

DRAFT FINAL
REMEDIAL EXCAVATION REPORT

Chevron Facility No. 100-1157
West 15th Avenue and North Water Street
Ellensburg, Washington 98926

June 8, 2005

Prepared for:



Chevron Environmental Management Company
6001 Bollinger Canyon Road, K2252
San Ramon, CA 94583

Prepared by:



Science Applications International Corporation
18912 North Creek Parkway, Suite 101
Bothell, WA 98011



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LIMITATIONS

Limitation of use: SAIC's investigation was restricted to collection and analyses of a limited number of environmental samples and visual observations obtained during the physical site visit, and from records made available by Chevron during the investigation. Because the investigation consisted of collecting and evaluating a limited supply of information, SAIC may not have identified all potential items of concern and, therefore, SAIC warrants only that the project activities under this contract have been performed within the parameters and scope communicated by Chevron and reflected in the contract. This report is intended to be used in its entirety. Taking or using in any way excerpts from this report are not permitted and any party doing so does so at its own risk.

1.0 BACKGROUND

Chevron Facility No. 100-1157 is a former bulk facility located on the northwest corner of the intersection of West 15th Avenue and North Water Street in Ellensburg Washington. The facility operated as a bulk fuel transfer station from the 1920s through the 1980s. The property was sold to ARH Distributors in 1980, and purchased shortly after by Wondrack Distributing in 1986. Operations on the site ceased after the transfer to Wondrack Distributing. The facility was decommissioned, and all above ground and underground tanks, piping, and associated buildings were removed in 1997. The only exception was a garage located in the southwest corner of the property that has been privately rented as a storage facility.

The City of Ellensburg encountered petroleum contaminated soils during trenching operations while installing a sewer line along North Water Street in 1995. The Department of Ecology was notified of the City's findings. Impacted soils were removed from the trench by the City of Ellensburg.

As a result, a Site Hazard Assessment (SHA) was performed by the Kittitas County Health Department as required under the Model Toxics Control Act (MTCA). Soil samples were collected from twelve test pits (TP-1 through TP-12) and analyzed for petroleum constituents, and total petroleum hydrocarbons. Analytical results indicated levels of contamination above the MTCA Method A cleanup levels were present on the property, and offsite to the southeast. The site was given a SHA ranking of 2. Details of the SHA ranking are presented in the report *Site Hazard Assessment*, Kittitas County Health Department, Mr. Gerald Tousley, July 7, 1997.

In response to the SHA ranking, a Site Assessment was performed on behalf of Chevron in the summer of 1998. Assessment activities included the installation of eight monitoring wells (MW-1 through MW-8). Soil and groundwater samples were collected from each well location.

Petroleum impacted soils were again encountered in the public right-of-way in 1999 during the installation of a television cable line along West 15th Avenue. The Department of Ecology was notified of these findings.

In 2002, under partial fulfillment of Ecology issued Agreed Order No. DE 02TCPCR-3982, Remedial Investigation/Feasibility Study (RI/FS) activities began to determine the nature and extent of subsurface contamination. Upon completion of the RI/FS in March of 2003, the Agreed Order expired, and the Site was entered into the Voluntary Cleanup Program (VCP). Remedial activities discussed in this report were completed as a voluntary action under the guidelines of the VCP.

2.0 SCOPE OF WORK

For a detailed discussion of the scope of work, refer to the Cleanup Action Plan (CAP). Soil removal and offsite disposal was selected as the preferred remedial alternative, and all remediation activities were completed following the procedures outlined in the Remedial Work Plan (SAIC, October 2004). Soil removal activities were restricted by the shallow groundwater

table, and the close proximity of impacted soil to the public right of way. An SAIC representative was onsite to supervise all of the following field tasks.

The goal of this remedial action was to remove all accessible soil on the Site that exceeded the cleanup levels as defined in the *Cleanup Action Plan (SAIC 2004) (CAP)*. This was accomplished by excavating impacted soil from contaminated areas that were defined by previous subsurface investigations. Specific tasks that were completed for this project are outlined below:

- Obtained all required permits for the excavation.
- Notified the Utilities Underground Location Center and scheduled a private locating service prior to beginning work.
- Provided oversight during abandonment of monitoring wells located within the excavation area.
- Provided technical oversight during an excavation of hydrocarbon-impacted soil.
- Collected analytical compliance samples from the sidewalls and base of the completed excavation and soil stockpiles to ensure that impacted soils were removed.
- Selected soil samples to be analyzed daily by an onsite laboratory for hydrocarbon analysis.
- Coordinated the disposal of soil with contaminant detections that exceeded cleanup levels.
- Installed two monitoring wells along the downgradient property boundary (as shown on Figure 1).

3.0 REMEDIAL ACTIVITIES

3.1 Permitting Requirements

The City of Ellensburg required a State Environmental Protection Act (SEPA) Checklist. The checklist was completed, the project went through a full SEPA review and a Determination of Non-Significance was issued by the City of Ellensburg. A copy of the SEPA determination is included as Appendix A.

3.2 Monitoring Well Abandonment

Prior to remedial excavation activities at the site, all monitoring wells located within or near the proposed excavation footprint were abandoned. Monitoring wells MW-2, MW-3, MW-6, MW-7 and MW-8 were abandoned by a licensed driller from Cascade Drilling of Woodinville, Washington in accordance with 170-160 WAC. Each 4-inch diameter well was abandoned by chipping to the surface with hydrated bentonite clay. Wells located outside the proposed limits of the soil excavation were left in place for future groundwater monitoring. Well locations are shown in Figure 1.

3.3 Subsurface Utility Location

Prior to remedial activities, all underground utilities on the site were located by Applied Professional Services Inc. (APS). In addition to the private utility location, the Northwest Utility Notification Center was notified of the proposed remedial activities. Utility maps were also obtained from the City of Ellensburg for water, sewer, storm water and natural gas lines in the vicinity of the site. Prior to excavation activities, a representative from the City of Ellensburg visited the site to confirm that all utilities had been marked, and disconnected.

3.4 Remedial Excavation

Approximately 4,850 tons of petroleum-contaminated soil was removed from the Site between December 27, 2004 and January 20, 2005. The excavation was backfilled to original grade with imported soil. The excavation extents and sample collection locations are presented in Figure 2. Field-screening was conducted on excavated soils using a photoionization detector (PID) for combustible vapor measurement, sheen testing, and visual analysis.

Cleanup levels, as presented in the CAP, were set at MTCA Method A cleanup standards for all constituents except diesel-range and lube oil-range hydrocarbons. Cleanup standards for these two constituents were set at 460 milligrams per liter (mg/kg) to be protective of terrestrial environments. Confirmation samples were collected from the excavation sidewalls to ensure the removal of all contaminated soils above the selected cleanup regulations. Samples exceeding the site-specific cleanup levels were over-excavated and re-sampled until soil sample concentrations were below cleanup levels. Limited volumes of impacted soils were left on the excavation bottom below the groundwater table, where removal was not feasible, due to the groundwater level. Site cleanup goals were set vertically from surface to groundwater, and bounded laterally only by the south property line bordering West 15th Avenue. In an attempt to remove as much contamination above groundwater as possible, the excavation was extended laterally across the west property line onto state park property. With permission from the State Park, approximately ten cubic yards of contaminated soil were removed from State Park property. The excavation was limited vertically by shallow groundwater. Contamination was detected at concentrations exceeding cleanup levels in locations below the groundwater table. The excavation was extended to a depth between 1 to 3 feet below groundwater in order to remove as much impacted soil as practical.

When completed, the excavation measured approximately 165 feet from east to west along West 15th Avenue, and 130 feet from north to south across the property. Excavation depth was between 4 to 6.5 feet below ground surface, depending on the depth of the groundwater table. Figure 2 presents the lateral excavation extents.

3.5 Garage Demolition

The wood frame, non-insulated garage located along the west property line was demolished during remediation activities to allow for removal of contaminated soils located beneath the footprint of the garage. A City of Ellensburg Demolition Permit was obtained from the Department of Community Development, and a city inspector was onsite to approve the building

removal. The footprint of the former garage is shown on Figure 1. Demolition waste was hauled by truck to the Yakima County Landfill, east of Ellensburg.

To confirm the necessity of removing the garage, test pits were completed to a depth below groundwater in two locations adjacent to the garage prior to demolition (Figure 2). Analytical samples collected from the test pit locations were labeled TP-1 and TP-2 in the field. They have been renamed as EX-TP-1 and EX-TP-2 respectively. Analytical results are presented in Table 1 to avoid repeating previously used sample location identifiers (TP-1 and TP-2 were previously used by Kittitas County during their SHA in 1997). The locations of EX-TP-1 and EX-TP-2 are presented on Figure 2. Analytical results confirmed that contamination did exist in elevated levels beneath the garage footprint, and building demolition was required to remove these contaminated soils.

3.6 Subsurface Conditions

Shallow groundwater beneath the site typically occurs from approximately 3.2 to 5.75 feet bgs. Seasonal fluctuations of 0.5 to 1.0 foot have been observed. The groundwater is at its lowest levels in the winter. Groundwater flow directions vary from southeast to southwest and are influenced by seasonal variation. The hydraulic gradients across the site are low, ranging from 0.005 to 0.006 ft/ft.

Previous site characterization, current test pit logs, and boring logs from wells MW-9, 10, and 11 describe the subsurface soils as typically consisting of very dense clayey gravel and sand with coarse gravel and occasional cobbles to 15 feet below ground surface (bgs). The subsurface material is brown and dark green in color and dense to very dense in compaction. A layer of rounded gravel and river rock was observed at 4.5 to 6.5 feet bgs in test pits completed to the south and southeast of the site.

Soils encountered during excavation activities were consistent with the above characterization. Depths to groundwater varied from approximately 5.5 feet bgs along the north side of the property, to 3 feet bgs along the south property line.

More detailed hydrogeologic and geologic information is presented in the RI/FS (SAIC, 2004).

3.7 Laboratory Analysis

Soil samples collected during excavation activities were analyzed by Environmental Services Network Northwest (ESN). ESN is a Washington State accredited chemical analytical laboratory. ESN processed soil samples on site in a mobile laboratory within 24 hours of collection for gasoline range hydrocarbons by Environmental Protection Agency (EPA) method 8015, Benzene, Toluene, Ethylbenzene, and total Xylenes (BTEX) by EPA 8021B, and Diesel- and Lube-oil range hydrocarbons by EPA 8015. One or more duplicate samples were analyzed per day. Analytical results for soil samples collected from the excavation are summarized in Table 2 attached. Laboratory data sheets are also included as Appendix B.

Five samples (EX-76-3 through EX-80-5) were collected after soil removal activities were complete. See Figure 2 for sample locations. These samples were not collected to confirm removal of contaminated soil, as they were collected from the south edge of the excavation along the sidewalk. These samples were submitted to Lancaster Laboratories in Lancaster, Pennsylvania. Lancaster is an accredited chemical analytical laboratory. All samples submitted were analyzed for gasoline- range hydrocarbons by EPA method NWTPH-Gx, BTEX by EPA method 8021B, and diesel- and lube-oil range hydrocarbons by EPA method NWTPH-Dx extended range with silica gel cleanup.

As presented in Table 2, contaminants consisting of gasoline- and diesel-range hydrocarbons and low concentrations of benzene were detected in some of the soil samples collected from below the water table and therefore not over excavated.

3.8 Soil Disposal

All excavated soil was removed from the site and hauled by truck to the Waste Management (WM) Wenatchee Landfill located in Wenatchee, Washington. A total of 4,850 tons of soil were removed from the site.

Due to the shallow depth of contamination, the size of the excavation, and the limited space for equipment, trucks, and soil, no clean soil was stockpiled on site or returned to the excavation as backfill material. All excavated material was removed from the site for disposal.

3.9 Site Regrading

Following the excavation and removal of all accessible petroleum contaminated soils from the site, the excavation was backfilled to original grade. Backfill material consisted of quarry smalls from the bottom of excavation to one foot above groundwater, and two-inch screenings to bring the excavation to grade. All backfill materials were imported locally from Ellensburg Cement Products (ECP).

3.10 Monitoring Well Installation

On March 15, 2005, Cascade Drilling Inc. installed groundwater monitoring wells MW-13 and MW-14 along the southern property boundary adjacent to the 15th Avenue West sidewalk. The wells were installed using 2-inch schedule 40 PVC pipe with 20 slot screen from 5 to 13 feet bgs. The well screen was surrounded by a sand pack to 3.5 feet bgs, and sealed to the surface with bentonite clay chips, and completed with concrete. Following installation, each well was developed by removing ten well volumes of agitated groundwater. Both wells were installed and developed according to the Well Installation Work plan, and SAIC standard operating procedures. Well logs for MW-13 and MW-14 are attached as Appendix C. Well locations are shown on Figure 1.

4.0 CONCLUSIONS

Soil samples collected from the base and sidewalls of the excavation confirm that all petroleum contaminated soil above the Site-specific cleanup levels located on the property above the

groundwater table has been removed from the site. Analytical results for these samples are presented in Table 2. The site specific cleanup level was determined to be direct contact to humans and terrestrial environments. The remediation objective for soil excavation activities was to remove all petroleum contaminated soil from the property located from the ground surface to the water table. This was accomplished by excavating a minimum of 1-foot below the groundwater table across the footprint of the excavation, and extending deeper where possible. Some contaminated soils located in excess of 1-foot below the groundwater table were not excavated due to the difficulty of excavating and removing saturated soils from the premises. Analytical samples containing analytes above MTCA Method A cleanup levels were collected from the base of the excavation to accurately display the level of contamination still present one-foot below the groundwater table and deeper. Samples collected along the south property boundary indicate that impacted soils remain beneath the public right-of-way along 15th Avenue West. To control the possibility of future human and terrestrial exposure to contaminated soils below the roadway, Chevron will institute deed restrictions, and a Soil Management Plan with the City of Ellensburg.

Previous groundwater sampling indicates that contamination has not been detected in the groundwater beneath the site. Two additional groundwater monitoring wells were installed along the south property line to monitor groundwater conditions beneath the site. It is anticipated that the removal of contaminant source (the on-site soil) will result in groundwater contaminant concentrations below laboratory detection limits. The site will be placed on a quarterly monitoring schedule until four consecutive sampling events confirm that no contamination impact to the groundwater beneath the site is present, at which time Chevron will request a no further action letter from WDOE.

Table 1

Demolition Test Pits
Soil Analytical Results
Former Chevron Facility No. 100-1157
Ellensburg, Washington

Sample ID	Sample Depth (feet)	Sample Date	Benzene ¹ (mg/kg)	Toluene ¹ (mg/kg)	Ethylbenzene ¹ (mg/kg)	Xylene ¹ (mg/kg)	TPH-G ² (mg/kg)	TPH-D ³ (mg/kg)	TPH-LO ³ (mg/kg)
Excavation Test Pit Samples									
EX-TP-1-1.5	1.5 /A	12/29/04	8.3	2.1	12	6.6	560	1,500	<40
EX-TP-1-2.5	2.5 /A	12/29/04	16	5.4	48	39	2,700	4,400	<40
EX-TP-1-5.5	5.5 /B	12/29/04	8.9	2.7	30	22	1,500	350	<40
EX-TP-2-3	3.0 /A	12/29/04	0.05	<0.05	0.28	2	685	2,800	<40
EX-TP-2-4	4.0 /B	12/29/04	3.9	3.6	53	47	3,300	4,200	<40
MTCA Method A									
Cleanup Level	--	--	0.03	7	6	9	30	460	460

Notes:

Sample IDs changed from TP-1-depth & TP-2-depth to EX-TP-1-depth & EX-TP-2 to avoid reusing previous sample designations.

Shaded values exceed MTCA Clean-up Levels

Bold samples were overexcavated and removed from the site

A = Sample obtained from above the water table.

B = Sample obtained below the water table.

1 = BTEX analyzed by Method USEPA 8021B

2 = TPH-G, (Gasoline Range Hydrocarbons) analyzed by Ecology Method 8015

3 =TPH-D, TPH-LO, (Kerosene, Diesel and Lube Oil Range Hydrocarbons) analyzed by Ecology Method 8015

4 = Sample analyzed for BTEX and TPH-G the following day, 1/13/05

5 = Samples were analyzed by Lancaster Laboratories for BTEX by EPA 8021B, TPH-G by NWTPH-Gx, and TPH-D and TPH-LO by NWTPH-Dx extended range with silica gel cleanup.

Table 2
Excavation Samples
Soil Analytical Results
Former Chevron Facility No. 100-1157
Ellensburg, Washington

Sample ID	Sample Depth (feet)	Sample Date	Benzene ¹ (mg/kg)	Toluene ¹ (mg/kg)	Ethylbenzene ¹ (mg/kg)	Xylene ¹ (mg/kg)	TPH-G ² (mg/kg)	TPH-D ³ (mg/kg)	TPH-LO ³ (mg/kg)
EX-1-6	6.0/B	12/27/04	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-1-6 Dup	6.0/B	12/27/04	<0.02	<0.05	<0.05	<0.05	<10	<20	47
EX-2-5.5	5.5/A	12/28/04	<0.02	<0.05	<0.05	<0.05	<10	72	<40
EX-2-5.5 Dup	5.5/A	12/28/04	<0.02	<0.05	<0.05	<0.05	--	--	--
EX-3-5.5	5.5/A	12/28/04	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-4-5.5	5.5/A	12/29/04	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-4-5.5 Dup	5.5/A	12/29/04	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-5-5.5	5.5/A	12/29/04	0.02	<0.05	0.69	1.1	1,000	4,600	<40
EX-6-5.5	5.5/A	12/29/04	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-7-5.5	5.5/A	12/29/04	<0.02	<0.05	<0.05	<0.05	290	2,300	<40
EX-8-5.5	5.5/A	12/29/04	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-9-5.5	5.5/A	12/29/04	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-10-5.5	5.5/A	1/3/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-11-5.5	5.5/A	1/3/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-12-5.5	5.5/A	1/3/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-12-5.5 Dup	5.5/A	1/3/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-13-6.0	6.0/B	1/3/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-14-5.5	5.5/A	1/3/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-15-6.5	6.5/B	1/4/05	0.25	<0.05	1.2	2	610	1,300	<40
EX-16-6	6.0/B	1/4/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-17-5.5	5.5/B	1/4/05	0.07	0.15	1.2	1.3	570	1,100	<40
EX-18-4	4.0/A	1/4/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-18-4 Dup	4.0/A	1/4/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-19-4	4.0/A	1/4/05	<0.02	<0.05	<0.05	<0.05	240	820	<40
EX-20-4	4.0/A	1/5/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-20-4 Dup	4.0/A	1/5/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-21-5.5	5.5/B	1/5/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-22-6	6.0/B	1/5/05	0.28	0.36	0.33	0.98	270	1,400	<40
EX-23-6	6.0/B	1/5/05	0.94	1.5	11	4.8	1,300	3,100	<40

Table 2
Excavation Samples
Soil Analytical Results
Former Chevron Facility No. 100-1157
Ellensburg, Washington

Sample ID	Sample Depth (feet)	Sample Date	Benzene ¹ (mg/kg)	Toluene ¹ (mg/kg)	Ethylbenzene ¹ (mg/kg)	Xylene ¹ (mg/kg)	TPH-G ² (mg/kg)	TPH-D ³ (mg/kg)	TPH-LO ³ (mg/kg)
EX-24-2.5	2.5 /A	1/5/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-25-5.5	5.5 /B	1/5/05	0.04	0.15	2.5	2.5	1,100	1,800	<40
EX-26-4	4.0 /B	1/5/05	0.66	2.8	0.41	0.91	1,000	1,600	<40
EX-27-3.5	3.5 /A	1/6/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-27-3.5 Dup	3.5 /A	1/6/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-28-5	5.0 /B	1/6/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-29-5	5.0 /B	1/6/05	0.06	<0.05	0.26	0.5	760	1,700	<40
EX-30-3	3.0 /B	1/6/05	<0.02	<0.05	0.08	<0.05	39	240	<40
EX-31-4	4.0 /B	1/6/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-32-4	4.0 /B	1/6/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-33-3	3.0 /B	1/6/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-34-4	4.0 /B	1/6/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-35-3	3.0 /B	1/11/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-36-5	5.0 /B	1/11/05	0.05	0.16	<0.05	1.8	390	870	<40
EX-37-3	3.0 /B	1/11/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-37-3 Dup	3.0 /B	1/11/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-38-5	5.0 /B	1/11/05	0.03	0.13	<0.05	5.1	1,900	5,300	<40
EX-39-3	3.0 /B	1/11/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-40-5	5.0 /B	1/11/05	<0.02	<0.05	<0.05	0.11	37	<20	<40
EX-41-3	3.0 /B	1/11/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-42-4	4.0 /B	1/11/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-43-3	3.0 /B	1/11/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-44-5	5.0 /B	1/11/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-45-3	3.0 /B	1/11/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-46-5	5.0 /B	1/11/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-46-5 Dup	5.0 /B	1/11/05	--	--	--	--	--	<20	<40
EX-47-3.5	3.5 /A	1/12/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-48-5.5	5.5 /B	1/12/05	0.16	0.37	0.78	0.69	280	790	<40
EX-49-3.5	3.5 /B	1/12/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40

Table 2
Excavation Samples
Soil Analytical Results
Former Chevron Facility No. 100-1157
Ellensburg, Washington

Sample ID	Sample Depth (feet)	Sample Date	Benzene ¹ (mg/kg)	Toluene ¹ (mg/kg)	Ethylbenzene ¹ (mg/kg)	Xylene ¹ (mg/kg)	TPH-G ² (mg/kg)	TPH-D ³ (mg/kg)	TPH-LO ³ (mg/kg)
EX-50-5.0	5.0/B	1/12/05	0.07	0.05	0.20	0.99	47	190	<40
EX-51-3.5	3.5/B	1/12/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-52-5.5	5.5/B	1/12/05	<0.02	0.16	0.08	0.28	320	930	<40
EX-53-5.5	5.5/B	1/12/05	<0.02	<0.05	<0.05	<0.05	<10	31	<40
EX-53-5.5 Dup	5.5/B	1/12/05	<0.02	<0.05	<0.05	<0.05	<10	30	<40
EX-54-3.5	3.5/B	1/12/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-55-5.5	5.5/B	1/12/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-56-6	6.0/B	1/12/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-57-5	5.0/B	1/12/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-58-6	6.0/B	1/12/05 ⁴	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-59-4	4.0/B	1/12/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-59-4 Dup	4.0/B	1/12/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-60-4.5	4.5/B	1/12/05 ⁴	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-61-3.5	3.5/B	1/12/05 ⁴	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-62-4	4.0/B	1/13/05	<0.02	<0.05	<0.05	0.13	390	740	97
EX-62A-2	2.0/A	1/13/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-63-4	4.0/B	1/13/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-64-4	4.0/B	1/13/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-64-4 Dup	4.0/B	1/13/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-65-6	6.0/B	1/13/05	0.10	0.43	0.70	2.64	1,200	2,200	<40
EX-66-4	4.0/B	1/13/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-67-6	6.0/B	1/13/05	<0.02	<0.05	<0.05	<0.05	<10	130	<40
EX-68-3	3.0/A	1/13/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-69-5	5.0/B	1/13/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-70-4	4.0/B	1/13/05	0.04	<0.05	<0.05	<0.05	<10	<20	<40
EX-70-4 Dup	4.0/B	1/13/05	0.05	<0.05	<0.05	<0.05	<10	<20	<40
EX-71-4	4.0/B	1/14/05	0.05	<0.05	0.15	0.05	<10	<20	<40
EX-72-4	4.0/B	1/14/05	0.03	<0.05	<0.05	0.05	<10	<20	<40
EX-73-4	4.0/B	1/14/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40

Table 2
Excavation Samples
Soil Analytical Results
Former Chevron Facility No. 100-1157
Ellensburg, Washington

Sample ID	Sample Depth (feet)	Sample Date	Benzene ¹ (mg/kg)	Toluene ¹ (mg/kg)	Ethylbenzene ¹ (mg/kg)	Xylene ¹ (mg/kg)	TPH-G ² (mg/kg)	TPH-D ³ (mg/kg)	TPH-LO ³ (mg/kg)
EX-74-4	4.0/B	1/14/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-74-4 Dup	4.0/B	1/14/05	<0.02	<0.05	<0.05	<0.05	<10	<20	<40
EX-75-7	7.0/B	1/14/05	0.04	<0.05	0.09	<0.05	<10	<20	<40
EX-76-3 ⁵	3.0/B	1/19/05	<0.005	<0.005	0.007	0.030	<1.0	44	370
EX-77-5 ⁵	5.0/B	1/19/05	<0.005	<0.005	<0.005	<0.02	<1.0	150	79
EX-78-3 ⁵	3.0/B	1/19/05	<0.005	<0.005	<0.005	<0.02	<1.0	46	80
EX-79-5 ⁵	5.0/B	1/19/05	<0.005	<0.005	0.006	<0.02	1.5	14	<10
EX-80-5 ⁵	5.0/B	1/19/05	<0.2	<0.2	2.1	4.3	970	1,400	<100
MTCA Method A									
Cleanup Level	--	--	0.03	7	6	9	30	460	460

Notes:

Shaded values exceed MTCA Clean-up Levels

Bold samples were overexcavated and removed from the site

A = Sample obtained from above the water table.

B = Sample obtained below the water table.

1 = BTEX analyzed by Method USEPA 8021B

2 = TPH-G, (Gasoline Range Hydrocarbons) analyzed by Ecology Method 8015




3 = TPH-D, TPH-LO, (Kerosene, Diesel and Lube Oil Range Hydrocarbons) analyzed by Ecology Method 8015

4 = Sample analyzed for BTEX and TPH-G the following day, 1/13/05

5 = Samples were analyzed by Lancaster Laboratories for BTEX by EPA 8021B, TPH-G by NWTTPH-Gx, and TPH-D and TPH-LO by NWTTPH-Dx extended range with silica gel cleanup.

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LEGEND

- MW-13  GROUNDWATER MONITORING WELL LOCATION AND IDENTIFICATION
- MW-3  ABANDONED MONITORING WELL LOCATION AND IDENTIFICATION
-  FENCE









FORMER CHEVRON BULK PLANT
 NO. 100-1157
 15TH AVENUE & WATER STREET
 ELLENSBURG, WASHINGTON

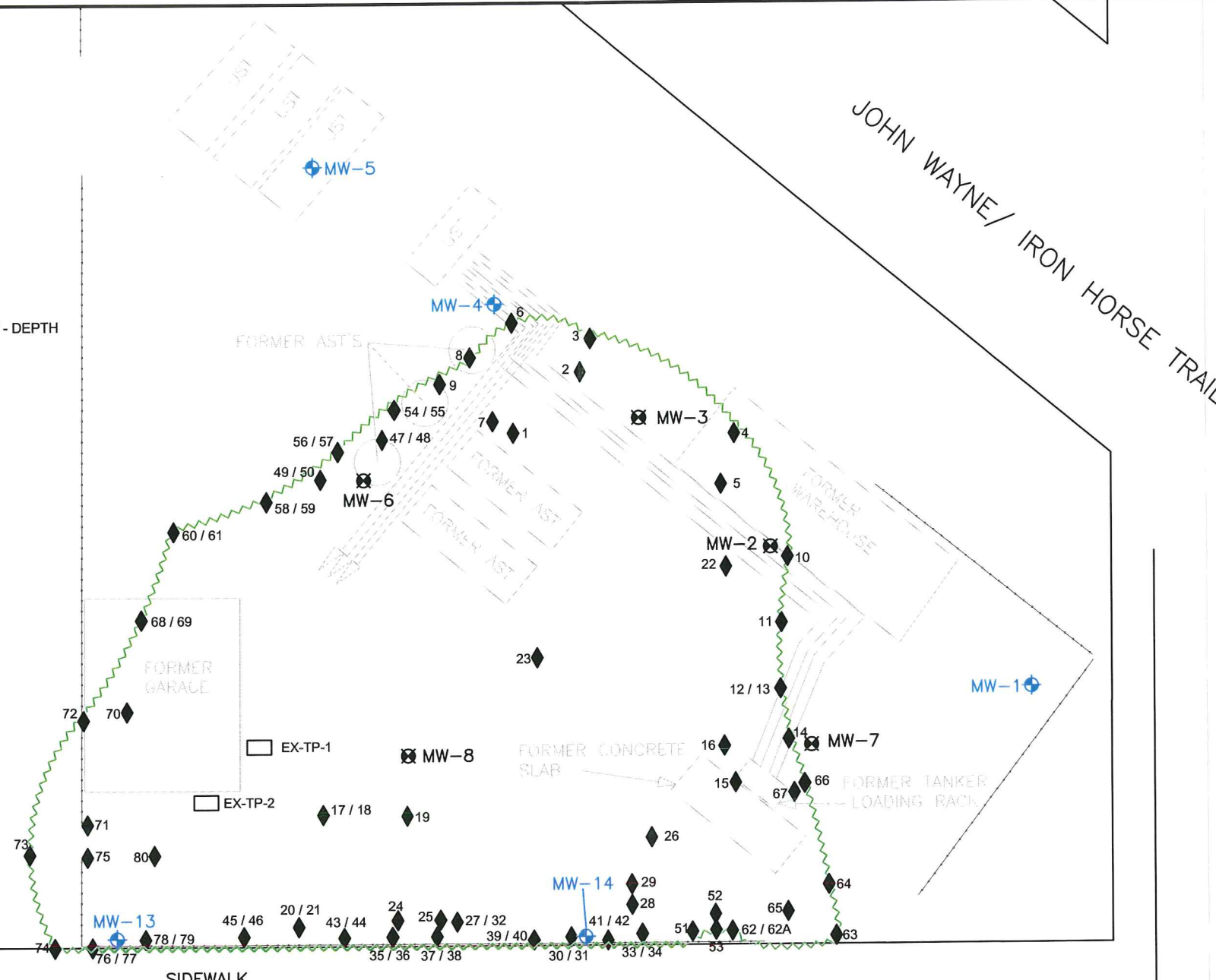
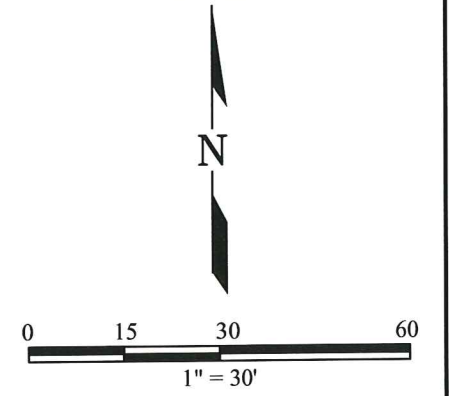
FIGURE 1
 SITE MAP

FILE NAME:
 100-1157-SiteMap50.dwg

DATE:
 06/02/2005

LEGEND

- MW-13  GROUNDWATER MONITORING WELL
LOCATION AND IDENTIFICATION
- MW-3  ABANDONED MONITORING WELL
LOCATION AND IDENTIFICATION
- 5  APPROXIMATE SOIL EXCAVATION SAMPLE LOCATION.
DESIGNATION CORRESPONDS TO ANALYTICAL ID: EX - # - DEPTH
- EX-TP-2  APPROXIMATE EXCAVATION TEST PIT
LOCATION AND DESIGNATION
-  FENCE
-  EXTENT OF SOIL EXCAVATION



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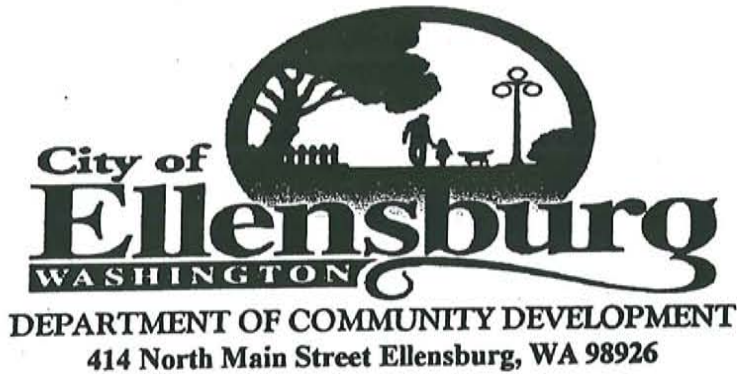
FORMER CHEVRON BULK PLANT
NO. 100-1157
15TH AVENUE & WATER STREET
ELLENSBURG, WASHINGTON

FIGURE 2
SOIL EXCAVATION
SAMPLING LOCATIONS

FILE NAME: 100-1157-Excavation.dwg	DATE: 06/02/2005
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APPENDIX A

SEPA DOCUMENTATION



**SEPA
DETERMINATION OF NONSIGNIFICANCE
(DNS)**

**Description
of proposal:**

Remediation via excavation of the former Chevron Bulk Plant Site at 15th Avenue and Water Street. The project will consist of the excavation of approximately 3500 cubic yards of contaminated soil followed by backfilling to original grade with approximately 3500 cubic yards of clean soil and sand. The excavated materials will be trucked to the Waste Management facility in Wenatchee, WA for disposal.

Proponent:

Don Wyll, representing SAIC (Science Applications International Corp.)

**Location
of proposal:**

The former Chevron Bilk Plant Site at 15th Avenue and Water Street, Ellensburg, WA 98926

Lead Agency:

City of Ellensburg

File No. S04-12

The lead agency for this proposal has determined that it does not have a probable significant adverse impact on the environment.

An environmental impact statement (EIS) is not required under RCW 43.21C.030(2) (c). This decision was made after review of a completed environmental checklist, and review of other information on file with the lead agency. This information is available to the public on request.

This DNS is issued under WAC 197-11-340(2), the lead agency will not act on this proposal for fourteen (14) days. Comments must be submitted by December 16, 2004.

Responsible Official:

Robert Witkowski

Title:

SEPA Responsible Official

Address:

City of Ellensburg
Community Development
414 N. Main Street
Ellensburg WA 98926
Ph. (509) 962-7232 Fax: (509) 962-7127

Date:

December 2, 2004

Signature:

APPENDIX B

LABORATORY ANALYTICAL REPORTS

January 21, 2005

Don Wyll
SAIC
18706 North Creek Parkway, Suite 110
Bothell, WA 98011

Dear Mr. Wyll:

Please find enclosed the analytical data report for the CVX 100-1157 Project located in Ellensburg, Washington. Mobile Lab services were conducted on December 27, 2004 - January 14, 2005. Soil samples were analyzed for Diesel and Oil by NWTPH-Dx/Dx Extended, Gasoline by NWTPH-Gx, and BTEX by Method 8021B.

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 analytical work is also enclosed.

ESN Northwest appreciates the opportunity to have provided analytical services 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

ESN NORTHWEST CHEMISTRY LABORATORY

CVX 100-1157 PROJECT
Ellensburg, Washington
SAIC

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)	Mineral Oil (mg/kg)
Method Blank	12/27/04	94	nd	nd	nd
EX-1-6	12/27/04	118	nd	nd	nd
EX-1-6 Dup.	12/27/04	110	nd	47	nd
Method Detection Limits			20	40	40

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

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE : 65% TO 135%

ANALYSES PERFORMED BY: Matthew Sebonia

ESN NORTHWEST CHEMISTRY LABORATORY

CVX 100-1157 PROJECT
 Ellensburg, Washington
 SAIC

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	12/27/04	nd	nd	nd	nd	nd	101
LCS	12/27/04	115%	108%	106%	110%	nd	89
EX-1-6	12/27/04	nd	nd	nd	nd	nd	88
EX-1-6 Dup.	12/27/04	nd	nd	nd	nd	nd	111
Method Detection Limits		0.02	0.05	0.05	0.05	10	

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

"int" Indicates that interference prevents determination.

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

ANALYSES PERFORMED BY: Matthew Sebonia

ESN NORTHWEST CHEMISTRY LABORATORY

CVX 100-1157 PROJECT
 Ellensburg, Washington
 SAIC

Analyses of Gasoline, Diesel & Oil (NWTPH-Gx, Dx/Dx Extended) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Gasoline (mg/kg)	Diesel (mg/kg)	Oil (mg/kg)	Mineral Oil (mg/kg)
Method Blank	12/28/04	110	nd	nd	nd	nd
EX-2-5.5	12/28/04	108	nd	72	nd	nd
EX-3-5.5	12/28/04	92	nd	nd	nd	nd
Method Detection Limits			10	20	40	40

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

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE : 65% TO 135%

ANALYSES PERFORMED BY: Matthew Sebonia

ESN NORTHWEST CHEMISTRY LABORATORY

CVX 100-1157 PROJECT
 Ellensburg, Washington
 SAIC

Analyses of BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Surrogate Recovery (%)
Method Blank	12/28/04	nd	nd	nd	nd	89
LCS	12/28/04	114%	109%	114%	109%	89
EX-2-5.5	12/28/04	nd	nd	nd	nd	105
EX-2-5.5 Dup.	12/28/04	nd	nd	nd	nd	106
EX-3-5.5	12/28/04	nd	nd	nd	nd	109
Method Detection Limits		0.02	0.05	0.05	0.05	

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

"int" Indicates that interference prevents determination.

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

ANALYSES PERFORMED BY: Matthew Sebonia

ESN NORTHWEST CHEMISTRY LABORATORY

CVX 100-1157 PROJECT
 Ellensburg, Washington
 SAIC

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)	Mineral Oil (mg/kg)
Method Blank	12/29/04	112	nd	nd	nd
TP-1-1.5	12/29/04	int	1,500	nd	nd
TP-1-2.5	12/29/04	int	4,400	nd	nd
TP-1-5.5	12/29/04	86	350	nd	nd
TP-2-3	12/29/04	int	2,800	nd	nd
TP-2-4	12/29/04	int	4,200	nd	nd
EX-4-5.5	12/29/04	90	nd	nd	nd
EX-4-5.5 Dup.	12/29/04	113	nd	nd	nd
EX-5-5.5	12/29/04	int	4,600	nd	nd
EX-6-5.5	12/29/04	104	nd	nd	nd
EX-7-5.5	12/29/04	int	2,300	nd	nd
EX-8-5.5	12/29/04	102	nd	nd	nd
EX-9-5.5	12/29/04	74	nd	nd	nd
Method Detection Limits			20	40	40

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

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE : 65% TO 135%

ANALYSES PERFORMED BY: Matthew Sebonia

ESN NORTHWEST CHEMISTRY LABORATORY

CVX 100-1157 PROJECT
 Ellensburg, Washington
 SAIC

Analyses of Gasoline (NWTPH-G1) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	12/29/04	nd	nd	nd	nd	nd	90
LCS	12/29/04	102%	91%	96%	92%	---	92
EX-6-5.5 MS	12/29/04	115%	115%	110%	113%	---	92
TP-1-1.5	12/29/04	8.3	2.1	12	6.6	560	97
TP-1-2.5	12/29/04	16	5.4	48	39	2,700	105
TP-1-5.5	12/29/04	8.9	2.7	30	22	1,500	111
TP-2-3	12/29/04	0.05	nd	0.28	2.0	685	116
TP-2-4	12/29/04	3.9	3.6	53	47	3,300	132
EX-4-5.5	12/29/04	nd	nd	nd	nd	nd	88
EX-4-5.5 Dup.	12/29/04	nd	nd	nd	nd	nd	96
EX-5-5.5	12/29/04	0.02	nd	0.69	1.1	1,000	118
EX-6-5.5	12/29/04	nd	nd	nd	nd	nd	90
EX-7-5.5	12/29/04	nd	nd	nd	nd	290	118
EX-8-5.5	12/29/04	nd	nd	nd	nd	nd	111
EX-9-5.5	12/29/04	nd	nd	nd	nd	nd	118
Method Detection Limits		0.02	0.05	0.05	0.05	10	

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

"int" Indicates that interference prevents determination.

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

ANALYSES PERFORMED BY: Matthew Sebonia

ESN NORTHWEST CHEMISTRY LABORATORY

CVX-100-1157 PROJECT
 Ellensburg, Washington
 SAIC

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)	Mineral Oil (mg/kg)
Method Blank	1/3/05	106	nd	nd	nd
EX-10-5.5	1/3/05	86	nd	nd	nd
EX-11-5.5	1/3/05	100	nd	nd	nd
EX-12-5.5	1/3/05	101	nd	nd	nd
EX-12-5.5 Dup.	1/3/05	103	nd	nd	nd
EX-13-6.0	1/3/05	107	nd	nd	nd
EX-14-5.5	1/3/05	84	nd	nd	nd
Method Detection Limits			20	40	40

"nd" Indicates not detected at the listed detection limits.
 "int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE : 65% TO 135%

ANALYSES PERFORMED BY: Matthew Sebonia

ESN NORTHWEST CHEMISTRY LABORATORY

CVX-100-1157 PROJECT
 Ellensburg, Washington
 SAIC

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	1/3/05	nd	nd	nd	nd	nd	95
LCS	1/3/05	96%	90%	96%	93%	---	78
EX-12-5.5 MS	1/3/05	108%	99%	90%	101%	---	89
EX-10-5.5	1/3/05	nd	nd	nd	nd	nd	91
EX-11-5.5	1/3/05	nd	nd	nd	nd	nd	98
EX-12-5.5	1/3/05	nd	nd	nd	nd	nd	117
EX-12-5.5 Dup.	1/3/05	nd	nd	nd	nd	nd	107
EX-13-6.0	1/3/05	nd	nd	nd	nd	nd	95
EX-14-5.5	1/3/05	nd	nd	nd	nd	nd	96
Method Detection Limits		0.02	0.05	0.05	0.05	10	

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

"int" Indicates that interference prevents determination.

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

ANALYSES PERFORMED BY: Matthew Sebonia

ESN NORTHWEST CHEMISTRY LABORATORY

CVX-100-1157 PROJECT
 Ellensburg, Washington
 SAIC

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)	Mineral Oil (mg/kg)
Method Blank	1/4/05	98	nd	nd	nd
EX-15-6.5	1/4/05	107	1,300	nd	nd
EX-16-6	1/4/05	105	nd	nd	nd
EX-17-5.5	1/4/05	int	1,100	nd	nd
EX-18-4	1/4/05	99	nd	nd	nd
EX-18-4 Dup.	1/4/05	84	nd	nd	nd
EX-19-4	1/4/05	int	820	nd	nd
Method Detection Limits			20	40	40

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

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE : 65% TO 135%

ANALYSES PERFORMED BY: Matthew Sebonia

ESN NORTHWEST CHEMISTRY LABORATORY

CVX-100-1157 PROJECT

Ellensburg, Washington

SAIC

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	1/4/05	nd	nd	nd	nd	nd	96
LCS	1/4/05	104%	96%	104%	96%	---	84
EX-18-4 MS	1/4/05	115%	109%	105%	111%	---	97
EX-15-6.5	1/4/05	0.25	nd	1.2	2.0	610	89
EX-16-6	1/4/05	nd	nd	nd	nd	nd	105
EX-17-5.5	1/4/05	0.07	0.15	1.2	1.3	570	99
EX-18-4	1/4/05	nd	nd	nd	nd	nd	90
EX-18-4 Dup.	1/4/05	nd	nd	nd	nd	nd	95
EX-19-4	1/4/05	nd	nd	nd	nd	240	113
Method Detection Limits		0.02	0.05	0.05	0.05	10	

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

"int" Indicates that interference prevents determination.

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

ANALYSES PERFORMED BY: Matthew Sebonia

ESN NORTHWEST CHEMISTRY LABORATORY

CVX-100-1157 PROJECT
 Ellensburg, Washington
 SAIC

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)	Mineral Oil (mg/kg)
Method Blank	1/5/05	114	nd	nd	nd
EX-20-4	1/5/05	103	nd	nd	nd
EX-20-4 Dup.	1/5/05	106	nd	nd	nd
EX-21-5.5	1/5/05	95	nd	nd	nd
EX-22-6	1/5/05	int	1,400	nd	nd
EX-23-6	1/5/05	int	3,100	nd	nd
EX-24-2.5	1/5/05	101	nd	nd	nd
EX-25-5.5	1/5/05	int	1,800	nd	nd
EX-26-4	1/5/05	int	1,600	nd	nd
Method Detection Limits			20	40	40

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

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE : 65% TO 135%

ANALYSES PERFORMED BY: Matthew Sebonia

ESN NORTHWEST CHEMISTRY LABORATORY

CVX-100-1157 PROJECT
 Ellensburg, Washington
 SAIC

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	1/5/05	nd	nd	nd	nd	nd	102
LCS	1/5/05	115%	113%	115%	112%	---	100
EX-20-4 MS	1/5/05	115%	110%	111%	111%	---	102
EX-20-4	1/5/05	nd	nd	nd	nd	nd	94
EX-20-4 Dup.	1/5/05	nd	nd	nd	nd	nd	102
EX-21-5.5	1/5/05	nd	nd	nd	nd	nd	110
EX-22-6	1/5/05	0.28	0.36	0.33	0.98	270	110
EX-23-6	1/5/05	0.94	1.5	11	4.8	1,300	130
EX-24-2.5	1/5/05	nd	nd	nd	nd	nd	104
EX-25-5.5	1/5/05	0.04	0.15	2.5	2.5	1,100	98
EX-26-4	1/5/05	0.66	2.8	0.41	0.91	1,000	102
Method Detection Limits		0.02	0.05	0.05	0.05	10	

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

"int" Indicates that interference prevents determination.

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

ANALYSES PERFORMED BY: Matthew Sebonia

ESN NORTHWEST CHEMISTRY LABORATORY

CVX-100-1157 PROJECT
 Ellensburg, Washington
 SAIC

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)	Mineral Oil (mg/kg)
Method Blank	1/6/05	98	nd	nd	nd
EX-27-3.5	1/6/05	92	nd	nd	nd
EX-27-3.5 Dup.	1/6/05	109	nd	nd	nd
EX-28-5	1/6/05	112	nd	nd	nd
EX-29-5	1/6/05	int	1,700	nd	nd
EX-30-3	1/6/05	int	240	nd	nd
EX-31-4	1/6/05	96	nd	nd	nd
EX-32-4	1/6/05	96	nd	nd	nd
EX-33-3	1/6/05	102	nd	nd	nd
EX-34-4	1/6/05	105	nd	nd	nd
Method Detection Limits			20	40	40

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

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE : 65% TO 135%

ANALYSES PERFORMED BY: Matthew Sebonia

ESN NORTHWEST CHEMISTRY LABORATORY

CVX-100-1157 PROJECT
 Ellensburg, Washington
 SAIC

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	1/6/05	nd	nd	nd	nd	nd	108
LCS	1/6/05	113%	107%	111%	109%	---	95
EX-27-3.5	1/6/05	nd	nd	nd	nd	nd	107
EX-27-3.5 Dup.	1/6/05	nd	nd	nd	nd	nd	98
EX-28-5	1/6/05	nd	nd	nd	nd	nd	108
EX-29-5	1/6/05	0.06	nd	0.26	0.50	760	131
EX-30-3	1/6/05	nd	nd	0.08	nd	39	87
EX-31-4	1/6/05	nd	nd	nd	nd	nd	96
EX-32-4	1/6/05	nd	nd	nd	nd	nd	97
EX-33-3	1/6/05	nd	nd	nd	nd	nd	99
EX-34-4	1/6/05	nd	nd	nd	nd	nd	103
Method Detection Limits		0.02	0.05	0.05	0.05	10	

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

"int" Indicates that interference prevents determination.

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

ANALYSES PERFORMED BY: Matthew Sebonia

ESN NORTHWEST CHEMISTRY LABORATORY

CVX-100-1157 PROJECT
 Ellensburg, Washington
 SAIC

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)	Mineral Oil (mg/kg)
Method Blank	1/11/05	92	nd	nd	nd
EX-35-3	1/11/05	110	nd	nd	nd
EX-36-5	1/11/05	int	870	nd	nd
EX-37-3	1/11/05	90	nd	nd	nd
EX-37-3 Dup.	1/11/05	95	nd	nd	nd
EX-38-5	1/11/05	int	5,300	nd	nd
EX-39-3	1/11/05	102	nd	nd	nd
EX-40-5	1/11/05	98	nd	nd	nd
EX-41-3	1/11/05	97	nd	nd	nd
EX-42-4	1/11/05	89	nd	nd	nd
EX-43-3	1/11/05	102	nd	nd	nd
EX-44-5	1/11/05	106	nd	nd	nd
EX-45-3	1/11/05	101	nd	nd	nd
EX-46-5	1/11/05	102	nd	nd	nd
EX-46-5 Dup.	1/11/05	90	nd	nd	nd
Method Detection Limits			20	40	40

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

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE : 65% TO 135%

ANALYSES PERFORMED BY: Matthew Sebonia

ESN NORTHWEST CHEMISTRY LABORATORY

CVX-100-1157 PROJECT
 Ellensburg, Washington
 SAIC

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	1/11/05	nd	nd	nd	nd	nd	105
LCS	1/11/05	102%	96%	93%	98%	---	89
EX-43-3 MS	1/11/05	115%	112%	112%	112%	---	103
EX-35-3	1/11/05	nd	nd	nd	nd	nd	98
EX-36-5	1/11/05	0.05	0.16	nd	1.8	390	99
EX-37-3	1/11/05	nd	nd	nd	nd	nd	95
EX-37-3 Dup.	1/11/05	nd	nd	nd	nd	nd	106
EX-38-5	1/11/05	0.03	0.13	nd	5.1	1,900	111
EX-39-3	1/11/05	nd	nd	nd	nd	nd	94
EX-40-5	1/11/05	nd	nd	nd	0.11	37	99
EX-41-3	1/11/05	nd	nd	nd	nd	nd	102
EX-42-4	1/11/05	nd	nd	nd	nd	nd	103
EX-43-3	1/11/05	nd	nd	nd	nd	nd	90
EX-44-5	1/11/05	nd	nd	nd	nd	nd	101
EX-45-3	1/11/05	nd	nd	nd	nd	nd	118
EX-46-5	1/11/05	nd	nd	nd	nd	nd	106
Method Detection Limits		0.02	0.05	0.05	0.05	10	

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

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Chlorobenzene): 65% TO 135%
 ANALYSES PERFORMED BY: Matthew Sebonia

ESN NORTHWEST CHEMISTRY LABORATORY

CVX-100-1157 PROJECT
 Ellensburg, Washington
 SAIC

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)	Mineral Oil (mg/kg)
Method Blank	1/13/05	96	nd	nd	nd
EX-62-4	1/13/05	int	740	nd	nd
EX-63-4	1/13/05	89	nd	nd	nd
EX-64-4	1/13/05	98	nd	nd	nd
EX-64-4 Dup.	1/13/05	96	nd	nd	nd
EX-65-6	1/13/05	int	2,200	nd	nd
EX-66-4	1/13/05	104	nd	nd	nd
EX-67-6	1/13/05	int	130	nd	nd
EX-68-3	1/13/05	100	nd	nd	nd
EX-69-5	1/13/05	93	nd	nd	nd
EX-70-4	1/13/05	94	nd	nd	nd
EX-70-4 Dup.	1/13/05	107	nd	nd	nd
EX-71-4	1/13/05	88	nd	nd	nd
EX-62A-2	1/13/05	95	nd	nd	nd
Method Detection Limits			20	40	40

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

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE : 65% TO 135%

ANALYSES PERFORMED BY: Matthew Sebonia

ESN NORTHWEST CHEMISTRY LABORATORY

CVX-100-1157 PROJECT
 Ellensburg, Washington
 SAIC

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	1/13/05	nd	nd	nd	nd	nd	102
LCS	1/13/05	100%	86%	94%	95%	---	82
EX-68-3 MS	1/13/05	109%	111%	107%	107%	---	921
EX-58-6	1/13/05	nd	nd	nd	nd	nd	100
EX-60-4.5	1/13/05	nd	nd	nd	nd	nd	104
EX-61-3.5	1/13/05	nd	nd	nd	nd	nd	117
EX-62-4	1/13/05	nd	nd	nd	0.13	390	99
EX-63-4	1/13/05	nd	nd	nd	nd	nd	95
EX-64-4	1/13/05	nd	nd	nd	nd	nd	110
EX-64-4 Dup.	1/13/05	nd	nd	nd	nd	nd	123
EX-65-6	1/13/05	0.10	0.43	0.70	2.64	1,200	121
EX-66-4	1/13/05	nd	nd	nd	nd	nd	125
EX-67-6	1/13/05	nd	nd	nd	nd	nd	105
EX-68-3	1/13/05	nd	nd	nd	nd	nd	97
EX-69-5	1/13/05	nd	nd	nd	nd	nd	119
EX-70-4	1/13/05	0.04	nd	nd	nd	nd	99
EX-70-4 Dup.	1/13/05	0.05	nd	nd	nd	nd	105
EX-62A-2	1/13/05	nd	nd	nd	nd	nd	96
Method Detection Limits		0.02	0.05	0.05	0.05	10	

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

"int" Indicates that interference prevents determination.

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

ANALYSES PERFORMED BY: Matthew Sebonia

ESN NORTHWEST CHEMISTRY LABORATORY

CVX-100-1157 PROJECT
 Ellensburg, Washington
 SAIC

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)	Mineral Oil (mg/kg)
Method Blank	1/14/05	111	nd	nd	nd
EX-72-4	1/14/05	95	nd	nd	nd
EX-73-4	1/14/05	92	nd	nd	nd
EX-74-4	1/14/05	91	nd	nd	nd
EX-74-4 Dup.	1/14/05	102	nd	nd	nd
EX-75-7	1/14/05	121	nd	nd	nd
Method Detection Limits			20	40	40

"nd" Indicates not detected at the listed detection limits.
 "int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE : 65% TO 135%

ANALYSES PERFORMED BY: Matthew Sebonia

ESN NORTHWEST CHEMISTRY LABORATORY

CVX-100-1157 PROJECT

Ellensburg, Washington

SAIC

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	1/14/05	nd	nd	nd	nd	nd	92
LCS	1/14/05	111%	85%	89%	88%	---	73
EX-71-4	1/14/05	0.05	nd	0.15	0.05	nd	99
EX-72-4	1/14/05	0.03	nd	nd	0.05	nd	108
EX-73-4	1/14/05	nd	nd	nd	nd	nd	98
EX-74-4	1/14/05	nd	nd	nd	nd	nd	86
EX-74-4 Dup.	1/14/05	nd	nd	nd	nd	nd	94
EX-75-7	1/14/05	0.04	nd	0.09	nd	nd	96
Method Detection Limits		0.02	0.05	0.05	0.05	10	

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

"int" Indicates that interference prevents determination.

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

ANALYSES PERFORMED BY: Matthew Sebonia

CHAIN-OF-CUSTODY RECORD

CLIENT: SAIC DATE: 1/4/05 PAGE 1 OF 1
 PROJECT NAME: Cox 100-1157
 LOCATION: Ellensburg WA
 COLLECTOR: M. King / S. Kline DATE OF COLLECTION: 1/4/05

CLIENT PROJECT #: Cox-100-1157 PROJECT MANAGER: Don Hoyll
 ADDRESS: 18700 N. Creek Pkwy Ste 100, Bt Hall WA
 PHONE: 425-485-5560 FAX: 425-485-5560

Sample Number	Depth	Time	Sample Type	Container Type	ANALYSES	TPH - HClD	TPH 8015 (gasoline)	TPH 8015 (diesel)	PAH 8100	PCBS 8082	EPA Pesticides 8081	VPH	Methamphetamine	Pb	Hex Chrome	NOTES	Total Number of Containers	Laboratory Note Number
1. EX15-6.5	6.5'	0930	Soil		X	X	X	X									1	
2. EX16-6	6'	0930	Soil		X	X	X	X									1	
3. EX17-3.5	3.5'	1350	Soil		X	X	X	X									1	
4. EX18-4	4'	1300	Soil		X	X	X	X									1	
5. EX19-4	4'	1350	Soil		X	X	X	X									1	
6.																		
7.																		
8.																		
9.																		
10.																		
11.																		
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15.																		
16.																		
17.																		
18.																		

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

RELINQUISHED BY (Signature) _____ DATE/TIME 1/4/05 1600 RECEIVED BY (Signature) _____ DATE/TIME 1/4/05

SAMPLE DISPOSAL INSTRUCTIONS

ESN DISPOSAL @ \$2.00 each Return Pickup

LABORATORY NOTES:

TOTAL NUMBER OF CONTAINERS _____

CHAIN OF CUSTODY SEALS Y/N/A _____

SEALS INTACT? Y/N/A _____

RECEIVED GOOD COND./COLD _____

NOTES: _____

Turn Around Time: 24 HR 48 HR 5 DAY

CLIENT: SAIL DATE: 1/13/05 PAGE 1 OF 1

ADDRESS: 18706 N. Creek Pkwy Ste. 110 B. Hall WA PROJECT NAME: Cvx 100-1157

PHONE: 425.482.3315 FAX: 425.485.5566 LOCATION: Ellensburg WA

CLIENT PROJECT #: Cvx 100-1157 PROJECT MANAGER: Don Wyl COLLECTOR: Megan King DATE OF COLLECTION: 1/13/05

Sample Number	Depth	Time	Sample Type	Container Type	ANALYSES										NOTES	Total Number of Containers	Laboratory Note Number		
					VOA 8021B	VOA 8021B BTEX Only	SEM VOL 8270	TPH - HClD	TPH 8015 (aqueous)	TPH 8015 (total)	PAH 8100	PAH 8270	PCBS 8082	Pesticides 8081				VPH	Methamphetamine
1. EX-66-4	4	0900	S	402	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	1	
2. EX-67-6	6	0900	↓	↓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	↓	
3. EX-68-3	3	0930	↓	↓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	↓	
4. EX-69-5	5	↓	↓	↓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	↓	
5. EX-70-4	4	↓	↓	↓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	↓	
6. EX-71-4	4	↓	↓	↓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	↓	
7. EX-72A-2	2	↓	↓	↓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	↓	
8.																			
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RELEASING BY (Signature) _____ DATE/TIME _____ RECEIVED BY (Signature) _____ DATE/TIME _____

RELEASING BY (Signature) _____ DATE/TIME 1/13/05 RECEIVED BY (Signature) _____ DATE/TIME _____

SAMPLE DISPOSAL INSTRUCTIONS

ESN DISPOSAL @ \$2.00 each Return Pickup

LABORATORY NOTES:

SAMPLE RECEIPT

TOTAL NUMBER OF CONTAINERS: 7

CHAIN OF CUSTODY SEALS Y/N/A: N/A

SEALS INTACT? Y/N/A: N/A

RECEIVED GOOD COND./COLD: Y

NOTES:

Turn Around Time: 24 HR 48 HR 5 DAY

ANALYTICAL RESULTS

Prepared for:

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

925-842-8582

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425SAMPLE GROUP

The sample group for this submittal is 928941. Samples arrived at the laboratory on Thursday, January 20, 2005. The PO# for this group is 99011184 and the release number is HUNTER.

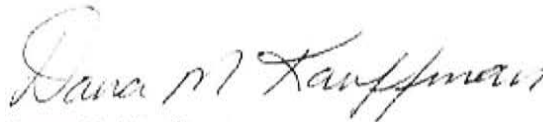
Client DescriptionEX-76-3 Grab Soil Sample
EX-77-5 Grab Soil Sample
EX-78-3 Grab Soil Sample
EX-79-5 Grab Soil Sample
EX-80-5 Grab Soil Sample
TB-01 Water SampleLancaster Labs Number4450408
4450409
4450410
4450411
4450412
4450413

1 COPY TO SAIC

Attn: Don Wyll

Questions? Contact your Client Services Representative
Teresa L Cunningham at (717) 656-2300.

Respectfully Submitted,



Dana M. Kauffman
Group Leader

Lancaster Laboratories Sample No. SW 4450408
EX-76-3 Grab Soil Sample
Facility# 1001157
15th Water, Ellensburg - WA
Collected: 01/19/2005 12:00 by MK
Account Number: 11255
Submitted: 01/20/2005 09:10
Reported: 02/02/2005 at 14:50
Discard: 03/05/2005
ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

EX763

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02005	TPH by NWTPH-Gx soils					
01659	TPH by NWTPH-Gx soils The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.	n.a.	N.D.	1.0	mg/kg	25
02214	TPH by NWTPH-Dx(soils) w/SiGel					
02097	Diesel Range Organics	n.a.	44.	15.	mg/kg	5
02098	Heavy Range Organics	n.a.	370.	50.	mg/kg	5
05878	BTEX					
02174	Benzene	71-43-2	N.D.	0.005	mg/kg	25
02177	Toluene	108-88-3	N.D.	0.005	mg/kg	25
02178	Ethylbenzene	100-41-4	0.007	0.005	mg/kg	25
02182	Total Xylenes The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.	1330-20-7	0.03	0.02	mg/kg	25

State of Washington Lab Certification No. C259

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date	Time		
02005	TPH by NWTPH-Gx soils	NWTPH-Gx - 8015B Mod.	1	01/25/2005	02:07	Martha L Seidel	25
02214	TPH by NWTPH-Dx(soils) w/SiGel	NWTPH-Dx, ECY 97-602(modified)	1	01/25/2005	05:00	Matthew E Barton	5
05878	BTEX	SW-846 8021B	1	01/25/2005	02:07	Martha L Seidel	25
01150	GC - Bulk Soil Prep	SW-846 5035	1	01/20/2005	19:04	Eric L Vera	n.a.
07004	Extraction - DRO (Soils)	NWTPH-Dx, ECY 97-602, 6/97	1	01/21/2005	19:00	Sally L Appleyard	1

Lancaster Laboratories Sample No. SW 4450409
EX-77-5 Grab Soil Sample
Facility# 1001157
15th Water, Ellensburg - WA
Collected: 01/19/2005 12:01 by MK
Account Number: 11255
Submitted: 01/20/2005 09:10
Reported: 02/02/2005 at 14:50
Discard: 03/05/2005
ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

EX775

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02005	TPH by NWTPH-Gx soils					
01659	TPH by NWTPH-Gx soils	n.a.	N.D.	1.0	mg/kg	25
	The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.					
02214	TPH by NWTPH-Dx(soils) w/SiGel					
02097	Diesel Range Organics	n.a.	150.	15.	mg/kg	5
02098	Heavy Range Organics	n.a.	79.	50.	mg/kg	5
05878	BTEX					
02174	Benzene	71-43-2	N.D.	0.005	mg/kg	25
02177	Toluene	108-88-3	N.D.	0.005	mg/kg	25
02178	Ethylbenzene	100-41-4	N.D.	0.005	mg/kg	25
02182	Total Xylenes	1330-20-7	N.D.	0.02	mg/kg	25
	The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.					

State of Washington Lab Certification No. C259

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
02005	TPH by NWTPH-Gx soils	NWTPH-Gx - 8015B Mod.	1	01/25/2005 02:45	Martha L Seidel	25
02214	TPH by NWTPH-Dx(soils) w/SiGel	NWTPH-Dx, ECY 97-602(modified)	1	01/25/2005 04:14	Matthew E Barton	5
05878	BTEX	SW-846 8021B	1	01/25/2005 02:45	Martha L Seidel	25
01150	GC - Bulk Soil Prep	SW-846 5035	1	01/20/2005 19:05	Eric L Vera	n.a.
07004	Extraction - DRO (Soils)	NWTPH-Dx, ECY 97-602, 6/97	1	01/21/2005 19:00	Sally L Appleyard	1

Lancaster Laboratories Sample No. SW 4450410

EX-78-3 Grab Soil Sample

Facility# 1001157

15th Water, Ellensburg - WA

Collected: 01/19/2005 12:02 by MK

Account Number: 11255

Submitted: 01/20/2005 09:10

Reported: 02/02/2005 at 14:51

Discard: 03/05/2005

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

EX783

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02005	TPH by NWTPH-Gx soils					
01659	TPH by NWTPH-Gx soils The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.	n.a.	N.D.	1.0	mg/kg	25
02214	TPH by NWTPH-Dx(soils) w/SiGel					
02097	Diesel Range Organics	n.a.	46.	3.0	mg/kg	1
02098	Heavy Range Organics	n.a.	80.	10.	mg/kg	1
05878	BTEX					
02174	Benzene	71-43-2	N.D.	0.005	mg/kg	25
02177	Toluene	108-88-3	N.D.	0.005	mg/kg	25
02178	Ethylbenzene	100-41-4	N.D.	0.005	mg/kg	25
02182	Total Xylenes The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately.	1330-20-7	N.D.	0.02	mg/kg	25

State of Washington Lab Certification No. C259

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
02005	TPH by NWTPH-Gx soils	NWTPH-Gx - 8015B Mod.	1	01/25/2005 05:15	Martha L Seidel	25
02214	TPH by NWTPH-Dx(soils) w/SiGel	NWTPH-Dx, ECY 97-602(modified)	1	01/25/2005 13:15	Matthew E Barton	1
05878	BTEX	SW-846 8021B	1	01/25/2005 05:15	Martha L Seidel	25
01150	GC - Bulk Soil Prep	SW-846 5035	1	01/20/2005 19:10	Eric L Vera	n.a.
07004	Extraction - DRO (Soils)	NWTPH-Dx, ECY 97-602, 6/97	1	01/21/2005 19:00	Sally L Appleyard	1

Lancaster Laboratories Sample No. SW 4450412
EX-80-5 Grab Soil Sample
Facility# 1001157
15th Water, Ellensburg - WA
Collected: 01/19/2005 12:04 by MK
Account Number: 11255
Submitted: 01/20/2005 09:10
Reported: 02/02/2005 at 14:51
Discard: 03/05/2005
ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583
EX805

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02005	TPH by NWTPH-Gx soils					
01659	TPH by NWTPH-Gx soils The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately. A poor surrogate recovery was observed due to the dilution needed to perform the analysis.	n.a.	970.	40.	mg/kg	1000
02214	TPH by NWTPH-Dx(soils) w/SiGel					
02097	Diesel Range Organics	n.a.	1,400.	30.	mg/kg	10
02098	Heavy Range Organics	n.a.	N.D.	100.	mg/kg	10
05878	BTEX					
02174	Benzene	71-43-2	N.D.	0.2	mg/kg	1000
02177	Toluene	108-88-3	N.D.	0.2	mg/kg	1000
02178	Ethylbenzene	100-41-4	2.1	0.2	mg/kg	1000
02182	Total Xylenes The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately. Due to the nature of the sample matrix, normal reporting limits were not attained.	1330-20-7	4.3	0.6	mg/kg	1000

A poor surrogate recovery was observed due to the dilution needed to perform the analysis.

State of Washington Lab Certification No. C259

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
02005	TPH by NWTPH-Gx soils	NWTPH-Gx - 8015B Mod.	1	01/25/2005 06:30	Martha L Seidel	1000
02214	TPH by NWTPH-Dx(soils) w/SiGel	NWTPH-Dx, ECY 97-602 (modified)	1	01/27/2005 16:11	Matthew E Barton	10
05878	BTEX	SW-846 8021B	1	01/25/2005 06:30	Martha L Seidel	1000
01150	GC - Bulk Soil Prep	SW-846 5035	1	01/20/2005 19:19	Eric L Vera	n.a.
07004	Extraction - DRO (Soils)	NWTPH-Dx, ECY 97-602, 6/97	1	01/21/2005 17:00	Jason A Heisey	1

Quality Control Summary

 Client Name: ChevronTexaco
 Reported: 02/02/05 at 02:51 PM

Group Number: 928941

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 05024A31A	Sample number(s): 4450408-4450412							
TPH by NWTPH-Gx soils	68	68	39-118	0	30			
Benzene	84	84	52-135	1	30			
Toluene	83	80	59-129	4	30			
Ethylbenzene	84	86	56-132	3	30			
Total Xylenes	85	87	54-134	2	30			

Surrogate Quality Control

 Analysis Name: BTEX
 Batch number: 05020A51B
 Trifluorotoluene-P

Trifluorotoluene-F

4450413	104	105
Blank	105	100
LCS	104	108
LCS D	102	101
MS	106	100

Limits: 72-128 57-146

 Analysis Name: TPH by NWTPH-Dx(soils) w/SiGel
 Batch number: 050210000A
 Orthoterphenyl

4450408	113
4450409	113
4450410	99
4450411	101
Blank	103
DUP	141
LCS	114

Limits: 50-150

 Analysis Name: TPH by NWTPH-Dx(soils) w/SiGel
 Batch number: 050210005A
 Orthoterphenyl

4450412	125
Blank	113
DUP	115
LCS	128

Limits: 50-150

 Analysis Name: BTEX
 Batch number: 05024A31A
 Trifluorotoluene-F

Trifluorotoluene-P

4450408	71	91
4450409	76	97

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Chevron Northwest Region Analysis Request/Chain of Custody



Facility #: 100-1157 RSL
 Site Address: 15th & Water St, Ellensburg, WA
 Chevron PM: Bert Hunter Lead Consultant: SPAC
 Consultant/Office: Bothell, WA
 Consultant Pjt. Mgr.: Don Myll
 Consultant Phone #: 125-482-3315 Fax #: 425-855-5500
 Sampler: M. King
 Service Order #: NS01353 Non SAR:

Acct. #: 11855 Sample #: 4450408-13

For Lancaster Laboratories use only
 Corp # 928994
 Sample # 4450408-13

SCR#:

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix			Total Number of Containers	Preservation Codes		Comments / Remarks
					Soil	Water	Oil <input type="checkbox"/> Air <input type="checkbox"/>		BTEX + MTBE	8260	
EX-76-3	1/17/05	1200	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
EX-77-5		1201	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
EX-78-3		1202	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
EX-79-5		1203	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
EX-80-5		1204	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
TR-01		1205	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Relinquished by:	Date	Time	Received by:	Date	Time
<i>[Signature]</i>	1/19/05	1500	<i>[Signature]</i>		
<i>[Signature]</i>			<i>[Signature]</i>		

Relinquished by:	Date	Time	Received by:	Date	Time
<i>[Signature]</i>			<i>[Signature]</i>		

Relinquished by:	Date	Time	Received by:	Date	Time
<i>[Signature]</i>			<i>[Signature]</i>		

Turnaround Time Requested (TAT) (please circle)
 STD. TAT 24 hour 72 hour 48 hour 5 day
 Data Package Options (please circle if required)
 QC Summary Type I - Full
 Type VI (Raw Data) Disk / EDD
 W/P (RWOCB) Standard Format
 Disk Other: _____
 Relinquished by Commercial Carrier: UPS FedEx Other: _____
 Temperature Upon Receipt: 3.6 °C
 Received by: *[Signature]* Date: 1/20/05 Time: 0900
 Custody Seals Intact? Yes No
 Comments / Remarks: WBS #
NWRTB-1001157-02SL
Had sample preserved by HCl
UNPRES. VOA enclosed as temp. blank.
*Container not received for DEO on trip 1/12/05

APPENDIX C

BORING LOGS

BORING LOG



Site: 1001157
 Boring No: SB-13
 Diameter: 10.25 inches
 Date: 03/15/2005

Northing: NA
 Easting: NA
 Elevation: 98.47
 Datum: Unknown

Driller: Cascade Drilling, Inc.
 Method: Hollow Stem
 Consultant: Gabe Cisneros (SAIC)
 Project No: _____ Field Book No: _____

Total Depth: 13.0 Ft
 GW Depth: 4.0 Ft

Depth Ft	Recovery	Solid Sample ID	Blow Count	VOC (ppm)	Soil Code	Soil Symbol	Soil Description	MW-13 Construction
0					SM		Airknifed to 8 ft bgs. Gravelly silty sand (Dense, wet). Fill.	
5		--	4-30-50/2	5.0	ML		Gray silt with occasional coarse sand and gravel (very dense, wet)	
10		--	50/6"	2.8	GM		Olive gray silty gravel with fine to coarse sand grading to cobbles at 12 ft (Very dense, wet).	
							Refusal at 13 feet bgs.	

▼ Boring GW Depth



BORING LOG

Page 1 of 1



Site: 1001157
 Boring No: SB-14
 Diameter: 10.25 ft
 Date: 03/15/2005

Northing: NA
 Easting: NA
 Elevation: 99.03
 Datum: Unknown

Driller: Scott, Rowen (Cascade Drilling, Inc.)
 Method: Hollow Stem
 Consultant: Gabe Cisneros/Tina King (SAIC)
 Project No: Field Book No: Book 1 Page 84

Total Depth: 13.0 Ft
 GW Depth: 4.0 Ft

Depth Ft	Recovery	Solid Sample ID	Blow Count	VOC (ppm)	Soil Code	Soil Symbol	Soil Description	MW-14 Construction
0					SM		Airknifed to 8 ft bgs. Gravelly silty sand (dense, wet) FILL	
3.8		--	3-8-50/4"	3.8	GM		Olive/gray silty gravel with fine to medium sand (Very dense, wet).	
4.3		--	4-3-50/6"	4.3				
27		--	27-50/6"	27				
13.0							Refusal at 13 ft bgs.	

▼ Boring GW Depth

