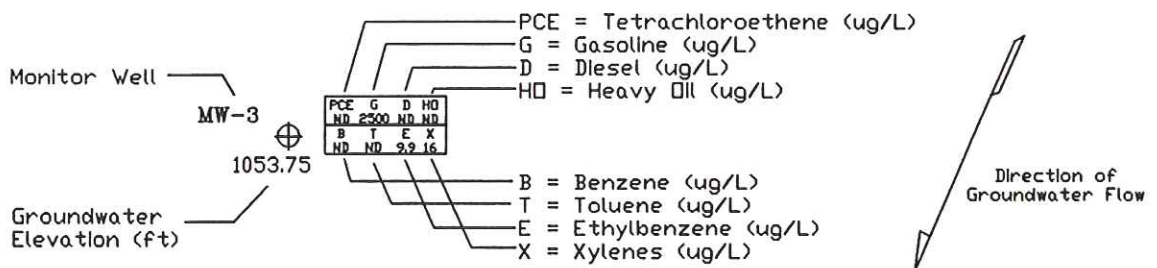


FIGURE 9
GROUNDWATER GRADIENT AND CONTAMINANT
CONCENTRATIONS: NOVEMBER 20, 1995

ELLIOT TIRE (GOODYEAR) REMEDIATION
N. FRONT STREET & E. LINCOLN AVE.
YAKIMA, WASHINGTON



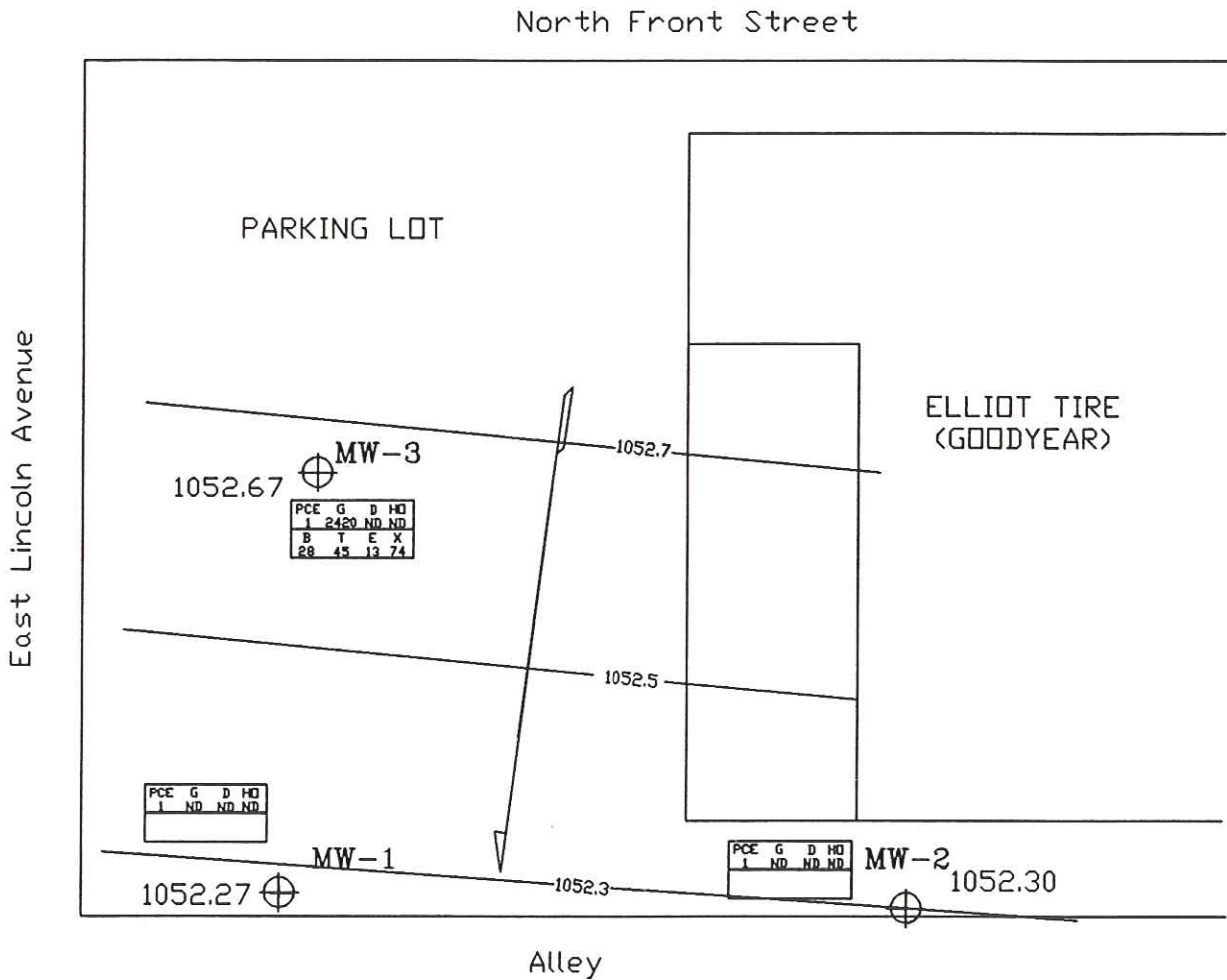
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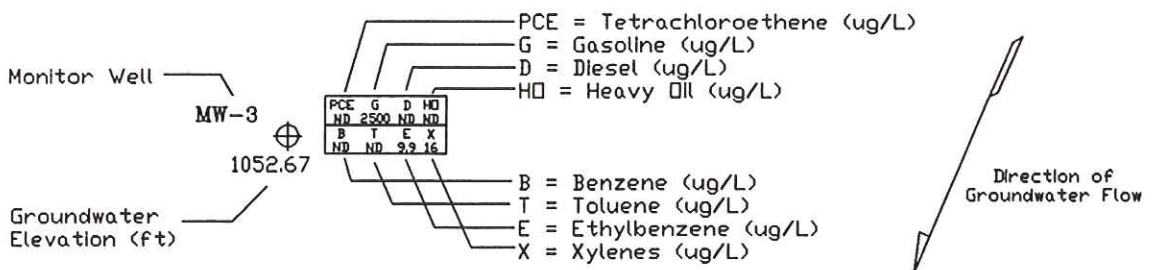


FIGURE 10
GROUNDWATER GRADIENT AND CONTAMINANT
CONCENTRATIONS: FEBRUARY 20, 1996

ELLIOT TIRE (GOODYEAR) REMEDIATION
N. FRONT STREET & E. LINCOLN AVE.
YAKIMA, WASHINGTON



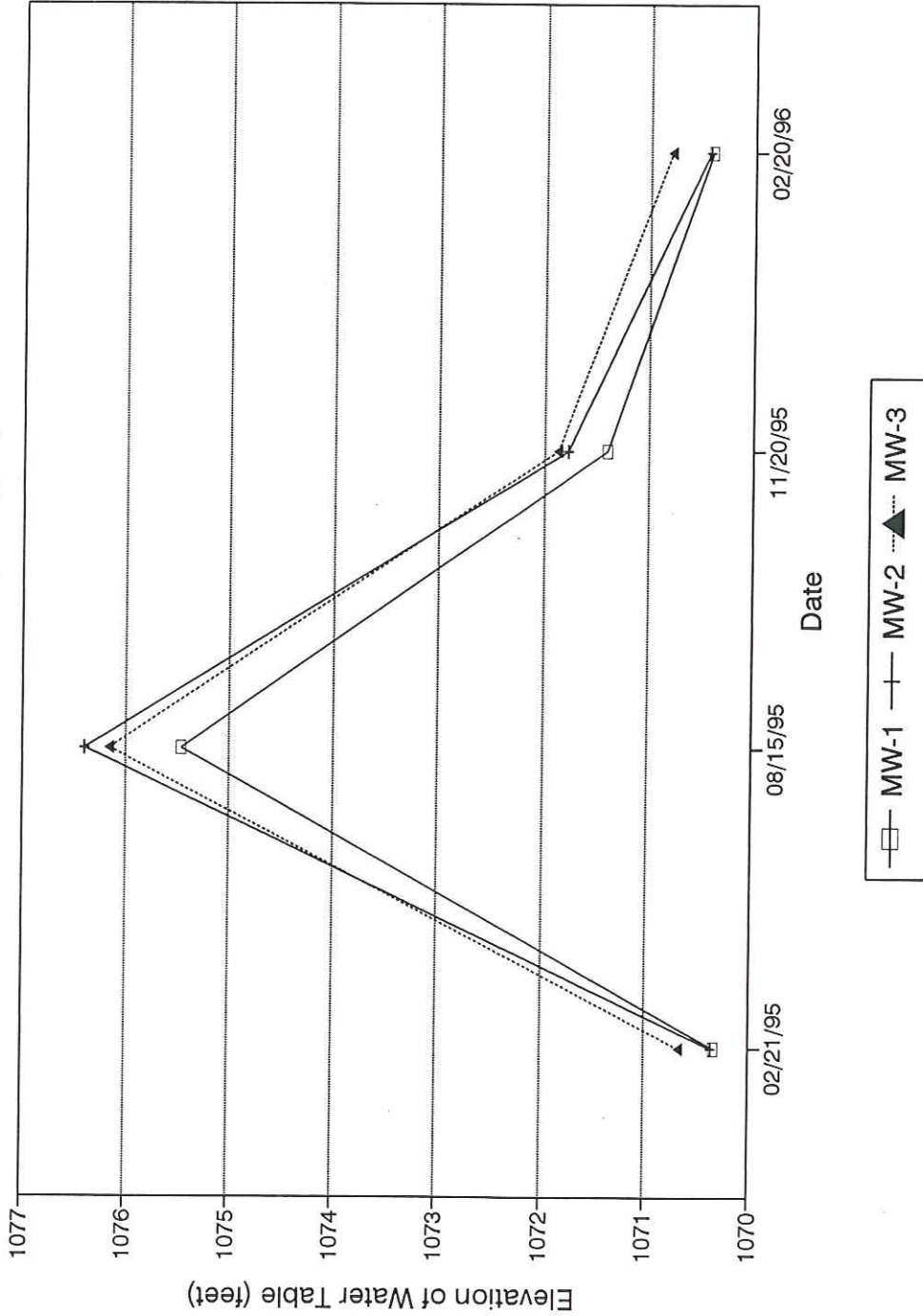
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Figure 11.
Groundwater Hydrograph



PROJ. NO. 5609500616.04

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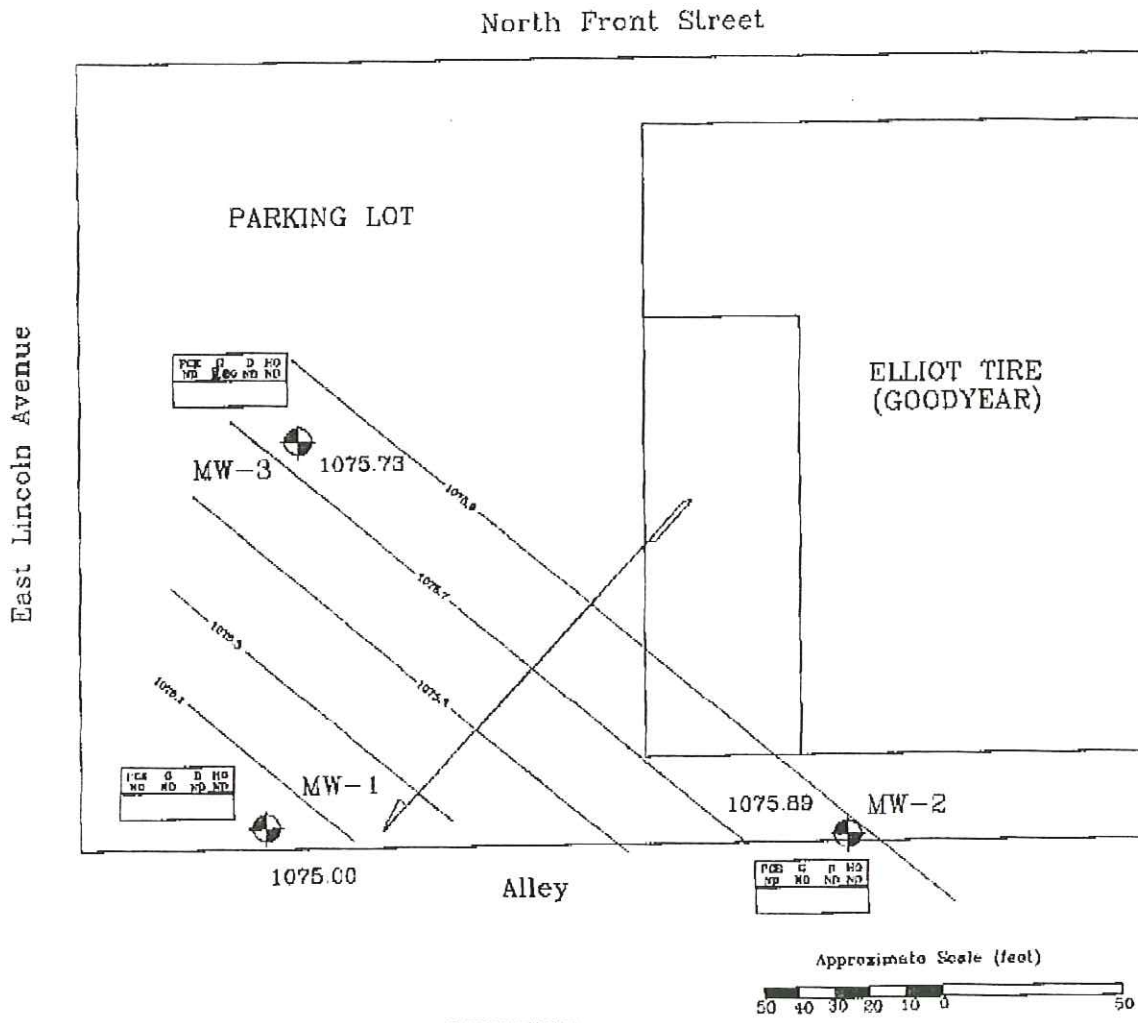
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FIGURE 11
GROUNDWATER HYDROGRAPH

ELLIOT TIRE (GOODYEAR) REMEDIATION
N. FRONT STREET & E. LINCOLN AVE.
YAKIMA, WASHINGTON

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LEGEND

- PCE = Tetrachloroethane (ug/L)
 - G = Gasoline (ug/L)
 - D = Diesel (ug/L)
 - HO = Heavy Oil (ug/L)
 - B = Benzene (ug/L)
 - T = Toluene (ug/L)
 - E = Ethylbenzene (ug/L)
 - X = Xylenes (ug/L)
- Monitor Well MW-3 1075.60
- Groundwater Elevation (ft)
- Direction of Groundwater Flow

FIGURE 12
GROUNDWATER GRADIENT AND CONTAMINANT
CONCENTRATIONS: AUGUST 5, 1996

ELLIOT TIRE (GOODYEAR) REMEDIATION
 N. FRONT STREET AND E. LINCOLN AVENUE
 YAKIMA, WASHINGTON



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DATE: 8/26/96
DATE: 9/27/96

SCALE:
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Work Map 8/27/96

TABLES

TABLE 1
 ELLIOT TIRE (GOODYEAR) REMEDIATION
 Parking Lot Test Pit Soil Analyses Results
 (Exterior Samples)

Test Pit No.	Depth (ft)	PCE (mg/kg)	Gasoline (mg/kg)	Diesel (mg/kg)	Heavy Oil (mg/kg)	Date Analyzed
1	3	ND	ND	ND	27	8/18/95
	6	ND	ND	ND	ND	8/18/95
	10	ND	ND	ND	ND	8/21/95
2	4	ND	ND	ND	ND	8/15/95
	8	ND	ND	ND	ND	8/15/95
	10	ND	ND	ND	ND	8/15/95
3	3	ND	ND	ND	ND	8/15/95
	6	ND	ND	ND	ND	8/15/95
	10	ND	ND	ND	ND	8/15/95
4	3	ND	ND	ND	25	8/17/95
	6	ND	ND	ND	21	8/17/95
	10	ND	ND	ND	ND	8/17/95
5	3	ND	ND	ND	33	8/18/95
	6	ND	ND	ND	ND	8/18/95
	10	ND	ND	ND	ND	8/18/95
6	3	ND	ND	ND	ND	8/21/95
	6	ND	ND	ND	ND	8/21/95
	10	ND	ND	ND	ND	8/21/95
7	3	ND	ND	ND	ND	8/15/95
	6	ND	ND	ND	ND	8/15/95
	10	ND	ND	ND	ND	8/15/95
8	3	ND	ND	ND	ND	8/16/95
	6	ND	ND	ND	ND	8/16/95
	10	ND	ND	ND	ND	8/17/95

TABLE 2
 ELLIOT TIRE (GOODYEAR) REMEDIATION
 Summary of Soil Sample Analyses Results Around the Building
 (Exterior Samples)

Test Pit No.	Depth (ft)	PCE (mg/kg)	Gasoline (mg/kg)	Diesel (mg/kg)	Heavy Oil (mg/kg)	Date Analyzed
16	3	ND	ND	ND	ND	8/21/95
17	3	ND	ND	ND	ND	8/21/95
18	3	ND	ND	ND	ND	8/21/95
19	3	ND	ND	ND	ND	8/21/95
20	3	ND	ND	ND	ND	8/21/95
Sump #2	NA	ND	ND	ND	20	8/17/95

TABLE 3
 ELLIOT TIRE (GOODYEAR) REMEDIATION
 Old Dry Well Soil Samples Analyses Results

Dry Well	Matrix	TCE (mg/kg)	PCE (mg/kg)	Gasoline (mg/kg)	Diesel (mg/kg)	Heavy Oil (mg/kg)	Date Analyzed
Old Dry Well	Sludge	ND	ND	ND	ND	ND	8/16/95
Old Dry Well	Soil	ND	ND	ND	ND	3230	8/28/95
Old Dry Well, North Wall	Soil ¹	ND	ND	ND	ND	ND	9/5/95
Old Dry Well, South Wall	Soil ¹	ND	ND	ND	ND	ND	9/5/95

¹ Confirmational Sample

TABLE 4
ELLIOT TIRE (GOODYEAR) REMEDIATION
 New Dry Well Soil Samples Analyses Results

Dry Well	Matrix	PCE (mg/kg)	Gasoline (mg/kg)	Diesel (mg/kg)	Heavy Oil (mg/kg)	Other Constituents (mg/kg)	Date Analyzed	
New Dry Well	Sludge	2	ND	ND	277	DCE	8/18/95	
						43		
						Benzene		8
						TCE		1
						Toluene		71
Ethylbenzene	40							
Total Xylenes	146							
New Dry Well	Soil	ND	ND	ND	4408	DCE	8/18/95	
						0.10		
						Toluene		0.14
Ethylbenzene	0.06							
Total Xylenes	0.41							
New Dry Well, Base	Soil ¹	ND	ND	ND	ND	ND	9/5/95	
New Dry Well, North Wall	Soil ¹	ND	ND	ND	ND	ND	9/5/95	

TABLE 6
 ELLIOT TIRE (GOODYEAR) REMEDIATION
 Summary of Water Table Elevations and
 Groundwater Sample Analysis Results

Well No.	Elevation of Reference Point (ft)	Depth to Groundwater (ft)	Elevation of Water Table (ft)	PCE (µg/L)	Gasoline (µg/L)	Diesel (µg/L)	Heavy Oil (µg/L)	Date Collected
MW-1	1088.51	18.18	1,070.33	0.64 ³	ND ¹	ND	NR ²	2/21/95
		13.05	1,075.46	ND ⁴	ND	ND	ND	8/15/95
		17.11	1,071.40	ND ⁴	ND	ND	ND	11/20/95
		18.12	1,070.39	1 ⁴	ND	ND	ND	2/20/96
		13.51	1,075.00	ND ⁴	ND	ND	ND	8/5/96
MW-2	1089.42	19.06	1,070.36	NR ³	ND	ND	NR	2/21/95
		13.03	1,076.39	ND ⁴	ND	ND	ND	8/15/95
		17.64	1,071.78	ND ⁴	ND	ND	ND	11/20/95
		19.0	1,070.42	1 ⁴	ND	ND	ND	2/20/96
		13.53	1,075.89	ND ⁴	ND	ND	ND	8/5/96
MW-3	1087.77	17.11	1,070.66	NR ³	2500	ND	NR	2/21/95
		11.61	1,076.16	ND ⁴	ND	ND	ND	8/15/95
		15.90	1,071.87	ND ⁴	ND	ND	ND	11/20/95
		16.98	1,070.79	1 ⁴	2420	ND	ND	2/20/96
		12.04	1,075.73	ND ⁴	200	ND	ND	8/5/96

NOTES: ¹ ND = Not Detected
² NR = Analysis Not Performed
³ Analyzed Using EPA Method 8240
⁴ Analyzed Using EPA Method 8010/8020

TABLE 7
ELLIOT TIRE (GOODYEAR) REMEDIATION
SUMMARY OF PETROLEUM CONTAMINATION IN MONITORING WELL 3 and GROUNDWATER OF
ENVIRONMENTAL ASSOCIATES' SOIL BORING B-1

Boring/Well No.	Date Collected	Benzene ¹ (µg/L)	Toluene ² (µg/L)	Ethylbenzene ³ (µg/L)	Xylenes ⁴ (µg/L)	Gasoline ⁵ (µg/L)	Diesel ⁵ (µg/L)
B-1	12/94	6.3	2.7	14	67	8400	6900
MW-1	8/5/96	ND	ND	ND	ND	ND	ND
MW-2	8/5/96	ND	ND	ND	ND	ND	ND
MW-3	2/22/95	ND ⁶	ND	9.9	16	2500	ND
	2/20/96	28	45	13	103	2420	ND
	8/5/96	ND	ND	ND	ND	200	ND

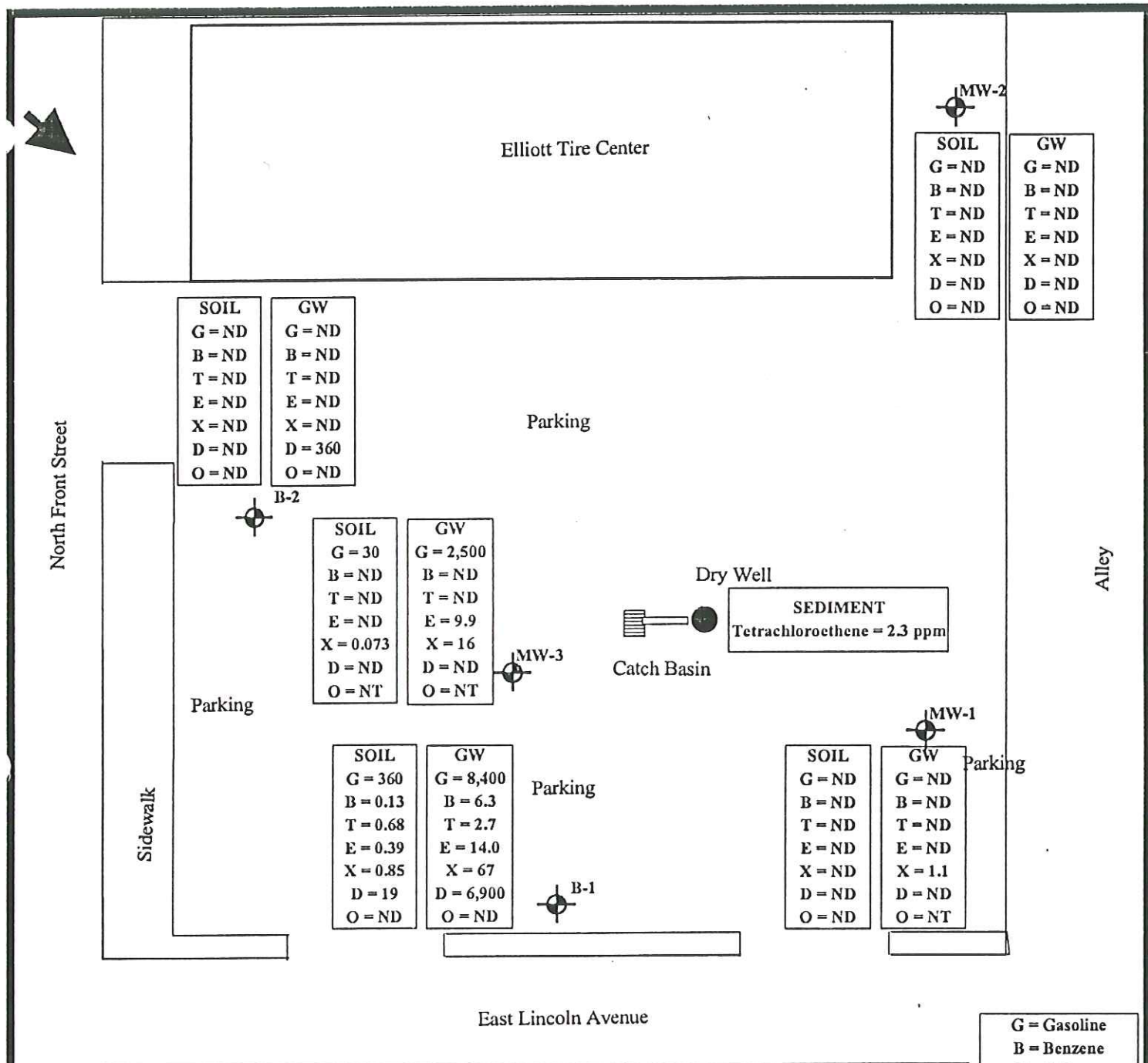
Notes:

- ¹ MTCA Method A Cleanup Level = 5.0 µg/L.
- ² MTCA Method A Cleanup Level = 40.0 µg/L.
- ³ MTCA Method A Cleanup Level = 30.0 µg/L.
- ⁴ MTCA Method A Cleanup Level = 20.0 µg/L.
- ⁵ MTCA Method A Cleanup Level = 1000.0 µg/L for Total Petroleum Hydrocarbons.
- ⁶ ND = Not Detected

APPENDICES

APPENDIX A

PHASE II INVESTIGATION SITE MAP AND WELL LOGS



B-1 EAI Boring
(December, 1994)

MW-1 EAI Boring/Monitoring Well
(February, 1995)

Probable direction of shallow-seated groundwater flow

APPROXIMATE SCALE



G = Gasoline
 B = Benzene
 T = Toluene
 E = Ethylbenzene
 X = Xylenes
 D = Diesel
 O = Oil
 ND = Not Detected
 NT = Not Tested
 Soil Results in ppm
 GW Results in ppb

ENVIRONMENTAL ASSOCIATES, INC.

2122 - 112th Avenue N.E., Ste. B-100
 Bellevue, Washington 98004



SITE EXPLORATION MAP

Elliott Tire Center
 NEC East Lincoln Ave. & North Front Street
 Yakima, Washington

Job Number: JN 4339-2	Date: March 1995	Plate: 4
---------------------------------	----------------------------	--------------------

MONITORING WELL MW-1

Depth/ Sample	Moisture Content (%) Water Table	Blows/ Foot	USCS	DESCRIPTION	H.C. Head-space Analysis (ppm)	
0				Surface - Asphalt 2", 3" gravel.		
5			SM	Upper 6" Silty Sand (fine to medium grained), with clay, dark brown, damp	000	
		50	GM	Lower 6" Gravely Silty Sand, (medium to coarse grained), brown, dense, damp.		
10			>50	GP	Gravel with Sand (medium to coarse grained), dark brown, very dense, damp.	000
15			>50	GP	Gravel trace of Sand, grayish brown, very dense, dry.	000
20			>50	GM	Upper 6" Gravel trace of Sand, grayish brown wet Lower 6" Gravely Silty Sand (coarse grained), grayish brown, very dense, saturated.	000
25		>50	GP	Gravel trace of Sand, grayish brown, very dense, saturated	000	

- * Boring drilled to 25.0 feet, sampled to 26.5 feet on February 20, 1995.
- * Depth to groundwater was measured at 18.18 feet below top of casing (TOC) on February 21, 1995.
- * HC headspace analysis measured using Gastec GT 201 Organic Vapor Meter.
- * No visual indications of contamination in soil or groundwater.



**ENVIRONMENTAL
ASSOCIATES, INC.**

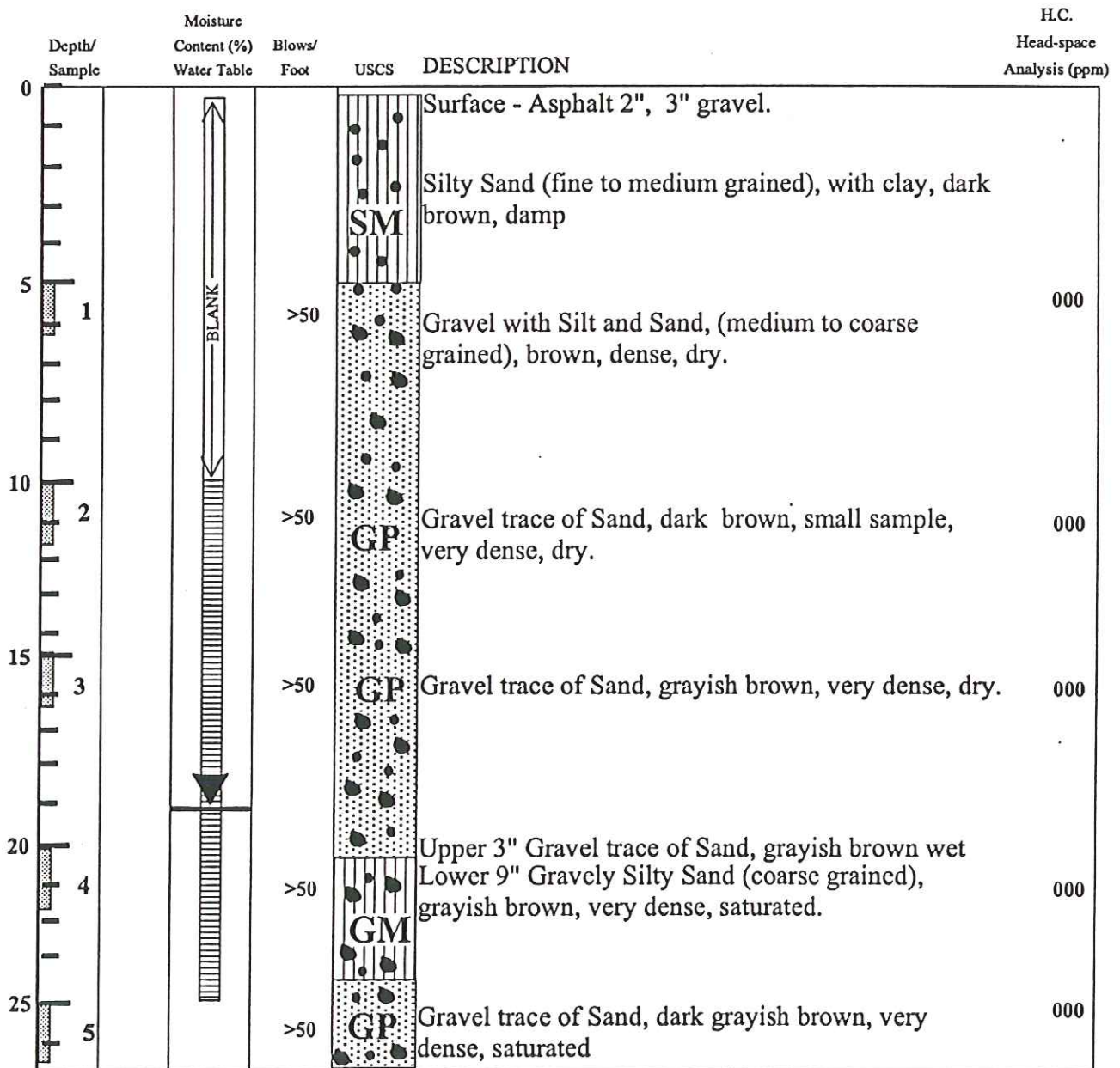
2122 - 112th Avenue N.E., Ste. B-100
Bellevue, Washington 98004

MONITORING WELL LOG

Elliott Tire Center
NEC East Lincoln Ave. & North Front Street
Yakima, Washington

Job Number:	Date:	Logged by:	Plate:
JN 4339-2	March 1995	T.A.J.	5

MONITORING WELL MW-2



- * Boring drilled to 25.0 feet, sampled to 26.5 feet on February 20, 1995.
- * Depth to groundwater was measured at 19.06 feet below top of casing (TOC) on February 21, 1995.
- * HC headspace analysis measured using Gastec GT 201 Organic Vapor Meter.
- * No visual indications of contamination in soil or groundwater.



**ENVIRONMENTAL
ASSOCIATES, INC.**

2122 - 112th Avenue N.E., Ste. B-100
Bellevue, Washington 98004

MONITORING WELL LOG

Elliott Tire Center
NEC East Lincoln Ave. & North Front Street
Yakima, Washington

Job Number:	Date:	Logged by:	Plate:
JN 4339-2	March 1995	T.A.J.	6

MONITORING WELL MW-3

Depth/ Sample	Moisture Content (%) Water Table	Blows/ Foot	USCS	DESCRIPTION	H.C. Head-space Analysis (ppm)
0				Surface - Asphalt 2", 3" gravel.	
5			SM	Silty Sand (fine grained), with clay, dark brown, damp.	
1		>50		Gravel with Silt and Sand, (medium to coarse grained), brown, dense, damp.	000
10		>50	GP	Gravel trace of Sand, dark grayish brown, very dense, dry.	000
15		>50	GP	Gravel trace of Sand, dark grayish brown, very dense, dry.	000
20		>50	GM	Upper 6" Gravel trace of Sand, grayish brown wet Lower 6" Gravely Sand (coarse grained), with silt, grayish brown, very dense, saturated, slight HC aroma.	50
25		>50	GP	Gravel trace of Sand, grayish brown, very dense, saturated	50

- * Boring drilled to 25.0 feet, sampled to 26.5 feet on February 21, 1995.
- * Depth to groundwater was measured at 17.11 feet below top of casing (TOC) on February 21, 1995.
- * HC headspace analysis measured using Gastec GT 201 Organic Vapor Meter.
- * No visual indications of contamination in soil or groundwater, slight HC aroma noted in samples #4 and #5.



**ENVIRONMENTAL
ASSOCIATES, INC.**

2122 - 112th Avenue N.E., Ste. B-100
Bellevue, Washington 98004

MONITORING WELL LOG

Elliott Tire Center
NEC East Lincoln Ave. & North Front Street
Yakima, Washington

Job Number:	Date:	Logged by:	Plate:
JN 4339-2	March 1995	T.A.J.	7

APPENDIX B
TEST PIT LOGS

**MAXIM TECHNOLOGIES, INC.
LOG OF EXPLORATION TEST PIT**

JOB NO: 5609500616 PROJECT NAME: Elliott Tire Center (Goodyear)

STATE: WA COUNTY: Yakima LOGGED BY: Rachel Tauman

TEST PIT NO: 7 DESCRIPTIVE LOCATION: Parking Lot

DATE STARTED: 8/15/95 DATE COMPLETED: 8/15/95

EXCAVATION COMPANY: Tri Valley Construction, Inc.

TOTAL DEPTH: 10.3 ft

REMARKS: _____

Depth (ft)	Classification and Description	USCS Symbol	Cross Section
0	Sand: Brown and Orange	SM	
1			
2			
3	70 - 75% Sand, Silt, and Clay Mixture; 25 - 30% Gravel	ML	
4			
5			
6	60 - 70% Gravel; 30 - 40% Sand	GM	
7			
8			
9			
10			
11			
12			
13			
14			

**MAXIM TECHNOLOGIES, INC.
LOG OF EXPLORATION TEST PIT**

JOB NO: 5609500616 PROJECT NAME: Elliot Tire Center (Goodyear)

STATE: WA COUNTY: Yakima LOGGED BY: Rachel Tauman

TEST PIT NO: 9 DESCRIPTIVE LOCATION: Parking Lot

DATE STARTED: 8/17/95 DATE COMPLETED: 8/17/95

EXCAVATION COMPANY: Tri Valley Construction, Inc.

TOTAL DEPTH: 10 ft

REMARKS: Sharp break at 5 feet between the clay and underlying gravel.

This Test Pit intercepted the USTs. The pit was expanded to excavate the USTs. 180 tons of petroleum contaminated soil was removed.

Depth (ft)	Classification and Description	USCS Symbol	Cross Section
0	Clay; Sandy Clay; Silty Clay: Reddish Brown with some Gravel Strings. 95% Clay; 5% Gravel	ML	
1			
2			
3			
4			
5	60% Gravel; 40% Sand and Silt	GM	
6			
7			
8			
9			
10	Groundwater Encountered at 10 ft		
11			
12			
13			
14			

APPENDIX C

RESTRICTIVE COVENANT DOCUMENTS



April 4, 1996

Mr. Tom Grahn, Attorney
Halverson & Applegate, P.S.
311 North Fourth Street
Yakima WA 98901

**RE: Mike Lovering
Restrictive Covenant Elliot Tire Bay Area**

Dear Tom:

In accordance with our telephone conversation on February 2, 1996 please find enclosed a map of the Bay Area showing the area underlain with petroleum contaminated soil left in place. In this area institutional controls will be implemented. In accordance with our meeting with Mr. Mark Peterschmidt from the Washington Department of Ecology (Ecology) on November 15, 1995 the institutional controls for this area will include groundwater monitoring. Because the contaminated area is beneath a concrete slab, and is inaccessible to the public, there will be no exposure to the public from this contamination. Therefore, additional institutional controls such as fences and signs will not be necessary for this site.

This covenant notifies future owners that there is approximately 100 cubic yards of petroleum contaminated soil left in place beneath the concrete slab. The areal extent of this contamination is approximately 1300 square ft. The maximum depth of contamination is two (2) ft below the concrete slab. The areal extent, volumes, and depth of contamination calculations are based on numerous soil samples collected in the Bay area. The location of the soil samples, their depth, and the areal extent of petroleum contamination are shown in the enclosed map (Figure 5). As shown on the map, petroleum contamination is the only contamination left beneath the concrete slab. All other contamination previously found has been excavated and removed from the Bay Area. Therefore, upon demolition of the Bay Area, Mike Lovering will be responsible for the excavation and disposal of approximately 100 cubic yards of petroleum contaminated soil.

If you have any questions please do not hesitate to call.

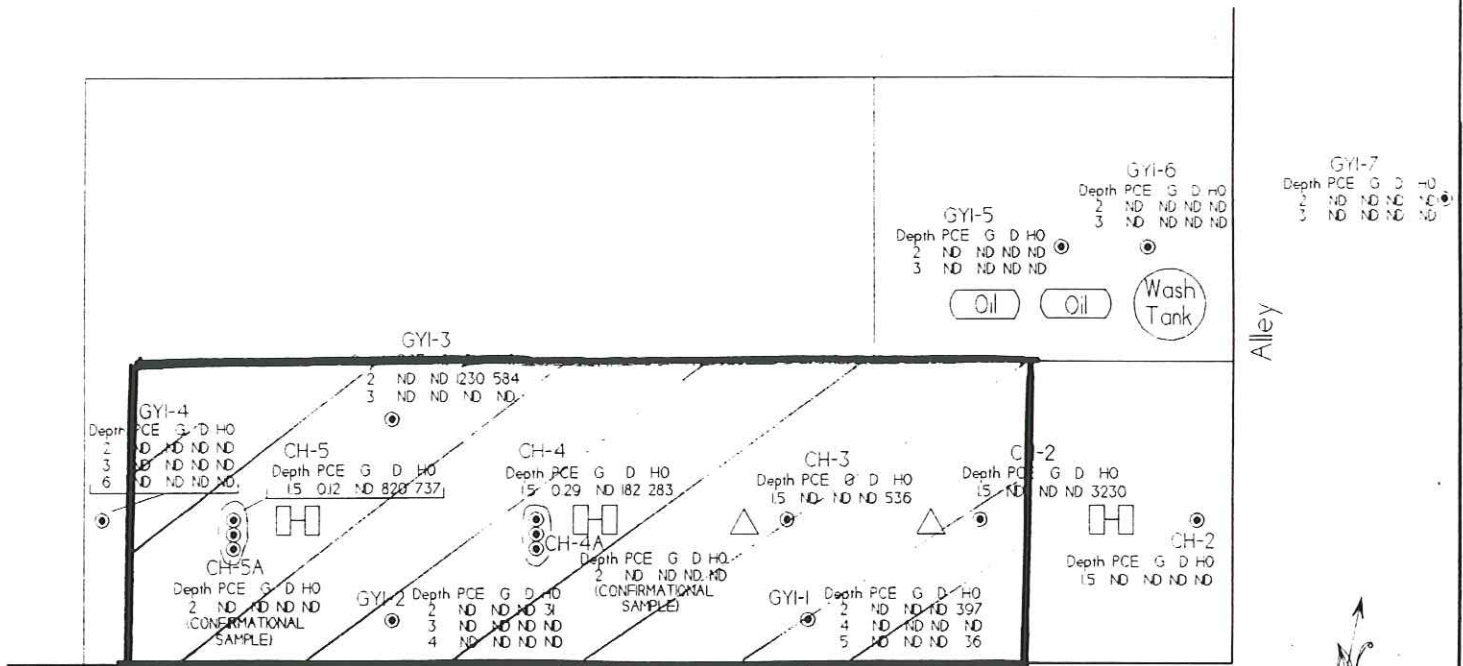
Very truly yours,

Rachel Tauman
Yakima Office Manager

P.O.Box 2887 Yakima, WA 98907 (509)577-8592 (509) 577-8520 FAX

Asteco • Austin Research Engineers • Chen-Northern • Empire Soils Investigations • Huntingdon • Kansas City Testing
Maxim Engineers • Nebraska Testing • Patzig Testing • Southwestern Laboratories • Thomas-Hartig • Twin City Testing



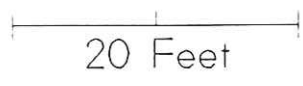


Petroleum Contaminated Soil: ↑ Parking Lot

Area: 1300.50 feet.

Maximum depth: 2.0 feet beneath the concrete slab.

Volume: ≈ 100 cubic yards.



Depth = Sample Depth (feet)
 PCE = Tetrachloroethene (mg/kg)
 G = Gasoline (mg/kg)
 D = Diesel (mg/kg)
 HO = Heavy Oil (mg/kg)

- Core Hole
- Jack
- △ Hoist
- Outline of Excavation

Bay Area Detail
 Elliot Tire (Goodyear) Remediation
 N. Front St. & E. Lincoln Ave.
 Yakima, WA
 Figure 5

RESTRICTIVE COVENANT

The property subject to this Restrictive Covenant ("site" herein) is the subject of an Independent Remedial Action Program ("IRAP" herein) undertaken by Maxim Technologies, Inc. on property known as the Goodyear Tire Center, 1 East Lincoln Avenue, Yakima, Washington, legally described as follows:

Lots 17-32, inclusive, Block 7, TOWN OF NORTH YAKIMA,
now Yakima, Washington, per Plat recorded in Volume E of
Plats, page 1, records of Yakima County, Washington.

The remedial action taken to clean up the site is described in the IRAP Report dated August 30, 1996, submitted to the Yakima County Department of Health and the Washington State Department of Ecology ("DOE" herein) at its Yakima, Washington Central Regional Office. The clean up action could not remediate approximately 1,300 square feet of petroleum contamination located up to a depth of two feet below the concrete slab floor of the existing building on the site. As that petroleum contamination does not result in any ground water contamination, however, and as the other potential sources of ground water contamination have been successfully removed from the site, it has been recommended that the under slab contamination be left in place until the existing building and slab are demolished, with remediation to be required at that point in time. The DOE is requesting this Restrictive Covenant to that effect, pursuant to WAC 173-340-440. Accordingly:

The undersigned owners of the site hereby make the following declaration which shall constitute a covenant to run with the land, as provided by law, and which shall be binding on all parties and all persons claiming under them,

including all current and future owners of any portion of or any interest in the site, to-wit:

1. At such time as the improvements and slab on the site are demolished or removed, remediation, pursuant to then applicable standards, of any remaining petroleum contamination located under the slab shall be required.

2. The quarterly ground water monitoring program currently in progress shall be continued for an overall total of eight (8) samplings, and this shall fulfill the institutional control requirements for the site.

3. Corrective measures to prevent accidental spills in the newly installed dry well on the site and under the floors of the improvements on the site should be implemented. Absorbents presently installed and in the dry well should be regularly maintained and replaced to minimize the potential for new releases of contaminants to ground water.

4. The owners of the site shall give written notice to DOE, or to its successor agency, of any intent to convey any interest in the site. No conveyance of title, easement, lease, or other interest in the site shall be consummated by the property owners without adequate and complete provision for continued compliance with this Restrictive Covenant.

5. The owner or any successor owner of the site shall allow authorized representatives of DOE, or any successor agency, the right to enter the site at reasonable times for the purposes of evaluating compliance with the IRAP Report and this Restrictive Covenant, including the right to take samples, inspect any remedial action taken at the site, and to inspect records that are related thereto.

6. The owner and successor owners of the site reserve the right under WAC 173-340-440 to record an instrument which provides that this Restrictive Covenant shall no longer be of any further force or effect. This Restrictive Covenant, however, shall be removed only if DOE, after public notice and opportunity for comment, concurs.

DATED this _____ day of _____, 1996.

Pleas J. Green

Paula J. Green

STATE OF WASHINGTON)
) ss:
County of _____)

On this day personally appeared before me PLEAS J. GREEN and PAULA J. GREEN, husband and wife, to me known to be the individuals described in and who executed the within and foregoing instrument, and acknowledged that they signed the same as their free and voluntary act and deed, for the uses and purposes therein mentioned.

Given under my hand and official seal this _____ day of _____, 1996.

NOTARY PUBLIC in and for the
State of Washington,
Residing at _____
My commission expires: _____

tbg\loving\restric.co2
082896 tbg:pb

APPENDIX D

CONTAMINATED SOIL DISPOSAL DOCUMENTS

ANDERSON

Rock & Demolition Pits

41 Rocky Top Road
Yakima, WA 98908

Bus. (509) 965-3621
Fax (509) 965-8656

Invoice

3033

Petroleum Contaminated Soils Site

Please pay from invoice. No statement will be issued unless requested.

Terms: Net 10 days — 1-1/2% per month on balance 30 days past due from date of invoice. \$1.00 minimum.

TO: Russell CRANE Sen
505 Locust Ave
Yakima WA 98901

DATE 9-7-95

DATE	QUANTITY	DESCRIPTION	LOAD TICKET #	UNIT PRICE	TOTAL
8/6-8/17	17864	Tons Petroleum Cont. Soil	4990		
			4993	200#	3,592.80
8/6-8/17		6tr hrs truck Pup-hauling		270.00	455.00
9-5-95	1	Ton Asphalt Dump	5146	50.00	50.00
9/5-9/6	30822	Tons Petroleum Cont. Soil	5147		6,164.40
			5155		
					10,262.20
		From Goodman Site Front + Lincoln			
			ENTERED 29-5-96		
			BILLED		10,262.20

Thank You!

ABBOTT'S PRINTING

Aug 29, 1996
Backfill for site

Greg Hoyle from Tri-Valley construction stated that the backfill for the Loveling site was bought from Central Pre-Mix (575 Tons).

Rachel Teeman
8/29/96

***FOR 24 HOUR EMERGENCY RESPONSE INFORMATION, CALL (206) 872-7859 ***
(19720) 57189

04/12/96

Please print or type. (Form designed for use on size 12-inch typewriter.)

Form Approved. OMB no. 2060-0089. Expires 9-30-96

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. WA0133392211	Manifest Document No. 21295	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address Goodyear Tire N. Front & E. Lincoln Tacoma, WA 98501			A. State Manifest Document Number		B. State Generator's ID	
4. Generator's Phone (509) 575-6111			C. State Transporter's ID		D. Transporter's Phone (206) 893-3044	
5. Transporter 1 Company Name Burlington Environmental, Inc.		6. US EPA ID Number WA000001743	E. State Transporter's ID		F. Transporter's Phone (206) 768-3862	
7. Transporter 2 Company Name		8. US EPA ID Number	G. State Facility's ID		H. Facility's Phone	
9. Designated Facility Name and Site Address Burlington Environmental, Inc. 734 South Lucile Street Seattle, WA 98108			10. US EPA ID Number WA0000812909		I. Facility's Phone	
GENERATOR	11. US DOT Description (including Proper Shipping Name, Hazard Class and ID Number)		12. Containers	13. Total Quantity	14. Unit Weight	15. Waste No.
	a.	Hazardous waste, liquid, a.s.s. (Tetrachloroethylene) 9 H104 PERK 880(31)	No. Type			
	b.					
	c.					
	d.					
J. Additional Descriptions for Materials Listed Above 1. 1977-88. Dump Trailer with tetrachloroethylene and petrol gas containers			K. Manifest Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this assignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal (TSD) available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name F.W. Mike Lovaring		Signature <i>F.W. Mike Lovaring</i>		Month Day Year 4 12 96		
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name		Signature		Month Day Year		
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name		Signature		Month Day Year		
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.						
Printed/Typed Name		Signature		Month Day Year		

FACILITY

Use this form only if you are a generator of hazardous waste.

APPENDIX E

**LABORATORY REPORTS OF GROUNDWATER SAMPLES
AND
SAMPLING FIELD FORMS**

Maxim

600 South 25th Street
P O Box 30615
Billings, MT 59107
(406) 248-9161
FAX (406) 248-9282

TECHNICAL REPORT

REPORT TO: ATTN: RACHEL TAUMAN
MAXIM TECHNOLOGIES, INC.
P O BOX 2887
YAKIMA WA 98907

DATE: August 20, 1996
JOB NUMBER: 95-932
SHEET: 1 of 8
INVOICE NO.: 036042

REPORT OF: Water Analysis - Lovering - 616.04

SAMPLE IDENTIFICATION:

On August 7, 1996, these water samples (laboratory numbers 177412 through 177415) were received in our laboratory for analysis. Tests were conducted in accordance with SW-846 "Test Methods for Evaluating Solid Waste," 3rd Edition, updates I, II, IIA, IIB; and State of Washington methods WTPH-G and WTPH-D.

The condition of the samples upon receipt at the laboratory is noted on the attached sample receipt checklist. Chain of custody documentation is enclosed. Chromatograms are attached for your reference.

The test results are shown on the following pages.

A < sign indicates the value reported was the practical quantitation limit for this sample using the method described. Concentrations of analyte, if present, below this were not quantifiable.

Reviewed by _____



Attachments: Sample Receipt Checklist
Chain of Custody
Chromatograms

ba

Client Name: MAXIM - Yakima
 Project No.: 95-932
 Laboratory No.: 177412
 Sample Name: MW-1
 Sample Date: 08/05/96
 Collected by: RODNEY L. HEIT
 Time Sampled: 1238
 Sample Type: WATER

PARAMETER	MEASURED VALUE	METHOD NUMBER	DATE ANALYZED
EPA METHOD 8020			
Data File Number-BETX	0809961017		
Benzene as rec'd	<1 ug/l	8260	08/09/96
Ethylbenzene as rec'd	<1 ug/l	8260	08/09/96
Toluene as rec'd	<1 ug/l	8260	08/09/96
Total Xylenes as rec'd	<1 ug/l	8260	08/09/96
HALOGENATED VOLATILE ORGANICS			
Data File Number-Volatiles	0809961017		
Bromobenzene	<1 ug/l	8260	08/09/96
Bromodichloromethane	<1 ug/l	8260	08/09/96
Bromoform	<1 ug/l	8260	08/09/96
Bromomethane	<1 ug/l	8260	08/09/96
Carbon Tetrachloride	<1 ug/l	8260	08/09/96
Chlorobenzene	<1 ug/l	8260	08/09/96
Chloroethane	<1 ug/l	8260	08/09/96
Chloroform	1 ug/l	8260	08/09/96
Chloromethane (Methyl chloride)	<1 ug/l	8260	08/09/96
Dibromochloromethane	<1 ug/l	8260	08/09/96
Dibromomethane	<1 ug/l	8260	08/09/96
Dichlorodifluoromethane	<1 ug/l	8260	08/09/96
1,2-Dichlorobenzene	<1 ug/l	8260	08/09/96
1,3-Dichlorobenzene	<1 ug/l	8260	08/09/96
1,4-Dichlorobenzene	<1 ug/l	8260	08/09/96
1,1-Dichloroethane	<1 ug/l	8260	08/09/96
1,2-Dichloroethane	<1 ug/l	8260	08/09/96
1,1-Dichloroethene	<1 ug/l	8260	08/09/96
c-1,2-Dichloroethene	<1 ug/l	8260	08/09/96
t-1,2-Dichloroethene	<1 ug/l	8260	08/09/96
1,2-Dichloropropane	<1 ug/l	8260	08/09/96
c-1,3-Dichloropropane	<1 ug/l	8260	08/09/96
t-1,3-Dichloropropane	<1 ug/l	8260	08/09/96
Methylene chloride	<5 ug/l	8260	08/09/96
1,1,1,2-Tetrachloroethane	<1 ug/l	8260	08/09/96
1,1,2,2-Tetrachloroethane	<1 ug/l	8260	08/09/96
Tetrachloroethene	<1 ug/l	8260	08/09/96
1,1,1-Trichloroethane	<1 ug/l	8260	08/09/96
1,1,2-Trichloroethane	<1 ug/l	8260	08/09/96
Trichloroethene	<1 ug/l	8260	08/09/96
Trichlorofluoromethane	<1 ug/l	8260	08/09/96
1,2,3-Trichloropropane	<1 ug/l	8260	08/09/96
Vinyl Chloride	<1 ug/l	8260	08/09/96

Client Name: MAXIM - Yakima
 Project No.: 95-932
 Laboratory No.: 177412
 Sample Name: MW-1
 Sample Date: 08/05/96
 Collected by: RODNEY L. HEIT
 Time Sampled: 1238
 Sample Type: WATER

PARAMETER	MEASURED VALUE		METHOD NUMBER	DATE ANALYZED
2-Chloroethyl vinyl ether	<10	ug/l	8260	08/09/96
1,2-Dichloroethane-d4 (Surrogate)	111	%	8260	08/09/96
Toluene-d8 (Surrogate)	103	%	8260	08/09/96
4-Bromofluorobenzene (Surrogate)	99	%	8260	08/09/96
TOTAL EXTRACTABLE HYDROCARBONS (DRO)				
Data File Number-TPH Extractable	81696058			
Extraction Date-TPH Extractable	8/12/96			
Total Extractable Hydrocarbons	<0.5	mg/l	DRO/8015	08/16/96
Diesel Range Organics	<0.3	mg/l	DRO	08/16/96
Diesel Range Organics as Diesel	<0.3	mg/l	DRO	08/16/96
TOTAL PURGEABLE HYDROCARBONS				
Data File Number-TPH Purgeable	fa703			
Total Purgeable Hydrocarbons	<0.2	mg/l	GRO/8015	08/15/96
Gasoline Range Organics	<0.2	mg/l	GRO	08/15/96
Gasoline Range Organics as Gasoline	<0.2	mg/l	GRO	08/15/96

Client Name: MAXIM - Yakima
 Project No.: 95-932
 Laboratory No.: 177413
 Sample Name: MW-2
 Sample Date: 08/05/96
 Collected by: RODNEY L. HEIT
 Time Sampled: 1330
 Sample Type: WATER

PARAMETER	MEASURED VALUE	METHOD NUMBER	DATE ANALYZED
EPA METHOD 8020			
Data File Number-BETX	0809961015		
Benzene as rec'd	<1 ug/l	8260	08/09/96
Ethylbenzene as rec'd	<1 ug/l	8260	08/09/96
Toluene as rec'd	<1 ug/l	8260	08/09/96
Total Xylenes as rec'd	<1 ug/l	8260	08/09/96
HALOGENATED VOLATILE ORGANICS			
Data File Number-Volatiles	0809961015		
Bromobenzene	<1 ug/l	8260	08/09/96
Bromodichloromethane	<1 ug/l	8260	08/09/96
Bromoform	<1 ug/l	8260	08/09/96
Bromomethane	<1 ug/l	8260	08/09/96
Carbon Tetrachloride	<1 ug/l	8260	08/09/96
Chlorobenzene	<1 ug/l	8260	08/09/96
Chloroethane	<1 ug/l	8260	08/09/96
Chloroform	1 ug/l	8260	08/09/96
Chloromethane (Methyl chloride)	<1 ug/l	8260	08/09/96
Dibromochloromethane	<1 ug/l	8260	08/09/96
Dibromomethane	<1 ug/l	8260	08/09/96
Dichlorodifluoromethane	<1 ug/l	8260	08/09/96
1,2-Dichlorobenzene	<1 ug/l	8260	08/09/96
1,3-Dichlorobenzene	<1 ug/l	8260	08/09/96
1,4-Dichlorobenzene	<1 ug/l	8260	08/09/96
1,1-Dichloroethane	<1 ug/l	8260	08/09/96
1,2-Dichloroethane	<1 ug/l	8260	08/09/96
1,1-Dichloroethene	<1 ug/l	8260	08/09/96
c-1,2-Dichloroethene	<1 ug/l	8260	08/09/96
t-1,2-Dichloroethene	<1 ug/l	8260	08/09/96
1,2-Dichloropropane	<1 ug/l	8260	08/09/96
c-1,3-Dichloropropane	<1 ug/l	8260	08/09/96
t-1,3-Dichloropropane	<1 ug/l	8260	08/09/96
Methylene chloride	<5 ug/l	8260	08/09/96
1,1,1,2-Tetrachloroethane	<1 ug/l	8260	08/09/96
1,1,2,2-Tetrachloroethane	<1 ug/l	8260	08/09/96
Tetrachloroethene	<1 ug/l	8260	08/09/96
1,1,1-Trichloroethane	<1 ug/l	8260	08/09/96
1,1,2-Trichloroethane	<1 ug/l	8260	08/09/96
Trichloroethene	<1 ug/l	8260	08/09/96
Trichlorofluoromethane	<1 ug/l	8260	08/09/96
1,2,3-Trichloropropane	<1 ug/l	8260	08/09/96
Vinyl Chloride	<1 ug/l	8260	08/09/96

Client Name: MAXIM - Yakima
 Project No.: 95-932
 Laboratory No.: 177413
 Sample Name: MW-2
 Sample Date: 08/05/96
 Collected by: RODNEY L. HEIT
 Time Sampled: 1330
 Sample Type: WATER

PARAMETER	MEASURED VALUE		METHOD NUMBER	DATE ANALYZED
2-Chloroethyl vinyl ether	<10	ug/l	8260	08/09/96
1,2-Dichloroethane-d4 (Surrogate)	99	%	8260	08/09/96
Toluene-d8 (Surrogate)	101	%	8260	08/09/96
4-Bromofluorobenzene (Surrogate)	97	%	8260	08/09/96
TOTAL EXTRACTABLE HYDROCARBONS (DRO)				
Data File Number-TPH Extractable	81696059			
Extraction Date-TPH Extractable	8/12/96			
Total Extractable Hydrocarbons	<0.5	mg/l	DRO/8015	08/16/96
Diesel Range Organics	<0.3	mg/l	DRO	08/16/96
Diesel Range Organics as Diesel	<0.3	mg/l	DRO	08/16/96
TOTAL PURGEABLE HYDROCARBONS				
Data File Number-TPH Purgeable	fa704			
Total Purgeable Hydrocarbons	<0.2	mg/l	GRO/8015	08/15/96
Gasoline Range Organics	<0.2	mg/l	GRO	08/15/96
Gasoline Range Organics as Gasoline	<0.2	mg/l	GRO	08/15/96

Client Name: MAXIM - Yakima
 Project No.: 95-932
 Laboratory No.: 177414
 Sample Name: MW-3
 Sample Date: 08/05/96
 Collected by: RODNEY L. HEIT
 Time Sampled: 1420
 Sample Type: WATER

PARAMETER	MEASURED VALUE	METHOD NUMBER	DATE ANALYZED
EPA METHOD 8020			
Data File Number-BETX	0809961016		
Benzene as rec'd	<1 ug/l	8260	08/09/96
Ethylbenzene as rec'd	<1 ug/l	8260	08/09/96
Toluene as rec'd	<1 ug/l	8260	08/09/96
Total Xylenes as rec'd	<1 ug/l	8260	08/09/96
HALOGENATED VOLATILE ORGANICS			
Data File Number-Volatiles	0809961016		
Bromobenzene	<1 ug/l	8260	08/09/96
Bromodichloromethane	<1 ug/l	8260	08/09/96
Bromoform	<1 ug/l	8260	08/09/96
Bromomethane	<1 ug/l	8260	08/09/96
Carbon Tetrachloride	<1 ug/l	8260	08/09/96
Chlorobenzene	<1 ug/l	8260	08/09/96
Chloroethane	<1 ug/l	8260	08/09/96
Chloroform	1 ug/l	8260	08/09/96
Chloromethane (Methyl chloride)	<1 ug/l	8260	08/09/96
Dibromochloromethane	<1 ug/l	8260	08/09/96
Dibromomethane	<1 ug/l	8260	08/09/96
Dichlorodifluoromethane	<1 ug/l	8260	08/09/96
1,2-Dichlorobenzene	<1 ug/l	8260	08/09/96
1,3-Dichlorobenzene	<1 ug/l	8260	08/09/96
1,4-Dichlorobenzene	<1 ug/l	8260	08/09/96
1,1-Dichloroethane	<1 ug/l	8260	08/09/96
1,2-Dichloroethane	<1 ug/l	8260	08/09/96
1,1-Dichloroethene	<1 ug/l	8260	08/09/96
c-1,2-Dichloroethene	<1 ug/l	8260	08/09/96
t-1,2-Dichloroethene	<1 ug/l	8260	08/09/96
1,2-Dichloropropane	<1 ug/l	8260	08/09/96
c-1,3-Dichloropropene	<1 ug/l	8260	08/09/96
t-1,3-Dichloropropene	<1 ug/l	8260	08/09/96
Methylene chloride	<5 ug/l	8260	08/09/96
1,1,1,2-Tetrachloroethane	<1 ug/l	8260	08/09/96
1,1,2,2-Tetrachloroethane	<1 ug/l	8260	08/09/96
Tetrachloroethene	<1 ug/l	8260	08/09/96
1,1,1-Trichloroethane	<1 ug/l	8260	08/09/96
1,1,2-Trichloroethane	<1 ug/l	8260	08/09/96
Trichloroethene	<1 ug/l	8260	08/09/96
Trichlorofluoromethane	<1 ug/l	8260	08/09/96
1,2,3-Trichloropropane	<1 ug/l	8260	08/09/96
Vinyl Chloride	<1 ug/l	8260	08/09/96

Client Name: MAXIM - Yakima
 Project No.: 95-932
 Laboratory No.: 177414
 Sample Name: MW-3
 Sample Date: 08/05/96
 Collected by: RODNEY L. HEIT
 Time Sampled: 1420
 Sample Type: WATER

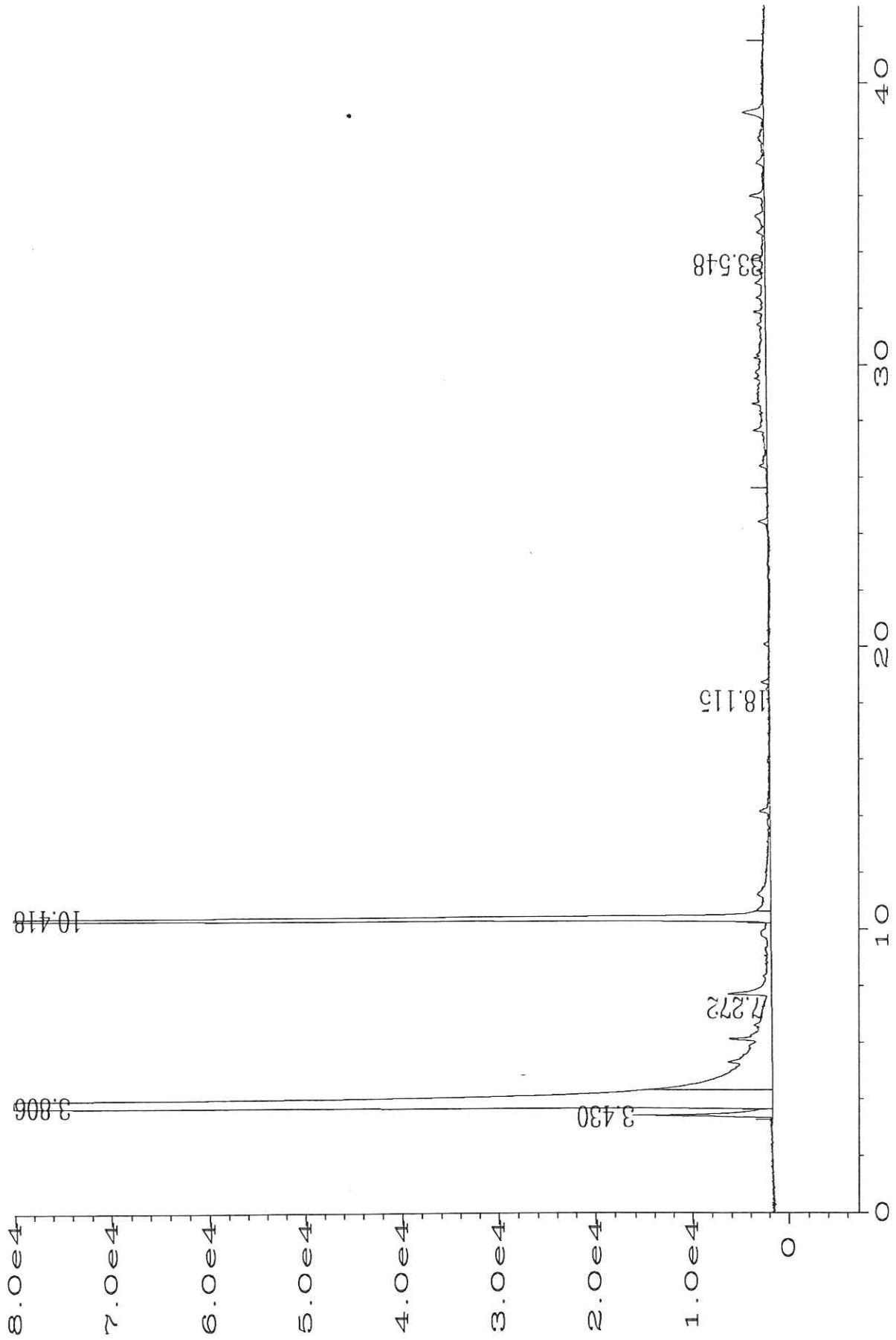
PARAMETER	MEASURED VALUE		METHOD NUMBER	DATE ANALYZED
2-Chloroethyl vinyl ether	<10	ug/l	8260	08/09/96
1,2-Dichloroethane-d4 (Surrogate)	97	%	8260	08/09/96
Toluene-d8 (Surrogate)	102	%	8260	08/09/96
4-Bromofluorobenzene (Surrogate)	96	%	8260	08/09/96
TOTAL EXTRACTABLE HYDROCARBONS (DRO)				
Data File Number-TPH Extractable	81696060			
Extraction Date-TPH Extractable	8/12/96			
Total Extractable Hydrocarbons	<0.5	mg/l	DRO/8015	08/16/96
Diesel Range Organics	<0.3	mg/l	DRO	08/16/96
Diesel Range Organics as Diesel	<0.3	mg/l	DRO	08/16/96
TOTAL PURGEABLE HYDROCARBONS				
Data File Number-TPH Purgeable	fa705			
Total Purgeable Hydrocarbons	0.3	mg/l	GRO/8015	08/15/96
Gasoline Range Organics	0.2	mg/l	GRO	08/15/96
Gasoline Range Organics as Gasoline	0.2	mg/l	GRO	08/15/96

Client Name: MAXIM - Yakima
 Project No.: 95-932
 Laboratory No.: 177415
 Sample Name: TRAVEL BLANK
 Sample Date: 08/05/96
 Collected by: RODNEY L. HEIT
 Time Sampled: 1155
 Sample Type: WATER

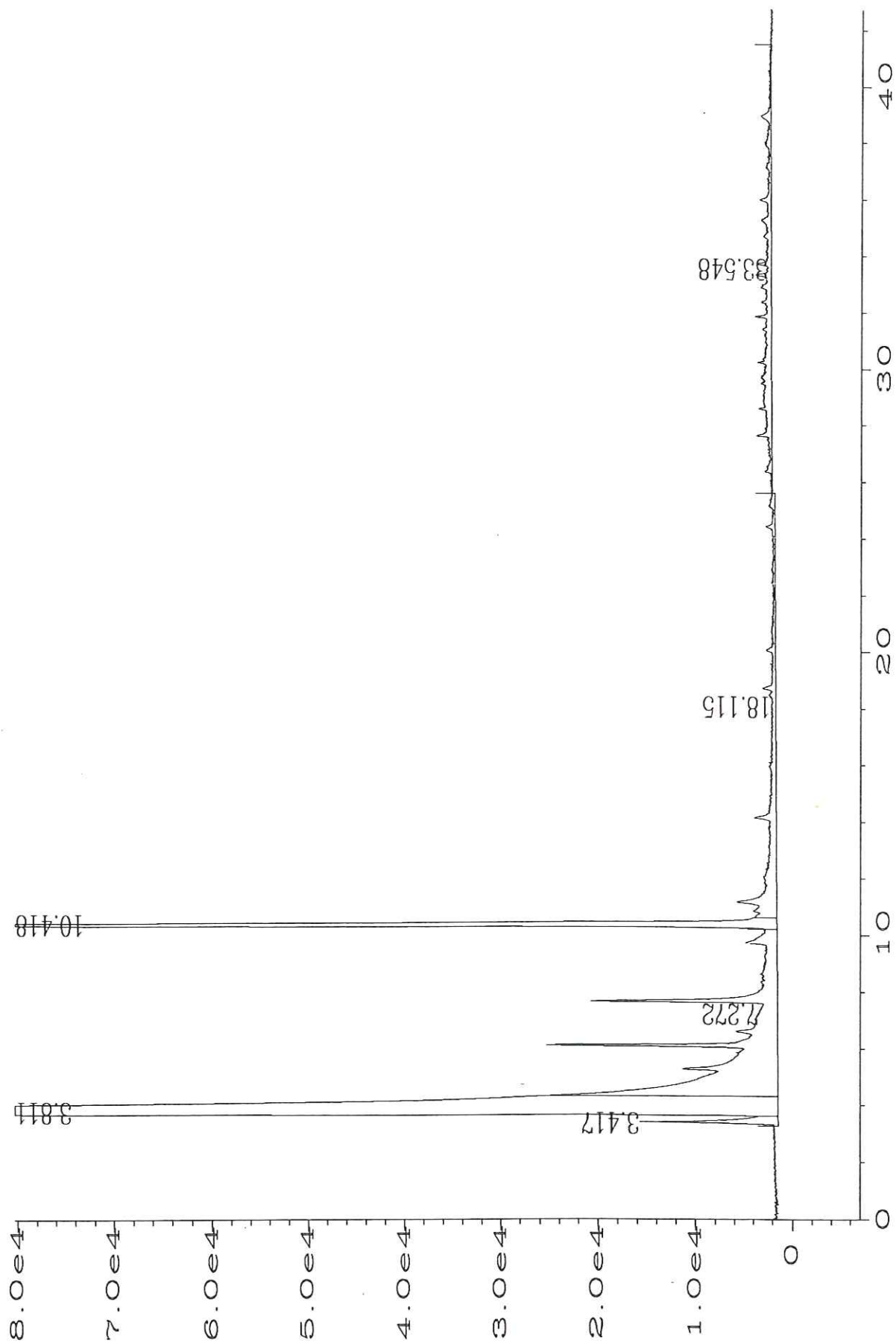
PARAMETER	MEASURED VALUE		METHOD NUMBER	DATE ANALYZED
EPA METHOD 8020				
Data File Number-BETX	f9462			
Benzene as rec'd	<1	mg/l	8020	08/15/96
Ethylbenzene as rec'd	<1	mg/l	8020	08/15/96
Toluene as rec'd	<1	mg/l	8020	08/15/96
Total Xylenes as rec'd	<3	mg/l	8020	08/15/96
TOTAL PURGEABLE HYDROCARBONS				
Data File Number-TPH Purgeable	fa706			
Total Purgeable Hydrocarbons	<0.2	mg/l	GRO/8015	08/15/96
Gasoline Range Organics	<0.2	mg/l	GRO	08/15/96
Gasoline Range Organics as Gasoline	<0.2	mg/l	GRO	08/15/96

ATTACHMENTS

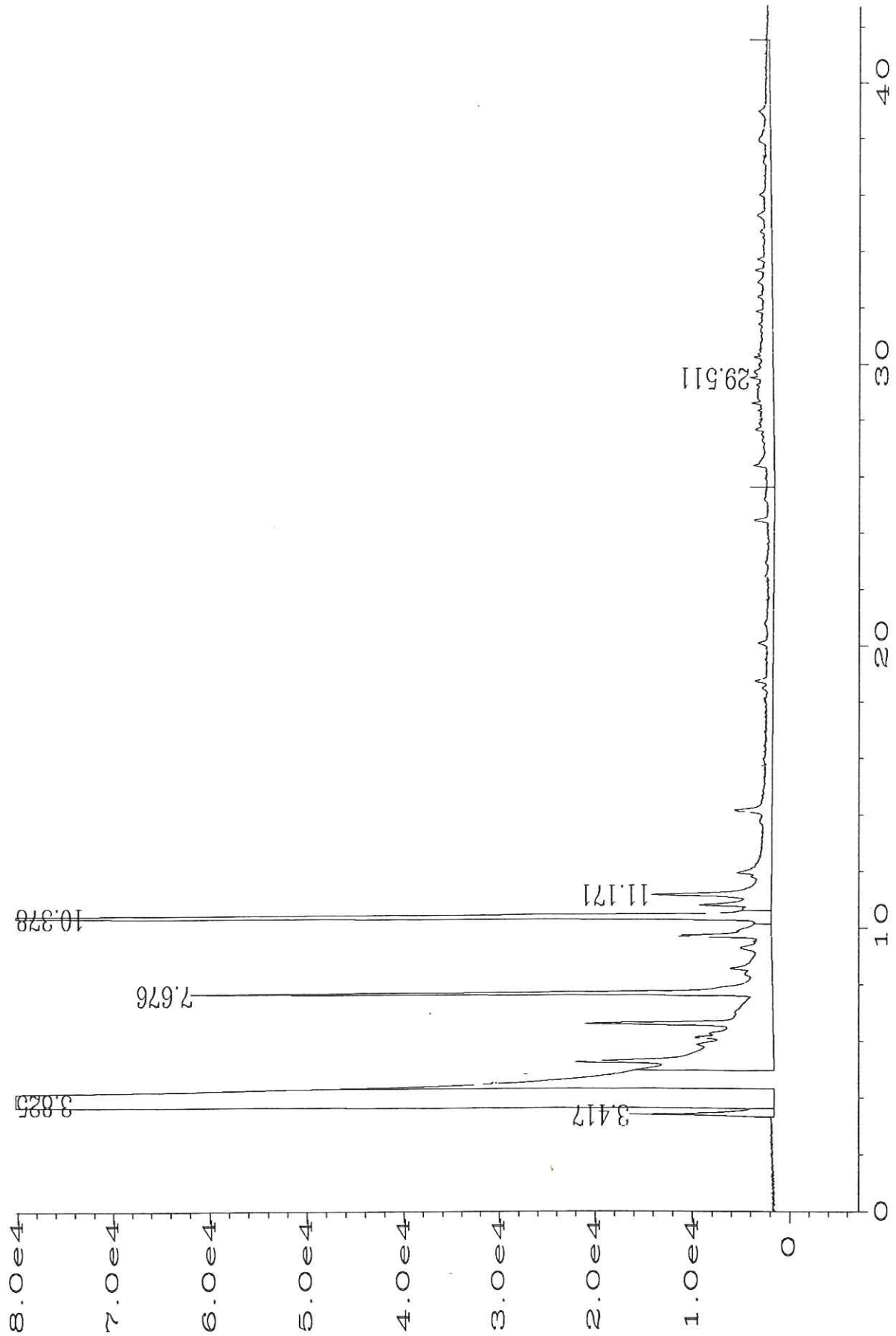
Sig. 1 in C:\HPCHEM\1\DATA\NV-Fa703.D



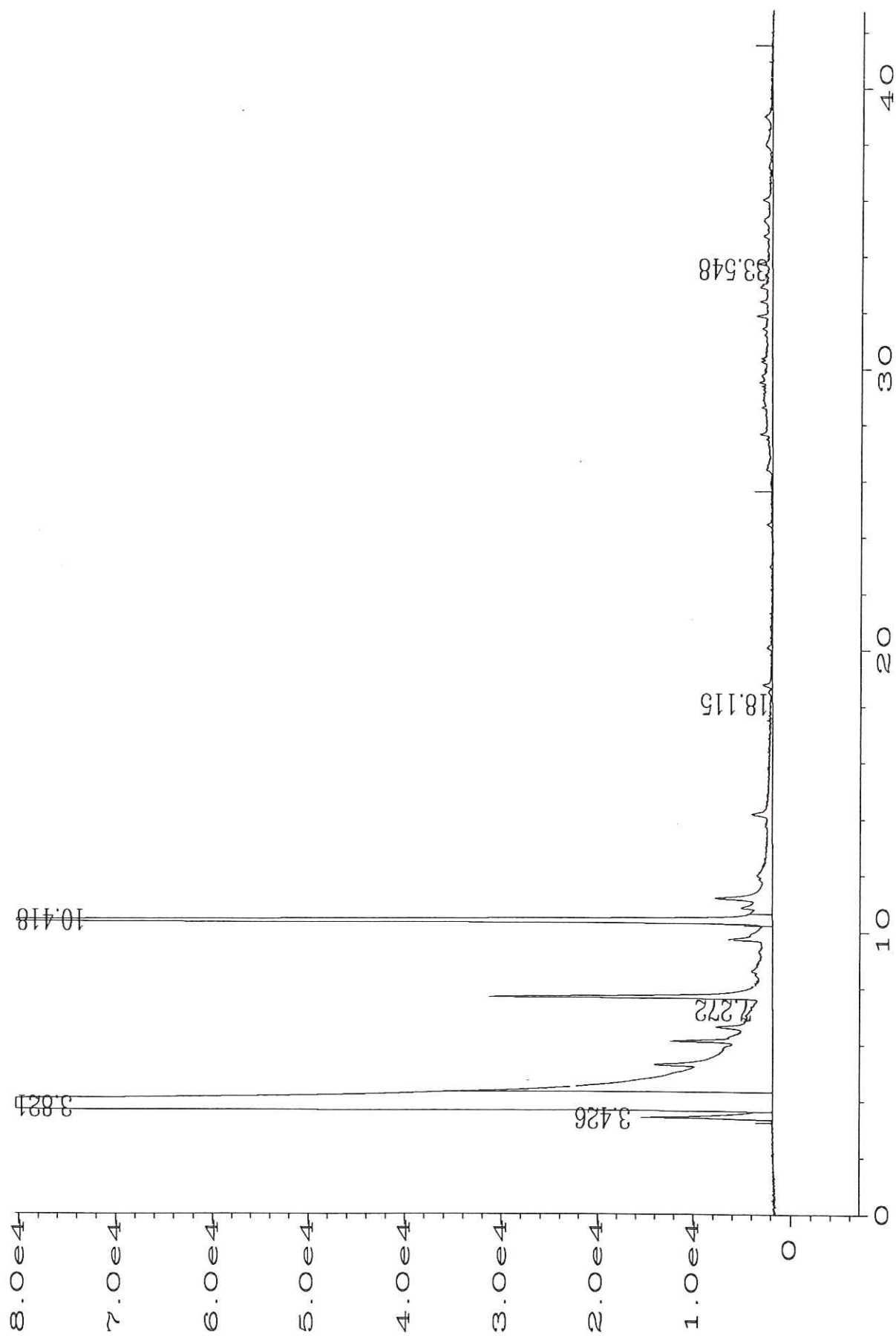
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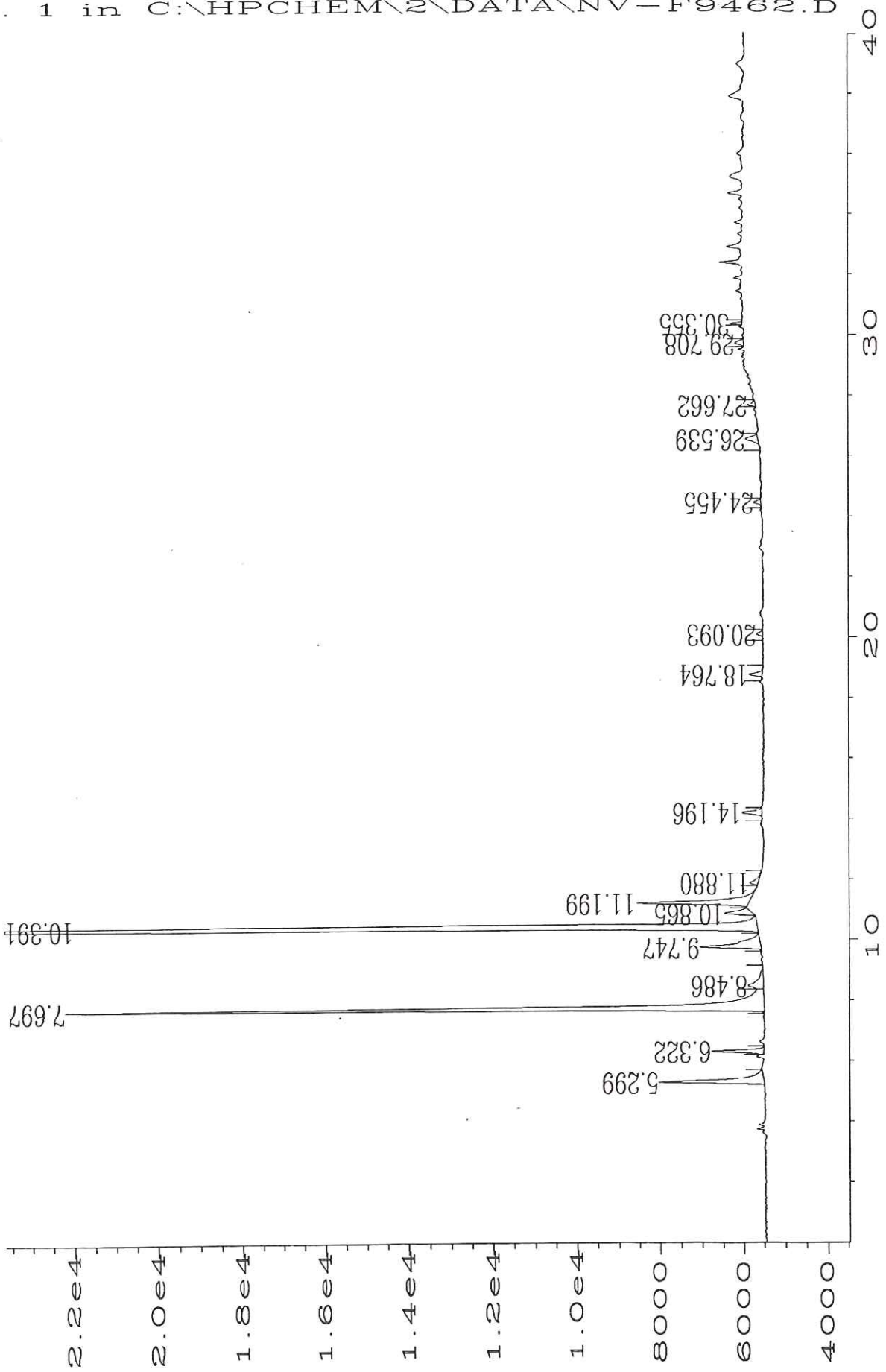
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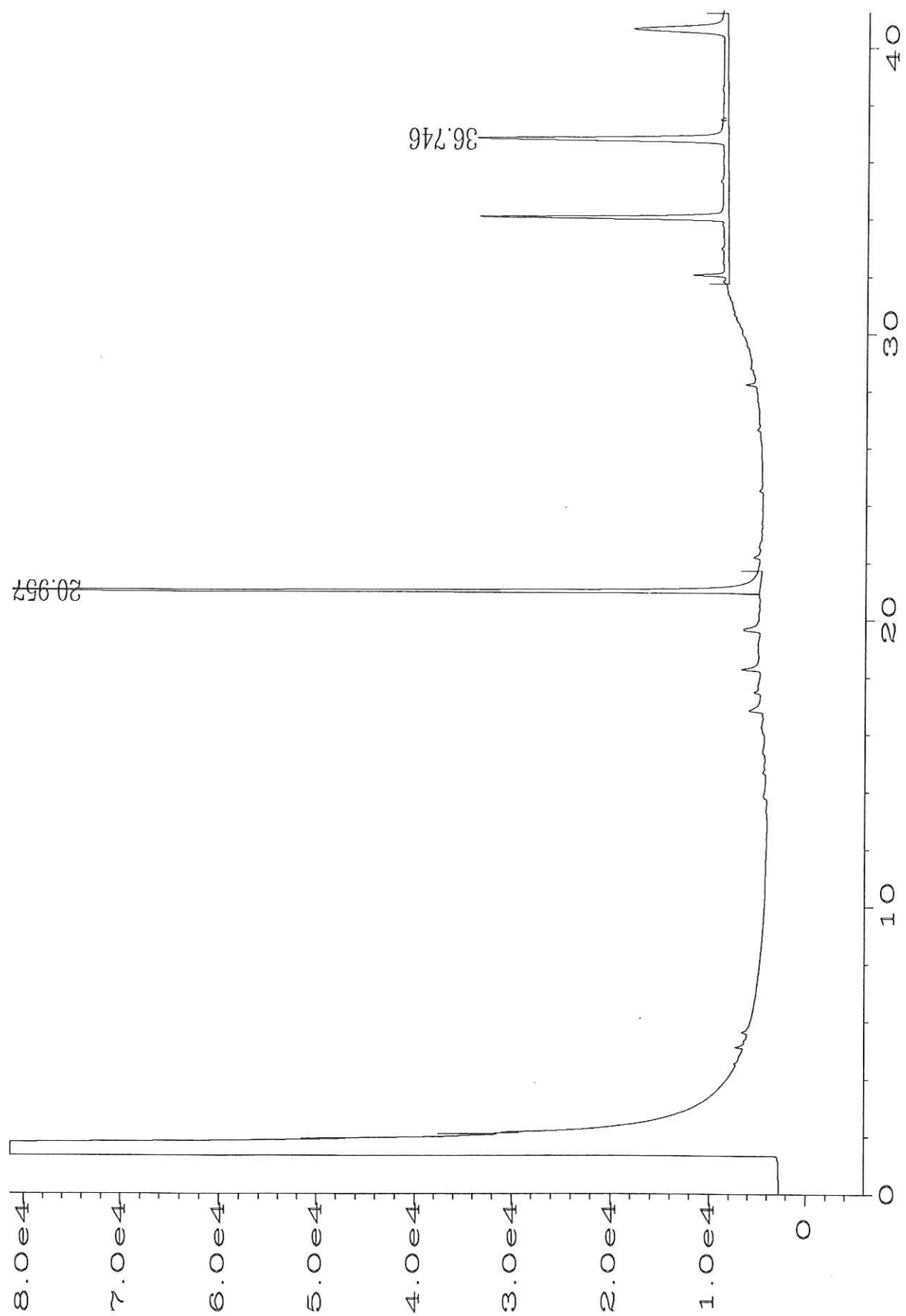


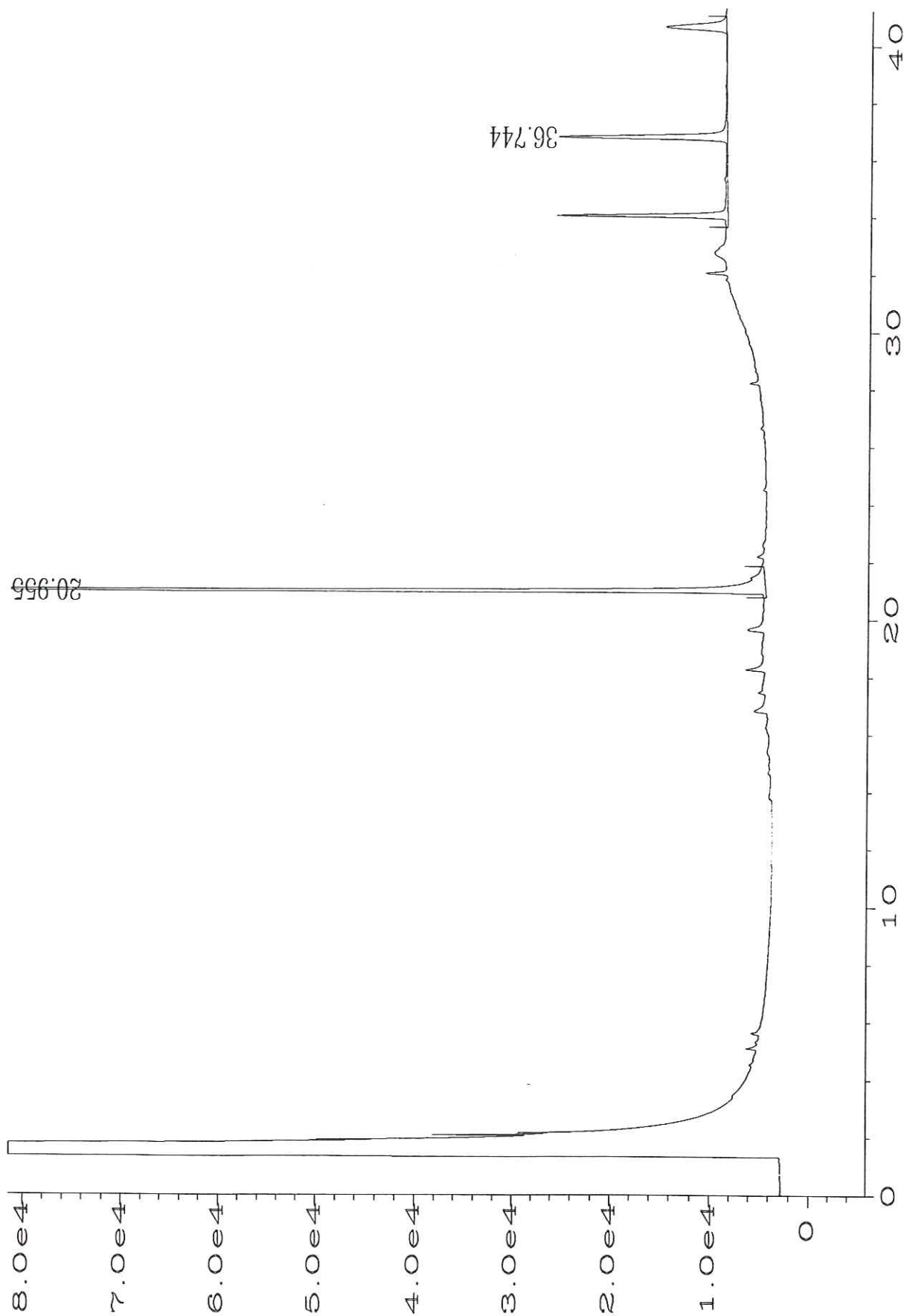
Sig. 1 in C:\HPCHEM\1\DATA\NV-Fa706.D



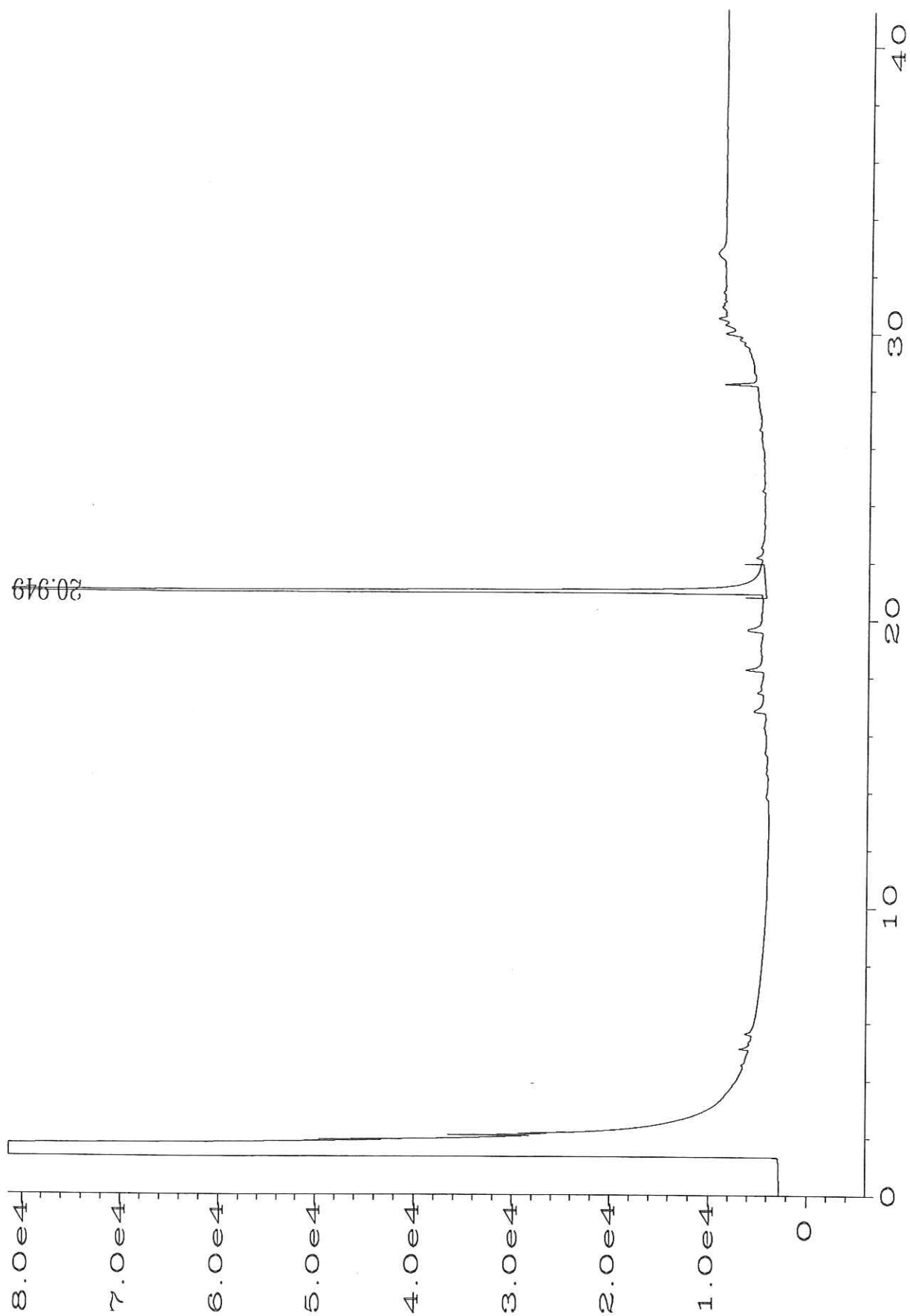
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Sig. 1 in C:\HPCHEM\1\DATA\081696\060F0101.D

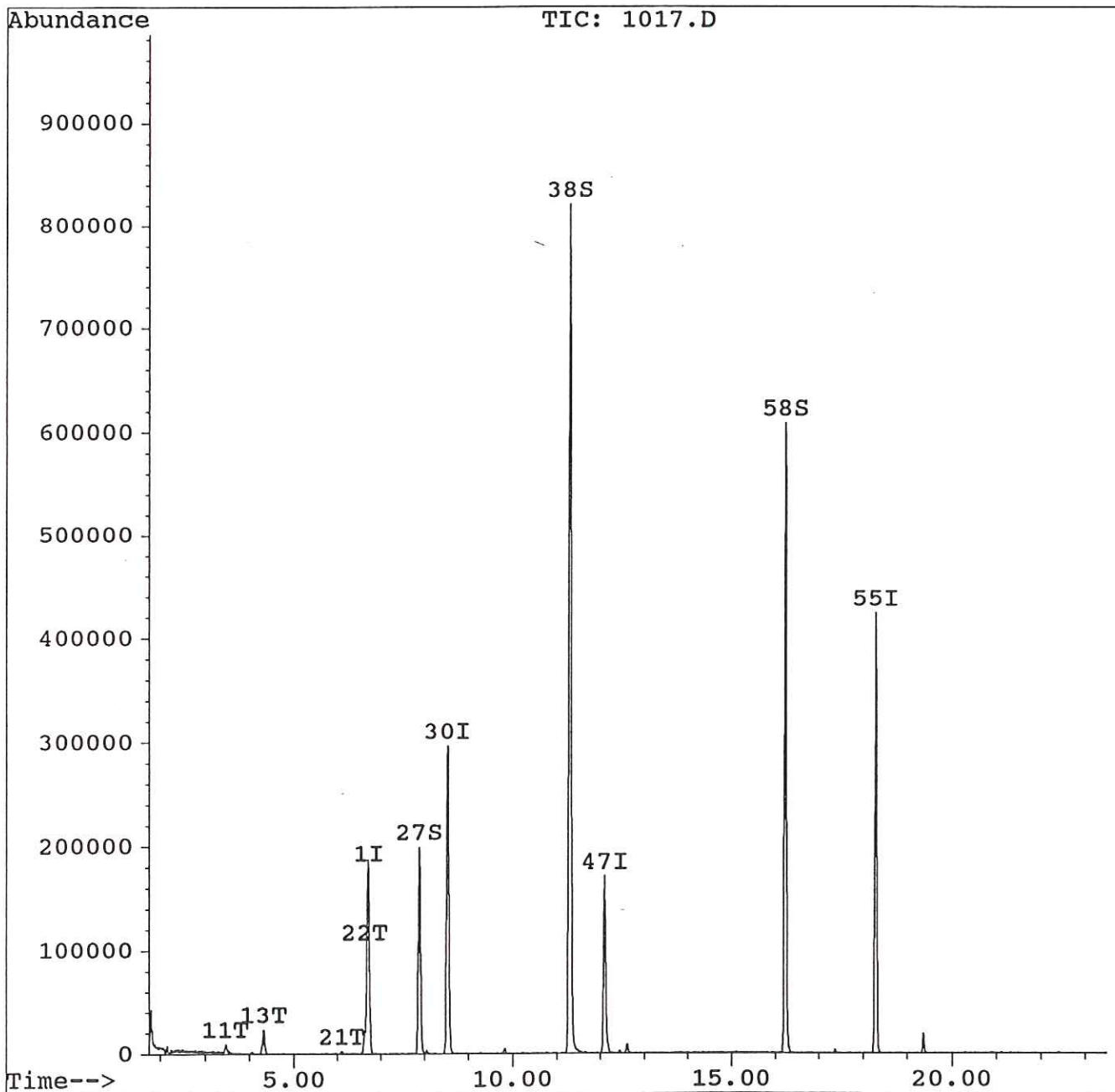


Quantitation Report

Data File : C:\HPCHEM\1\DATA\080996\1017.D
Acq Time : 9 Aug 96 6:22 pm
Sample : 177412 RE
Misc :
Quant Time: Aug 9 18:49 1996

Operator: GHP
Inst : GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\82600808.M
Title : 8260
Last Update : Fri Aug 09 10:45:39 1996
Response via : Single Level Calibration

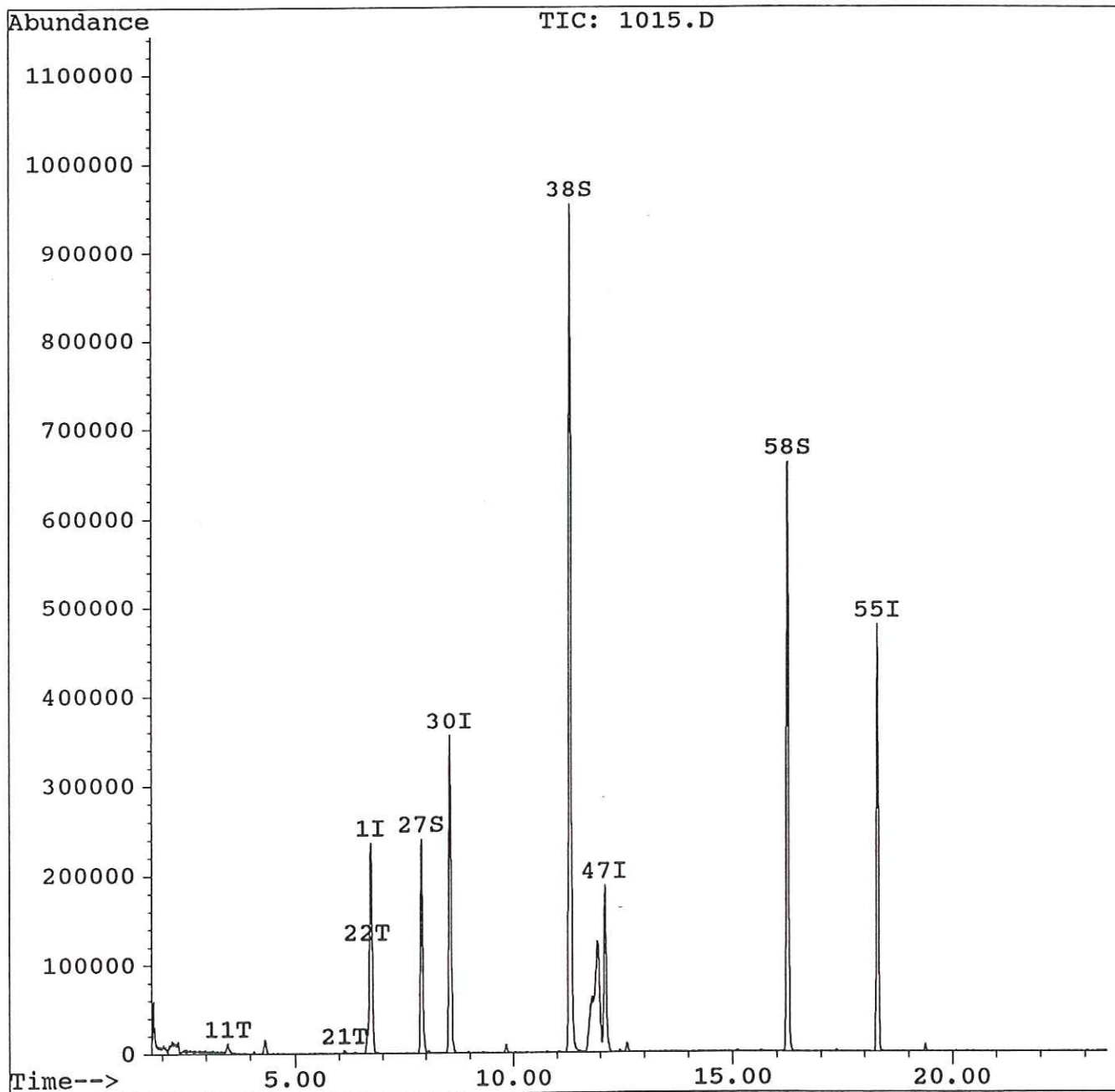


Quantitation Report

Data File : C:\HPCHEM\1\DATA\080996\1015.D
Acq Time : 9 Aug 96 5:18 pm
Sample : 177413
Misc :
Quant Time: Aug 9 17:45 1996

Operator: GHP
Inst : GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\82600808.M
Title : 8260
Last Update : Fri Aug 09 10:45:39 1996
Response via : Single Level Calibration

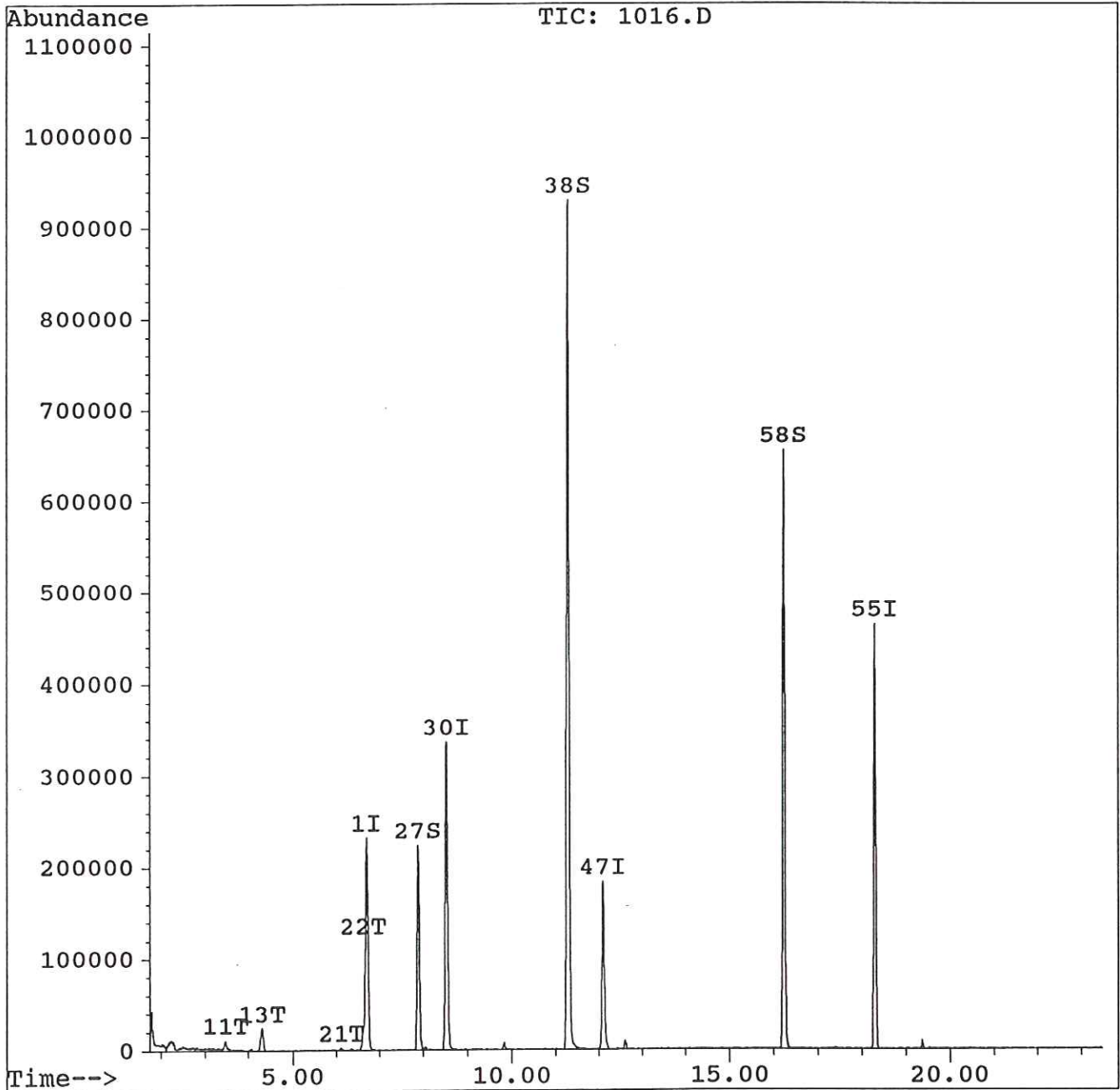


Quantitation Report

Data File : C:\HPCHEM\1\DATA\080996\1016.D
Acq Time : 9 Aug 96 5:50 pm
Sample : 177414
Misc :
Quant Time: Aug 9 18:17 1996

Operator: GHP
Inst : GC/MS
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\82600808.M
Title : 8260
Last Update : Fri Aug 09 10:45:39 1996
Response via : Single Level Calibration



Lovering

GROUNDWATER SAMPLING REPORT

Field Personnel Rodney Heit Date 8-5-96

Site Name LOVERING TIRE Site Location Front street E LINCOLN AVE
Weather: Cool Partial Sun

Time	Description
9:25	Leave ZILKAH OFFICE FOR MAXIM OFFICE YAKIMA, WA
	Meet Rachel discuss Sampling protocol
	Visit Police Station site observe wells 1-4
	Locations
	ARRIVE at Lovering Tire site Front street
	and Lincoln Ave observe well locations
	Purchase Ice from Conoco Station
	Return to site move car atop mw#1
12:05	Remove mw#1 Cover measure S.W.L.
12:18	Bail mw#1 Partial Cloudy NO odors observed
12:30	Finish Bail of (5 gallons)
12:38	Sample mw#1 2-40 ml VIALS FOR WTPH G
	2-40 ml VIALS FOR 8010
	1-liter FOR WTPH-D/418.1
12:40	Prepare labels and Pack ice
12:56	Close mw#1 move to mw#2
1:05	Open mw#2 Take H ₂ O SWL measurement
1:09	Bail mw#2 (5 gallons) Partial Cloudy
1:30	Sample mw#2 NO odors observed

Well Measurements

Time	Well Number	SWL	Temperature	pH	Conductivity
12:10	mw#1	13.51	—	—	—
12:38	mw#1	—	62° F	7.7	200µS
12:40					
1:08	mw#2	13.53	—	—	—
1:30	mw#2	—	61° F	8.0	180µS

GROUNDWATER SAMPLING REPORT

Field Personnel Rodney Heit Date 8/05/96

Site Name Lowering site Site Location Front Street @ Lincoln Ave.

Weather: Cool, Partial Sun

Time	Description
1:35	Label Samples Collected from mw #2
	take pH and Conductivity
1:50	Close mw #2 move Counter Clockwise
1:50	to mw #3 in lowering parking lot
1:58	Open mw #3 take H ₂ O measurement
2:05	Prepare and Bail mw #3 Bail 5 gallons
	No odors observed, partial Cloudy to Clear.
2:20	Sample MW #3 Prepare sample labels
	Final Sample Packaging for Transport
2:50pm	LEAVE LOWERING SITE FOR ZILLAH OFFICE
	(owner of site wants to B.S.
	I know what your talking about
	Rachel. Thank you very much you sure
	have some interesting sites!!!!
	<i>Rodney Heit</i>

Well Measurements

Time	Well Number	SWL	Temperature	pH	Conductivity
1:58	MW #3	12.04	—————	—————	—————
2:20	MW #3	—————	61°F	8.0	180µS

SAMPLE RECEIPT CHECKLIST

Client Name M-Yakima
 Project Lowering
 Laboratory number(s) _____
 Checklist completed by: SE 8/7/96
Initials / Date

Date/Time Received 8/7/96 10:10
Date Time
 Received by GC
 Carrier name UPS
 Sample Type Water

- | | YES | NO | | YES | NO |
|--|-------------------------------------|--------------------------|---|-------------------------------------|--------------------------|
| 1. Shipping container in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 16. All samples rec'd within holding time? | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody seals present on shipping container? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <u>Preservation</u> | | |
| 3. Condition: Intact <input checked="" type="checkbox"/> Broken <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 17. pH check performed by: <u>CS</u> | | |
| 4. Chain of custody present? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 18. Metals bottle(s) pH <2? | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Chain of custody signed when relinquished and received? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 19. Nutrient bottle(s) pH <2? | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. Chain of custody agrees with sample labels? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 20. Cyanide bottle(s) pH >12? | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. Custody seals on sample bottles? | <input type="checkbox"/> | <input type="checkbox"/> | 21. Sulfide bottle(s) pH >9? | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. Condition: Intact _____ Broken _____ | <input type="checkbox"/> | <input type="checkbox"/> | 22. Oil & grease bottle(s) pH <2? | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. Samples in proper container/bottle? | <input type="checkbox"/> | <input type="checkbox"/> | 23. TOC bottle(s) pH <2? | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. Samples intact? | <input type="checkbox"/> | <input type="checkbox"/> | 24. DRO/418.1 bottle(s) pH <2? | <input type="checkbox"/> | <input type="checkbox"/> |
| 11. Sufficient sample volume for indicated test? | <input type="checkbox"/> | <input type="checkbox"/> | 25. Phenolics bottle(s) pH <2? | <input type="checkbox"/> | <input type="checkbox"/> |
| 12. VOA vials have zero headspace? | <input type="checkbox"/> | <input type="checkbox"/> | 26. Volatiles (VOA) pH <2?
(VOA pH checked by analyst) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 13. Trip Blank received? | <input type="checkbox"/> | <input type="checkbox"/> | 27. Client contacted? | <input type="checkbox"/> | <input type="checkbox"/> |
| 14. Ice/Frozen Blue Ice present in shipping container? (circle one) | <input type="checkbox"/> | <input type="checkbox"/> | 28. Person contacted | _____ | |
| 15. Container temperature 1. _____ 2. _____ 3. _____ | | | 29. Date contacted | _____ | |
| | | | 30. Contacted by | _____ | |
| | | | 31. Regarding? | _____ | |

Note: Samples may be affected when not transported at the temperature recommended by the EPA for the test you've selected. Please contact the lab if you have concerns about the temperature of your samples.

COMMENTS: _____

CHAIN OF CUSTODY RECORD ¹⁸



Contact or Report to
Rachel Tamm
 PH
 (509) 577-8592
 Contact Address or Location
Rodney L Heit
 Sampler Signature

- Billings, MT
- Helena, MT
- Boise, ID
- Missoula, MT
- Great Falls, MT
- Yakima, WA

Project or Site Name
Loving
 Project Number
666.04
 Sampler Name (Printed)
RODNEY L HEIT

DATE COLLECTED	TIME COLLECTED	SAMPLE LOCATION OR DESCRIPTION	COMP OR GRAB	SAMPLE MATRIX	NO. OF CONTAINERS	ANALYSIS REQUIRED				NOTES	LAB NUMBER
						TPH-D	TPH-G	TPH-O	TPH-P		
8/05/96	12:38PM	MW-1	Grab	Water	1 Liter 2 40 ML V	X	X	X	X		17412
8/05/96	1:30PM	MW-2				X	X	X	X		13
8/05/96	2:20PM	MW-3				X	X	X	X		14
8/05/96	11:55AM	Travel blank			2 40ML	X					15
<p>Blind Duplicate sent in with coke billed Police Station Project</p> <p>TPH-D</p> <p>TPH-G</p> <p>TPH-O</p> <p>TPH-P</p> <p>Remarks: Analysis 8/10 - 2 40 ML TPH-G 2 40 ML TPH-D/Dext. 1 Liter Travel blank - 2 40ML HCL - ADDED</p>											
Relinquished by:		<u>Rodney L Heit</u>	Date	8/6/96	Time	11:30	Received by:	UPS AIR			
Relinquished by:		UPS	Date	8/9/96	Time	10:00	Received by:	<u>[Signature]</u>			
Relinquished by:			Date		Time		Received by:				
Relinquished by:			Date		Time		Received by:				

LOVERING GOODYEAR PROJECT

Yakima, Washington
 Maxim Technologies, Inc.
 Project#: 5609500616

Gasoline, Diesel and Oil in Water by WTPH-G and WTPH-D/D-Extended

Sample Number	Date	Recovery %	Gasoline ug/l	Diesel ug/l	Heavy Oil ug/l
Meth. Blank	02/22/96	97	nd	nd	nd
MW-1	02/22/96	97	nd	nd	nd
MW-1 Dup	02/22/96	99	nd	nd	nd
MW-2	02/22/96	103	nd	nd	nd
MW-3	02/22/96	101	2420	nd	nd
MDL			100	200	400

"nd" Indicates not detected at the listed detection limit.

"int" Indicates that interference peaks prevent determination.

=====

LOVERING GOODYEAR PROJECT

Yakima, Washington

MAXIM Technologies

Project#: 5609500616

Specific Halogenated Hydrocarbons and BTEX (Mod. EPA 8010/8020) in Water

Sample-Number	MDL	Method Blank	MW-01	MW-02	MW-03
Date	ug/l	02/23/96 ug/l	02/23/96 ug/l	02/23/96 ug/l	02/23/96 ug/l
Vinylchloride	1	nd	nd	nd	nd
1,1 Dichloroethene	1	nd	nd	nd	nd
Trans-1,2 Dichloroethene	1	nd	nd	nd	nd
Cis-1,2 Dichloroethene	1	nd	nd	nd	nd
Benzene	1	nd	nd	nd	28
Trichloroethene	1	nd	nd	nd	nd
Toluene	1	nd	nd	nd	45
Tetrachloroethene	1	nd	1	1	1
Ethylbenzene	1	nd	nd	nd	13
m,p-Xylene	1	nd	nd	nd	74
o-Xylene	1	nd	nd	nd	29
Dichloromethane	1	nd	nd	nd	nd
1,1 Dichloroethane	1	nd	nd	nd	nd
1,2 Dichloroethane	1	nd	nd	nd	nd
Chloroform	1	nd	2	2	2
Carbon Tetrachloride	1	nd	nd	nd	nd
1,1,1 Trichloroethane	1	nd	nd	nd	nd
1,1,2 Trichloroethane	1	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd
Spike Recovery (%)		90	99	91	106

"nd" Indicates Not Detected at the listed detection limit.

"int" Indicates that interference peaks prevent determination.

LOVERING GOODYEAR PROJECT
 Yakima, Washington
 Maxim Technologies, Inc.
 Project#: 5609500616

Specific Halogenated Hydrocarbons and BTEX (Mod. EPA 8010/8020) in Water

Sample-Number	MDL	50 PPB MS	50 PPB MSD
Date		02/23/96	02/23/96
	ug/l	ug/l	ug/l
Vinylchloride	1	43	43
1,1 Dichloroethene	1	57	55
Trans-1,2 Dichloroethene	1	51	47
Cis-1,2 Dichloroethene	1	48	55
Benzene	1	54	53
Trichloroethene	1	44	49
Toluene	1	57	55
Tetrachloroethene	1	51	55
Ethylbenzene	1	55	45
m,p-Xylene	1	85	83
o-Xylene	1	50	51
Dichloromethane	1	49	43
1,1 Dichloroethane	1	48	47
1,2 Dichloroethane	1	55	48
Chloroform	1	45	50
Carbon Tetrachloride	1	57	45
1,1,1 Trichloroethane	1	54	52
1,1,2 Trichloroethane	1	52	52
1,1,1,2-Tetrachloroethane	1	57	53
1,1,2,2-Tetrachloroethane	1	52	53
Spike Recovery (%)		104	89

"nd" Indicates Not Detected at the listed detection limit.

"int" Indicates that interference peaks prevent determination.

GROUNDWATER SAMPLING LOG

Project: Louving Coodyear Date/Time: 2-20-96/0930 Station No. MW-1
 Narrative Description: Near southeast corner of parking lot.
 Personnel: Rob Farrell Weather: Cool & windy; sunny
 Well Locked? Yes No Well Log? Yes No
 Condition of Well: Good
 Casing Type: PVC Casing Diameter: 2"
 Casing Stickup: Flush mount Measuring Point Description: TOC
 Aquifer: _____
 Depth to Water (feet below measuring point): 18.12 ft

WELL EVACUATION

Method: Positive Displacement Pump Hand-Lift Pump Submersible Pump SST Bailer PVC Bailer Teflon Bailer Other: _____
 One Bore Volume = 1.05 Gallons

Remarks: _____

EVACUATION DATA

Time	Cumulative Gallons	Temp	pH	SC	Other
<u>1000 hrs</u>	<u>3.25</u>	<u>15°C</u>	<u>6.9</u>	<u>240 μS</u>	

WELL SAMPLING

Sampling Method: Stainless Steel Bailer Sample Type: Natural Replicate X-Contam Trip Blank Blind Field Sta.

SC DATA

Water Temp.	Observed SC (μmhos)	Temp. Correction Factor	Cell Factor	SC = (2) x (3) x (4) μmhos/cm @ 25°C Compensated SC
(1)	(2)	(3)	(4)	

Sample Container	Parameters	Preservative
<u>MW-1</u>	<u>TPH-C</u>	<u>HCl</u>
<u>MW-1</u>	<u>TPH-D + Dext</u>	↓
<u>Blind Duplicate</u>	<u>2010/2020</u>	↓

Laboratory: TEG Lab Chain-of-Custody: Yes No

Sample Analysis Request Form: Yes No

Meter	Serial No.	Calibration Date	Decontamination	
pH			Steam: Yes <input type="checkbox"/> No <input type="checkbox"/>	Potable Water: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
SC			Scrub: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Liquinox: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
M-Scope			Methanol: Yes <input type="checkbox"/> No <input type="checkbox"/>	Acetone: Yes <input type="checkbox"/> No <input type="checkbox"/>
			Nitric Acid: Yes <input type="checkbox"/> No <input type="checkbox"/>	

Comments: _____

GROUNDWATER SAMPLING LOG

Project: Lowering groundwater Date/Time: 2-20-96/1100 Station No. MW-2
 Narrative Description: At edge of alley on east side of building
 Personnel: Bob Farrell Weather: Cool & Windy, Sunny
 Well Locked? Yes No Well Log? Yes No
 Condition of Well: Good
 Casing Type: PVC Casing Diameter: 2"
 Casing Stickup: Flush Mount Measuring Point Description: TOC
 Aquifer: _____
 Depth to Water (feet below measuring point): 19.0 ft

WELL EVACUATION

Method: Positive Displacement Pump Hand-Lift Pump Submersible Pump SST Bailer PVC Bailer Teflon Bailer Other: _____
 One Bore Volume = 0.90 Gallons

Remarks: _____

EVACUATION DATA

Time	Cumulative Gallons	Temp	pH	SC	Other
<u>1115 hrs</u>	<u>2.75</u>	<u>14°C</u>	<u>6.9</u>	<u>340 µS</u>	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

WELL SAMPLING

Sampling Method: Stainless Steel Bailer Sample Type: Natural Replicate X-Contam Trip Blank Blind Field Sta.

SC DATA

Water Temp.	Observed SC (µmhos)	Temp. Correction Factor	Cell Factor	SC = (2) x (3) x (4) µmhos/cm @ 25°C Compensated SC
(1)	(2)	(3)	(4)	
_____	_____	_____	_____	_____

Temperature _____ pH: _____ Other: _____

Sample Container	Parameters	Preservative
<u>MW-2</u>	<u>TPH-C</u>	<u>HCl</u>
<u>MW-2</u>	<u>TPH-D & Dext</u>	<u>↓</u>
_____	<u>8010/S020</u>	_____
_____	_____	_____
_____	_____	_____

Laboratory: TEC Lab Chain-of-Custody: Yes No

Sample Analysis Request Form: Yes No

Meter	Serial No.	Calibration Date	Decontamination	
pH	_____	_____	Steam: Yes <input type="checkbox"/> No <input type="checkbox"/>	Potable Water: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
SC	_____	_____	Scrub: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Liquinox: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
M-Scope	_____	_____	Methanol: Yes <input type="checkbox"/> No <input type="checkbox"/>	Acetone: Yes <input type="checkbox"/> No <input type="checkbox"/>
			Nitric Acid: Yes <input type="checkbox"/> No <input type="checkbox"/>	

Comments: _____

GROUNDWATER SAMPLING LOG

Project: Louving Goodyear Date/Time: 2-20-96/1030 Station No. MW-3
 Narrative Description: Near Center of Parking Lot
 Personnel: Rob Farrell Weather: Cool & Windy; Sunny
 Well Locked? Yes No Well Log? Yes No
 Condition of Well: Good
 Casing Type: PVC Casing Diameter: 2"
 Casing Stickup: Flush Mount Measuring Point Description: TOC
 Aquifer: _____
 Depth to Water (feet below measuring point): 16.98

WELL EVACUATION

Method: Positive Displacement Pump Hand-Lift Pump Submersible Pump SST Bailer PVC Bailer Teflon Bailer Other: _____
 One Bore Volume = 1.22 Gallons

Remarks: _____

EVACUATION DATA

Time	Cumulative Gallons	Temp	pH	SC	Other
<u>1045 hrs</u>	<u>3.75</u>	<u>14°C</u>	<u>7.1</u>	<u>210MS</u>	

WELL SAMPLING

Sampling Method: Stainless Steel Bailer Sample Type: Natural Replicate X-Contam Trip Blank Blind Field Sta.

SC DATA

Water Temp.	Observed SC (µmhos)	Temp. Correction Factor	Cell Factor	SC = (2) x (3) x (4) µmhos/cm @ 25°C Compensated SC
(1)	(2)	(3)	(4)	

Temperature _____ pH: _____ Other: _____

Sample Container	Parameters	Preservative
<u>MW-3</u>	<u>TPH-C</u>	
<u>MW-3</u>	<u>TPH-D & D_{ext}</u>	
	<u>8010/8020</u>	

Laboratory: TEG Lab Chain-of-Custody: Yes No

Sample Analysis Request Form: Yes No

Meter	Serial No.	Calibration Date	Decontamination	
pH			Steam: Yes <input type="checkbox"/> No <input type="checkbox"/>	Potable Water: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
SC			Scrub: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Liquinox: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
M-Scope			Methanol: Yes <input type="checkbox"/> No <input type="checkbox"/>	Acetone: Yes <input type="checkbox"/> No <input type="checkbox"/>
			Nitric Acid: Yes <input type="checkbox"/> No <input type="checkbox"/>	

Comments: _____

Project or Site Name Lowering Good Year

Project Number 5609500616

Sampler Name (Printed) Rob Farrell

CHAIN OF CUSTODY RECORD

Huntingdon
Consulting Engineers Environmental Scientists

- Chen-Northern, Inc., Division
- Thomas-Hartig & Associates, Inc., Division
- Schaefer Dixon Associates, Inc., Division
- Herzog Associates, Inc., Division

Contact or Report to Rebel Turner

Contact Address or Location PO Box 2887 Yakima WA 98907

Sampler Signature Rob Farrell

DATE COLLECTED	TIME COLLECTED	SAMPLE LOCATION OR DESCRIPTION	COMP OR GRAB	SAMPLE MATRIX	NO. OF CONTAINERS	ANALYSIS REQUIRED				NOTES	LAB NUMBER
						TPH-G	TPH-D/D	8010/8020			
2-20-96	1000	MU-1	Grab	HD	3	X	X	X			
	1115	MU-2	↓	↓	2	↓	↓	↓			
	1045	MU-3	↓	↓	2	↓	↓	↓			
Relinquished by: <u>Rob Farrell</u> Date: <u>2-21-96</u> Time: <u>1500</u> Received by: _____											
Relinquished by: _____ Date: <u>2-22-96</u> Time: <u>1130</u> Received by: <u>Sam DeSt.</u>											
Relinquished by: _____ Date: _____ Time: _____ Received by: _____											
Remarks: <u>Shipped w/ Police Station</u> <u>TPH-G</u> <u>TPH-D & D/Evt</u> <u>8010/8020</u> <u>TRIP blank + blind.</u> <u>dup on Police station job</u>											

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST INC.

LOVERING GOODYEAR PROJECT
 Yakima, Washington
 Maxim Technology, Inc.
 Project No.: 5609500616

Specific Halogenated Hydrocarbons and BTEX (Mod. EPA 8010/8020) in Water

Sample-Number	MDL	Method Blank	MW-1	MW-2	MW-3	MW-3 Dup
Date		11/22/95	11/22/95	11/22/95	11/22/95	11/22/95
	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Vinylchloride	1	nd	nd	nd	nd	nd
1,1 Dichloroethene	1	nd	nd	nd	nd	nd
Trans-1,2 Dichloroethene	1	nd	nd	nd	nd	nd
Cis-1,2 Dichloroethene	1	nd	nd	nd	nd	nd
Benzene	1	nd	nd	nd	nd	nd
Trichloroethene	1	nd	nd	nd	nd	nd
Toluene	1	nd	nd	nd	nd	nd
Tetrachloroethene	1	nd	nd	nd	nd	nd
Ethylbenzene	1	nd	nd	nd	nd	nd
m,p-Xylene	1	nd	nd	nd	nd	nd
o-Xylene	1	nd	nd	nd	nd	nd
Dichloromethane	1	nd	nd	nd	nd	nd
1,1 Dichloroethane	1	nd	nd	nd	nd	nd
1,2 Dichloroethane	1	nd	nd	nd	nd	nd
Chloroform	1	nd	nd	nd	nd	nd
Carbon Tetrachloride	1	nd	nd	nd	nd	nd
1,1,1 Trichloroethane	1	nd	nd	nd	nd	nd
1,1,2 Trichloroethane	1	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd
Spike Recovery (%)		106	103	102	89	86

"nd" Indicates Not Detected at the listed detection limit.

"int" Indicates that interference peaks prevent determination.

LOVERING GOODYEAR PROJECT

Yakima, Washington

Maxim Technology, Inc.

Project No.: 5609500616

Gasoline, Diesel and Oil in Water by WTPH-G and WTPH-D/D-Extended

Sample Number	Date	Recovery %	Gasoline ug/l	Diesel ug/l	Heavy Oil ug/l
Meth. Blank	11/22/95	110	nd	nd	nd
MW-1	11/22/95	107	nd	nd	nd
MW-2	11/22/95	95	nd	nd	nd
MW-3	11/22/95	92	nd	nd	nd
MW-3 Dup	11/22/95	94	nd	nd	nd
MDL			100	200	400

"nd" Indicates not detected at the listed detection Limit.

"int" Indicates that interference peaks prevent determination.

GROUNDWATER SAMPLING LOG

Project: Western Indiana Inc Date/Time: 11-20-05 1:05 Station No. MW-1
 Narrative Description: _____
 Personnel: W. Small Weather: Sunny / cool
 Well Locked? Yes No Well Log? Yes No
 Condition of Well: Good
 Casing Type: PVC Casing Diameter: 2"
 Casing Stickup: Just normal Measuring Point Description: TCC
 Aquifer: _____
 Depth to Water (feet below measuring point): 17.11 ft total depth 24.55 ft

WELL EVACUATION

Method: Positive Displacement Pump Hand-Lift Pump Submersible Pump SST Bailer PVC Bailer Teflon Bailer Other: _____
 One Bore Volume = 1.21 Gallons

Remarks: Evacuated 16 bailers; tested parameters, removed another gal & verified parameters

EVACUATION DATA

Time	Cumulative Gallons	Temp	pH	SC	Other
<u>1:00</u>					
<u>1:15</u>	<u>3.63</u>	<u>15</u>	<u>6.9</u>	<u>200us</u>	
<u>1:30</u>	<u>4.63</u>	<u>15</u>	<u>6.8</u>	<u>190</u>	

WELL SAMPLING

Sampling Method: Stainless Steel Bailer Sample Type: Natural Replicate X-Contam Trip Blank Blind Field Sta.

SC DATA

Water Temp.	Observed SC (µmhos)	Temp. Correction Factor	Cell Factor	SC = (2) x (3) x (4) µmhos/cm @ 25°C Compensated SC
(1)	(2)	(3)	(4)	

Temperature: _____ pH: _____ Other: _____

Sample Container	Parameters	Preservative
<u>MW-1</u>	<u>VOC</u>	<u>HCl</u>
<u>MW-1</u>	<u>VOC</u>	
<u>MW-1</u>	<u>TPH-G</u>	
<u>MW-1</u>	<u>TPH-Dist</u>	

Laboratory: _____ Chain-of-Custody: Yes No

Sample Analysis Request Form: Yes No

Meter	Serial No.	Calibration Date	Decontamination	
pH			Steam: Yes <input type="checkbox"/> No <input type="checkbox"/>	Potable Water: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
SC			Scrub: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Liquinox: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
M-Scope			Methanol: Yes <input type="checkbox"/> No <input type="checkbox"/>	Acetone: Yes <input type="checkbox"/> No <input type="checkbox"/>
			Nitic Acid: Yes <input type="checkbox"/> No <input type="checkbox"/>	

Comments: _____

GROUNDWATER SAMPLING LOG

Project: Greening 3000 ft Date/Time: 11-20-95 9:45 Station No. AW-2
 Narrative Description: _____
 Personnel: G. J. J. J. Weather: Sunny / cool
 Well Locked? Yes No Well Log? Yes No
 Condition of Well: Good
 Casing Type: 2" PVC Casing Diameter: 2"
 Casing Stickup: 1 inch Measuring Point Description: TOC
 Aquifer: _____
 Depth to Water (feet below measuring point): 17.64 ft total depth 24.5' ft

WELL EVACUATION

Method: Positive Displacement Pump Hand-Lift Pump Submersible Pump SST Bailer PVC Bailer Teflon Bailer Other: _____
 One Bore Volume = 1.12 Gallons

Remarks: Evacuated 14 bailers = 3.34 gal; tested parameters; removed another gal & verified parameters

EVACUATION DATA

Time	Cumulative Gallons	Temp	pH	SC	Other
<u>10:45</u>				<u>200 us</u>	
<u>11:15</u>	3.34 <u>3.36</u>	<u>16°C</u>	<u>7.2</u>	<u>200 us</u>	
	<u>4.36</u>	<u>16°C</u>	<u>7.2</u>	<u>200</u>	

WELL SAMPLING

Sampling Method: Stainless Steel Bailer Sample Type: Natural Replicate X-Contam Trip Blank Blind Field Sta.

SC DATA

Water Temp.	Observed SC (µmhos)	Temp. Correction Factor	Cell Factor	SC = (2) x (3) x (4) µmhos/cm @ 25°C Compensated SC
(1)	(2)	(3)	(4)	

Temperature: _____ pH: _____ Other: _____

Sample Container	Parameters	Preservative
<u>AW-2</u>	<u>VOL</u>	<u>HCl</u>
<u>MW-2</u>	<u>VOL</u>	<u>HCl</u>
<u>MW-2</u>	<u>TPH-Dist</u>	<u>HCl</u>
<u>MW-2</u>	<u>TPH-G</u>	<u>HCl</u>

Laboratory: _____ Chain-of-Custody: Yes No

Sample Analysis Request Form: Yes No

Meter	Serial No.	Calibration Date	Decontamination	
pH			Steam: Yes <input type="checkbox"/> No <input type="checkbox"/>	Potable Water: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
SC			Scrub: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Liquinox: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
M-Scope			Methanol: Yes <input type="checkbox"/> No <input type="checkbox"/>	Acetone: Yes <input type="checkbox"/> No <input type="checkbox"/>
			Nitric Acid: Yes <input type="checkbox"/> No <input type="checkbox"/>	

Comments: water standing in well without casing, but did not appear to be above top of cased casing

GROUNDWATER SAMPLING LOG

Project: Vein Hydropon Inc Date/Time: 11-20-85 10:15 Station No. MW-3
 Narrative Description: _____
 Personnel: Bob Farrell Weather: sunny/cool
 Well Locked? Yes No Well Log? Yes No
 Condition of Well: Good
 Casing Type: PVC Casing Diameter: 2"
 Casing Stickup: flush mount Measuring Point Description: TC/C
 Aquifer: 6
 Depth to Water (feet below measuring point): 15.9 ft 29.45 ft total depth

WELL EVACUATION

Method: Positive Displacement Pump Hand-Lift Pump Submersible Pump SST Bailer PVC Bailer Teflon Bailer Other: _____
 One Bore Volume = 1.4 Gallons

Remarks: Removed 18 bores; tested parameters; evacuated another gal & retested parameters

EVACUATION DATA

Time	Cumulative Gallons	Temp	pH	SC	Other
<u>1:50</u>	_____	_____	_____	_____	_____
<u>1:55</u>	<u>4.2</u>	<u>15°C</u>	<u>7.2</u>	<u>140 us</u>	_____
<u>1:55</u>	<u>5.2</u>	<u>15°</u>	<u>7.3</u>	<u>140 us</u>	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

WELL SAMPLING

Sampling Method: Stainless Steel Bailer Sample Type: Natural Replicate X-Contam Trip Blank Blind Field Sta.

SC DATA

Water Temp.	Observed SC (µmhos)	Temp. Correction Factor	Cell Factor	SC = (2) x (3) x (4) µmhos/cm @ 25°C Compensated SC
(1)	(2)	(3)	(4)	
_____	_____	_____	_____	_____

Temperature _____	pH: _____	Other: _____
<u>Sample Container</u>	<u>Parameters</u>	<u>Preservative</u>
<u>MW-3</u>	<u>VOC</u>	<u>HCl</u>
<u>MW-3</u>	<u>VOC</u>	↓
<u>MW-3</u>	<u>TPH-C</u>	↓
<u>MW-3</u>	<u>TPH-Dest</u>	↓

Laboratory: _____ Chain-of-Custody: Yes No
 Sample Analysis Request Form: Yes No

Meter _____ Serial No. _____ Calibration Date _____ pH _____ SC _____ M-Scope _____	Decontamination Steam: Yes <input type="checkbox"/> No <input type="checkbox"/> Potable Water: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Scrub: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Liquinox: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Methanol: Yes <input type="checkbox"/> No <input type="checkbox"/> Acetone: Yes <input type="checkbox"/> No <input type="checkbox"/> Nitric Acid: Yes <input type="checkbox"/> No <input type="checkbox"/>	
--	--	--

Comments: well cap off casing when first opened

Layering Good year
 Project or Site Name
 5609500616

CHAIN OF CUSTODY RECORD

Huntingdon
 Consulting Engineers
 Environmental Scientists

- Chen-Northern, Inc., Division
- Thomas-Hartig & Associates, Inc., Division
- Schaefer-Dixon Associates, Inc., Division
- Herzog Associates, Inc., Division

Project Number
 Rob Farrell
 Sampler Name (Printed)

Contact or Report to
 Rachel Touman
 Contact Address or Location
 Po Box 2887 Yakima, WA 98907
 Rob Farrell
 Sampler Signature

DATE COLLECTED	TIME COLLECTED	SAMPLE LOCATION OR DESCRIPTION	COMP OR GRAB	SAMPLE MATRIX	NO. OF CONTAINERS	ANALYSIS REQUIRED				NOTES	LAB NUMBER
						8010/8020	TPH-G	TPH-D	TPH-Ext		
11-20-95	1230	MW-1	Grab	Water	4	X	X	X			
11-20-95	1115	MW-2	Grab	Water	4	X	X	X			
11-20-95	1330	MW-3	Grab	Water	4	X	X	X			
Relinquished by:	11-21-95	1550	Received by:	Remarks: VOC's 8010/8020 (8021)							
Relinquished by:			Received by:	TPH-G							
Relinquished by:			Received by:	TPH-D - D Ext amdel							

GOODYEAR PROJECT
 Yakima, Washington
 MAXIM Technologies

Specific Halogenated Hydrocarbons and BTEX (Mod. EPA 8010/8020) in Water

Sample-Number	MDL	Method Blank	MW-1	MW-2	MW-3	MW-3 Dup	Dry Well
Date	ug/l	08/16/95 ug/l	08/16/95 ug/l	08/16/95 ug/l	08/16/95 ug/l	08/16/95 ug/l	08/16/95 ug/l
1,1 Dichloroethene	1	nd	nd	nd	nd	nd	nd
Cis-1,2 Dichloroethene	1	nd	nd	nd	nd	nd	nd
Trans-1,2 Dichloroethene	1	nd	nd	nd	nd	nd	nd
Benzene	1	nd	nd	nd	nd	nd	nd
Trichloroethene	1	nd	nd	nd	nd	nd	nd
Toluene	1	nd	nd	nd	nd	nd	nd
Tetrachloroethene	1	nd	nd	nd	nd	nd	nd
Ethylbenzene	1	nd	nd	nd	nd	nd	nd
Total Xylenes	1	nd	nd	nd	nd	nd	nd
1,1 Dichloroethane	1	nd	nd	nd	nd	nd	nd
1,2 Dichloroethane	1	nd	nd	nd	nd	nd	nd
Chloroform	1	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	1	nd	nd	nd	nd	nd	nd
1,1,1 Trichloroethane	1	nd	nd	nd	nd	nd	nd
1,1,2 Trichloroethane	1	nd	nd	nd	nd	nd	nd
Tetrachloroethane	1	nd	nd	nd	nd	nd	nd
Recovery (%)		102	111	99	94	95	80

"nd" Indicates Not Detected at the listed detection limit.

"int" Indicates that interference peaks prevent determination.

GOODYEAR PROJECT
 Yakima, Washington
 MAXIM Technologies

Gasoline, Diesel and Oil in Water by WTPH-G and WTPH-D/D-Extended

Sample Number	Date	Recovery %	Gasoline ug/l	Diesel ug/l	Heavy Oil ug/l
Meth. Blank	08/16/95	93	nd	nd	nd
MW-1	08/16/95	80	nd	nd	nd
MW-2	08/16/95	121	nd	nd	nd
MW-3	08/16/95	102	nd	nd	nd
MW-3-Dup	08/16/95	121	nd	nd	nd
Dry Well	08/16/95	120	nd	nd	nd
MDL			100	100	200

"nd" Indicates not detected at the listed detection limit.

"int" Indicates that interference peaks prevent determination.

=====

GROUNDWATER LEVEL DATA SHEET

PROJECT: *Valley in Good Year*

PROJECT NO.:

DATE: *8-15-95*

MEASUREMENTS TAKEN BY: *P. Davis*

MEASURING DEVICE: *W. C. Fudrak*

WEATHER CONDITIONS: *Partly Cloudy 70°F*

Well No.	Time	Reference Elevation	Depth to Groundwater	Groundwater Elevation	Reference Point	Well Depth	Comments
<i>MW-2</i>	<i>10:15</i>		<i>13.03'</i>				<i>60°F, PH 7.0, 260 uas</i>
<i>MW-3</i>	<i>11:00</i>		<i>11.61'</i>				<i>61°F, PH 6.6, 210 uas</i>
<i>MW-1</i>	<i>12:00</i>		<i>13.05</i>				<i>62°F, PH 6.6, 230 uas</i>

NOTES:

The Chain of
Custody for

August, 1995

Groundwater Sampling
event is enclosed
and together with
Laboratory reports of
Soil Samples.



February 24, 1995
Lab Traveler #:02-054

Timothy Johnson
Environmental Associates, Inc.
2227 112th Avenue NE, Suite 120
Bellevue, WA 98004

Dear Tim:

Enclosed are the results of the analyses of samples submitted on February 22, 1995 from Project 4339-2.

We appreciate the opportunity to be of service to you on this project. If you have any questions regarding this report, please feel free to call me.

Sincerely,

A handwritten signature in cursive script that reads "Catherine A. Macchio".

Catherine A. Macchio
Project Chemist

Enclosures

Date of Report: February 24, 1995
 Samples Submitted: February 22, 1995
 Lab Traveler: 02-054
 Project: 4339-2

EPA 602 & WTPH-G

Date Extracted: 2-22-95
 Date Analyzed: 2-22&23-95

Matrix: Water
 Units: ug/L (ppb)

Lab ID	02-054-5	02-054-6	02-054-7	
Client ID	4339-2 MW1	4339-2 MW2	4339-2 MW3	Method PQL
Dilution Factor	1	1	1	
Benzene	ND	ND	ND	1.00
Toluene	ND	ND	ND	1.00
Ethyl Benzene	ND	ND	9.9	1.00
m,p-Xylene	1.1	ND	16	1.00
o-Xylene	ND	ND	ND	1.00
TPH-Gas	ND	ND	2500	100
4-BFB				
Surrogate Recovery	82%	89%	95%	

Note: Sample PQL(practical quantitation limit)= Method PQL x dilution factor

Date of Report: February 24, 1995
 Samples Submitted: February 22, 1995
 Lab Traveler: 02-054
 Project: 4339-2

**EPA 602 & WTPH-G
 QUALITY CONTROL**

Date Extracted: 2-22-95
 Date Analyzed: 2-22-95

Matrix: Water
 Units: ug/L (ppb)

Lab ID	MB 0222W1	02-054-5	02-054-5	
	Blank	Original	Duplicate	RPD
Dilution Factor	1	1	1	
Benzene	ND	ND	ND	NA
Toluene	ND	ND	ND	NA
Ethyl Benzene	ND	ND	ND	NA
m,p-Xylene	ND	1.10	ND	NA
o-Xylene	ND	ND	ND	NA
TPH-Gas	ND	ND	ND	NA
4-BFB				
Surrogate Recovery	78%	82%	84%	

Date of Report: February 24, 1995
 Samples Submitted: February 22, 1995
 Lab Traveler: 02-054
 Project: 4339-2

**EPA 602 & WTPH-G
 QUALITY CONTROL**

Date Extracted: 2-22-95
 Date Analyzed: 2-22-95

Matrix: Water
 Units: ug/L (ppb)

Lab ID	02-054-5		02-054-5		
spiked @ 50 ppb	MS	Percent	MSD	Percent	
Dilution Factor	1	Recovery	1	Recovery	RPD
Benzene	49.3	99%	46.6	93%	5.7
Toluene	48.4	97%	45.9	92%	5.3
Ethyl Benzene	49.5	99%	46.4	93%	6.5
m,p-Xylene	48.9	98%	46.1	92%	5.8
o-Xylene	49.6	99%	46.8	94%	5.9
4-BFB Surrogate Recovery	79%		88%		

Date of Report: February 24, 1995
Samples Submitted: February 22, 1995
Lab Traveler: 02-054
Project: 4339-2

WTPH-D

Date Extracted: 2-22-95
Date Analyzed: 2-22-95

Matrix: Water
Units: mg/L (ppm)

Client ID	Dilution Factor	TPH	o-terphenyl Surrogate Recovery
4339-2MW1	0.020	<0.5	95%
4339-2 MW2	0.020	<0.5	90%
4339-2 MW3	0.020	<0.5 ^C	88%

C-Hydrocarbons in the gasoline range (C7-toluene) present in the sample.

Date of Report: February 24, 1995
Samples Submitted: February 22, 1995
Lab Traveler: 02-054
Project: 4339-2

**WTPH-D
QUALITY ASSURANCE**

Date Extracted: 2-22-95
Date Analyzed: 2-22-95

Matrix: Water
Units: mg/L (ppm)

	Dilution Factor	TPH	o-terphenyl Surrogate Recovery
Method Blank	0.020	<0.5	84%
Sample: 02-054-7	0.020	0.529	88%
Duplicate	0.020	0.601	94%
RPD		NA	

Date of Report: March 8, 1995
 Samples Submitted: February 22, 1995
 Lab Traveler: 02-054
 Project: 4339-2

EPA 624 (modified)

Page 1 of 2

Date Extracted: 3-03-95
 Date Analyzed: 3-03-95
 Sample Matrix: Water
 Units: ug/L
 Lab ID: 02-054-5
 Client id: 4339-2 mw1
 Dilution Factor: 1

Compound	RESULTS	PQL
Dichlorodifluoromethane	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	10
1,1-Dichloroethene	ND	10
Acetone	4.84 J,B	10
Iodomethane	ND	10
Carbon disulfide	ND	10
Methylene Chloride	ND	10
(trans) 1,2-Dichloroethene	ND	10
Acrylonitrile	ND	10
1,1-Dichloroethane	ND	10
Vinyl Acetate	ND	10
2-Butanone	19.80	10
Chloroform	1.12 J	10
1,1,1-Trichloroethane	ND	10
Carbon Tetrachloride	ND	10
Benzene	ND	10
1,2-Dichloroethane	ND	10
Trichloroethene	ND	10
1,2-Dichloropropane	ND	10

J-The value reported was below the practical quantitation limit. The value is an estimate.
 B-The analyte indicated was also found in the blank sample.

Date of Report: March 8, 1995
 Samples Submitted: February 22, 1995
 Lab Traveler: 02-054
 Project: 4339-2

EPA 624 (modified)
 Page 2 of 2

Lab ID: 02-054-5
 Client id: 4339-2 mw1
 Dilution Factor: 1

Compound	RESULTS	PQL
Dibromomethane	ND	10
Bromodichloromethane	ND	10
2-Chloroethyl vinyl ether	ND	10
(cis) 1,3-Dichloropropene	ND	10
4-Methyl-2-pentanone	ND	10
Toluene	0.34 J,B	10
(trans) 1,3-Dichloropropene	ND	10
Ethyl methacrylate	ND	10
1,1,2-Trichloroethane	ND	10
Tetrachloroethene	0.64 J	10
2-Hexanone	ND	10
Dibromochloromethane	ND	10
Chlorobenzene	ND	10
Ethylbenzene	ND	10
m,p-Xylene	ND	20
o-Xylene	ND	10
Styrene	ND	10
Bromoform	ND	10
cis-1,4-Dichloro-2-butene	ND	10
1,1,2,2-Tetrachloroethane	ND	10
1,2,3-Trichloropropane	ND	10
trans-1,4-Dichloro-2-butene	ND	10
SURROGATE	% RECOVERY	CONTROL LIMITS
1,2-Dichloroethane-d4	110	76-114
Toluene-d8	105	88-110
4-Bromofluorobenzene	107	86-115

J-The value reported was below the practical quantitation limit. The value is an estimate.
 B-The analyte indicated was also found in the blank sample.

Date of Report: March 8, 1995
 Samples Submitted: February 22, 1995
 Lab Traveler: 02-054
 Project: 4339-2

EPA 624
 Page 1 of 2

Date Extracted: 3-03-95
 Date Analyzed: 3-03-95

Sample Matrix: Water
 Units: ug/L

Lab ID: mb0303w1
 Client id: Method Blank

Dilution Factor: 1

Compound	RESULTS	PQL
Dichlorodifluoromethane	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	10
1,1-Dichloroethene	ND	10
Acetone	5.50 J	10
Iodomethane	ND	10
Carbon disulfide	ND	10
Methylene Chloride	0.86 J	10
(trans) 1,2-Dichloroethene	ND	10
Acrylonitrile	ND	10
1,1-Dichloroethane	ND	10
Vinyl Acetate	ND	10
2-Butanone	ND	10
Chloroform	ND	10
1,1,1-Trichloroethane	ND	10
Carbon Tetrachloride	ND	10
Benzene	ND	10
1,2-Dichloroethane	ND	10
Trichloroethene	ND	10
1,2-Dichloropropane	ND	10

J-The value reported was below the practical quantitation limit. The value is an estimate.

Date of Report: March 8, 1995
 Samples Submitted: February 22, 1995
 Lab Traveler: 02-054
 Project: 4339-2

EPA 624
 Page 2 of 2

Lab ID: mb0303w1
 Client id: Method Blank

Dilution Factor: 1

Compound	RESULTS	PQL
Dibromomethane	ND	10
Bromodichloromethane	ND	10
2-Chloroethyl vinyl ether	ND	10
(cis) 1,3-Dichloropropene	ND	10
4-Methyl-2-pentanone	ND	10
Toluene	0.39 J	10
(trans) 1,3-Dichloropropene	ND	10
Ethyl methacrylate	ND	10
1,1,2-Trichloroethane	ND	10
Tetrachloroethene	ND	10
2-Hexanone	ND	10
Dibromochloromethane	ND	10
Chlorobenzene	ND	10
Ethylbenzene	ND	10
m,p-Xylene	ND	20
o-Xylene	ND	10
Styrene	ND	10
Bromoform	ND	10
cis-1,4-Dichloro-2-butene	ND	10
1,1,2,2-Tetrachloroethane	ND	10
1,2,3-Trichloropropane	ND	10
trans-1,4-Dichloro-2-butene	ND	10
	%	CONTROL
SURROGATE	RECOVERY	LIMITS
1,2-Dichloroethane-d4	97	76-114
Toluene-d8	94	88-110
4-Bromofluorobenzene	94	86-115

J-The value reported was below the practical quantitation limit. The value is an estimate.

Date of Report: March 8, 1995
 Samples Submitted: February 22, 1995
 Lab Traveler: 02-054
 Project: 4339-2

EPA 624
MS/MSD QUALITY CONTROL

Date Extracted: 3-03-95
 Date Analyzed: 3-03-95

Matrix: Water
 Units: ug/L

Dilution Factor: 1

Lab ID: 02-054-5 ms 02-054-5 ms

Compound	Spike Amt.	MS		MSD		RPD
		MS	% Rec.	MSD	% Rec.	
1,1-Dichloroethene	50	54.3	109	50.6	101	7.0
Benzene	50	49.2	98.4	46.5	92.9	5.8
Trichloroethene	50	48.3	96.7	46.0	91.9	5.0
Toluene	50	48.3	95.9	46.1	91.4	4.7
Chlorobenzene	50	49.7	99.2	47.1	94.0	5.3

COMPANY Environmental Associates

PROJECT # 4339-2

PROJECT NAME _____

MANAGER Timothy A Johnson

PM EM



14924 NE 31st Circle, Redmond, WA 98052
Phone (206) 883-3881 Fax (206) 885-4603

REQUESTED TURNAROUND?
Rush

TRAVELER #
02-054

Dash	Sample Number	Date Sampled	Time Sampled	Type	# Jars	Analysis Required						Comments						
						WTPH-HID	WTPH-G/BTEX	WTPH-8270	WTPH-D	WTPH-418.1	Med Rad 8270		ethylene Glycol	DRY WEIGHT				
1	4339-2 B1 @ 20' MW1	2-20	12:10	S	1		X											
2	4339-2 B2 @ 20' MW2	2-20	4:15	S	1		X											
3	4339-2 B3 @ 20' MW3	2-21	8:10	S	1		X											
4	4339-2 Dry Well PCE 2.3	2-21	11:10	S	4 2		X				X							
5	4339-2 MW1	2-22	7:30	W	6L 6VDA		X				X							
6	4339-2 MW2	2-22	8:05	W	2L 4VDA		X				X							
7	4339-2 MW3	2-22	8:35	W	6L 6VDA		X				X							

Additional analyses ground water based on dry well sample analysis results may be highly contaminated

Call with results

Additional analyses ground water based on dry well sample analysis results may be highly contaminated

Additional analyses based upon dry well results

Added 3/3 as per Dave Cep

Submitted Timothy A Johnson Date 2-22-95 Received by [Signature] Date 2/22/95

Firm Environmental Associates Time 12:50 Firm OnSite Environmental Time 12:50

Submitted _____ Date _____ Received by _____ Date _____

Firm _____ Time _____ Firm _____ Time _____

APPENDIX F

LABORATORY REPORTS OF SOIL SAMPLES

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.

**7110 38th Drive SE
Lacey, Washington 98503**

**Mobile Environmental Laboratories
Environmental Sampling Services**

**Telephone: 360-459-4670
Fax: 360-459-3432**

October 4, 1995

Rachel Tauman
Maxim Technologies
201 E. D Street
Yakima, WA 98901

Dear Ms. Tauman:

Please find enclosed the data report for off-site analyses of soil samples conducted October 3, 1995, from the Goodyear Project in Yakima, Washington. The soil samples were analyzed for BTEX by EPA Method 8020 and EPA Method 8010 and Gasoline, Diesel and Oil by WTPH-G and WTPH-D/D Extended.

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

TEG Northwest appreciates the opportunity to have provided analytical services to Maxim Technologies for this project. It was a pleasure working with you, and we are looking forward to the next opportunity to work together.

Sincerely,



Michael A. Korosec
President

CHAIN OF CUSTODY RECORD

Project or Site Name: Good year (Elliot) Tire Cont

Project Number: 95-3891

Huntingdon

Consulting Engineers
Environmental Scientists

Sampler Name (Printed): RACHEL TAVAN

- Chen-Northern, Inc., Division
- Thomas-Hartig & Associates, Inc., Division
- Schaefer Dixon Associates, Inc., Division
- Herzog Associates, Inc., Division

Contact or Report to: RACHEL TAVAN
 Contact Address or Location: (509) 577-8592
 Sampler Signature: Rachel Tavan

DATE COLLECTED	TIME COLLECTED	SAMPLE LOCATION OR DESCRIPTION	COMP OR GRAB	SAMPLE MATRIX	NO. OF CONTAINERS	ANALYSIS REQUIRED								NOTES	LAB NUMBER		
<u>Aug 21</u>	<u>8:10</u>	<u>OLD SUMP</u>		<u>Soils</u>	<u>1</u>												
Relinquished by:																	
Relinquished by:																	
Relinquished by:																	

Relinquished by: Rachel Tavan
 Date: Aug 27 Time: 12:10
 Received by: Michelle M...
 Date: 8/30 Time: 1:10

Remarks:
 TPA-G
 TPA-D EXTENDED
 VOC
 8010/8220

QA/QC FOR ANALYTICAL METHODS

GENERAL

The TEG Northwest Laboratory quality assurance and quality control (QA/QC) procedures are conducted following the guidelines and objectives which meet or exceed certification/-accreditation requirements of California DOHS, Washington DOE, and Oregon DEQ. The Quality Control Program is a consistent set of procedures which assures data quality through the use of appropriate blanks, replicate analyses, surrogate spikes, and matrix spikes, and with the use of reference standards that meet or exceed EPA standards.

When analyses are taking place on-site with the mobile lab, the need for Field Blanks or Travel/Trip Blanks is eliminated. If there is going to be a delay before sample preparation for analysis, the sample is stored at 4° C.

ANALYTICAL METHODS

TEG Northwest Labs use analytical methodologies which are in conformity with U. S. Environmental Protection Agency (EPA), Washington DOE, and Oregon DEQ methodologies. When necessary and appropriate due to the nature or composition of the sample, TEG may use variations of the methods which are consistent with recognized standards or variations used by the industry and government laboratories.

TPH-Gasoline, TPH-Diesel (Gasoline and/or Diesel, Modified EPA 8015, WTPH-G and WTPH-D)

A blank and a calibration standard are run at the beginning of the day. The standard must be within 15% of the continuing calibration curve value. The standard is rerun at the end of the day. All samples are prepared with a surrogate spike, and the recovery must be between 65% and 135%. A duplicate sample is run at a rate of 1 per 10 samples (or a matrix spike sample is prepared and analyzed). At least 1 method blank is run per 10 samples analyzed.

Purgeable Volatile Aromatics
(BTEX, EPA 602/8020)

A blank and a calibration standard are run at the beginning of the day. The standard must be within 15% of the continuing calibration curve value. The standard is rerun at the end of the day if more than 10 samples have been run. All samples are prepared with a surrogate spike, and the recovery must be between 65% and 135%. At least 1 method blank is run per day.

Purgeable Volatile Halocarbons
(Chlorinated Hydrocarbons, EPA 601/8010,8021)

A blank and a calibration standard are run at the beginning of the day. The standard must be within 15% of the continuing calibration curve value. The standard is rerun at the end of the day if more than 10 samples have been run. All samples are prepared with a surrogate spike, and the recovery must be between 65% and 135%. At least 1 method blank is run per day.

GOODYEAR PROJECT
 Yakima, Washington
 MAXIM Technologies

Specific Halogenated Hydrocarbons and BTEX (Mod. EPA 8010/8020) in Soil

Sample-Number	MDL	Method Blank	N. Sump Base	N. Sump Catchm.	O. Sump S. Wall	O. Sump Base	O. Sump N. Wall	N. Sump N. Wall
Date	mg/kg	09/05/95 mg/kg	09/05/95 mg/kg	09/05/95 mg/kg	09/05/95 mg/kg	09/05/95 mg/kg	09/05/95 mg/kg	09/05/95 mg/kg
1,1 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Cis-1,2 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Trans-1,2 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Benzene	0.05	nd	nd	nd	nd	nd	nd	nd
Trichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Toluene	0.05	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Ethylbenzene	0.05	nd	nd	nd	nd	nd	nd	nd
Total Xylenes	0.05	nd	nd	nd	nd	nd	nd	nd
1,1 Dichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
1,2 Dichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
Chloroform	0.05	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	0.05	nd	nd	nd	nd	nd	nd	nd
1,1,1 Trichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
1,1,2 Trichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
1,1,1,2 Tetrachloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
1,1,2,2 Tetrachloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
Recovery (%)		97	94	86	104	105	109	106

"nd" Indicates Not Detected at the listed detection limit.

"int" Indicates that interference peaks prevent determination.

GOODYEAR PROJECT
 Yakima, Washington
 MAXIM Technologies

Specific Halogenated Hydrocarbons and BTEX (Mod. EPA 8010/8020) in Soil

Sample-Number	MDL	N. Sump S. Wall	Stockpile	Stockpile Dup
Date		09/05/95	09/05/95	09/05/95
	mg/kg	mg/kg	mg/kg	mg/kg
1,1 Dichloroethene	0.05	nd	nd	nd
Cis-1,2 Dichloroethene	0.05	nd	nd	nd
Trans-1,2 Dichloroethene	0.05	nd	nd	nd
Benzene	0.05	nd	nd	nd
Trichloroethene	0.05	nd	nd	nd
Toluene	0.05	nd	nd	nd
Tetrachloroethene	0.05	nd	nd	nd
Ethylbenzene	0.05	nd	nd	nd
Total Xylenes	0.05	nd	nd	nd
1,1 Dichloroethane	0.05	nd	nd	nd
1,2 Dichloroethane	0.05	nd	nd	nd
Chloroform	0.05	nd	nd	nd
Carbon Tetrachloride	0.05	nd	nd	nd
1,1,1 Trichloroethane	0.05	nd	nd	nd
1,1,2 Trichloroethane	0.05	nd	nd	nd
1,1,1,2 Tetrachloroethane	0.05	nd	nd	nd
1,1,2,2 Tetrachloroethane	0.05	nd	nd	nd
Recovery (%)		108	98	104

"nd" Indicates Not Detected at the listed detection limit.

"int" Indicates that interference peaks prevent determination.

GOODYEAR PROJECT
 Yakima, Washington
 MAXIM Technologies

Gasoline, Diesel and Oil in Soil by WTPH-G and WTPH-D/D-Extended

Sample Number	Date	Recovery %	Gasoline mg/kg	Diesel mg/kg	Heavy Oil mg/kg
Meth. Blank	09/05/95	99	nd	nd	nd
Old Sump, Base	09/05/95	89	nd	nd	nd
Old Sump, North Wall	09/05/95	108	nd	nd	nd
Old Sump, South Wall	09/05/95	93	nd	nd	nd
New Sump, Base	09/05/95	104	nd	nd	nd
New Sump, North Wall	09/05/95	113	nd	nd	nd
New Sump, South Wall	09/05/95	112	nd	nd	nd
New Sump, Catchment	09/05/95	103	nd	nd	nd
Stockpile	09/05/95	99	nd	nd	109
Stockpile-Dup	09/05/95	109	nd	nd	109
MDL			10	10	20

"nd" Indicates not detected at the listed detection limit.

"int" Indicates that interference peaks prevent determination.

=====

GOODYEAR PROJECT
 Yakima, Washington
 MAXIM Technologies

Specific Halogenated Hydrocarbons and BTEX (Mod. EPA 8010/8020) in Soil

	MDL	Method Blank	GYI-1 2'	GYI-2 2'	GYI-3 2'	GYI-3 2'-Dup	GYI-4 2'
Date	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
1,1 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd
trans-1,2 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd
cis-1,2 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd
Benzene	0.05	nd	nd	nd	nd	nd	nd
Trichloroethene	0.05	nd	nd	nd	nd	nd	nd
Toluene	0.05	nd	nd	nd	nd	nd	nd
Tetrachloroethene	0.05	nd	nd	nd	nd	nd	nd
Ethylbenzene	0.05	nd	nd	nd	nd	nd	nd
Total Xylenes	0.05	nd	nd	nd	nd	nd	nd
1,1 Dichloroethane	0.05	nd	nd	nd	nd	nd	nd
1,2 Dichloroethane	0.05	nd	nd	nd	nd	nd	nd
Chloroform	0.05	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	0.05	nd	nd	nd	nd	nd	nd
1,1,1 Trichloroethane	0.05	nd	nd	nd	nd	nd	nd
1,1,2 Trichloroethane	0.05	nd	nd	nd	nd	nd	nd
1,1,1,2 Tetrachloroethane	0.05	nd	nd	nd	nd	nd	nd
1,1,2,2 Tetrachloroethane	0.05	nd	nd	nd	nd	nd	nd
Recovery (%)		82	95	108	99	103	85

"nd" Indicates Not Detected at the listed detection limit.

"int" Indicates that interference peaks prevent determination.

GOODYEAR PROJECT
 Yakima, Washington
 MAXIM Technologies

Specific Halogenated Hydrocarbons and BTEX (Mod. EPA 8010/8020) in Soil

	MDL	Method Blank	GYI-1 4'	GYI-1 5'	GYI-2 3'	GYI-2 4'	GYI-3 3'	GYI-4 4'	GYI-5 2'
Date	09/11/95	09/11/95	09/11/95	09/11/95	09/11/95	09/11/95	09/11/95	09/11/95	09/11/95
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
1,1 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd	nd
trans-1,2 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd	nd
cis-1,2 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd	nd
Benzene	0.05	nd	nd	nd	nd	nd	nd	nd	nd
Trichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd	nd
Toluene	0.05	nd	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethene	0.05	nd	nd	nd	nd	nd	nd	nd	nd
Ethylbenzene	0.05	nd	nd	nd	nd	nd	nd	nd	nd
Total Xylenes	0.05	nd	nd	nd	nd	nd	nd	nd	nd
1,1 Dichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd	nd
1,2 Dichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd	nd
Chloroform	0.05	nd	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	0.05	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1 Trichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2 Trichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1,2 Tetrachloroethane	0.05	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2,2 Tetrachloroethane	0.05	nd	nd	nd	nd	nd	nd	nd	nd
Recovery (%)		92	93	99	98	97	94	93	106

"nd" Indicates Not Detected at the listed detection limit.

"int" Indicates that interference peaks prevent determination.

GOODYEAR PROJECT
 Yakima, Washington
 MAXIM Technologies

Specific Halogenated Hydrocarbons and BTEX (Mod. EPA 8010/8020) in Soil

	MDL	GYI-5 2'-Dup	GYI-5 3'	GYI-6 2'	GYI-6 3'	GYI-7 2'	GYI-7 3'	GYI-7 3'-Dup
Date	mg/kg	09/11/95 mg/kg	09/11/95 mg/kg	09/11/95 mg/kg	09/11/95 mg/kg	09/11/95 mg/kg	09/11/95 mg/kg	09/11/95 mg/kg
1,1 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
trans-1,2 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
cis-1,2 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Benzene	0.05	nd	nd	nd	nd	nd	nd	nd
Trichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Toluene	0.05	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Ethylbenzene	0.05	nd	nd	nd	nd	nd	nd	nd
Total Xylenes	0.05	nd	nd	nd	nd	nd	nd	nd
1,1 Dichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
1,2 Dichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
Chloroform	0.05	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	0.05	nd	nd	nd	nd	nd	nd	nd
1,1,1 Trichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
1,1,2 Trichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
1,1,1,2 Tetrachloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
1,1,2,2 Tetrachloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
Recovery (%)		97	97	96	95	107	97	107

"nd" Indicates Not Detected at the listed detection limit.

"int" Indicates that interference peaks prevent determination.

GOODYEAR PROJECT
 Yakima, Washington
 MAXIM Technologies

Gasoline, Diesel and Oil in Soil by WTPH-G and WTPH-D/D-Extended

Sample Number	Date	Recovery %	Gasoline mg/kg	Diesel mg/kg	Heavy Oil mg/kg
Meth. Blank	09/11/95	97	nd	nd	nd
GYI-1-2'	09/11/95	95	nd	nd	397
GYI-1-4'	09/11/95	100	nd	nd	nd
GYI-1-5'	09/11/95	117	nd	nd	36
GYI-2-2'	09/11/95	100	nd	nd	31
GYI-2-3'	09/11/95	83	nd	nd	nd
GYI-2-4'	09/11/95	90	nd	nd	nd
GYI-3-2'	09/11/95	107	nd	1230	584
GYI-3-2'-Dup	09/11/95	128	nd	1480	763
GYI-3-3'	09/11/95	75	nd	nd	nd
GYI-4-2'	09/11/95	97	nd	nd	nd
GYI-4-4'	09/11/95	103	nd	nd	nd
GYI-4-6'	09/11/95	104	nd	nd	nd
GYI-5-2'	09/11/95	103	nd	nd	nd
GYI-5-3'	09/11/95	116	nd	nd	nd
GYI-5-3'-Dup	09/11/95	116	nd	nd	nd
GYI-6-2'	09/11/95	109	nd	nd	nd
GYI-6-3'	09/11/95	99	nd	nd	nd
GYI-7-2'	09/11/95	111	nd	nd	nd
GYI-7-3'	09/11/95	107	nd	nd	nd
MDL			10	10	20

"nd" Indicates not detected at the listed detection limit.

"int" Indicates that interference peaks prevent determination.

=====

GOODYEAR TIRE CENTER PROJECT
Yakima, Washington
Maxim Technology, Inc.
Project No. 95-3891

Total Lead Analyses (EPA 7420) for Soils

SAMPLE Number	Date Analyzed	Lead (mg/kg)
Meth. Blank	09/07/95	nd
Old Sump	09/07/95	275

Method Detection Limit = 5.0 mg/kg
"nd" Indicates Not Detected at the listed MDL.

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST INC.

GOODYEAR PROJECT
 Yakima, Washington
 Maxim Technologies, Inc.

Specific Halogenated Hydrocarbons and BTEX (Mod. EPA 8010/8020) in Soil

Sample-Number	MDL	Method	GYI-4
		Blank	6'
Date		09/11/95	09/11/95
	mg/kg	mg/kg	mg/kg
1,1 Dichloroethene	0.05	nd	nd
1,2 Dichloroethene	0.05	nd	nd
Benzene	0.05	nd	nd
Trichloroethene	0.05	nd	nd
Toluene	0.05	nd	nd
Tetrachloroethene	0.05	nd	nd
Ethylbenzene	0.05	nd	nd
Total Xylenes	0.05	nd	nd
1,1 Dichloroethane	0.05	nd	nd
1,2 Dichloroethane	0.05	nd	nd
Chloroform	0.05	nd	nd
Carbon Tetrachloride	0.05	nd	nd
1,1,1 Trichloroethane	0.05	nd	nd
1,1,2 Trichloroethane	0.05	nd	nd
Tetrachloroethane	0.05	nd	nd
Spike Recovery (%)		92	86

"nd" Indicates Not Detected at the listed detection limit.
 "int" Indicates that interference peaks prevent determination.



CHAIN-OF-CUSTODY RECORD

CLIENT: Maxim Technologies
 ADDRESS: _____
 PHONE: _____
 CLIENT PROJECT #: _____
 PROJECT MANAGER: Rafael

DATE: 9/08/95 PAGE 1 OF 1
 PROJECT NAME: Goodpaster Project
 LOCATION: Yukon, Yukon
 COLLECTOR: Maxim Technologies
 DATE OF COLLECTION: 9/08/95

Sample Number	Depth	Time	Sample Type	Container Type	ANALYSES														FIELD NOTES	Total Number of Containers							
					VOA 601/8010	VOA 602/8020	VOA 624/8240	Semi Vol 625/8270	TPH 418.1	TPH 6015 (gasoline)	TPH (8015 (diesel))	TPH 8015 (g & d)	PAH 610/8100	PEST/PCBs 8080	HEX CHROME	ORGANIC LEAD	TOTAL LEAD	pH			ASBESTOS						
GTI-1	21		soil	4oz jar	XX																						1
GTI-1	41																										1
GTI-1	61																										1
GTI-2	21																										1
GTI-2	41																										1
GTI-2	61																										1
GTI-3	21																										1
GTI-3	31																										1
GTI-4	21																										1
GTI-4	41																										1
GTI-4	61																										1
GTI-5	21																										1
GTI-5	31																										1
GTI-6	21																										1
GTI-6	31																										1
GTI-7	21																										1
GTI-7	31																										1

RELINQUISHED BY (Signature) _____ DATE/TIME _____ RECEIVED BY (Signature) _____ DATE/TIME _____
 RELINQUISHED BY (Signature) _____ DATE/TIME _____ RECEIVED BY (Signature) _____ DATE/TIME _____

DATE: 9/8/95 16:00

RECEIVED BY: _____

LABORATORY NOTES:

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS: _____

CHAIN OF CUSTODY SEALS Y/N/A: _____

SEALS INTACT? Y/N/A: _____

RECEIVED GOOD COND/COLD: _____

NOTES:

SAMPLE DISPOSAL INSTRUCTIONS

□ TEG DISPOSAL @ \$2.00 each □ Return □ Pickin



CHAIN-OF-CUSTODY RECORD

CLIENT: Maxima Technologies, Inc

ADDRESS: _____

PHONE: _____ FAX: _____

CLIENT PROJECT #: _____ PROJECT MANAGER: Kuehn

DATE: 9/05/05 PAGE _____ OF _____

PROJECT NAME: Goodfegart

LOCATION: Yakima, WA

COLLECTOR: _____ DATE OF COLLECTION: 9/05/05

Sample Number	Depth	Time	Sample Type	Container Type	ANALYSES														Total Number of Containers	Laboratory Note Number	
					VOA 601/8010	VOA 602/8020	VOA 624/8240	Semi Vol 625/8270	TPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (g & d)	PAH 610/8100	PEST/PCBs 8080	HEX CHROME	ORGANIC LEAD	TOTAL LEAD	PH			ASBESTOS
base of excavation	new dump		soil	4 oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
base of excavation	new dump		soil	4 oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
new dump	new dump		soil	4 oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
new dump	new dump		soil	4 oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
new dump	new dump		soil	4 oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
old dump	new dump		soil	4 oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
old dump	new dump		soil	4 oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
old dump	new dump		soil	4 oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
old dump	new dump		soil	4 oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
old dump	new dump		soil	4 oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
old dump	new dump		soil	4 oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
old dump	new dump		soil	4 oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1

RELINQUISHED BY (Signature) _____ DATE/TIME _____ RECEIVED BY (Signature) _____ DATE/TIME _____

SAMPLE RECEIPT
TOTAL NUMBER OF CONTAINERS _____
CHAIN OF CUSTODY SEALS Y/N/A _____
SEALS INTACT? Y/N/A _____
RECEIVED GOOD COND/COLD _____

LABORATORY NOTES: _____

SAMPLE DISPOSAL INSTRUCTIONS
DTEG DISPOSAL @ \$2.00 each Return Pickup

NOTES: _____

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.

**7110 38th Drive SE
Lacey, Washington 98503**

**Mobile Environmental Laboratories
Environmental Sampling Services**

**Telephone: 360-459-4670
Fax: 360-459-3432**

September 1, 1995

Rachel Tauman
Maxim Technologies
201 E. D Street
Yakima, WA 98901

Dear Ms. Tauman:

Please find enclosed the data report for analyses conducted off-site August 30, 1995, for soil samples from the Goodyear (Elliot) Tire Center Project in Yakima, Washington. The soil samples were analyzed for Specific Halogenated Hydrocarbons and BTEX by Modified EPA Method 8010/8020 and Gasoline, Diesel and Oil by WTPH-G and WTPH-D/D Extended.

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

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

Sincerely,



Michael A. Korosec
President

QA/QC FOR ANALYTICAL METHODS

GENERAL

The TEG Northwest Laboratory quality assurance and quality control (QA/QC) procedures are conducted following the guidelines and objectives which meet or exceed certification/- accreditation requirements of California DOHS, Washington DOE, and Oregon DEQ. The Quality Control Program is a consistent set of procedures which assures data quality through the use of appropriate blanks, replicate analyses, surrogate spikes, and matrix spikes, and with the use of reference standards that meet or exceed EPA standards.

When analyses are taking place on-site with the mobile lab, the need for Field Blanks or Travel/Trip Blanks is eliminated. If there is going to be a delay before sample preparation for analysis, the sample is stored at 4° C.

ANALYTICAL METHODS

TEG Northwest Labs use analytical methodologies which are in conformity with U. S. Environmental Protection Agency (EPA), Washington DOE, and Oregon DEQ methodologies. When necessary and appropriate due to the nature or composition of the sample, TEG may use variations of the methods which are consistent with recognized standards or variations used by the industry and government laboratories.

TPH-Gasoline, TPH-Diesel

(Gasoline and/or Diesel, Modified EPA 8015, WTPH-G and WTPH-D)

A blank and a calibration standard are run at the beginning of the day. The standard must be within 15% of the continuing calibration curve value. The standard is rerun at the end of the day. All samples are prepared with a surrogate spike, and the recovery must be between 65% and 135%. A duplicate sample is run at a rate of 1 per 10 samples (or a matrix spike sample is prepared and analyzed). At least 1 method blank is run per 10 samples analyzed.

GOODYEAR (ELLIOT) TIRE CENTER PROJECT

Yakima, Washington

Maxim Technology, Inc.

Project No.: 95-3891

Specific Halogenated Hydrocarbons and BTEX (Mod. EPA 8010/8020) in Soil

Sample-Number	MDL	Method	OLD SUMP
		Blank	
Date		08/30/95	08/30/95
	mg/kg	mg/kg	mg/kg
1,1 Dichloroethene	0.05	nd	nd
1,2 Dichloroethene	0.05	nd	nd
Benzene	0.05	nd	nd
Trichloroethene	0.05	nd	nd
Toluene	0.05	nd	nd
Tetrachloroethene	0.05	nd	nd
Ethylbenzene	0.05	nd	nd
Total Xylenes	0.05	nd	nd
1,1 Dichloroethane	0.05	nd	nd
1,2 Dichloroethane	0.05	nd	nd
Chloroform	0.05	nd	nd
Carbon Tetrachloride	0.05	nd	nd
1,1,1 Trichloroethane	0.05	nd	nd
1,1,2 Trichloroethane	0.05	nd	nd
Tetrachloroethane	0.05	nd	nd
Spike Recovery (%)		100	90

"nd" Indicates Not Detected at the listed detection limit.

"int" Indicates that interference peaks prevent determination.

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST INC.

GOODYEAR (ELLIOT) TIRE CENTER PROJECT

Yakima, Washington

Maxim Technology, Inc.

Project No.: 95-3891

Gasoline, Diesel and Oil in Soil by WTPH-G and WTPH-D/D-Extended

Sample Number	Date	Recovery %	Gasoline mg/kg	Diesel mg/kg	Heavy Oil mg/kg
Meth. Blank	08/30/95	90	nd	nd	nd
Old Sump	08/30/95	94	nd	nd	10000
MDL			10	20	20

"nd" Indicates not detected at the listed detection limit.

"int" Indicates that interference peaks prevent determination.

QA/QC FOR ANALYTICAL METHODS

GENERAL

The TEG Northwest Laboratory quality assurance and quality control (QA/QC) procedures are conducted following the guidelines and objectives which meet or exceed certification/- accreditation requirements of California DOHS, Washington DOE, and Oregon DEQ. The Quality Control Program is a consistent set of procedures which assures data quality through the use of appropriate blanks, replicate analyses, surrogate spikes, and matrix spikes, and with the use of reference standards that meet or exceed EPA standards.

When analyses are taking place on-site with the mobile lab, the need for Field Blanks or Travel/Trip Blanks is eliminated. If there is going to be a delay before sample preparation for analysis, the sample is stored at 4° C.

ANALYTICAL METHODS

TEG Northwest Labs use analytical methodologies which are in conformity with U. S. Environmental Protection Agency (EPA), Washington DOE, and Oregon DEQ methodologies. When necessary and appropriate due to the nature or composition of the sample, TEG may use variations of the methods which are consistent with recognized standards or variations used by the industry and government laboratories.

Purgeable Volatile Aromatics (BTEX, EPA 602/8020)

A blank and a calibration standard are run at the beginning of the day. The standard must be within 15% of the continuing calibration curve value. The standard is rerun at the end of the day if more than 10 samples have been run. All samples are prepared with a surrogate spike, and the recovery must be between 65% and 135%. At least 1 method blank is run per day.

Purgeable Volatile Halocarbons
(Chlorinated Hydrocarbons, EPA 601/8010,8021)

A blank and a calibration standard are run at the beginning of the day. The standard must be within 15% of the continuing calibration curve value. The standard is rerun at the end of the day if more than 10 samples have been run. All samples are prepared with a surrogate spike, and the recovery must be between 65% and 135%. At least 1 method blank is run per day.

GOODYEAR PROJECT
 Yakima, Washington
 MAXIM Technologies

BTEX (EPA 8020), Trichlorethene & Tetrachloroethene (EPA 8010) Analyses for Soils

Sample Number	Date Analyzed	Benzene mg/kg	Toluene mg/kg	Eth Benz mg/kg	Xylene mg/kg	TCE mg/kg	PCE mg/kg	Recovery (%)
Meth. Blank	10/03/95	nd	nd	nd	nd	nd	nd	89
4-A Near Hoist	10/03/95	nd	nd	nd	nd	nd	nd	102
5-A Near Hoist	10/03/95	nd	nd	nd	nd	nd	0.05	98
Detection Limits		0.05	0.05	0.05	0.05	0.05	0.05	

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interferences prevent determination.

=====

GOODYEAR PROJECT
 Yakima, Washington
 MAXIM Technologies

Gasoline, Diesel and Oil in Soil by WTPH-G and WTPH-D/D-Extended

Sample Number	Date	Recovery %	Gasoline mg/kg	Diesel mg/kg	Heavy Oil mg/kg
Meth. Blank	10/03/95	93	nd	nd	nd
4-A Near Hoist	10/03/95	106	nd	nd	nd
5-A Near Hoist	10/03/95	108	nd	nd	nd
MDL			10	20	40

"nd" Indicates not detected at the listed detection limit.

"int" Indicates that interference peaks prevent determination.

Project or Site Name Nike Laundry Elliott Tire

Good year
CHAIN OF CUSTODY RECORD

Huntingdon
Consulting Engineers
Environmental Scientists

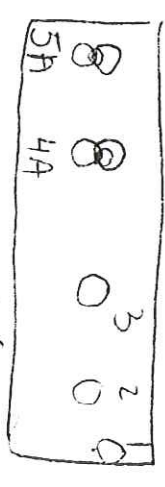
Project Number
Sampler Name (Printed) RACHEL TAUMAN

- Chen-Northern, Inc., Division
- Thomas-Hartig & Associates, Inc., Division
- Schaefer Dixon Associates, Inc., Division
- Herzog Associates, Inc., Division

Contact or Report to RACHEL TAUMAN
Contact Address or Location (509) 577-8592
Sampler Signature _____

Good year

DATE COLLECTED	TIME COLLECTED	SAMPLE LOCATION OR DESCRIPTION	COMP OR GRAB	SAMPLE MATRIX	NO. OF CONTAINERS	ANALYSIS REQUIRED			NOTES	LAB NUMBER
						TPH	TPH-E	TPH-G		
Oct 2	1:30	5H near Hoist	Grab	Soil	1	X	X	X		
	2:00	4A near Hoist	Grab	Soil	1	X	X	X		
									(
Relinquished by: <u>Paul Turner</u>	Date: <u>Oct 7, 1995</u>	Time: <u>2:30</u>	Received by: _____	Remarks:						
Relinquished by: _____	Date: <u>10/13/95</u>	Time: <u>10:30 am</u>	Received by: _____	VOCs 8010/8020						
Relinquished by: _____	Date: <u>10/13/95</u>	Time: <u>10:30 am</u>	Received by: <u>Paul Turner</u>	TPH 8010/8020						



VOCs 8010/8020
TPH 8010/8020
TPH-G

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.

**7110 38th Drive SE
Lacey, Washington 98503**

**Mobile Environmental Laboratories
Environmental Sampling Services**

**Telephone: 360-459-4670
Fax: 360-459-3432**

September 13, 1995

Rachel Tauman
Maxim Technologies
201 E. D Street
Yakima, WA 98901

Dear Ms. Tauman:

Please find enclosed the data reports for on-site collection and analyses of soil samples conducted September 5 and 8, 1995, at the Goodyear Project in Yakima, Washington. Additional samples were analyzed off-site September 11, 1995. The soil samples were analyzed for Specific Halogenated Hydrocarbons and BTEX by Modified EPA Method 8010/8020 and Gasoline, Diesel and Oil by WTPH-G and WTPH-D/D Extended.

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

TEG Northwest appreciates the opportunity to have provided analytical and geosampling services to Maxim Technologies for this project. It was a pleasure working with you, and we are looking forward to the next opportunity to work together.

Sincerely,



Michael A. Korosec
President

GOODYEAR PROJECT
 Yakima, Washington
 Maxim Technologies, Inc.

Specific Halogenated Hydrocarbons and BTEX (Mod. EPA 8010/8020) in Soil

Sample-Number	MDL	CH-4 Interior	CH-5 Interior
Date		08/28/95	08/28/95
	mg/kg	mg/kg	mg/kg
1,1 Dichloroethene	0.05	nd	nd
1,2 Dichloroethene	0.05	nd	nd
Benzene	0.05	nd	nd
Trichloroethene	0.05	nd	0.08
Toluene	0.05	nd	nd
Tetrachloroethene	0.05	0.29	0.12
Ethylbenzene	0.05	nd	nd
Total Xylenes	0.05	nd	nd
1,1 Dichloroethane	0.05	nd	nd
1,2 Dichloroethane	0.05	nd	nd
Chloroform	0.05	nd	nd
Carbon Tetrachloride	0.05	nd	nd
1,1,1 Trichloroethane	0.05	nd	nd
1,1,2 Trichloroethane	0.05	nd	nd
Tetrachloroethane	0.05	nd	nd
Spike Recovery (%)		103	118

"nd" Indicates Not Detected at the listed detection limit.

"int" Indicates that interference peaks prevent determination.

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST INC.

GOODYEAR PROJECT
 Yakima, Washington
 Maxim Technologies, Inc.

Gasoline, Diesel and Oil in Soil by WTPH-G and WTPH-D/D-Extended

Sample Number	Date	Recovery %	Gasoline mg/kg	Diesel mg/kg	Heavy Oil mg/kg
Meth. Blank	08/28/95	107	nd	nd	nd
Old Dry Well	08/28/95	122	nd	nd	3230
Old Dry Well Dup	08/28/95	98	nd	nd	3880
CH-1 Interior	08/28/95	82	nd	nd	nd
CH-2 Interior	08/28/95	84	nd	nd	3230
CH-3 Interior	08/28/95	82	nd	nd	536
CH-4 Interior	08/28/95	107	nd	182	283
CH-5 Interior	08/28/95	84	nd	820	737
MDL			10	20	20

"nd" Indicates not detected at the listed detection limit.

"int" Indicates that interference peaks prevent determination.

=====

Good past site - ya & ma **CHAIN OF CUSTODY RECORD**

Huntingdon
Consulting Engineers
 Environmental Scientists

RACHEL THURMAN

Project or Site Name

95-3891

Contact or Report to

Contact Address or Location

Project Number

Rachel Thurman

- Chen-Northern, Inc., Division
- Thomas-Hartig & Associates, Inc., Division
- Schaefer Dixon Associates, Inc., Division
- Herzog Associates, Inc., Division

Sampler Signature

DATE COLLECTED	TIME COLLECTED	SAMPLE LOCATION OR DESCRIPTION	COMP OR GRAB	SAMPLE MATRIX	NO. OF CONTAINERS	ANALYSIS REQUIRED						NOTES	LAB NUMBER		
						TPH-G	TPH-D	ROB							
Aug 24	9:00	CH-1 OLD WELLS		soil	1	X	X	X							
	10:00	CH-1 Inflow			1	X	X	X							
	10:10	CH-2 Inflow			1	X	X	X							
	10:20	CH-3 Inflow			1	X	X	X							
	10:30	CH-4 Inflow			1	X	X	X							
	11:40	CH-5 Inflow			1	X	X	X							
Relinquished by: <u>Rachel Thurman</u>					Date	Time	Received by:								
Relinquished by:					Date	Time	Received by:								
Relinquished by:					Date	Time	Received by:								

Remarks:

old dry well is the red stream dry well

All get

DTPH-6

② D started

③ 8021

GOODYEAR PROJECT
Yakima, Washington
MAXIM Technologies

Total Lead Analyses (EPA 7420) for Soils

SAMPLE Number	Date Analyzed	Lead (mg/kg)
Meth. Blank	08/22/95	nd
G1-01	08/22/95	nd
G1-01 Dup.	08/22/95	nd
G1-02	08/22/95	nd
G1-03	08/22/95	nd
G2-01	08/22/95	nd
G2-02	08/22/95	nd

Method Detection Limit = 8.0 mg/kg
"nd" Indicates Not Detected at the listed MDL.

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC.

**7110 38th Drive SE
Lacey, Washington 98503**

**Mobile Environmental Laboratories
Environmental Sampling Services**

**Telephone: 360-459-4670
Fax: 360-459-3432**

August 22, 1995

Rachel Tauman
Maxim Technologies
201 E. D Street
Yakima, WA 98901

Dear Ms. Tauman:

Please find enclosed the data report for analyses conducted on-site August 15-18, and off-site August 21, 1995, for soil and water samples from the Goodyear Project in Yakima, Washington. The samples were analyzed for Gasoline, Diesel and Oil by WTPH-G and WTPH-D/D Extended, and Specific Halogenated Hydrocarbons and BTEX by Modified EPA Method 8010/8020.

The results of these analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. An invoice for this analytical work is also enclosed.

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

Sincerely,



Michael A. Korosec
President

QA/QC FOR ANALYTICAL METHODS

GENERAL

The TEG Northwest Laboratory quality assurance and quality control (QA/QC) procedures are conducted following the guidelines and objectives which meet or exceed certification/-accreditation requirements of California DOHS, Washington DOE, and Oregon DEQ. The Quality Control Program is a consistent set of procedures which assures data quality through the use of appropriate blanks, replicate analyses, surrogate spikes, and matrix spikes, and with the use of reference standards that meet or exceed EPA standards.

When analyses are taking place on-site with the mobile lab, the need for Field Blanks or Travel/Trip Blanks is eliminated. If there is going to be a delay before sample preparation for analysis, the sample is stored at 4° C.

ANALYTICAL METHODS

TEG Northwest Labs use analytical methodologies which are in conformity with U. S. Environmental Protection Agency (EPA), Washington DOE, and Oregon DEQ methodologies. When necessary and appropriate due to the nature or composition of the sample, TEG may use variations of the methods which are consistent with recognized standards or variations used by the industry and government laboratories.

TPH-Gasoline, TPH-Diesel (Gasoline and/or Diesel, Modified EPA 8015, WTPH-G and WTPH-D)

A blank and a calibration standard are run at the beginning of the day. The standard must be within 15% of the continuing calibration curve value. The standard is rerun at the end of the day. All samples are prepared with a surrogate spike, and the recovery must be between 65% and 135%. A duplicate sample is run at a rate of 1 per 10 samples (or a matrix spike sample is prepared and analyzed). At least 1 method blank is run per 10 samples analyzed.

Purgeable Volatile Aromatics
(BTEX, EPA 602/8020)

A blank and a calibration standard are run at the beginning of the day. The standard must be within 15% of the continuing calibration curve value. The standard is rerun at the end of the day if more than 10 samples have been run. All samples are prepared with a surrogate spike, and the recovery must be between 65% and 135%. At least 1 method blank is run per day.

Purgeable Volatile Halocarbons
(Chlorinated Hydrocarbons, EPA 601/8010,8021)

A blank and a calibration standard are run at the beginning of the day. The standard must be within 15% of the continuing calibration curve value. The standard is rerun at the end of the day if more than 10 samples have been run. All samples are prepared with a surrogate spike, and the recovery must be between 65% and 135%. At least 1 method blank is run per day.

GOODYEAR PROJECT
 Yakima, Washington
 MAXIM Technologies

Specific Halogenated Hydrocarbons and BTEX (Mod. EPA 8010/8020) in Soil

Sample-Number	MDL	Method Blank	TP2-4'	TP2-4' Dup	TP2-8'	TP2-10	TP7-3'	TP7-6'
Date	mg/kg	08/15/95 mg/kg	08/15/95 mg/kg	08/15/95 mg/kg	08/15/95 mg/kg	08/15/95 mg/kg	08/15/95 mg/kg	08/15/95 mg/kg
1,1 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Cis-1,2 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Trans-1,2 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Benzene	0.05	nd	nd	nd	nd	nd	nd	nd
Trichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Toluene	0.05	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Ethylbenzene	0.05	nd	nd	nd	nd	nd	nd	nd
Total Xylenes	0.05	nd	nd	nd	nd	nd	nd	nd
1,1 Dichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
1,2 Dichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
Chloroform	0.05	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	0.05	nd	nd	nd	nd	nd	nd	nd
1,1,1 Trichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
1,1,2 Trichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
Recovery (%)		113	110	111	87	81	84	105

"nd" Indicates Not Detected at the listed detection limit.

"int" Indicates that interference peaks prevent determination.

GOODYEAR PROJECT
 Yakima, Washington
 MAXIM Technologies

Specific Halogenated Hydrocarbons and BTEX (Mod. EPA 8010/8020) in Soil

Sample-Number	MDL	TP7-10'	TP12-3'	TP12-6'	TP12-10'	TP3-3'	TP3-6'	TP3-6' Dup
Date	mg/kg	08/15/95 mg/kg	08/15/95 mg/kg	08/15/95 mg/kg	08/15/95 mg/kg	08/15/95 mg/kg	08/15/95 mg/kg	08/15/95 mg/kg
1,1 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Cis-1,2 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Trans-1,2 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Benzene	0.05	nd	nd	nd	nd	nd	nd	nd
Trichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Toluene	0.05	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Ethylbenzene	0.05	nd	nd	nd	nd	nd	nd	nd
Total Xylenes	0.05	nd	nd	nd	nd	nd	nd	nd
1,1 Dichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
1,2 Dichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
Chloroform	0.05	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	0.05	nd	nd	nd	nd	nd	nd	nd
1,1,1 Trichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
1,1,2 Trichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
Recovery (%)		111	105	98	87	91	106	101

"nd" Indicates Not Detected at the listed detection limit.

"int" Indicates that interference peaks prevent determination.

GOODYEAR PROJECT
 Yakima, Washington
 MAXIM Technologies

Specific Halogenated Hydrocarbons and BTEX (Mod. EPA 8010/8020) in Soil

Sample-Number	MDL	TP-3-10'	Stockpile #1
Date		08/15/95	08/15/95
	mg/kg	mg/kg	mg/kg
1,1 Dichloroethene	0.05	nd	nd
Cis-1,2 Dichloroethene	0.05	nd	nd
Trans-1,2 Dichloroethene	0.05	nd	nd
Benzene	0.05	nd	nd
Trichloroethene	0.05	nd	nd
Toluene	0.05	nd	nd
Tetrachloroethene	0.05	nd	nd
Ethylbenzene	0.05	nd	nd
Total Xylenes	0.05	nd	nd
1,1 Dichloroethane	0.05	nd	nd
1,2 Dichloroethane	0.05	nd	nd
Chloroform	0.05	nd	nd
Carbon Tetrachloride	0.05	nd	nd
1,1,1 Trichloroethane	0.05	nd	nd
1,1,2 Trichloroethane	0.05	nd	nd
Tetrachloroethane	0.05	nd	nd
Recovery (%)		94	107

"nd" Indicates Not Detected at the listed detection limit.

"int" Indicates that interference peaks prevent determination.

GOODYEAR PROJECT
 Yakima, Washington
 MAXIM Technologies

Gasoline, Diesel and Oil in Soil by WTPH-G and WTPH-D/D-Extended

Sample Number	Date	Recovery %	Gasoline mg/kg	Diesel mg/kg	Heavy Oil mg/kg
Meth. Blank	08/15/95	114	nd	nd	nd
TP2-4'	08/15/95	86	nd	nd	nd
TP2-4'-Dup	08/15/95	87	nd	nd	nd
TP2-8'	08/15/95	98	nd	nd	nd
TP2-10'	08/15/95	105	nd	nd	nd
TP7-3'	08/15/95	95	nd	nd	nd
TP7-6'	08/15/95	101	nd	nd	nd
TP7-10'	08/15/95	89	nd	nd	nd
TP12-3'	08/15/95	87	nd	nd	nd
TP12-6'	08/15/95	93	nd	nd	nd
TP12-10'	08/15/95	105	nd	nd	nd
TP3-3'	08/15/95	94	nd	nd	nd
TP3-6'	08/15/95	92	nd	nd	nd
TP3-6'-Dup	08/15/95	81	nd	nd	nd
TP3-9'	08/15/95	105	nd	nd	nd
Stockpile #1	08/15/95	87	nd	nd	nd
MDL			10	10	20

"nd" Indicates not detected at the listed detection limit.

"int" Indicates that interference peaks prevent determination.

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GOODYEAR PROJECT
 Yakima, Washington
 MAXIM Technologies

Specific Halogenated Hydrocarbons and BTEX (Mod. EPA 8010/8020) in Soil

Sample-Number	MDL	G1-01	G1-02	G1-03	G2-01	G2-02	G2-02 Dup	TP13-3'
Date	mg/kg	08/16/95 mg/kg	08/16/95 mg/kg	08/16/95 mg/kg	08/16/95 mg/kg	08/16/95 mg/kg	08/16/95 mg/kg	08/16/95 mg/kg
1,1 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Cis-1,2 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Trans-1,2 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Benzene	0.05	nd	nd	nd	nd	nd	nd	nd
Trichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Toluene	0.05	nd	nd	nd	nd	nd	0.07	nd
Tetrachloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Ethylbenzene	0.05	nd	nd	nd	nd	nd	0.07	nd
Total Xylenes	0.05	nd	nd	nd	nd	0.35	0.59	nd
1,1 Dichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
1,2 Dichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
Chloroform	0.05	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	0.05	nd	nd	nd	nd	nd	nd	nd
1,1,1 Trichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
1,1,2 Trichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
Recovery (%)		88	120	94	91	81	88	100

"nd" Indicates Not Detected at the listed detection limit.

"int" Indicates that interference peaks prevent determination.

GOODYEAR PROJECT
 Yakima, Washington
 MAXIM Technologies

Specific Halogenated Hydrocarbons and BTEX (Mod. EPA 8010/8020) in Soil

Sample-Number	MDL	TP13-6'	TP13-10'	TP8-3'
Date		08/16/95	08/16/95	08/16/95
	mg/kg	mg/kg	mg/kg	mg/kg
1,1 Dichloroethene	0.05	nd	nd	nd
Cis-1,2 Dichloroethene	0.05	nd	nd	nd
Trans-1,2 Dichloroethene	0.05	nd	nd	nd
Benzene	0.05	nd	nd	nd
Trichloroethene	0.05	nd	nd	nd
Toluene	0.05	nd	nd	nd
Tetrachloroethene	0.05	nd	nd	nd
Ethylbenzene	0.05	nd	nd	nd
Total Xylenes	0.05	nd	nd	nd
1,1 Dichloroethane	0.05	nd	nd	nd
1,2 Dichloroethane	0.05	nd	nd	nd
Chloroform	0.05	nd	nd	nd
Carbon Tetrachloride	0.05	nd	nd	nd
1,1,1 Trichloroethane	0.05	nd	nd	nd
1,1,2 Trichloroethane	0.05	nd	nd	nd
Tetrachloroethane	0.05	nd	nd	nd
Recovery (%)		98	98	80

"nd" Indicates Not Detected at the listed detection limit.

"int" Indicates that interference peaks prevent determination.

GOODYEAR PROJECT
 Yakima, Washington
 MAXIM Technologies

Gasoline, Diesel and Oil in Soil by WTPH-G and WTPH-D/D-Extended

Sample Number	Date	Recovery %	Gasoline mg/kg	Diesel mg/kg	Heavy Oil mg/kg
Meth. Blank	08/16/95	93	nd	nd	nd
G1-01	08/16/95	99	nd	nd	nd
G1-02	08/16/95	85	nd	nd	nd
G1-03	08/16/95	95	nd	nd	nd
G2-01	08/16/95	89	nd	nd	nd
G2-02	08/16/95	86	115	nd	nd
G2-02-Dup	08/16/95	80	95	nd	nd
TP13-3'	08/16/95	89	nd	nd	nd
TP13-6'	08/16/95	97	nd	nd	nd
TP13-10'	08/16/95	87	nd	nd	nd
TP8-3'	08/16/95	92	nd	nd	nd
MDL			10	10	20

"nd" Indicates not detected at the listed detection limit.

"int" Indicates that interference peaks prevent determination.

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GOODYEAR PROJECT
 Yakima, Washington
 MAXIM Technologies

Specific Halogenated Hydrocarbons and BTEX (Mod. EPA 8010/8020) in Soil

Sample-Number	MDL	Method	G2-03	G2-04	G2-04	G2-05	G2-06	Sump
		Blank			Dup			#2
Date		08/17/95	08/17/95	08/17/95	08/17/95	08/17/95	08/17/95	08/17/95
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
1,1 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Cis-1,2 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Trans-1,2 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Benzene	0.05	nd	nd	nd	nd	nd	nd	nd
Trichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Toluene	0.05	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Ethylbenzene	0.05	nd	nd	nd	nd	nd	nd	nd
Total Xylenes	0.05	nd	nd	nd	nd	nd	nd	nd
1,1 Dichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
1,2 Dichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
Chloroform	0.05	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	0.05	nd	nd	nd	nd	nd	nd	nd
1,1,1 Trichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
1,1,2 Trichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
Recovery (%)		87	106	103	100	82	82	121

"nd" Indicates Not Detected at the listed detection limit.

"int" Indicates that interference peaks prevent determination.

GOODYEAR PROJECT
 Yakima, Washington
 MAXIM Technologies

Specific Halogenated Hydrocarbons and BTEX (Mod. EPA 8010/8020) in Soil

Sample-Number	MDL	TP8-6'	TP8-10'	TP9-3'	TP9-6'	TP9-11'	TP4-3'	TP4-6'
Date	mg/kg	08/17/95 mg/kg	08/17/95 mg/kg	08/17/95 mg/kg	08/17/95 mg/kg	08/17/95 mg/kg	08/17/95 mg/kg	08/17/95 mg/kg
1,1 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Cis-1,2 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Trans-1,2 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Benzene	0.05	nd	nd	nd	nd	nd	nd	nd
Trichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Toluene	0.05	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Ethylbenzene	0.05	nd	nd	nd	nd	nd	nd	nd
Total Xylenes	0.05	nd	nd	nd	nd	nd	nd	nd
1,1 Dichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
1,2 Dichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
Chloroform	0.05	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	0.05	nd	nd	nd	nd	nd	nd	nd
1,1,1 Trichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
1,1,2 Trichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
Recovery (%)		114	101	95	95	84	80	81

"nd" Indicates Not Detected at the listed detection limit.

"int" Indicates that interference peaks prevent determination.

GOODYEAR PROJECT
 Yakima, Washington
 MAXIM Technologies

Specific Halogenated Hydrocarbons and BTEX (Mod. EPA 8010/8020) in Soil

Sample-Number	MDL	TP4-10'	TP14-3'	TP14-3' Dup
Date	mg/kg	08/17/95 mg/kg	08/17/95 mg/kg	08/17/95 mg/kg
1,1 Dichloroethene	0.05	nd	nd	nd
Cis-1,2 Dichloroethene	0.05	nd	nd	nd
Trans-1,2 Dichloroethene	0.05	nd	nd	nd
Benzene	0.05	nd	nd	nd
Trichloroethene	0.05	nd	nd	nd
Toluene	0.05	nd	nd	nd
Tetrachloroethene	0.05	nd	nd	nd
Ethylbenzene	0.05	nd	nd	nd
Total Xylenes	0.05	nd	nd	nd
1,1 Dichloroethane	0.05	nd	nd	nd
1,2 Dichloroethane	0.05	nd	nd	nd
Chloroform	0.05	nd	nd	nd
Carbon Tetrachloride	0.05	nd	nd	nd
1,1,1 Trichloroethane	0.05	nd	nd	nd
1,1,2 Trichloroethane	0.05	nd	nd	nd
Tetrachloroethane	0.05	nd	nd	nd
Recovery (%)		80	114	116

"nd" Indicates Not Detected at the listed detection limit.

"int" Indicates that interference peaks prevent determination.

GOODYEAR PROJECT
 Yakima, Washington
 MAXIM Technologies

Gasoline, Diesel and Oil in Soil by WTPH-G and WTPH-D/D-Extended

Sample Number	Date	Recovery %	Gasoline mg/kg	Diesel mg/kg	Heavy Oil mg/kg
Meth. Blank	08/17/95	99	nd	nd	nd
G2-03	08/17/95	97	nd	nd	nd
G2-04	08/17/95	101	nd	nd	nd
G2-04-Dup	08/17/95	105	nd	nd	nd
G2-05	08/17/95	93	nd	nd	nd
G2-06	08/17/95	102	nd	nd	nd
Sump #2	08/17/95	98	nd	nd	20
TP8-6'	08/17/95	100	nd	nd	nd
TP8-10'	08/17/95	116	nd	nd	nd
TP9-3'	08/17/95	99	nd	nd	68
TP9-6'	08/17/95	99	nd	nd	65
TP9-10'	08/17/95	108	nd	nd	47
TP4-3'	08/17/95	118	nd	nd	25
TP4-6'	08/17/95	110	nd	nd	21
TP4-10'	08/17/95	97	nd	nd	nd
TP14-3'	08/17/95	91	nd	nd	447
TP14-3'-Dup	08/17/95	89	nd	nd	442
MDL			10	10	20

"nd" Indicates not detected at the listed detection limit.

"int" Indicates that interference peaks prevent determination.

GOODYEAR PROJECT
 Yakima, Washington
 MAXIM Technologies

Specific Halogenated Hydrocarbons and BTEX (Mod. EPA 8010/8020) in Soil

Sample-Number	MDL	Method Blank	TP14-6'	TP14-10'	TP5-3'	TP5-3' Dup	TP5-6'	TP5-10'
Date	mg/kg	08/18/95 mg/kg	08/18/95 mg/kg	08/18/95 mg/kg	08/18/95 mg/kg	08/18/95 mg/kg	08/18/95 mg/kg	08/18/95 mg/kg
1,1 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Cis-1,2 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Trans-1,2 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Benzene	0.05	nd	nd	nd	nd	nd	nd	nd
Trichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Toluene	0.05	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Ethylbenzene	0.05	nd	nd	nd	nd	nd	nd	nd
Total Xylenes	0.05	nd	nd	nd	nd	nd	nd	nd
1,1 Dichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
1,2 Dichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
Chloroform	0.05	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	0.05	nd	nd	nd	nd	nd	nd	nd
1,1,1 Trichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
1,1,2 Trichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
Recovery (%)		101	107	120	107	120	80	84

"nd" Indicates Not Detected at the listed detection limit.

"int" Indicates that interference peaks prevent determination.

GOODYEAR PROJECT
 Yakima, Washington
 MAXIM Technologies

Specific Halogenated Hydrocarbons and BTEX (Mod. EPA 8010/8020) in Soil

Sample-Number	MDL	TP10-3'	TP10-6'	TP10-10'	TP1-3'	TP1-10'	TP1-10' Dup	2' Below Sump
Date	mg/kg	08/18/95 mg/kg	08/18/95 mg/kg	08/18/95 mg/kg	08/18/95 mg/kg	08/18/95 mg/kg	08/18/95 mg/kg	08/18/95 mg/kg
1,1 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Cis-1,2 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	0.10
Trans-1,2 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Benzene	0.05	nd	nd	nd	nd	nd	nd	nd
Trichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Toluene	0.05	nd	nd	nd	nd	nd	nd	0.14
Tetrachloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Ethylbenzene	0.05	nd	nd	nd	nd	nd	nd	0.06
Total Xylenes	0.05	nd	nd	nd	nd	nd	nd	0.41
1,1 Dichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
1,2 Dichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
Chloroform	0.05	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	0.05	nd	nd	nd	nd	nd	nd	nd
1,1,1 Trichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
1,1,2 Trichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
Recovery (%)		94	97	89	107	116	106	110

"nd" Indicates Not Detected at the listed detection limit.

"int" Indicates that interference peaks prevent determination.

GOODYEAR PROJECT
 Yakima, Washington
 MAXIM Technologies

Specific Halogenated Hydrocarbons and BTEX (Mod. EPA 8010/8020) in Sludge

Sample-Number	MDL	Drum 2	Sump Sludge
Date		08/18/95	08/18/95
	ug/l	ug/l	ug/l
1,1 Dichloroethene	1	402	nd
Cis-1,2 Dichloroethene	1	nd	43
Trans-1,2 Dichloroethene	1	nd	nd
Benzene	1	35	8
Trichloroethene	1	nd	1
Toluene	1	271	71
Tetrachloroethene	1	3	2
Ethylbenzene	1	179	40
Total Xylenes	1	2230	146
1,1 Dichloroethane	1	nd	nd
1,2 Dichloroethane	1	nd	nd
Chloroform	1	nd	nd
Carbon Tetrachloride	1	nd	nd
1,1,1 Trichloroethane	1	25	nd
1,1,2 Trichloroethane	1	nd	nd
Tetrachloroethane	1	nd	nd
Recovery (%)		80	113

"nd" Indicates Not Detected at the listed detection limit.

"int" Indicates that interference peaks prevent determination.

GOODYEAR PROJECT
 Yakima, Washington
 MAXIM Technologies

Specific Halogenated Hydrocarbons and BTEX (Mod. EPA 8010/8020) in Soil

Sample-Number	MDL	Method Blank	TP1-6	TP1-10	TP1-10 Dup	TP6-3	TP6-6	TP6-10
Date	mg/kg	08/21/95 mg/kg	08/21/95 mg/kg	08/21/95 mg/kg	08/21/95 mg/kg	08/21/95 mg/kg	08/21/95 mg/kg	08/21/95 mg/kg
1,1 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Cis-1,2 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Trans-1,2 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Benzene	0.05	nd	nd	nd	nd	nd	nd	nd
Trichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Toluene	0.05	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Ethylbenzene	0.05	nd	nd	nd	nd	nd	nd	nd
Total Xylenes	0.05	nd	nd	nd	nd	nd	nd	nd
1,1 Dichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
1,2 Dichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
Chloroform	0.05	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	0.05	nd	nd	nd	nd	nd	nd	nd
1,1,1 Trichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
1,1,2 Trichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
Recovery (%)		98	102	96	99	102	97	99

"nd" Indicates Not Detected at the listed detection limit.

"int" Indicates that interference peaks prevent determination.

GOODYEAR PROJECT
 Yakima, Washington
 MAXIM Technologies

Specific Halogenated Hydrocarbons and BTEX (Mod. EPA 8010/8020) in Soil

Sample-Number	MDL	TP9-10	TP11-3	TP11-6	TP11-10	TP14-11	TP15-3	TP15-6
Date		08/21/95	08/21/95	08/21/95	08/22/95	08/21/95	08/21/95	08/21/95
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
1,1 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Cis-1,2 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Trans-1,2 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Benzene	0.05	nd	nd	nd	nd	nd	nd	nd
Trichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Toluene	0.05	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Ethylbenzene	0.05	nd	nd	nd	nd	nd	nd	nd
Total Xylenes	0.05	nd	nd	nd	nd	nd	nd	nd
1,1 Dichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
1,2 Dichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
Chloroform	0.05	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	0.05	nd	nd	nd	nd	nd	nd	nd
1,1,1 Trichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
1,1,2 Trichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
Recovery (%)	0.05	102	102	98	105	93	98	105

"nd" Indicates Not Detected at the listed detection limit.

"int" Indicates that interference peaks prevent determination.

GOODYEAR PROJECT
 Yakima, Washington
 MAXIM Technologies

Specific Halogenated Hydrocarbons and BTEX (Mod. EPA 8010/8020) in Soil

Sample-Number	MDL	TP15-12	TP16-13	TP17-3	TP18-3	TP19-3	TP19-3 Dup	TP20-3
Date	mg/kg	08/21/95 mg/kg	08/21/95 mg/kg	08/22/95 mg/kg	08/22/95 mg/kg	08/21/95 mg/kg	08/21/95 mg/kg	08/21/95 mg/kg
1,1 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Cis-1,2 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Trans-1,2 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Benzene	0.05	nd	nd	nd	nd	nd	nd	nd
Trichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Toluene	0.05	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Ethylbenzene	0.05	nd	nd	nd	nd	nd	nd	nd
Total Xylenes	0.05	nd	nd	nd	nd	nd	nd	nd
1,1 Dichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
1,2 Dichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
Chloroform	0.05	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	0.05	nd	nd	nd	nd	nd	nd	nd
1,1,1 Trichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
1,1,2 Trichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
Recovery (%)	0.05	103	105	97	92	98	98	100

"nd" Indicates Not Detected at the listed detection limit.

"int" Indicates that interference peaks prevent determination.

GOODYEAR PROJECT
 Yakima, Washington
 MAXIM Technologies

Gasoline, Diesel and Oil in Soil by WTPH-G and WTPH-D/D-Extended

Sample Number	Date	Recovery %	Gasoline mg/kg	Diesel mg/kg	Heavy Oil mg/kg
Meth. Blank	08/18/95	111	nd	nd	nd
TP14-6'	08/18/95	84	nd	nd	nd
TP14-10'	08/18/95	94	nd	nd	nd
Drum 1	08/18/95	int	nd	nd	1040000
Drum 2	08/18/95	int	3560	188	326
TP5-3'	08/18/95	104	nd	nd	33
TP5-3'-Dup	08/18/95	91	nd	nd	21
TP5-6'	08/18/95	103	nd	nd	nd
TP5-10'	08/18/95	106	nd	nd	nd
TP10-3'	08/18/95	110	nd	nd	35
TP10-6'	08/18/95	105	nd	nd	42
TP10-10'	08/18/95	101	nd	nd	17
TP1-3'	08/18/95	120	nd	nd	27
TP1-6'	08/18/95	104	nd	nd	nd
2' Below Sump	08/18/95	int	nd	nd	4408
Sump Sludge	08/18/95	int	nd	nd	277
MDL			10	10	20

"nd" Indicates not detected at the listed detection limit.

"int" Indicates that interference peaks prevent determination.

GOODYEAR PROJECT
 Yakima, Washington
 MAXIM Technologies

Gasoline, Diesel and Oil in Soil by WTPH-G and WTPH-D/D-Extended

Sample Number	Date Analyzed	Recovery %	Gasoline mg/kg	Diesel mg/kg	Heavy Oil mg/kg
Meth. Blank	08/21/95	98	nd	nd	nd
TP1-6	08/21/95	102	nd	nd	nd
TP1-10	08/21/95	96	nd	nd	nd
TP1-10 Dup	08/21/95	99	nd	nd	nd
TP6-3	08/21/95	102	nd	nd	nd
TP6-6	08/21/95	97	nd	nd	nd
TP6-10	08/21/95	99	nd	nd	nd
TP9-10	08/21/95	102	nd	nd	nd
TP11-3	08/21/95	102	nd	nd	nd
TP11-6	08/21/95	98	nd	nd	nd
TP11-10	08/21/95	105	nd	nd	nd
TP14-11	08/22/95	93	nd	nd	nd
TP15-3	08/21/95	98	nd	nd	nd
TP15-6	08/21/95	105	nd	nd	140
TP15-12	08/21/95	103	nd	nd	nd
TP16-13	08/21/95	105	nd	nd	nd
TP17-3	08/21/95	97	nd	nd	nd
TP18-3	08/22/95	92	nd	nd	nd
TP19-3	08/21/95	98	nd	nd	nd
TP19-3 Dup	08/21/95	98	nd	nd	nd
TP20-3	08/21/95	100	nd	nd	nd
MDL			10	10	20

"nd" Indicates not detected at the listed detection limit.

"int" Indicates that interference peaks prevent determination.

=====

GOODYEAR PROJECT
 Yakima, Washington
 MAXIM Technologies

Gasoline, Diesel and Oil in Water by WTPH-G and WTPH-D/D-Extended

Sample Number	Date	Recovery %	Gasoline ug/l	Diesel ug/l	Heavy Oil ug/l
Meth. Blank	08/21/95	94	nd	nd	nd
Wtr. Barrel	08/21/95	105	nd	nd	nd
Sump Water	08/21/95	111	nd	nd	nd
MDL			200	200	500

"nd" Indicates not detected at the listed detection limit.

"int" Indicates that interference peaks prevent determination.

GOODYEAR PROJECT
 Yakima, Washington
 MAXIM Technologies

Specific Halogenated Hydrocarbons and BTEX (Mod. EPA 8010/8020) in Sludge

Sample-Number	MDL	Method Blank	Wtr. Barrel	Sump Water
Date	ug/l	08/21/95 ug/l	08/21/95 ug/l	08/21/95 ug/l
1,1 Dichloroethene	1	nd	nd	nd
Cis-1,2 Dichloroethene	1	nd	nd	28
Trans-1,2 Dichloroethene	1	nd	nd	nd
Benzene	1	nd	nd	5
Trichloroethene	1	nd	nd	nd
Toluene	1	nd	nd	65
Tetrachloroethene	1	nd	nd	nd
Ethylbenzene	1	nd	nd	35
Total Xylenes	1	nd	nd	122
1,1 Dichloroethane	1	nd	nd	nd
1,2 Dichloroethane	1	nd	nd	nd
Chloroform	1	nd	nd	nd
Carbon Tetrachloride	1	nd	nd	nd
1,1,1 Trichloroethane	1	nd	nd	nd
1,1,2 Trichloroethane	1	nd	nd	nd
Tetrachloroethane	1	nd	nd	nd
Recovery (%)		91	102	109

"nd" Indicates Not Detected at the listed detection limit.

"int" Indicates that interference peaks prevent determination.



TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES

CHAIN-OF-CUSTODY RECORD

CLIENT: MAXIM Technologies
 ADDRESS: 201 East "D" St Yukon, WA
 PHONE: 509 577-8542 FAX: 509-248-1657
 CLIENT PROJECT #: _____ PROJECT MANAGER: Redel Laurin

DATE: 8/15/05 PAGE 1 OF _____
 PROJECT NAME: Goodyscut
 LOCATION: Yukon, wa.
 COLLECTOR: _____ DATE OF COLLECTION: 8/15

Sample Number	Depth	Time	Sample Type	Container Type	ANALYSES												FIELD NOTES	Total Number of Containers	Laboratory Note Number									
					VOA 601/8010	VOA 602/8020	VOA 624/8240	Semi Vol 625/8270	TPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (g & d)	PAH 610/8100	PEST/PCBs 8080	HEX CHROME	ORGANIC LEAD				TOTAL LEAD	pH	ASBESTOS						
TP2-	4'		soil	40Z	X	X				X	X																1	X
TP2-	8'		soil		X	X				X	X																1	X
TP2-	10'		soil		X	X				X	X																1	X
TP7	3'		soil		X	X				X	X																1	X
TP7	6'		soil		X	X				X	X																1	X
TP7	10.3'		soil		X	X				X	X																1	X
TP7	10.3'	10:15	soil		X	X				X	X																4	X
MW-2	3'		soil		X	X				X	X																1	X
TP12	6'		soil		X	X				X	X																1	X
TP12	10'		soil		X	X				X	X																1	X
MW-1.		12:05	water		X	X				X	X																4	X
MW-2		12:05	water		X	X				X	X																4	X
TP3	3'		soil		X	X				X	X																1	X
TP3	6'		soil		X	X				X	X																1	X
TP3	10'		soil		X	X				X	X																1	X
TP3	10'		soil		X	X				X	X																1	X
TP3	3'		soil		X	X				X	X																1	X
TP3	6'		soil		X	X				X	X																1	X
TP3	10'		soil		X	X				X	X																1	X
RELINQUISHED BY (Signature)	DATE/TIME		RECEIVED BY (Signature)	DATE/TIME		TOTAL NUMBER OF CONTAINERS												LABORATORY NOTES:										
<i>Redel Laurin</i>			<i>[Signature]</i>			1																						

DTEG DISPOSAL @ \$2.00 each Return Pickup

RELINQUISHED BY (Signature) DATE/TIME RECEIVED BY (Signature) DATE/TIME

(Signature) DATE/TIME RECEIVED BY (Signature) DATE/TIME

DATE/TIME 8/15/05 10:00

SAMPLE DISPOSAL INSTRUCTIONS

SEALS INTACT? Y/N/A

RECEIVED GOOD COND./COLD

NOTES:



CLIENT: Maxim Technologies

DATE: 8/15/95 PAGE 2 OF

ADDRESS: 201 East "D" St. Yuma, WA

PROJECT NAME: Crocker

PHONE: 509 577-8892 FAX: 509-248-1967

LOCATION: Yuma Environmental

CLIENT PROJECT #: PROJECT MANAGER: Richard COLLECTOR: DATE OF COLLECTION: 8/15

Sample Number	Depth	Time	Sample Type	Container Type	ANALYSES											FIELD NOTES	Total Number of Containers	Laboratory Note Number								
					VOA 601/8010	VOA 602/8020	VOA 624/8240	Semi Vol 625/8270	TPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (g & o)	PAH 610/8100	PEST/PCBs 8080	HEX CHROME				ORGANIC LEAD	TOTAL LEAD	pH	ASBESTOS				
TP # 8	10'		soil	40315	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
TP # 13	6'		soil	40315	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
TP # 10	6'		soil	40315	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
TP # 11	6'		soil	40315	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
TP # 12	6'		soil	40315	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
TP # 14	10'		soil	40315	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
TP # 15	10'		soil	40315	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
TP # 16	10'		soil	40315	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			

RELINQUISHED BY (Signature) [Signature] DATE/TIME RECEIVED BY (Signature) [Signature] DATE/TIME

RELINQUISHED BY (Signature) [Signature] DATE/TIME RECEIVED BY (Signature) [Signature] DATE/TIME

SAMPLE DISPOSAL INSTRUCTIONS

TEG DISPOSAL @ \$2.00 each Return Pickup

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS

CHAIN OF CUSTODY SEALS Y/N/NA

SEALS INTACT? Y/N/NA

RECEIVED GOOD COND./COLD

NOTES:

LABORATORY NOTES:

CLIENT: MAXIM Technologies
 ADDRESS: 201 East "D" St. Yehima, WA
 PHONE: 509-577-8592 FAX: 509-248-1667
 CLIENT PROJECT #: Goodsear PROJECT MANAGER: Rachel Tammisa
 DATE: 8/16/95 PAGE 11 OF
 PROJECT NAME: Goodsear
 LOCATION: Yehima, WA
 COLLECTOR:
 DATE OF COLLECTION: 8/16/95

Sample Number	Depth	Time	Sample Type	Container Type	ANALYSES																	FIELD NOTES	Total Number of Containers	Laboratory Note Number		
					VOA 601/610	VOA 602/620	VOA 624/6240	Semi Vol 625/6270	TPH 418.1	TPH 8015 (gasoline)	TPH (B015 (diesel)	TPH 8015 (g & d)	PAH 610/8100	PEST/PCBs 8080	HEX CHROME	ORGANIC LEAD	TOTAL LEAD	pH	ASBESTOS							
IP14	3'		Soil	4oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				1		
IP14	5'		Soil	4oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				1		
IP14	10'		Soil	4oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				1		
IP14	11'		Soil	4oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				1		
G1-01	10'		Soil	4oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				1		
G1-02	10'		Soil	4oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				1		
G1-03	30'		Soil	4oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				1		
G2-01	3'		Soil	4oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				1		
IP#5	5'		Soil	4oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				1		
IP#5	10'		Soil	4oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				1		
G2-02	3'		Soil	4oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				1	
IP#10	5'		Soil	4oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				1		
IP#10	10'		Soil	4oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				1		
IP#10	10'		Soil	4oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				1		
IP#15	3'		Soil	4oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				1		
IP#15	5'		Soil	4oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				1		
IP#15	10'		Soil	4oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				1		
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME	SAMPLE RECEIPT																				LABORATORY NOTES:		
<i>[Signature]</i>	<i>[Time]</i>	<i>[Signature]</i>	<i>[Time]</i>	TOTAL NUMBER OF CONTAINERS																						
				CHAIN OF CUSTODY SEALS Y/N/NA																						
				SEALS INTACT? Y/N/NA																						
				RECEIVED GOOD COND./COLD																						
				NOTES:																						

DTEG DISPOSAL @ \$2.00 each Return Pickup



CHAIN-OF-CUSTODY RECORD

CLIENT: Maximum Technologies
 ADDRESS: 201 East "D" St. Yeluma, WA
 PHONE: 509 577 8592 FAX: 509-248-1657
 CLIENT PROJECT #: _____ PROJECT MANAGER: Tammara

DATE: 8/17/15 PAGE 1 OF 2
 PROJECT NAME: Foodcourt
 LOCATION: Yeluma, WA
 COLLECTOR: _____ DATE OF COLLECTION: 8/17

Sample Number	Depth	Time	Sample Type	Container Type	ANALYSES											FIELD NOTES	Total Number of Containers	Laboratory Note Number	
					VOA 601/6010	VOA 602/6020	VOA 624/6240	Semi Vol 625/6270	TPH 418.1	TPH 8015 (gasoline)	TPH (8015 (diesel)	TPH 8015 (g & d)	PAH 610/8100	PEST/PCBs 8080	HEX CHROME				ORGANIC LEAD
Sample #2			soil	4 oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
G2-C2			soil	4 oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
G2-C4			soil	4 oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
G2-C5			soil	4 oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
G2-C6			soil	4 oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Draw #1			oil	4 oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Draw #2			oil	4 oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
IP#1-	3'		soil	4 oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
IP#1-	6'		soil	4 oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
IP#1	10'		soil	4 oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
IP#6	3'		soil	4 oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
IP#6	6'		soil	4 oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
IP#6	10'		soil	4 oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
IP#11	3'		soil	4 oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
IP#11	6'		soil	4 oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
IP#11	9'		soil	4 oz jar	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

RELINQUISHED BY (Signature) _____ DATE/TIME _____ RECEIVED BY (Signature) _____ DATE/TIME _____
 RELINQUISHED BY (Signature) _____ DATE/TIME _____ RECEIVED BY (Signature) _____ DATE/TIME _____
 (10)
 SAMPLE DISPOSAL INSTRUCTIONS: _____
 DTEG DISPOSAL @ \$2.00 each Return Pickup
 SAMPLE RECEIPT: _____ LABORATORY NOTES: _____
 TOTAL NUMBER OF CONTAINERS _____
 CHAIN OF CUSTODY SEALS Y/N/A _____
 SEALS INTACT? Y/N/A _____
 RECEIVED GOOD COND./COLD _____
 NOTES: _____

Date of Report: February 24, 1995
 Samples Submitted: February 22, 1995
 Lab Traveler: 02-054
 Project: 4339-2

EPA 8020 & WTPH-G

Date Extracted: 2-22-95
 Date Analyzed: 2-22-95

Matrix: Soil
 Units: mg/Kg (ppm)

Lab ID	02-054-1	02-054-2	02-054-3	
Client ID	4339-2	4339-2	4339-2	Method
	B1/MW1 @ 20'	B2/MW2 @ 20'	B3/MW3 @ 20'	PQL
Dilution Factor	50	50	50	
Benzene	ND	ND	ND	.001
Toluene	ND	ND	ND	.001
Ethyl Benzene	ND	ND	ND	.001
m,p-Xylene	ND	ND	0.073	.001
o-Xylene	ND	ND	ND	.001
TPH-Gas	ND	ND	30	.100
4-BFB				
Surrogate Recovery	83%	79%	81%	

Note: Sample PQL(practical quantitation limit)= Method PQL x dilution factor

Date of Report: February 24, 1995
 Samples Submitted: February 22, 1995
 Lab Traveler: 02-054
 Project: 4339-2

**EPA 8020 & WTPH-G
 QUALITY CONTROL**

Date Extracted: 2-22-95
 Date Analyzed: 2-22-95

Matrix: Soil
 Units: mg/Kg (ppm)

Lab ID	mb 0222s1	02-054-1	02-054-1	
	Blank	Original	Duplicate	RPD
Dilution Factor	50	50	50	
Benzene	ND	ND	ND	NA
Toluene	ND	ND	ND	NA
Ethyl Benzene	ND	ND	ND	NA
m,p-Xylene	ND	ND	ND	NA
o-Xylene	ND	ND	ND	NA
TPH-Gas	ND	ND	ND	NA
4-BFB				
Surrogate Recovery	91%	83%	81%	

Date of Report: February 24, 1995
 Samples Submitted: February 22, 1995
 Lab Traveler: 02-054
 Project: 4339-2

**EPA 8020 & WTPH-G
 QUALITY CONTROL**

Date Extracted: 2-22-95
 Date Analyzed: 2-22-95

Matrix: Soil
 Units: mg/Kg (ppm)

Lab ID	02-054-1		02-054-1		
spiked @ 1 ppm	MS	Percent	MSD	Percent	
Dilution Factor	50	Recovery	50	Recovery	RPD
Benzene	0.865	86%	0.826	83%	4.5
Toluene	0.853	85%	0.818	82%	4.2
Ethyl Benzene	0.867	87%	0.835	84%	3.8
m,p-Xylene	0.769	77%	0.722	72%	6.3
o-Xylene	0.864	86%	0.834	83%	3.6
4-BFB					
Surrogate Recovery	83%		78%		

APPENDIX G
UST REMOVAL REPORT

GOODYEAR TIRE SERVICE

YAKIMA, WASHINGTON

PREPARED FOR
MIKE LOVERING
ELLIOT TIRE CENTER
LINCOLN AVENUE
YAKIMA, WA

PREPARED BY
CAYUSE ENVIRONMENTAL
60 OLDEN WAY
TOPPENISH, WA 98948

AUGUST 28, 1995

1.0 PROJECT DESCRIPTION

- 1.1 INTRODUCTION
- 1.2 PURPOSE AND SCOPE
- 1.3 PROJECT BACKGROUND

2.0 SITE CHARACTERISTICS

- 2.1 SITE DESCRIPTION
- 2.2 GEOLOGY
- 2.3 HYDROLOGY

3.0 ASSESSMENT PROCEDURES

4.0 ASSESSMENT FINDINGS

- 4.1 FIELD OBSERVATIONS
- 4.2 ANALYTICAL RESULTS
- 4.3 MATERIAL DISPOSAL AND BACKFILL

5.0 DISCUSSION/CONCLUSIONS

6.0 REPORTING REQUIREMENTS

7.0 LIMITATIONS

APPENDICES

- APPENDIX 1 - SITE MAP
- APPENDIX 2 - SITE MAP SAMPLE LOCATION
- APPENDIX 3 - LABORATIVE RESULTS
- APPENDIX 4 - WDOE UST CLOSURE/RELEASE DOCUMENTATION

PROJECT DESCRIPTION

1.1 Introduction.

At the request of Maxim Technologies Inc. of Yakima, Washington Cayuse Environmental performed a tank closure and site assessment for two abandon underground storage tanks discovered during a site investigation of the property. This report presents our findings on the decommissioning and removal of two 1,000 gallon underground tanks (ust's) tank removal activities were completed in August 1995.

1.2 Purpose and Scope.

The purpose of this project was to assist responsible parties in complying with current Washington State Department of Ecology (WDOE) regulations and guidelines for the safe removal and decommissioning of USTS (Ecology's October 1991). Site specific objectives include: 1.) Safety excavating and removing the existing ust's from the ground for proper disposal, 2.) Assessing the presence of petroleum hydrocarbons in soils by using field observation and confirmational laboratory sampling, and 3.) Evaluating the magnitude and extent of and discovered petroleum hydrocarbon contamination based on the assessment findings.

The following scope of service was performed for this assessment:

- An environmental professional was mobilize to the site with appropriate equipment to perform the required site assessment. The environmental professional was registered with the WDOE to perform ust site assessment and had current health and safety training.
- The ust's was removed from the ground by a state licensed excavation and ust firm using proper drafty and excavation techniques. The tank and residual product were transported from the site for proper disposal.
- The removed ust's was inspected for areas of severe rusting, perforations, and seam failure. Dimensions, appearance were noted and documented.
- The tank excavation was evaluated by our environmental professional for signs of contamination including visible free product, soil discoloration, and odor.
- Soil samples were collected form the excavation boundaries and given to a Washington State approved laboratory for selective analysis of total petroleum hydrocarbons as set forth by WDOE guildlines for gasoline WTPH-G and for diesel WTPH-D. Sampling locations were chosen on evidence of petroleum hydrocarbon contamination and at pre-specified points described by WDOE guide lines (Ecology 1991).
- This report was prepared and to summarize the field activities proformed and the findings of the environmental assessment. The report also renders our evaluation concerning petroleum hydrocarbon contamination at the site.

1.3 Project background.

The ust's was discovered during a site investigation at Elliot Tire Center, the tanks were encountered on a test pit excavated to evaluate the presence of soil contaminated with solvent in the parking lot of Elliot Tire Center. Product was still present in the tanks and appeared to indicate the tanks were used as part of an abandon service station. Tri-Valley Construction of Yakima, Washington did the excavating and Cayuse Environmental, a licensed tank decommissioning firm was contacted by Maxim Technology to complete tank removal and recommendation at the site.

2.0 SITE CHARACTERISTICS

2.1 Site Description.

The site is identified as Elliot Tire Center and is located on the corner of E. Lincoln and Front Ave., Yakima, WA. in Yakima County, Washington. The present property is owned by Mike Lovering.

The approximate location is described on the site location map (Appendix 1). An approximate description for the site is Southeast quarter of the Northwest quarter of Section 19, Township 13 North Range 19 East of the Willamette Meridian, Yakima County, Washington. The site is in the center of Yakima business district. The site is known as a tire service center but a review of aerial photos from the 1940s and interviews with older people in the area we discovered the site used to be a coal distributor plant and gasoline station.

The tanks were located in the center of the site's parking lot, until the tanks' discovery their presence was unknown to either the owner or the operator at the site.

2.2 Geology.

The city of Yakima is situated on the western margin of the Columbia River Plateau Physiographic province and near the eastern foothills of the Cascade Range. The Cascade Range and adjacent highland are primarily composed of basalts and andesites. The Columbia Plateau is composed of a series of flood basalts which cover most of Central and Eastern Washington. The basalt flows of the Columbia basalt group are Miocene in age, forming an extensive volcanic plateau (Camp et al, 1982). The Columbia River flood basalts are overlain by alluvial deposits within the study area.

The predominant surficial soil type at the site has been classified as a nuchel loam by the United States Department of Agriculture. This soil formed in old alluvium on stream terraces and in valleys (USDA, 1985).

The subsurface profile over most of the site consists of a layer of silty gravel (fill material) extending to depths ranging from about 0.5 to 5.0 feet. The silty gravels are underlain by dense basalt gravel of alluvial origin. Topography at the site is level. Elevations of the site range between 1,060 and 1,090 feet above mean sea level. The average annual precipitation of about 7 to 9 inches supports various grasses (USDA, 1985).

2.3 Hydrology.

The nearest surface water is the southeasterly flowing Yakima River. The Yakima River is located about 1.4 miles east of the site. Ground water was encountered at a depth of about 15 feet BGS. An easterly ground water flow component was established at the site from ground water data collected during field activities.

3.0 ASSESSMENT PROCEDURES

The ust's was carefully uncovered. The tanks had been fill with sand though unfortunately they hadn't been cleaned first. The sand from both tanks was contaminated. The tank weighed so much that when we tried to pull them out they split open. Sand was dumped into the excavation. Once removed from the excavation, the tank is inspected for signs of leakage. The tank was examined for visible cracks, seam failures, severe rusting, and staining. Holes were found in the bottoms of both tanks.

Product piping was removed from the excavation. The product pipe ran toward a suspected old island but no evidence of a release was found.

After the tank was safely removed from the ground, the excavation is surveyed for stained and/or odorous soil. Dark discoloration was observed in the excavation and is suggestive of soil contaminated by petroleum products.

Soil samples were retained for laboratory analysis based on field observations strong odor or discoloration soil samples were also collected from areas in the excavation associated with signs of leaking noted on the tanks. Soil samples were collected from pre-specified locations including the base of the excavation and the three side walls.

Stockpiled soil removed from the excavation was also sampled. Sample locations are randomly selected with an emphasis on obtaining samples from areas of high observable contamination.

The soil samples were analyzed in accordance with WDOE guidelines at a analytical laboratory. An on-site laboratory was retained to complete the scan for solvent in test pits. The mobile laboratory had the capability of performing total petroleum hydrocarbon analysis. Identified (WTPH-G and WTPH-D Washington State modified method) to qualify and partially qualified and gasoline or diesel contamination which may be present. Laboratory results indicated petroleum contamination on the soil under the east tank.

Details of field procedures and sampling protocols used by Maxim are outlined in our "standard operation procedures for ust site assessment, Washington State (Maxim 1994) manual kept on file at Maxim's office. An deviation from the described assessment procedures are described in the following sections.

4.0 ASSESSMENT FINDINGS

4.1 Field Observations.

An environmental professional from Cayuse arrived at the site to observe ust's removal activities and to perform a lust site assessment. The tanks had been uncovered it was observe at this time that the excavation had petroleum contamination. It was decided to rip open he tanks and dump sand inside into excavation. At which time the soil would be excavated and transported to Anderson's Rock and Demolition Pit of Yakima, Washington.

Other excavation activities were initiated, due to the presence of stained and odorous soil. The excavation was extended to the North and East to a depth of 12 feet below ground surface. Evidence of staining or odorous soil was not apparent after the over excavation activities were complete . The final dimensions of the excavation are despatched on the detailed site map (Appendix 2).

4.2 Analytical Results.

Representative soil samples were obtained from the boundaries of the tank excavation after over excavation was completed. The sample exhibiting the worst staining and odor was analyzed for total petroleum hydrocarbon identification and found to be in the gasoline range. All samples were analyze by Transglobal Environmental Geosciences Northwest Inc. Analytical results are summarized in the pages of Appendix 3 along with laboratory reports.

4.3 Material Disposal and Backfill.

The removed tank were transported and disposed of by Cayuse Environmental. Approximately 180 tons of petroleum contaminated soil was disposed of at Anderson Pit in Yakima, WA after approval of the Yakima County Health District.

Tri-Valley Construction provided backfill to complete this project.

5.0 DISCUSSION CONCLUSIONS

Petroleum hydrocarbon contamination exceeding WDOE actions. levels in the soil surrounding the underground storage tanks and confirmed a release had occurred. Overexcavation activities were successful in reducing the concentration of total petroleum hydrocarbons to acceptable levels stockpile soil was approved for transportation and treatment at the Anderson Landfill in Yakima, WA.

Based on our field observation and the analytical results the tank site appears suitable for permanent closure. Ground water dose not appear to have bee impacted by the underground storage tank release based upon the analytical results for samples collected from on-site monitoring wells.

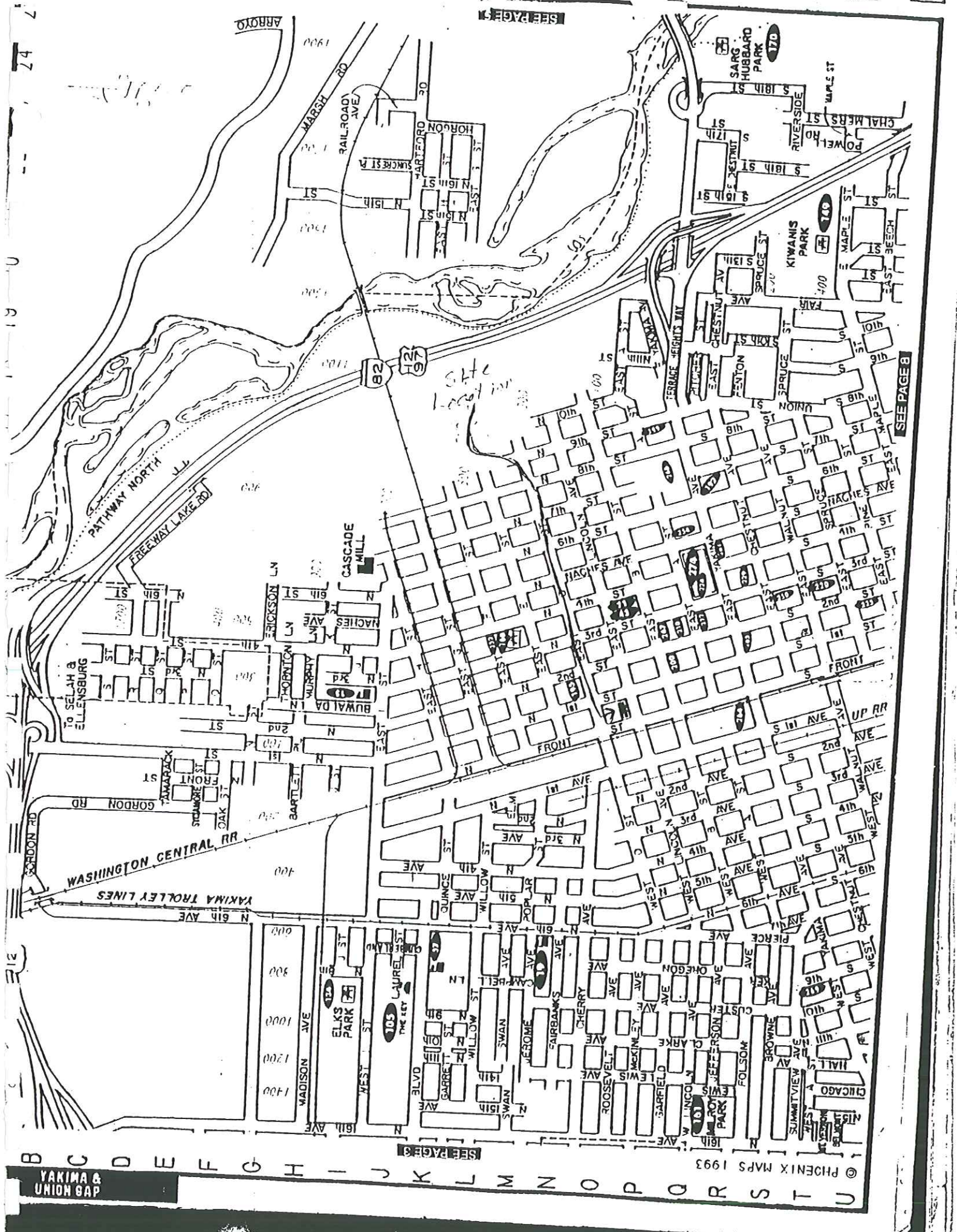
6.0 REPORTING REQUIREMENTS

In accordance with Washington Administrative Codes (WAC) Chapter 173-340-450 for underground storage tanks, this report and supporting documentation (j.e. ust permanent closure and site assessment notice, ust site check/site assessment checklist, etc.) is required to be submitted to the ust spectrum at the WDOG main office in Olympia, Washington. Copies of seppertory ust closure and assessment documentation are included in Appendix 4.

7.0 LIMITATIONS

In performing our professional services, CE uses a degree of care ordinarily exercised under similar circumstances by members of our profession. No warranty, expressed or implied, is made or intended. Our conclusions and recommendations developed from our field and laboratory investigation reported herein are based upon this firm's understanding of the project and are in concurrence with generally accepted practice.

APPENDIX 1



SEE PAGE 1

SEE PAGE 2

SEE PAGE 3

© PHENIX MAPS 1993

A B C D E F G H I J K L M N O P Q R S T U

APPENDIX 2

9531

Louisiana 710

Aug 95

Samples	Location	Depth	Matrix	Odor	Headspace	TLC
1	South Wall	1'	Soil	NO	—	—
2-01	East Wall	8'	Soil	NO	—	—
2-02	Bottom	10'	Soil	NO	—	—
2-03	North Wall	8'	Soil	NO	—	—
2-04	West Wall	8'	Soil	NO	—	—
2-05	Bottom	10'	Soil	NO	—	—
2-06	Bottom	12'	Soil	NO	—	—
Stackpile	Stackpile	6"	Soil	NO	—	—

9531

Laurens Time

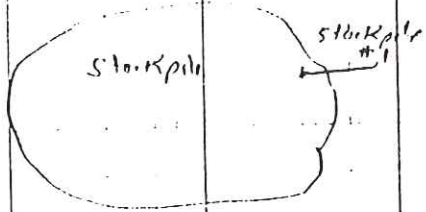
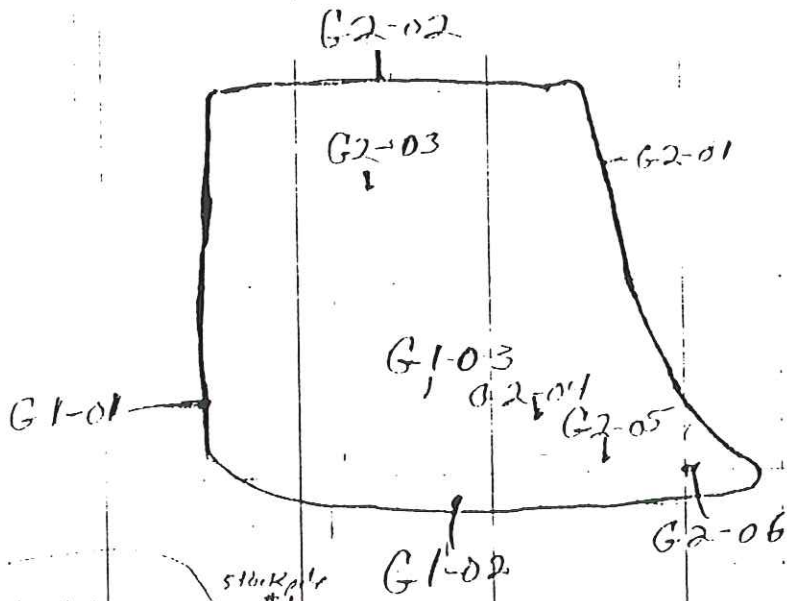
Aug 95

front 5'



LINDSAY AVE.

Good year
Time



Not to Scale

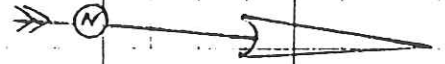
[Faint signature]

9531

Lowering Tire

Aug 1995

Front St.



Good year
Tire
Store
Parking Lot

Good year
Tire
Store

Lincoln Ave.

Not To Scale

[Faint signature]

APPENDIX 3

GOODYEAR PROJECT
 Yakima, Washington
 MAXIM Technologies

Gasoline, Diesel and Oil in Soil by WTPH-G and WTPH-D/D-Extended

Sample Number	Date	Recovery %	Gasoline mg/kg	Diesel mg/kg	Heavy Oil mg/kg
Meth. Blank	08/15/95	114	nd	nd	nd
TP2-4'	08/15/95	86	nd	nd	nd
TP2-4'-Dup	08/15/95	87	nd	nd	nd
TP2-8'	08/15/95	98	nd	nd	nd
TP2-10'	08/15/95	105	nd	nd	nd
TP7-3'	08/15/95	95	nd	nd	nd
TP7-6'	08/15/95	101	nd	nd	nd
TP7-10'	08/15/95	89	nd	nd	nd
TP12-3'	08/15/95	87	nd	nd	nd
TP12-6'	08/15/95	93	nd	nd	nd
TP12-10'	08/15/95	105	nd	nd	nd
TP3-3'	08/15/95	94	nd	nd	nd
TP3-6'	08/15/95	92	nd	nd	nd
TP3-6'-Dup	08/15/95	81	nd	nd	nd
TP3-9'	08/15/95	105	nd	nd	nd
Stockpile # 1	08/15/95	87	nd	nd	nd
MDL			10	10	20

nd Indicates not detected at the listed detection limit.

int Indicates that interference peaks prevent determination.

GOODYEAR PROJECT
 Yakima, Washington
 MAXIM Technologies

Specific Halogenated Hydrocarbons and BTEX (Mod. EPA 8010/8020) in Soil

Sample-Number	MDL	TP-3-10'	Stockpile #1
Date	mg/kg	08/15/95 mg/kg	08/15/95 mg/kg
1,1 Dichloroethene	0.05	nd	nd
Cis-1,2 Dichloroethene	0.05	nd	nd
Trans-1,2 Dichloroethene	0.05	nd	nd
Benzene	0.05	nd	nd
Trichloroethene	0.05	nd	nd
Toluene	0.05	nd	nd
Tetrachloroethene	0.05	nd	nd
Ethylbenzene	0.05	nd	nd
Total Xylenes	0.05	nd	nd
1,1 Dichloroethane	0.05	nd	nd
1,2 Dichloroethane	0.05	nd	nd
Chloroform	0.05	nd	nd
Carbon Tetrachloride	0.05	nd	nd
1,1,1 Trichloroethane	0.05	nd	nd
1,1,2 Trichloroethane	0.05	nd	nd
Tetrachloroethane	0.05	nd	nd
Recovery (%)		94	107

nd Indicates Not Detected at the listed detection limit.

int Indicates that interference peaks prevent determination.

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST INC.

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GOODYEAR PROJECT
 Yakima, Washington
 MAXIM Technologies

Specific Halogenated Hydrocarbons and BTEX (Mod. EPA 8010/8020) in Soil

Sample-Number	MDL	G1-01	G1-02	G1-03	G2-01	G2-02	G2-02 Dup	TP13-3'
Date	mg/kg	08/16/95 mg/kg	08/16/95 mg/kg	08/16/95 mg/kg	08/16/95 mg/kg	08/16/95 mg/kg	08/16/95 mg/kg	08/16/95 mg/kg
1,1 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Cis-1,2 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Trans-1,2 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Benzene	0.05	nd	nd	nd	nd	nd	nd	nd
Trichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Toluene	0.05	nd	nd	nd	nd	nd	0.07	nd
Tetrachloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Ethylbenzene	0.05	nd	nd	nd	nd	nd	0.07	nd
Total Xylenes	0.05	nd	nd	nd	nd	0.35	0.59	nd
1,1 Dichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
1,2 Dichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
Chloroform	0.05	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	0.05	nd	nd	nd	nd	nd	nd	nd
1,1,1 Trichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
1,1,2 Trichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
Recovery (%)		88	120	94	91	81	88	100

"nd" Indicates Not Detected at the listed detection limit.

"int" Indicates that interference peaks prevent determination.

GOODYEAR PROJECT
 Yakima, Washington
 MAXIM Technologies

Gasoline, Diesel and Oil in Soil by WTPH-G and WTPH-D/D-Extended

Sample Number	Date	Recovery %	Gasoline mg/kg	Diesel mg/kg	Heavy Oil mg/kg
Meth. Blank	08/16/95	93	nd	nd	nd
G1-01	08/16/95	99	nd	nd	nd
G1-02	08/16/95	85	nd	nd	nd
G1-03	08/16/95	95	nd	nd	nd
G2-01	08/16/95	89	nd	nd	nd
G2-02	08/16/95	86	115	nd	nd
G2-02-Dup	08/16/95	80	95	nd	nd
TP13-3'	08/16/95	89	nd	nd	nd
TP13-6'	08/16/95	97	nd	nd	nd
TP13-10'	08/16/95	87	nd	nd	nd
TP8-3'	08/16/95	92	nd	nd	nd
MDL			10	10	20

"nd" Indicates not detected at the listed detection limit.
 "int" Indicates that interference peaks prevent determination.

GOODYEAR PROJECT
 Yakima, Washington
 MAXIM Technologies

Specific Halogenated Hydrocarbons and BTEX (Mod. EPA 8010/8020) in Soil

Sample-Number	MDL	Method Blank	G2-03	G2-04	G2-04 Dup	G2-05	G2-06	Sump #2 (NE CORNER)
Date	mg/kg	08/17/95 mg/kg	08/17/95 mg/kg	08/17/95 mg/kg	08/17/95 mg/kg	08/17/95 mg/kg	08/17/95 mg/kg	08/17/95 mg/kg
1,1 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Cis-1,2 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Trans-1,2 Dichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Benzene	0.05	nd	nd	nd	nd	nd	nd	nd
Trichloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Toluene	0.05	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethene	0.05	nd	nd	nd	nd	nd	nd	nd
Ethylbenzene	0.05	nd	nd	nd	nd	nd	nd	nd
Total Xylenes	0.05	nd	nd	nd	nd	nd	nd	nd
1,1 Dichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
1,2 Dichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
Chloroform	0.05	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	0.05	nd	nd	nd	nd	nd	nd	nd
1,1,1 Trichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
1,1,2 Trichloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethane	0.05	nd	nd	nd	nd	nd	nd	nd
Recovery (%)		87	106	103	100	82	82	121

"nd" Indicates Not Detected at the listed detection limit.

"int" Indicates that interference peaks prevent determination.

TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST INC.

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GOODYEAR PROJECT
 Yakima, Washington
 MAXIM Technologies

Gasoline, Diesel and Oil in Soil by WTPH-G and WTPH-D/D-Extended

Sample Number	Date	Recovery %	Gasoline mg/kg	Diesel mg/kg	Heavy Oil mg/kg
Meth. Blank	08/17/95	99	nd	nd	nd
G2-03	08/17/95	97	nd	nd	nd
G2-04	08/17/95	101	nd	nd	nd
G2-04-Dup	08/17/95	105	nd	nd	nd
G2-05	08/17/95	93	nd	nd	nd
G2-06	08/17/95	102	nd	nd	nd
Sump #2	08/17/95	98	nd	nd	20
TP8-6'	08/17/95	100	nd	nd	nd
TP8-10'	08/17/95	116	nd	nd	68
TP9-3'	08/17/95	99	nd	nd	65
TP9-6'	08/17/95	99	nd	nd	47
TP9-10'	08/17/95	108	nd	nd	25
TP4-3'	08/17/95	118	nd	nd	21
TP4-6'	08/17/95	110	nd	nd	nd
TP4-10'	08/17/95	97	nd	nd	nd
TP14-3'	08/17/95	91	nd	nd	447
TP14-3'-Dup	08/17/95	89	nd	nd	442
MDL			10	10	20

nd Indicates not detected at the listed detection limit.

int Indicates that interference peaks prevent determination.

GOODYEAR PROJECT
Yakima, Washington
MAXIM Technologies

Total Lead Analyses (EPA 7420) for Soils

SAMPLE Number	Date Analyzed	Lead (mg/kg)
Meth. Blank	08/22/95	nd
G1-01	08/22/95	nd
G1-01 Dup.	08/22/95	nd
G1-02	08/22/95	nd
G1-03	08/22/95	nd
G2-01	08/22/95	nd
G2-02	08/22/95	nd

Method Detection Limit = 8.0 mg/kg
"nd" Indicates Not Detected at the listed MDL.

APPENDIX 4



UNDERGROUND STORAGE TANK Permanent Closure/Change-In-Service Checklist

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

This Permanent Closure Checklist shall be completed and signed by a Licensed Decommissioning Supervisor. The supervisor shall be on site when all tank permanent closure/change-in-service activities are being conducted. The firm which employs the licensed supervisor shall also be licensed by the Washington State Department of Ecology as a Service Provider. If any of the activities listed below have been supervised by a different licensed supervisor, a separate checklist must be filled out and signed by the licensed supervisor performing those activities.

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

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

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

1. UST SYSTEM OWNER AND LOCATION

Site Owner/Operator: Mike Lovering

Owners Address: 15406 25th Lane SE
Street
Mill Creek WA 98102
City State ZIP-Code

Telephone: ()

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

Site/Business Name: Elliot Tire Center

Site Address: W Front and E Lincoln
Street
Yakima WA 98901
City State ZIP-Code

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

Firm: Cayuse Grounds maintenance License Number: _____

Address: 60 Olden Way
Street
Toppenish WA 98448
City State ZIP-Code

Telephone: (509) 865-5886

Licensed Supervisor: Bryan Muhl Decommissioning License Number: 32-45-3200796

This page must be completed separately for each tank permanently closed (decommissioned) or change-in-service at the site. For additional tanks you may photocopy this form prior to completing.

3. TANK CLOSURE/CHANGE-IN-SERVICE INFORMATION

1. Tank ID Number (as registered with Ecology): 01-02
2. Year installed: unknown
3. Tank capacity in gallons: 1000 gal / 1000 Gallon
4. Date of last use: unknown
5. Last substance stored: Gasoline / Diesel
6. Date of closure/change-in-service: Aug 95
7. Type of closure: Closure with Tank Removal In-place Closure Change-in-Service

8. If in-place closure is used, the tank has been filled with the following substance: _____

9. If change-in-service, indicate new substance stored in tank: _____

10. Local permit(s) (if any) obtained from: _____

Always contact local authorities regarding permit requirements.

11. Has a site assessment been completed? Yes No

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

4. CHECKLIST

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

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

*Item not applicable

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

Persons submitting false information are subject to penalties under Chapter 173-360 WAC.

Aug 95
Date

[Signature]
Signature of Licensed Supervisor

5. ADDITIONAL REQUIRED SIGNATURES

Date

Signature of Licensed Service Provider (firm) Owner or Authorized Representative

Date

Signature of Tank Owner or Authorized Representative



UNDERGROUND STORAGE TANK Site Check/Site Assessment Checklist

The purpose of this form is to certify the proper investigation of an UST site for the presence of a release. These activities shall be conducted in accordance with Chapter 173.360 WAC. A description of the various situations requiring a site check or site assessment is provided in the guidance document for UST site checks and site assessments.

This Site Check/Site Assessment Checklist shall be completed and signed by a person registered with the Department of Ecology to perform site assessments.

Two copies of the results of the site check or site assessment should be included with this checklist according to the reporting requirements in the guidance document for UST site checks and site assessments.

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

The completed checklist should be mailed to the following address:

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

1. UST SYSTEM OWNER AND LOCATION

UST Owner/Operator: Mike Lowering

Owners Address: 15406 25th Lane SE.
Street
Mill Creek WA. 98102
City State ZIP Code

Telephone: ()

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

Site/Business Name: Elliot Tire Center

Site Address: N. Front and E. Lincoln Yakima
Street County
Yakima WA. 98902
City State ZIP Code

2. SITE CHECK/SITE ASSESSMENT CONDUCTED BY:

Registered Person: Brian Mull

Address: 60 Olden Way
Street
Tupenish WA. 98448
City State ZIP Code

Telephone: (509) 865-5086

3. TANK INFORMATION

1. Tank ID Number (as registered with Ecology): 01-02

2. Year Installed: Unknown

3. Tank capacity in gallons: 1000 gallons / 1000 Gallon

4. Last substance stored: Gasoline / Dies

4. REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT

Check one:

- Investigate suspected release due to on-site environmental contamination
- Investigate suspected release due to off-site environmental contamination
- Extend temporary closure of UST system for more than 12 months
- UST system undergoing change-in-service
- UST system permanently closed-in-place
- UST system permanently closed with tank removed
- Required by Ecology or delegated agency for UST system closed before December 22, 1988
- Other (describe): _____

5. CHECKLIST

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

	Yes	No
1. Has the site check/site assessment been conducted according to applicable procedures specified in the UST site check/site assessment guidance issued by the Department of Ecology?	X	
2. Has a release from the UST system been confirmed? <i>NOTE: Owners/operators must report all confirmed releases to the Department of Ecology or delegated agency within 24 hours.</i>	X	
3. Are the results of the site check/site assessment enclosed with this checklist? <i>NOTE: Two copies of the site check/site assessment results must be submitted to the Department of Ecology according to the reporting requirements specified in the UST site check/site assessment guidance.</i>	X	

I hereby certify that I have been in responsible charge of performing the site check/site assessment described above. Persons submitting false information are subject to penalties under Chapter 173.360 WAC.

Aug 1995
Date

[Signature]
Signature of Person Registered with Ecology

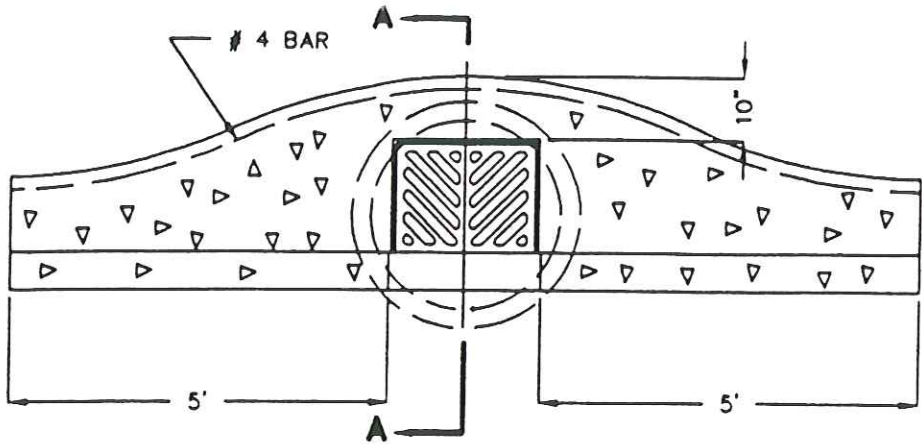
6. OWNER'S SIGNATURE

Date

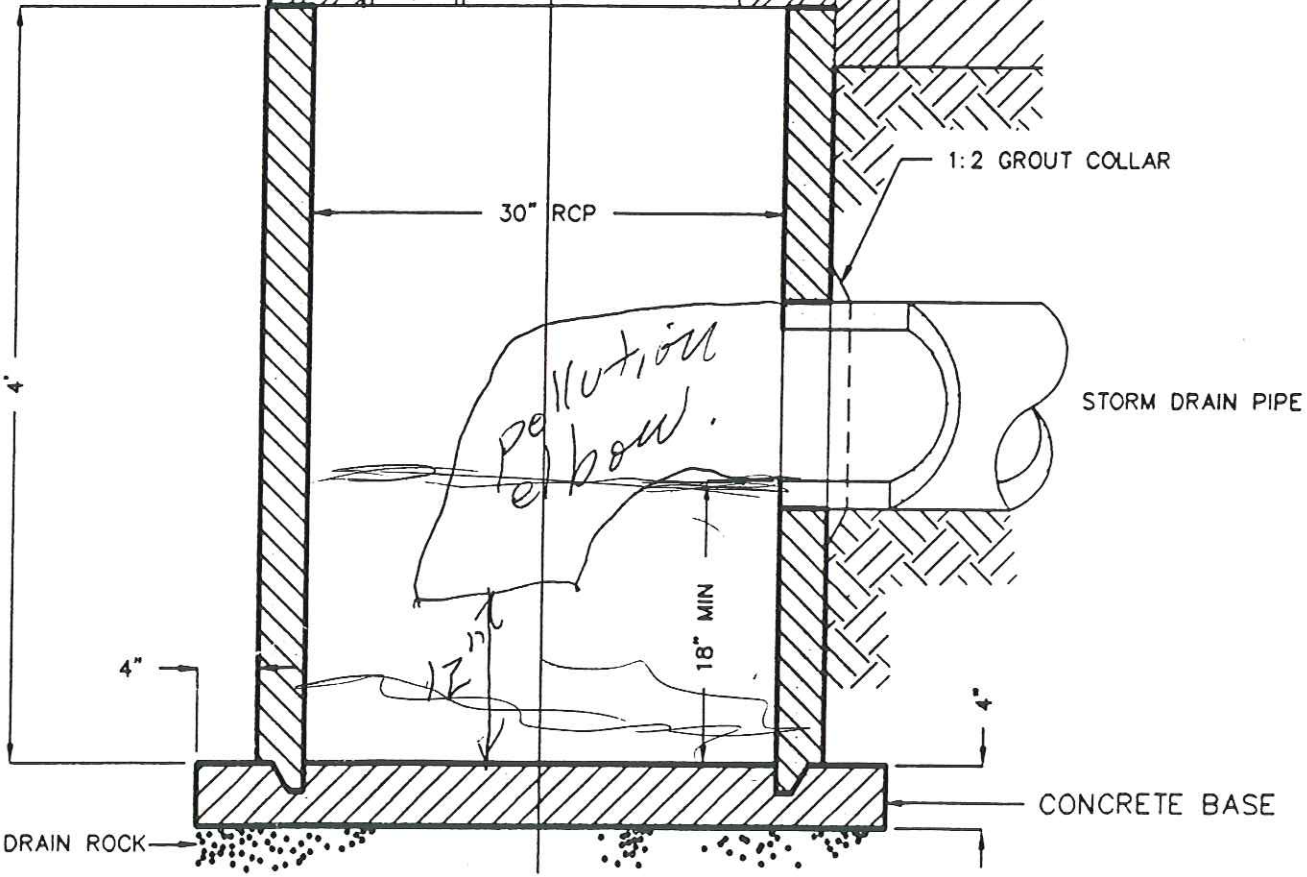
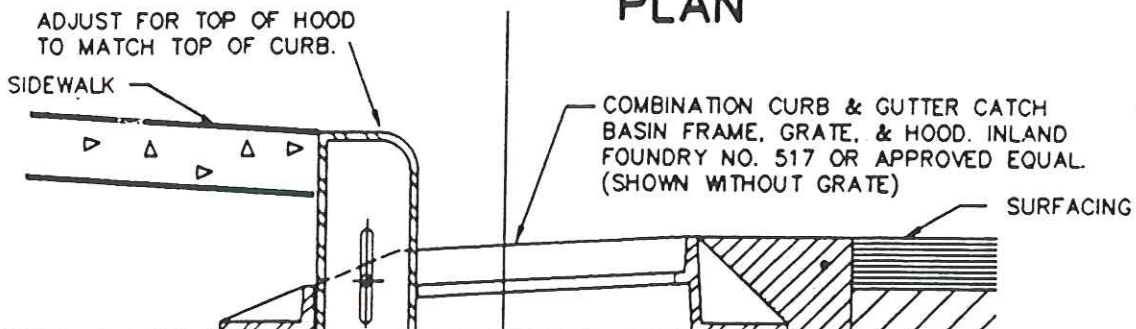
Signature of Tank Owner or Authorized Representative

APPENDIX H
NEW SUMP CONSTRUCTION

Pacluf



PLAN



SECTION A - A

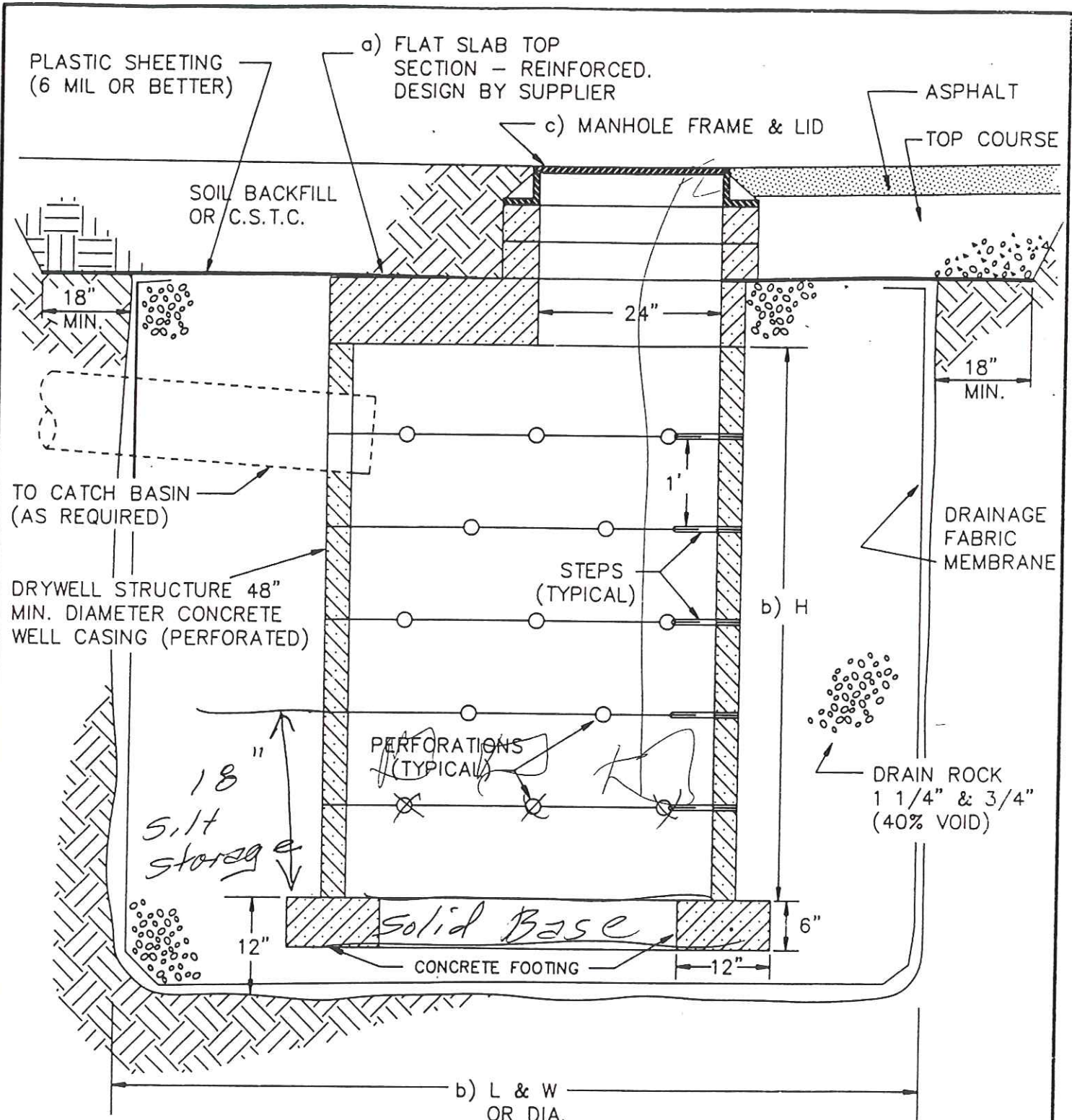
NOTE:
 ONLY THE LATEST DETAIL, AS APPROVED BY
 THE CITY ENGINEER, SHALL BE USED.

Revision	Date	Description	Appr
1	1-24-95	REMOVE HOLE IN BASE AND ADD "CONCRETE BASE" NOTE.	<i>[Signature]</i>
ORIG.	3-7-90		

CITY OF YAKIMA - STANDARD DETAIL

CATCH BASIN

D1




NOTES:

- a) OPTIONAL ECCENTRIC CONE.
- b) DIMENSION AS REQUIRED FOR 1" RAINFALL OVER DRAINAGE AREA, OR 10-YEAR STORM USING RATIONAL METHOD.
- c) OPTIONAL SLOTTED GRATE MANHOLE LID.

NOTE:

ONLY THE LATEST DETAIL, AS APPROVED BY THE CITY ENGINEER, SHALL BE USED.

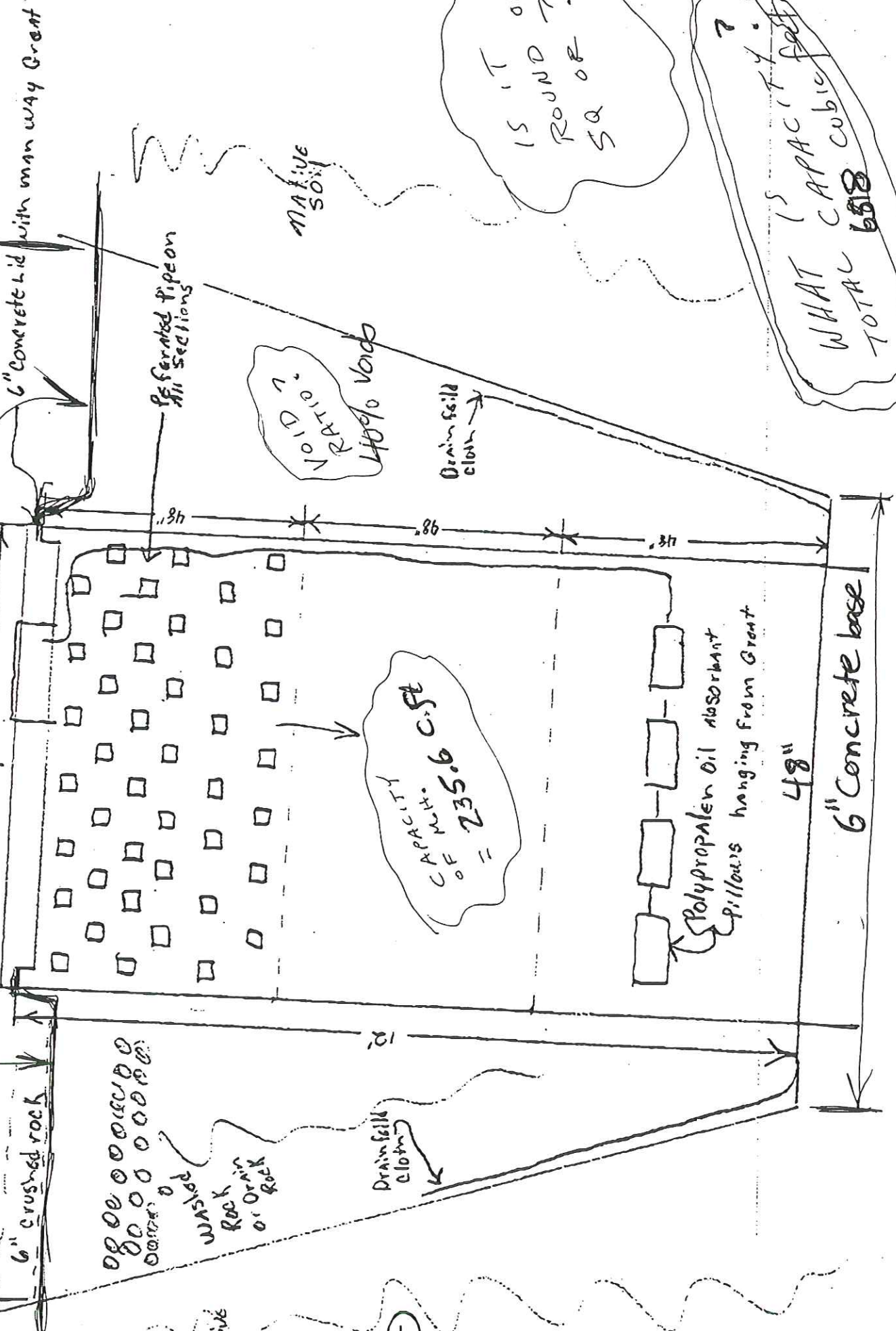
ORIG.	3-7-90		 Appr
Revision	Date	Description	

Goodyear Site - design of New dry well.

DIST. ?

6 mil. thick
Plexiglas
Sheet

48"



6" concrete lid with man way Grate

perforated pipe on all sections

VOID RATIO 40% Voids

Drainfield cloth

48"

48"

48"

CAPACITY = 235.6 C.F.

Polypropylene oil absorbent pillows hanging from Grate

48"

6" Concrete base

NATIVE SOIL

IS IT OR ROUND OR SA OR ?

WHAT IS CAPACITY?
TOTAL 6518 cubic feet

Elliott (Good year) Tire Center

$$19,200 \text{ roof} + 12,100 \text{ Parking Lot} = 31,300' \text{ square feet}$$

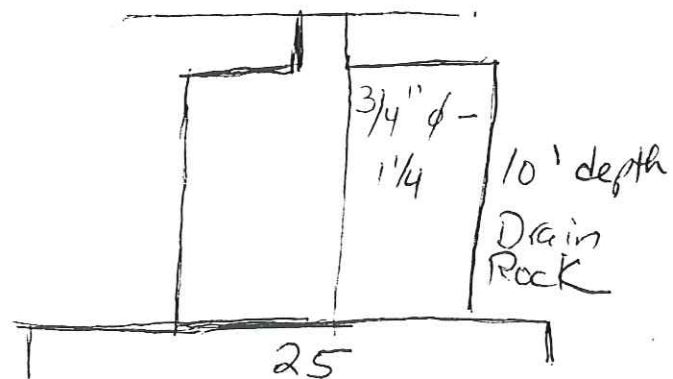
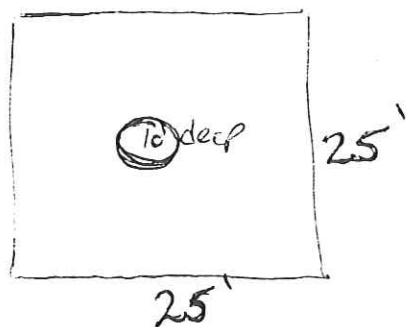
$$31,300 \times 0.0833 = 2607 \text{ cubic Feet (Volume)}$$

Assume:

$$40\% \text{ Voids} = (0.4)$$

$$\frac{2607 \text{ cubic ft}}{0.4 \text{ \% Voids}} = 6518 \text{ cubic feet Total.}$$

$$\frac{6518}{10' \text{ depth}} = \sqrt{651.8} = 25 \times 25 \times 10$$



Kevin Callow
525-6120

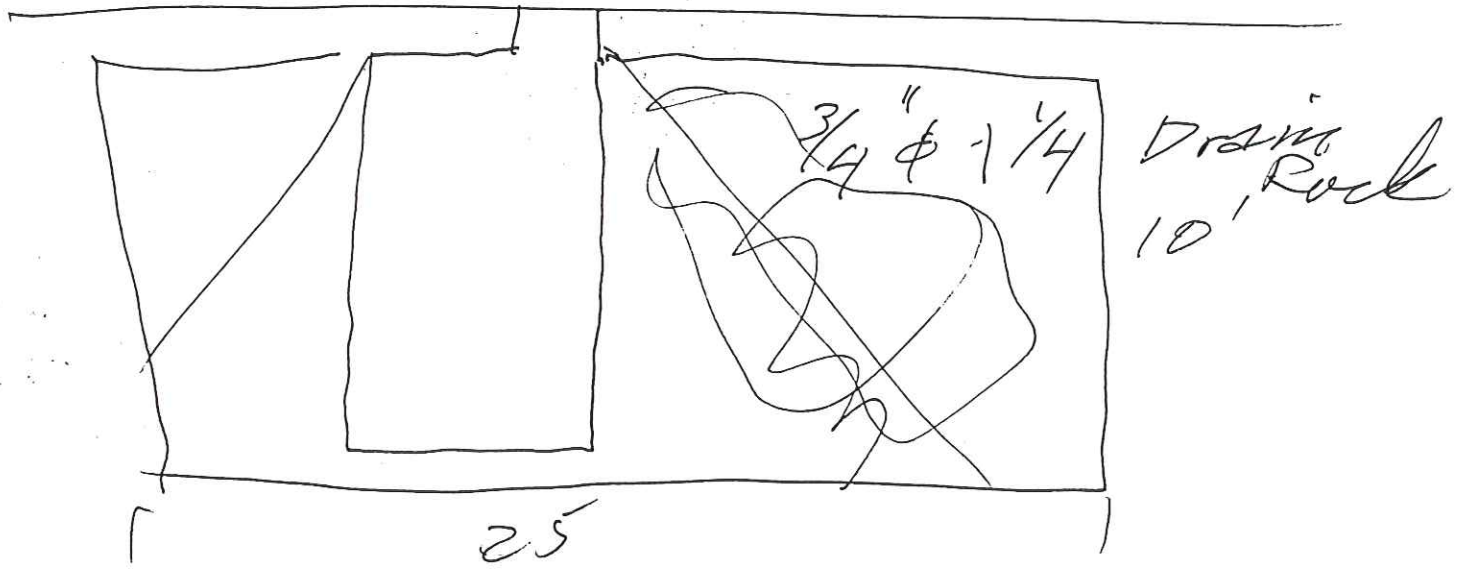
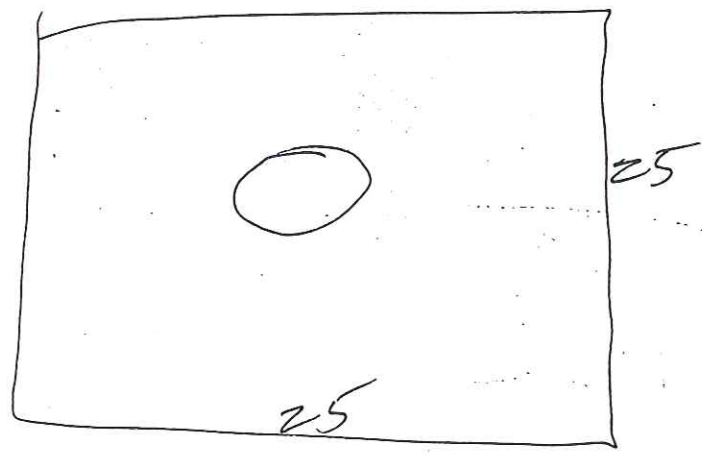
$$\begin{array}{r} 19,200 \\ 12,100 \\ \hline \end{array}$$

$$31,300 \times 0.0833' = 2607 \text{ CF}$$

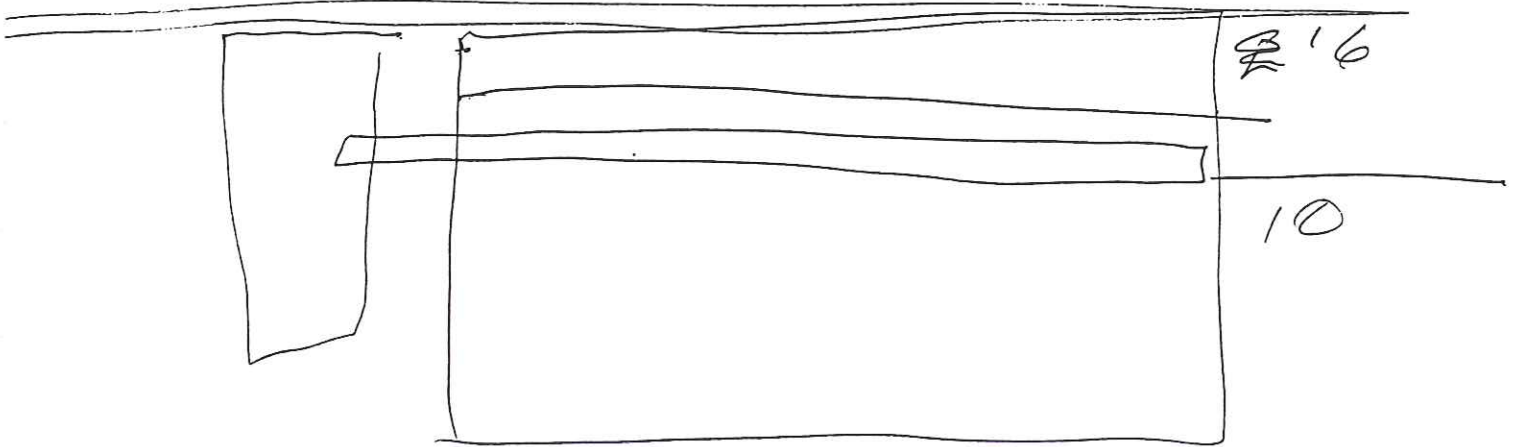
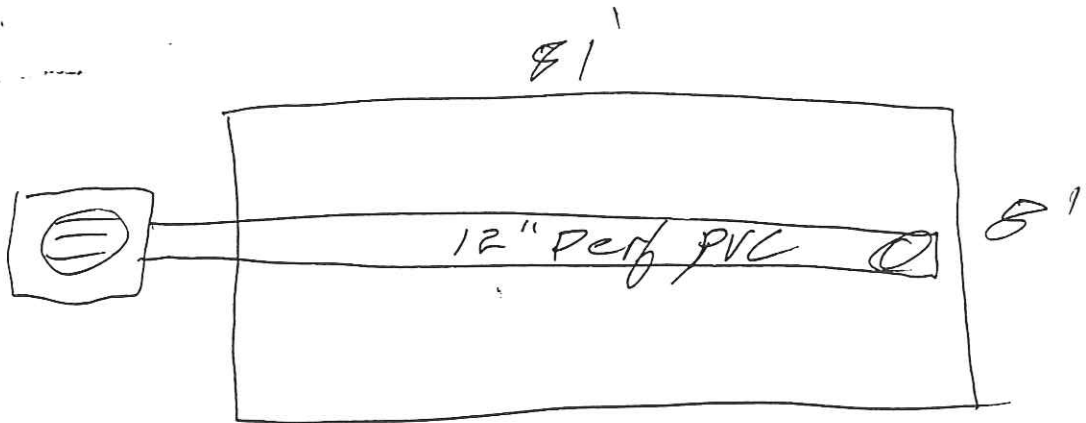
0.4 = 40% Voids Volume

$$\frac{2607}{.4} = \underline{\underline{6518 \text{ CF Total}}}$$

$$\frac{6518}{10} = \sqrt{651.8} = 25 \times 25 \times 10$$



m



$$81 \times 8 \times 10 = 6480 \text{ CF}$$

