

**Final Interim Action
Report**

**Philip Services Corp.
Washougal Facility
Washougal, Washington**

September 1998



**Philip Services Corp.
Regulatory Affairs
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Western Region

September 30, 1998

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Ms. Pang:

Enclosed are three copies of the Final Interim Action Report for Philip's Washougal facility. All of Chris Neumiller's comments have been incorporated into the report. In addition, I have included:

- The Department of Ecology's split sample data in Appendix A,
- Field photographs in Appendix B, and
- Field data from the 1986 soil boring program where DNAPL was first discovered on site.

If you have any questions or comments, please feel free to call me at (425) 227-6121.

Sincerely,

A handwritten signature in black ink, appearing to read 'Carolyn Mayer', is written over the typed name.

Carolyn Mayer

Enclosures

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1.0 Introduction

This report is submitted in accordance with Section VII.C.8 and VII.C.9 of the Burlington Environmental Inc. d.b.a. Philip Services Corp. ("Philip") Washougal Facility RCRA Final Status Permit. The work performed for this investigation was completed in accordance with Section VII.C.5. of this permit. The regulatory requirements of an Interim Action are described in WAC 173-340-430. The main purpose of the investigation was twofold. First, Philip tried to determine the extent of contamination around monitoring wells MC-7 and MC-18 and make a determination as to close these wells or keep them in the monitoring program. Second, the investigation included a soil removal action beneath the former interim status tank system, which exceeded 100 x Groundwater MTCA Method B cleanup levels.

1.1 Location

Philip's Washougal facility is located off 32nd Street in Washougal, Washington. The facility is located within a diked portion of the Columbia River floodplain in the Camas-Washougal Industrial Park. See Figure 1-1 for a Location Map.

1.2 Facility Description

The facility occupies approximately 5.2 acres of the park. The facility consists of a water and stormwater treatment facility, two RCRA drum storage buildings, and an office. See Figure 1-2 for a detailed Site Map.

1.3 Facility History

The facility was constructed in 1978 by McClary-Columbia Corporation and was used to produce phenolic resins. In January 1979, the facility began producing defoamers and water treatment chemicals for use in the paper industry. Production of phenolic resins ceased in November 1979. Waste oil recovery began in November 1979 and ended in late 1980. The plant began recycling waste solvents in 1980 and converted the former resin plant to the present solvent recovery plant by 1981. The two drum storage facilities were constructed in 1981 and 1985. The non-RCRA waste oil blending facility was completed in 1986.

Chemical Processors, Inc. (Chempro) purchased majority ownership of the facility from McClary-Columbia in June 1985, and purchased full ownership in late 1987. In early 1988, Burlington Resources purchased Chempro and formed Burlington Environmental, Inc. In late 1993, Philip Environmental purchased Burlington Environmental, Inc. In 1997, Philip Environmental changed its name to Philip Services Corp. However, the facility continues to operate under the Burlington Environmental, Inc. name.

2.0 Site Geology and Hydrology

The facility is constructed on approximately seven to ten feet of sandy dredge spoils from the Columbia River. The saturated portion of this sand unit comprises the shallow aquifer, which is generally between four and seven feet thick. Depth to groundwater fluctuates seasonally, but is usually between two and four feet below ground surface (bgs). Groundwater flow in the shallow aquifer is to the east towards Steigerwald Marsh. Previous investigations have shown a measured range for the hydraulic conductivity of the shallow aquifer from 2.4×10^{-2} cm/s to 5.7×10^{-4} cm/s, a hydraulic gradient of 0.012, and an average linear velocity of 3.1 feet per day. No beneficial use of this aquifer has been identified.

Beneath the sand dredge spoils is a laterally continuous native silt unit derived from the marsh that was present at the site prior to filling with dredge spoils. The thickness of the silt aquitard varies across the site. In the western-upgradient portion of the site, the silt layer is between 1-2 feet thick. In the central portion of the site, the zone of contamination, the silt layer thickness varies from 8.5 to 15.5 feet. On the eastern-downgradient side of the site, the silt layer ranges from 6-9 feet in thickness. The silt unit functions as an aquitard confining the deep aquifer. The hydraulic conductivity of the silt unit averages 5.2×10^{-7} cm/s.

Characterization of the deep aquifer has focused on the upper portion, and the total thickness of the aquifer has been estimated to be at least 78 feet thick, based on water well logs from the area. The upper portion of the deep aquifer at the site is composed of gravel and sand. Flow direction of this aquifer appears to be influenced by the Columbia River stage, which is slightly influenced by tides at Washougal. The dominant flow direction appears to be south towards the river, but fluctuates between southwest and northeast depending on the stage of the Columbia River. No information regarding the hydraulic properties of the deep aquifer has been acquired in previous investigations.

3.0 Previous Investigations

Previous investigations have identified organic contaminants in the groundwater, soil, and surface water at the facility. Primary areas of soil contamination included areas beneath the tank farm, and north of the tank farm in the vicinity of the abandoned sump. Chlorinated solvents, various other volatile organic compounds (VOCs), metals and some polycyclic aromatic hydrocarbons (PAHs) have been detected in the soil. Dense non-aqueous phase liquid (DNAPL) was detected in soil borings beneath the tank farm in October of 1986.

DNAPL was detected at approximately 4.5 to 5.5 feet below ground surface (bgs) at two locations near former tanks N and O. The DNAPL was described as a two-phase liquid that was dark brown to black in color. The primary contaminants identified in the DNAPL samples were: 1-1-1 trichloroethane, trichloro-trifluoroethane (Freon- 113), trichloroethylene, tetrachloroethylene, toluene, and xylene.¹ The concentrations of these chemicals exceeded the chemical solubility limits and were therefore considered free-phase DNAPLs.

Various organic compounds and metals, primarily in the north and northeast portions of the facility have impacted the shallow aquifer. No free-phase DNAPL has been detected in monitoring wells. The primary contaminants in the shallow aquifer include: chlorinated solvents (1,1-dichloroethane [1,1,-DCA], 1,1-dichloroethene [1,1-DCE], cis-1,2-dichloroethene [cis-1,2-DCE], 1,2,2-trichloro-1,1,2-trifluoroethane [Freon- 113], 1,1,1-trichloroethane [1,1,1-TCA or methyl chloroform], trichloroethene [TCE], and tetrachloroethene [perchloroethylene or PCE]); vinyl chloride; acetone; BTEX compounds (benzene, toluene, ethylbenzene, and xylene); phenols; naphthalenes; and arsenic.

Several VOCs have been detected in three of five deep aquifer groundwater monitoring wells. Like the shallow aquifer, the most prevalent compound in the deep aquifer is Freon-113, present in concentrations of up to several thousand micrograms per liter (ug/l). The highest concentrations of VOCs in the deep aquifer were detected in monitoring well MC-18, located north of the tank farm (Figure 1-2).

Low concentrations of volatile organic compounds were detected in surface water and sediment samples from Steigerwald Marsh. However, more sampling is planned to determine the nature and extent of contamination in the marsh.

The results of the previous site investigations have resulted in characterization of the shallow aquifer and have identified potential sources of organic contamination at the facility. Additional characterization of the deep aquifer is planned. Installation of three more deep aquifer wells is planned for 1998. A silt investigation revealed that an underlying silt layer is laterally continuous across the site and acts as a confining layer between the shallow and deep aquifers.

Interim Measures have been in effect at Washougal since 1986. Interim Measures have focused on collecting data necessary to characterize the potential source area(s) for the impacted groundwater present at the site. They also intend to provide information that will be used to evaluate potential

¹ Information on the 1986 soil borings can be found in two letter reports which are provided in Appendix B From: Sweet, Edwards & Associates, Inc. To: Jack McClary at McClary Columbia Corp., October 24, 1986; and From: CrownZellerbach To: Mr. Dave Deupree at McClary Columbia Corp., October 27, 1986

remedial alternatives for the source area(s). Methods of evaluating potential remedial alternatives will be presented in an Interim Measures Study Work Plan, submitted after completion of the Interim Measures Investigation, in accordance with the schedule included in Section VII.D.5 of the Part B permit.

4.0 Purpose of Investigation

The scope of work performed for this investigation is described in the Interim Action Work Plan, dated September 1997 and in Section VII.C.5. of the Burlington Environmental Inc. d.b.a. Philip Services Corp. ("Philip") Washougal Facility RCRA Final Status Permit. These tasks are summarized below. The regulatory requirements of an Interim Action are described in WAC 173-340-430.

- Conduct a subsurface soil investigation of the area around groundwater monitoring well MC-18 to determine the source of elevated levels of VOCs in the deep aquifer.
- Conduct a subsurface soil investigation of the area around groundwater monitoring well MC-7 to determine the source of elevated levels of tetrachloroethene (PCE) in the shallow aquifer.
- Remove, designate and dispose of soils beneath the former interim status tank system which exceed MTCA Method B (100X groundwater) soil cleanup levels, and verify removal through in-situ verification sampling.
- If found necessary, remove, designate and dispose of soils in the vicinity of groundwater monitoring wells MC-18 and MC-7 which exceed MTCA Method B (100X groundwater) soil cleanup levels.

During the 1996 Silt Investigation, no evidence was discovered to indicate the presence of free phase DNAPL accumulation on the confining silt unit beneath the site. The highest concentrations of contaminants were detected in samples collected from four feet below ground surface (bgs) in the fill sands beneath the former tank pad. The 1996 Silt investigation yielded only one sample that exceeded the MTCA Method B residential cleanup level (GP-15, @4 feet bgs, for PCE). All other exceedances were of the more stringent MTCA Method B 100 x Groundwater formula values. A "contained-in" policy determination was made (September 9, 1997 letter from Ecology to Philip) to allow disposal of soil and debris contaminated with F001-F005 listed dangerous constituents (spent halogenated and non-halogenated solvents) in a Subtitle D landfill. The "contained in" policy specifies that, if the dangerous constituents in contaminated media and/or debris fall below MTCA residual cleanup levels (Method B formula values, direct contact, soil) and the media and/or debris do not exhibit any dangerous waste characteristics, then Ecology can determine that the media and/or debris no longer contain dangerous wastes. This is because the MTCA residential exposure assumptions represent very conservative assessments of the potential exposure risks posed by the contaminated media and/or debris. Management of the media and/or debris as a dangerous waste is therefore no longer required, although Ecology can issue guidelines regarding disposal.

Excavation of contaminated soil beneath the former tank farm intended to substantially reduce the source of the contamination observed in the shallow aquifer and that observed in the deep aquifer at groundwater monitoring well MC-18. The effects of this interim action will reduce the threat to the environment, provide a partial cleanup of the site, and will not affect future cleanup actions if deemed necessary.

The excavation satisfied the final closure step described in the July 28,1995 Interim Status Dangerous Waste Tank System Closure Plan by removing and disposing of the tank system containment pad and the North Loading Pad.

5.0 Field Investigations

5.1 Soil Borings

Philip completed eight soil borings at the site on September 15, 1997. Figure 5-1 shows the locations of these eight borings. A concrete corer was used to gain access to the underlying soil in areas where concrete covered the surface. A 2.25-foot auger was used to drill down to approximately two feet at which point a split-spoon sampler was advanced in front of the auger. Samples were collected at two feet intervals until the top of the silt layer was reached. Soil samples were collected from each boring using a two-inch diameter by two-foot long split-spoon sampler. A decontaminated stainless steel spoon was used to remove the soil from the split-spoon and place it immediately into a sample jar. Each boring was backfilled with bentonite chips upon sampling completion. Immediately following sample collection, the samples were placed in an iced cooler. The samples were hand delivered to the Philip Renton laboratory on September 14, 1997. The samples were analyzed for VOCs and SVOCs.

5.1.1 Soil Borings at MC-18

Five shallow soil borings were completed around MC-18 (Figure 5-1) to determine whether the source of VOCs in this deep well was from the shallow aquifer. Boring IAB-03 was located 25 feet north of MC-18 on the opposite (north) side of the buried pipelines. The boring was advanced to a depth of 13 feet, six feet into the silt layer, to evaluate if the lithology surrounding MC-18 is native sediment or disturbed material implaced during installation of the pipelines. Analytical samples were only collected to six feet bgs. Borings IAB-01 was installed approximately 15 feet west of MC-18 to a depth of 6 feet bgs. Boring IAB-02 was installed approximately 5 feet west of MC-18 to a depth of 8 feet bgs. Boring IAB-04 was installed 10 feet east of MC-18 to a depth of six feet bgs. Boring IAB-05 was installed approximately 15 feet south-southeast of MC-18, at the midpoint between MC-18 and soil boring location GP-09. (GP-09 was installed during the silt investigation, refer to the Washougal Silt Investigation, Technical Memorandum, November 1996). Boring IAB-05 was installed to a depth of six feet bgs.

5.1.2 Soil Borings at MC-7

Two borings were completed upgradient and one boring downgradient of MC-7 (Figure 5-1) to determine the source of the groundwater contaminants in MC-7. Boring IAB-06 was placed approximately 30 feet west of MC-7 to a depth of 6 feet bgs. Boring IAB-07 was placed 15 feet west of MC-7 to a depth of 6 feet bgs. The third boring, IAB-08, was placed downgradient of MC-7 between the well and the former tank system at a depth of six feet bgs.

5.2 Tank Farm Excavation

From September 15 through October 2, 1997, Philip removed the former tank system concrete containment area and the concrete north loading pad and excavated the underlying soil. A track-hoe

was used to break the concrete into sections and load it into bulk containers (end dumps) for disposal at Rabanco Regional Disposal Co. in Roosevelt, Washington. Once the concrete cover was removed, the underlying soils were excavated to six feet below ground surface. Soil removal began in the southwest corner of the tank system using an excavator positioned above and reaching down to remove the soils. Initially, the excavation was to be completed at a depth of four feet bgs. However the soil at four feet was still determined to be contaminated due to the odor of the soil, and a cooperative decision was made between Ecology and Philip to continue the excavation to six feet bgs where the soil was no longer physically contaminated. The 10 NDU criterion for the "contained in" policy determination was not exceeded during a field screening with a PID. Therefore, the soil did not have to be managed as a dangerous waste as specified by the "contained-in" policy for managing excavated soil as dangerous waste vs. solid waste.

Laterally, the excavation extended two feet beyond the tank system containment walls, except along Building 1 (east side) where the excavation extended to within three feet of the building. Approximately 3360 tons of concrete and soil were removed. The excavated material was loaded directly into dump trucks for disposal at the Rabanco Regional Disposal Co.

During the excavation activities, recovery well MC-R was removed. MC-R is a driven well with no gravel pack and a base at nine feet bgs. The soil around recovery well MC-R was excavated to six feet bgs. The casing was then pulled using the track-hoe. The remaining three-foot hole was backfilled with bentonite.

Two feet southwest of MC-R, approximately three plastic 5-gallon buckets connected in a vertical series were discovered. Their presence was unknown to Philip prior to the excavation activities and no mention of this structure was made in any previous report. The bottom-most bucket was perforated along the side with the bottom intact. The buckets above all had their bottoms removed. The buckets extended from just below the surface concrete to 6 feet bgs. The buckets were removed during the excavation and Ecology notified of the discovery.

Following the excavation to six feet bgs, soil confirmation samples were collected from the bottom of the excavation. Sample locations were determined using a grid system. Figure 5-1 displays the grid system and sampling locations. Initially, samples were to be collected at 25 nodes in the grid at a depth of four feet below ground surface (bgs). However, during the collection of four foot bgs confirmation samples, Ecology decided that samples need not to be collected from all 25 grid nodes, because a decision was made to extend the entire excavation to six bgs. Therefore, only eight four-foot soil samples were collected at grid points: 1-4 and 6-9. Fourteen confirmation samples were re-collected at 6 feet bgs from grid points: 1, 3, 5, 6, 8, 10, 11, 13, 15, 16, 18, 20, 23, and 25. The excavation intercepted the water table between four to six feet bgs. For samples collected below the groundwater level in the excavation pit, the water was decanted off the sample prior to submitting for analysis to provide a more representative measure of soil contamination levels. Immediately following sample collection, the samples were placed in an iced cooler. The samples were submitted to the Philip Renton Laboratory and analyzed for VOCs and SVOCs.

The excavation was backfilled following completion of the soil removal. Pre-load material already on site was used to fill in the excavation pit to a level just below the perimeter elevation. The backfill was laid down in lifts and compacted.

6.0 Results

6.1 Soil Borings

As stated in Section 5.0, a subsurface soil investigation consisting of collection and analysis of soil samples from eight soil borings in the area surrounding groundwater monitoring wells MC-18 and MC-7 was conducted as part of Interim Actions at the site. Five shallow soil borings (IAB-01 through IAB-05) were installed to evaluate soil in the vicinity of monitoring well MC-18 as a potential source of VOCs in the deep aquifer beneath the site. Three shallow soil borings (IAB-06, IAB-07, and IAB-08) were installed to evaluate soil in the vicinity of groundwater monitoring well MC-7 as a potential source of PCE in the shallow aquifer beneath the site.

A total of thirteen VOCs were detected in soil samples collected from the soil borings around MC-18, including: PCE, TCE, 1,1,1-TCA, methylene chloride, 1,2-dichlorobenzene, 1,2,4-trimethylbenzene, ethylbenzene, toluene, m,p-xylenes, o-xylene, 2-butanone, acetone, and freon-113. While 10 VOCs were detected in the soil borings surrounding MC-7, including PCE, 1,2,4-trimethylbenzene, ethylbenzene, toluene, m,p-xylenes, o-xylene, 2-butanone, acetone, freon-113 and carbon disulfide. All of these VOCs except for carbon disulfide were detected in confirmatory soil samples from beneath the former tank farm.

PCE, the primary chemical of concern in the groundwater at these wells, was detected in four of the borings installed around monitoring well MC-18 (IAB-02 - IAB-05). While PCE was only detected in one sample from the borings surrounding MC-7: 2.63 µg/kg in the sample from 6 ft below ground surface (bgs) in boring IAB-08 (Figure 5-2). Each of these detections was well below the 100 x Groundwater cleanup levels of 87.5 µg/kg for PCE in soil. These results indicate that soil in the vicinity of MC-7 is not acting as a source of PCE in the shallow aquifer.

Toluene and acetone were the only two VOCs detected in more than one sample from any single boring. Toluene was detected in the 2 and 4 ft bgs samples from boring IAB-04, but was not detected in the 6 ft bgs sample. Acetone was the most frequently detected VOC in soil samples from the soil borings. Acetone was detected in the deepest sample collected from each boring and was the only VOC detected in all eight soil borings.

As shown in Table 6-3, the concentrations of each of the VOCs detected in the soil borings were well below 100 x Groundwater cleanup levels. Further, the concentration of VOCs observed in samples from the soil borings do not indicate that soils in the vicinity of wells MC-7 or MC-18 are acting as significant sources of VOCs in groundwater.

Soil samples from the soil borings were also analyzed for SVOC concentrations. Only one SVOC (4-bromophenyl phenyl ether) was detected in soil from the soil borings (Table 6-4). There is no established 100 x Groundwater cleanup levels listed for 4-bromophenyl phenyl ether.

6.2 Confirmation Sampling

In total, 22 confirmation samples were collected from the bottom of the excavation pit (Figure 5-1) and analyzed for VOC and SVOC concentrations. The objective of these analyses was to verify removal of soil exceeding the 100 x Groundwater MTCA Method B cleanup levels.

Three SVOCs (naphthalene, 2-methyl naphthalene, and di-n-butyl phthalate) were detected in confirmation samples. Two SVOCs (naphthalene and 2-methyl naphthalene) were detected in the 6 ft bgs sample from CIA-08, one SVOC (2-methyl naphthalene) was detected in the 6 ft bgs sample from CIA-13, and one SVOC (di-n-butyl phthalate) was detected in the 6 ft bgs sample from CIA-23. The concentrations of naphthalene and di-n-butyl phthalate detected in confirmation samples CIA-08 and CIA-23, respectively, were each below their 100 x Groundwater cleanup levels (Table 6-1). There is no established 100 x Groundwater cleanup level listed for 2-methyl naphthalene.

A total of 36 different VOCs were detected in confirmation soil samples collected from the bottom of the former tank farm excavation pit (Table 6-2). Three of the VOCs (PCE, vinyl chloride, and 1,1,2,2-tetrachloroethane) were present at concentrations in excess of the 100 x Groundwater cleanup levels. PCE was present above the 100 x Groundwater cleanup levels in borings CIA-11, CIA-13, and CIA-20; vinyl chloride exceeded its 100 x Groundwater cleanup levels in samples CIA-08, CIA-13, and CIA-15; and 1,1,2,2-tetrachloroethane exceeded its 100 x Groundwater cleanup levels in CIA-10. Boring CIA-13 was the only sampling location that contained more than one VOC above 100 x Groundwater cleanup levels. Isoconcentration contour maps showing the distribution of PCE, and vinyl chloride are provided in Figures 6-1 and 6-2. Freon-113 (1,2,2-trichloro-1,1,2-trifluoroethane) was detected in concentrations ranging from non-detect (<15 ug/kg) to ~15,000 ug/kg.² However, none of the Freon-113 detections were close to exceeding the MTCA Method B 100 x Groundwater cleanup standards of 4,800,000 ug/kg or the MTCA Method B Residential Cleanup Standards for soils of 2,400,000 ug/kg.

Together, the results of the VOC analyses indicate the presence of residual soil contamination in excess of the 100 x Groundwater cleanup levels along the western portion of the excavation adjacent to the existing facility warehouse/office building and extending from CIA-20 in the northeastern portion of the excavation towards CIA-11 (Figure 6-3). These results also indicate that residual soil contamination in excess of the 100 x Groundwater cleanup levels also exists beneath the facility building.

It should be noted that Philip's confirmation samples were not submitted for percent dry weight analysis, therefore the reported analytical results may represent lower concentrations than if calculated on a percent dry weight basis.

² All detections >2000 ug/kg are flagged because the samples were not diluted prior to analysis.

7.0 Conclusions

7.1 Soil Borings

Eight borings were installed around monitoring wells MC-7 and MC-18 to determine if there was a source of groundwater contamination in the soils near these wells. The soils sampled from these borings were analyzed for VOCs and SVOCs. All samples were well below the 100 x Groundwater cleanup levels. Consequently, the data gathered from the soil borings suggests that the only potential source of groundwater contamination would be from the soils beneath the tank farm. It is anticipated that the excavation of the soils beneath the tank farm will lead to lower concentrations of groundwater contaminants in the future.

7.2 Tank Farm Excavation

The contaminated soils beneath the former tank farm were excavated to the top of the silt layer in several locations. In other areas, several inches of fill was left in place. It was not possible to excavate to the silt layer in all locations without jeopardizing the integrity of the silt confining layer and possibly creating a conduit to the lower aquifer. In addition, the excavation filled with groundwater at approximately 4 feet bgs. Since the most heavily contaminated soils had been removed in the upper four feet of the excavation it was determined that the cost of dewatering the excavation, then storing, treating, and disposing of the water, would far outweigh any measurable benefit. The soils at the bottom of the excavation were screened and analyzed to confirm that contaminated soils exceeding MTCA Method B 100 x Groundwater formula values had been removed.

The confirmation samples revealed that most of the contamination had been removed. All sample concentrations were well below the MTCA Method B residential cleanup levels. However there were three chemicals that exceeded the 100 x Groundwater cleanup levels for soil in the 6 foot bgs interval. Although these chemicals were found in concentrations above the 100 x Groundwater cleanup levels, the concentrations were significantly lower than those found in the four foot bgs interval, which contained the most contaminated soil.

Quarterly groundwater monitoring of all wells on site will continue, according to Philip's Part B Permit, to determine the effects of this removal action.

**Table 6-1: SVOCs Detected in Soil
Tank Farm Excavation Confirmation Samples
Washougal Facility**

CAS Number		91-20-3	91-57-6	84-74-2	
100 x Groundwater Formula (ug/kg) for MTCA Method B		32000	PQL = 10	160000	
Sample Location	Sample Date	Sample Depth (feet)	Naphthalene (ug/kg)	2-Methyl naphthalene (ug/kg)	Di-n-butyl-phthalate (ug/kg)
CIA-01	9/24/97	6	< 330	< 330	< 330
CIA-03	9/24/97	6	< 330	< 330	< 330
CIA-05	9/19/97	6	< 100	< 100	< 100
CIA-06	9/24/97	6	< 330	< 330	< 330
CIA-08	9/24/97	6	1090	1990	< 330
CIA-10	9/19/97	6	< 100	< 100	< 500
CIA-11	9/26/97	6	< 330	< 330	< 330
CIA-13	9/26/97	6	< 330	360	< 330
CIA-15	9/26/97	6	< 330	< 330	< 330
CIA-16	9/30/97	6	< 33	< 33	< 33
CIA-18	9/30/97	6	< 33	< 33	< 33
CIA-20	9/30/97	6	< 33	< 33	< 33
CIA-23	9/30/97	6	< 33	< 33	470
CIA-25	9/30/97	6	< 33	< 33	< 33

Table 6-2: VOCs Detected in Soil
Tank Farm Excavation Confirmation Samples
Washougal Facility

Sample Location	Sample Date	Sample Depth (feet)	Analyte	CAS Number	100 x Groundwater MTCA Method B (ug/kg)	Conc. Detected (ug/kg)	Exceeds Method B Level (yes/no)
Chlorinated Ethenes							
CIA-13	9/26/97	6	PCE	127-18-4	86	438	yes
CIA-20	9/30/97	6	PCE	127-18-4	86	360	yes
CIA-11	9/26/97	6	PCE	127-18-4	86	202	yes
CIA-3	9/24/97	6	PCE	127-18-4	86	42	no
CIA-5	9/19/97	6	PCE	127-18-4	86	41	no
CIA-6	9/24/97	6	PCE	127-18-4	86	41	no
CIA-8	9/24/97	6	PCE	127-18-4	86	21	no
CIA-10	9/19/97	6	PCE	127-18-4	86	20	no
CIA-15	9/26/97	6	PCE	127-18-4	86	12	no
CIA-1	9/24/97	6	PCE	127-18-4	86	9	no
CIA-25	9/30/97	6	PCE	127-18-4	86	3	no
CIA-20	9/30/97	6	TCE	79-01-6	397	42	no
CIA-5	9/19/97	6	TCE	79-01-6	397	20	no
CIA-13	9/26/97	6	TCE	79-01-6	397	19	no
CIA-11	9/26/97	6	TCE	79-01-6	397	9	no
CIA-20	9/30/97	6	trans-1,2-DCE	156-60-5	16,000	8	no
CIA-20	9/30/97	6	cis-1,2-DCE	156-59-2	8,000	320	no
CIA-5	9/19/97	6	cis-1,2-DCE	156-59-2	8,000	202	no
CIA-13	9/26/97	6	cis-1,2-DCE	156-59-2	8,000	37	no
CIA-15	9/26/97	6	cis-1,2-DCE	156-59-2	8,000	37	no
CIA-8	9/24/97	6	cis-1,2-DCE	156-59-2	8,000	18	no
CIA-10	9/19/97	6	cis-1,2-DCE	156-59-2	8,000	16	no
CIA-11	9/26/97	6	cis-1,2-DCE	156-59-2	8,000	16	no
CIA-1	9/24/97	6	cis-1,2-DCE	156-59-2	8,000	3	no
CIA-25	9/30/97	6	cis-1,2-DCE	156-59-2	8,000	3	no
CIA-15	9/26/97	6	Vinyl chloride	75-01-4	2.3	5.0	yes
CIA-8	9/24/97	6	Vinyl chloride	75-01-4	2.3	2.6	yes
CIA-13	9/26/97	6	Vinyl chloride	75-01-4	2.3	2.4	yes
Chlorinated Ethanes							
CIA-10	9/19/97	6	1,1,2,2-Tetrachloroethane	79-34-5	22	31	yes
CIA-15	9/26/97	6	1,1,2-TCA	79-00-5	77	3	no
CIA-5	9/19/97	6	1,1,1-TCA	71-55-6	720,000	276	no
CIA-20	9/30/97	6	1,1,1-TCA	71-55-6	720,000	228	no
CIA-10	9/19/97	6	1,1,1-TCA	71-55-6	720,000	125	no
CIA-13	9/26/97	6	1,1,1-TCA	71-55-6	720,000	89	no
CIA-11	9/26/97	6	1,1,1-TCA	71-55-6	720,000	35	no
CIA-8	9/24/97	6	1,1,1-TCA	71-55-6	720,000	21	no
CIA-15	9/26/97	6	1,1,1-TCA	71-55-6	720,000	15	no
CIA-3	9/24/97	6	1,1,1-TCA	71-55-6	720,000	9	no
CIA-1	9/24/97	6	1,1,1-TCA	71-55-6	720,000	6	no
CIA-20	9/30/97	6	1,2-DCA	107-06-2	48	23	no
CIA-5	9/19/97	6	1,1-DCA	75-34-3	80,000	47	no
CIA-20	9/30/97	6	1,1-DCA	75-34-3	80,000	23	no
CIA-15	9/26/97	6	1,1-DCA	75-34-3	80,000	9	no
CIA-13	9/26/97	6	1,1-DCA	75-34-3	80,000	5	no
CIA-11	9/26/97	6	1,1-DCA	75-34-3	80,000	4	no

Table 6-2: VOCs Detected in Soil
Tank Farm Excavation Confirmation Samples
Washougal Facility

Sample Location	Sample Date	Sample Depth (feet)	Analyte	CAS Number	100 x Groundwater MTCA Method B (ug/kg)	Conc. Detected (ug/kg)	Exceeds Method B Level (yes/no)
Freons							
TIA-2	9/18/98	3	trichloro-1,2,2-trifluoroethane;1,1,2-	76-13-1	480,000	1200	no
CIA-1	9/19/98	4	trichloro-1,2,2-trifluoroethane;1,1,2-	76-13-1	480,000	5500	no
CIA-1	9/24/97	6	trichloro-1,2,2-trifluoroethane;1,1,2-	76-13-1	480,000	30	no
CIA-2	9/19/98	4	trichloro-1,2,2-trifluoroethane;1,1,2-	76-13-1	480,000	9000	no
CIA-3	9/19/98	4	trichloro-1,2,2-trifluoroethane;1,1,2-	76-13-1	480,000	15000	no
CIA-3	9/24/97	6	trichloro-1,2,2-trifluoroethane;1,1,2-	76-13-1	480,000	44	no
CIA-4	9/19/98	4	trichloro-1,2,2-trifluoroethane;1,1,2-	76-13-1	480,000	11300	no
CIA-6	9/19/98	4	trichloro-1,2,2-trifluoroethane;1,1,2-	76-13-1	480,000	7100	no
CIA-6	9/24/97	6	trichloro-1,2,2-trifluoroethane;1,1,2-	76-13-1	480,000	26	no
CIA-7	9/19/98	4	trichloro-1,2,2-trifluoroethane;1,1,2-	76-13-1	480,000	3400	no
CIA-8	9/19/98	4	trichloro-1,2,2-trifluoroethane;1,1,2-	76-13-1	480,000	12500	no
CIA-8	9/24/97	6	trichloro-1,2,2-trifluoroethane;1,1,2-	76-13-1	480,000	210	no
CIA-11	9/26/98	6	trichloro-1,2,2-trifluoroethane;1,1,2-	76-13-1	480,000	100	no
CIA-13	9/26/98	6	trichloro-1,2,2-trifluoroethane;1,1,2-	76-13-1	480,000	1300	no
CIA-15	9/26/98	6	trichloro-1,2,2-trifluoroethane;1,1,2-	76-13-1	480,000	230	no
CIA-8	9/24/97	6	Dichlorodifluoromethane	75-71-8	160,000	2	no
Chlorinated Methanes							
CIA-18	9/30/97	6	Methylene chloride	75-09-2	583	19	no
Chlorinated Propanes							
CIA-3	9/24/97	6	2,2-Dichloropropane	590-20-7	not listed	4	--
CIA-11	9/26/97	6	1,2-Dichloropropane	78-87-5	64	5	no
Chlorinated Benzenes							
CIA-11	9/26/97	6	1,2,3-Trichlorobenzene	87-61-6	not listed	2	--
CIA-20	9/30/97	6	1,4-Dichlorobenzene	106-46-7	182	6	no
CIA-11	9/26/97	6	1,4-Dichlorobenzene	106-46-7	182	3	no
CIA-13	9/26/97	6	1,4-Dichlorobenzene	106-46-7	182	3	no
CIA-20	9/30/97	6	1,3-Dichlorobenzene	541-73-1	not listed	6	--
CIA-11	9/26/97	6	1,3-Dichlorobenzene	541-73-1	not listed	3	--
CIA-20	9/30/97	6	1,2-Dichlorobenzene	95-50-1	72,000	110	no
CIA-5	9/19/97	6	1,2-Dichlorobenzene	95-50-1	72,000	54	no
CIA-13	9/26/97	6	1,2-Dichlorobenzene	95-50-1	72,000	27	no
CIA-3	9/24/97	6	1,2-Dichlorobenzene	95-50-1	72,000	14	no
CIA-15	9/26/97	6	1,2-Dichlorobenzene	95-50-1	72,000	13	no
CIA-11	9/26/97	6	1,2-Dichlorobenzene	95-50-1	72,000	8	no
CIA-8	9/24/97	6	1,2-Dichlorobenzene	95-50-1	72,000	5	no
Benzenes							
CIA-20	9/30/97	6	sec-Butylbenzene	135-98-8	not listed	926	--
CIA-11	9/26/97	6	sec-Butylbenzene	135-98-8	not listed	49	--
CIA-6	9/24/97	6	sec-Butylbenzene	135-98-8	not listed	25	--
CIA-13	9/26/97	6	sec-Butylbenzene	135-98-8	not listed	14	--
CIA-8	9/24/97	6	sec-Butylbenzene	135-98-8	not listed	5	--
CIA-5	9/19/97	6	n-Butylbenzene	104-51-8	not listed	106	--
CIA-11	9/26/97	6	n-Butylbenzene	104-51-8	not listed	61	--
CIA-6	9/24/97	6	n-Butylbenzene	104-51-8	not listed	53	--

Table 6-2: VOCs Detected in Soil
Tank Farm Excavation Confirmation Samples
Washougal Facility

Sample Location	Sample Date	Sample Depth (feet)	Analyte	CAS Number	100 x Groundwater MTCA Method B (ug/kg)	Conc. Detected (ug/kg)	Exceeds Method B Level (yes/no)
CIA-13	9/26/97	6	n-Butylbenzene	104-51-8	not listed	40	--
CIA-3	9/24/97	6	n-Butylbenzene	104-51-8	not listed	9	--
CIA-8	9/24/97	6	n-Butylbenzene	104-51-8	not listed	9	--
CIA-20	9/30/97	6	n-Propylbenzene	103-65-1	not listed	4620	--
CIA-5	9/19/97	6	n-Propylbenzene	103-65-1	not listed	304	--
CIA-11	9/26/97	6	n-Propylbenzene	103-65-1	not listed	58	--
CIA-6	9/24/97	6	n-Propylbenzene	103-65-1	not listed	49	--
CIA-13	9/26/97	6	n-Propylbenzene	103-65-1	not listed	27	--
CIA-25	9/30/97	6	n-Propylbenzene	103-65-1	not listed	16	--
CIA-3	9/24/97	6	n-Propylbenzene	103-65-1	not listed	15	--
CIA-15	9/26/97	6	n-Propylbenzene	103-65-1	not listed	7	--
CIA-8	9/24/97	6	n-Propylbenzene	103-65-1	not listed	7	--
CIA-20	9/30/97	6	Isopropylbenzene	98-82-8	64,000	869	no
CIA-5	9/19/97	6	Isopropylbenzene	98-82-8	64,000	84	no
CIA-13	9/26/97	6	Isopropylbenzene	98-82-8	64,000	19	no
CIA-10	9/19/97	6	Isopropylbenzene	98-82-8	64,000	16	no
CIA-11	9/26/97	6	Isopropylbenzene	98-82-8	64,000	11	no
CIA-6	9/24/97	6	Isopropylbenzene	98-82-8	64,000	10	no
CIA-25	9/30/97	6	Isopropylbenzene	98-82-8	64,000	8	no
CIA-3	9/24/97	6	Isopropylbenzene	98-82-8	64,000	5	no
CIA-15	9/26/97	6	Isopropylbenzene	98-82-8	64,000	4	no
CIA-5	9/19/97	6	1,3,5-Trimethylbenzene	108-67-8	not listed	588	--
CIA-11	9/26/97	6	1,3,5-Trimethylbenzene	108-67-8	not listed	385	--
CIA-13	9/26/97	6	1,3,5-Trimethylbenzene	108-67-8	not listed	198	--
CIA-6	9/24/97	6	1,3,5-Trimethylbenzene	108-67-8	not listed	117	--
CIA-15	9/26/97	6	1,3,5-Trimethylbenzene	108-67-8	not listed	69	--
CIA-8	9/24/97	6	1,3,5-Trimethylbenzene	108-67-8	not listed	60	--
CIA-3	9/24/97	6	1,3,5-Trimethylbenzene	108-67-8	not listed	57	--
CIA-1	9/24/97	6	1,3,5-Trimethylbenzene	108-67-8	not listed	2	--
CIA-20	9/30/97	6	1,2,4-Trimethylbenzene	95-63-6	not listed	13200	--
CIA-5	9/19/97	6	1,2,4-Trimethylbenzene	95-63-6	not listed	1610	--
CIA-6	9/24/97	6	1,2,4-Trimethylbenzene	95-63-6	not listed	277	--
CIA-25	9/30/97	6	1,2,4-Trimethylbenzene	95-63-6	not listed	112	--
CIA-10	9/19/97	6	1,2,4-Trimethylbenzene	95-63-6	not listed	101	--
CIA-3	9/24/97	6	1,2,4-Trimethylbenzene	95-63-6	not listed	42	--
CIA-15	9/26/97	6	1,2,4-Trimethylbenzene	95-63-6	not listed	40	--
CIA-11	9/26/97	6	1,2,4-Trimethylbenzene	95-63-6	not listed	38	--
CIA-13	9/26/97	6	1,2,4-Trimethylbenzene	95-63-6	not listed	26	--
CIA-8	9/24/97	6	1,2,4-Trimethylbenzene	95-63-6	not listed	6	--
CIA-23	9/30/97	6	1,2,4-Trimethylbenzene	95-63-6	not listed	2	--
CIA-20	9/30/97	6	Ethylbenzene	100-41-4	80,000	3280	no
CIA-5	9/19/97	6	Ethylbenzene	100-41-4	80,000	383	no
CIA-13	9/26/97	6	Ethylbenzene	100-41-4	80,000	128	no
CIA-15	9/26/97	6	Ethylbenzene	100-41-4	80,000	40	no
CIA-10	9/19/97	6	Ethylbenzene	100-41-4	80,000	34	no
CIA-25	9/30/97	6	Ethylbenzene	100-41-4	80,000	24	no
CIA-3	9/24/97	6	Ethylbenzene	100-41-4	80,000	16	no
CIA-11	9/26/97	6	Ethylbenzene	100-41-4	80,000	7	no
CIA-6	9/24/97	6	Ethylbenzene	100-41-4	80,000	6	no

Table 6-2: VOCs Detected in Soil
Tank Farm Excavation Confirmation Samples
Washougal Facility

Sample Location	Sample Date	Sample Depth (feet)	Analyte	CAS Number	100 x Groundwater MTCA Method B (ug/kg)	Conc. Detected (ug/kg)	Exceeds Method B Level (yes/no)
CIA-8	9/24/97	6	Ethylbenzene	100-41-4	80,000	6	no
CIA-16	9/30/97	6	Ethylbenzene	100-41-4	80,000	4	no
CIA-20	9/30/97	6	Benzene	71-43-2	150	3	no
CIA-8	9/24/97	6	Benzene	71-43-2	150	3	no
Toluenes							
CIA-11	9/26/97	6	p-Isopropyltoluene	99-87-6	not listed	73	--
CIA-5	9/19/97	6	p-Isopropyltoluene	99-87-6	not listed	62	--
CIA-13	9/26/97	6	p-Isopropyltoluene	99-87-6	not listed	21	--
CIA-6	9/24/97	6	p-Isopropyltoluene	99-87-6	not listed	20	--
CIA-25	9/30/97	6	p-Isopropyltoluene	99-87-6	not listed	11	--
CIA-3	9/24/97	6	p-Isopropyltoluene	99-87-6	not listed	7	--
CIA-8	9/24/97	6	p-Isopropyltoluene	99-87-6	not listed	7	--
CIA-15	9/26/97	6	p-Isopropyltoluene	99-87-6	not listed	5	--
CIA-5	9/19/97	6	Toluene	108-88-3	160,000	94	no
CIA-13	9/26/97	6	Toluene	108-88-3	160,000	33	no
CIA-15	9/26/97	6	Toluene	108-88-3	160,000	33	no
CIA-10	9/19/97	6	Toluene	108-88-3	160,000	27	no
CIA-8	9/24/97	6	Toluene	108-88-3	160,000	14	no
CIA-16	9/30/97	6	Toluene	108-88-3	160,000	10	no
Xylenes							
CIA-20	9/30/97	6	m,p-Xylene	1330-20-7	1,600,000	7100	no
CIA-5	9/19/97	6	m,p-Xylene	1330-20-7	1,600,000	1730	no
CIA-15	9/26/97	6	m,p-Xylene	1330-20-7	1,600,000	236	no
CIA-10	9/19/97	6	m,p-Xylene	1330-20-7	1,600,000	161	no
CIA-13	9/26/97	6	m,p-Xylene	1330-20-7	1,600,000	135	no
CIA-25	9/30/97	6	m,p-Xylene	1330-20-7	1,600,000	131	no
CIA-3	9/24/97	6	m,p-Xylene	1330-20-7	1,600,000	60	no
CIA-6	9/24/97	6	m,p-Xylene	1330-20-7	1,600,000	42	no
CIA-11	9/26/97	6	m,p-Xylene	1330-20-7	1,600,000	18	no
CIA-8	9/24/97	6	m,p-Xylene	1330-20-7	1,600,000	15	no
CIA-16	9/30/97	6	m,p-Xylene	1330-20-7	1,600,000	5	no
CIA-23	9/30/97	6	m,p-Xylene	1330-20-7	1,600,000	5	no
CIA-1	9/24/97	6	m,p-Xylene	1330-20-7	1,600,000	2	no
CIA-20	9/30/97	6	o-Xylene	95-47-6	1,600,000	2270	no
CIA-5	9/19/97	6	o-Xylene	95-47-6	1,600,000	748	no
CIA-13	9/26/97	6	o-Xylene	95-47-6	1,600,000	437	no
CIA-15	9/26/97	6	o-Xylene	95-47-6	1,600,000	184	no
CIA-3	9/24/97	6	o-Xylene	95-47-6	1,600,000	67	no
CIA-11	9/26/97	6	o-Xylene	95-47-6	1,600,000	56	no
CIA-8	9/24/97	6	o-Xylene	95-47-6	1,600,000	51	no
CIA-10	9/19/97	6	o-Xylene	95-47-6	1,600,000	32	no
CIA-25	9/30/97	6	o-Xylene	95-47-6	1,600,000	21	no
CIA-6	9/24/97	6	o-Xylene	95-47-6	1,600,000	18	no
CIA-1	9/24/97	6	o-Xylene	95-47-6	1,600,000	3	no

Table 6-2: VOCs Detected in Soil
Tank Farm Excavation Confirmation Samples
Washougal Facility

Sample Location	Sample Date	Sample Depth (feet)	Analyte	CAS Number	100 x Groundwater MTCA Method B (ug/kg)	Conc. Detected (ug/kg)	Exceeds Method B Level (yes/no)
<i>Naphthalene</i>							
CIA-20	9/30/97	6	Naphthalene	91-20-3	32,000	7830	no
CIA-5	9/19/97	6	Naphthalene	91-20-3	32,000	441	no
CIA-25	9/30/97	6	Naphthalene	91-20-3	32,000	38	no
CIA-15	9/26/97	6	Naphthalene	91-20-3	32,000	31	no
CIA-6	9/24/97	6	Naphthalene	91-20-3	32,000	20	no
CIA-3	9/24/97	6	Naphthalene	91-20-3	32,000	18	no
CIA-13	9/26/97	6	Naphthalene	91-20-3	32,000	13	no
<i>Pentanes</i>							
CIA-20	9/30/97	6	3-methylpentane	96-14-0	not listed	479	--
CIA-13	9/26/97	6	3-methylpentane	96-14-0	not listed	21	--
CIA-11	9/26/97	6	3-methylpentane	96-14-0	not listed	10	--
CIA-20	9/30/97	6	2-methylpentane	107-83-5	not listed	520	--
CIA-13	9/26/97	6	2-methylpentane	107-83-5	not listed	32	--
CIA-11	9/26/97	6	2-methylpentane	107-83-5	not listed	14	--
CIA-13	9/26/97	6	methylcyclopentane	96-37-7	not listed	44	--
CIA-5	9/19/97	6	methylcyclopentane	96-37-7	not listed	21	--
CIA-15	9/26/97	6	methylcyclopentane	96-37-7	not listed	9	--
CIA-11	9/26/97	6	methylcyclopentane	96-37-7	not listed	7	--
<i>Ketones</i>							
CIA-13	9/26/97	6	2-Hexanone	591-78-6	not listed	55	--
CIA-20	9/30/97	6	Acetone	67-64-1	80,000	89	no
CIA-13	9/26/97	6	Acetone	67-64-1	80,000	83	no
CIA-23	9/30/97	6	Acetone	67-64-1	80,000	55	no
CIA-16	9/30/97	6	Acetone	67-64-1	80,000	48	no
CIA-18	9/30/97	6	Acetone	67-64-1	80,000	41	no
CIA-1	9/24/97	6	Acetone	67-64-1	80,000	40	no
CIA-6	9/24/97	6	Acetone	67-64-1	80,000	36	no
CIA-11	9/26/97	6	Acetone	67-64-1	80,000	29	no
CIA-3	9/24/97	6	Acetone	67-64-1	80,000	27	no
CIA-25	9/30/97	6	Acetone	67-64-1	80,000	22	no
CIA-8	9/24/97	6	Acetone	67-64-1	80,000	21	no
CIA-15	9/26/97	6	Acetone	67-64-1	80,000	14	no

* 100 times listed MTCA Method B Formula Value for Groundwater

Note: Freon 113 was not on the original list of analytes therefore dilutions were not performed to ascertain the true values for each sample. Any value over 2000 ppb should be considered an estimate, as it is outside the working calibration range of the instrument.

**Table 6-3: VOCs Detected in Soil Borings
Washougal Facility**

CAS Number	127-18-4	79-01-6	71-55-6	75-09-2	95-50-1	95-63-6	100-41-4
100 x Groundwater Formula (ug/kg) for MTCA Method B	85.7	397	720,000	583	72,000	not listed	80,000
Sample Location	PCE (ug/kg)	TCE (ug/kg)	1,1,1-Trichloroethane (ug/kg)	Methylene chloride (ug/kg)	1,2-Dichlorobenzene (ug/kg)	1,2,4-Trimethylbenzene (ug/kg)	Ethylbenzene (ug/kg)
Sample Date	Sample Depth (feet)						
IAB-01	9/15/97	2	<3	<7	<3	<17	<3
IAB-01	9/15/97	4	<3	11.3	<3	<16	<3
IAB-01	9/15/97	6	<2	<5	<2	<11	<2
IAB-02	9/15/97	2	<4	<9	16.5	<22	<4
IAB-02	9/15/97	4	<2	<5	<2	<12	4.71
IAB-02	9/15/97	6	<2	<4	<2	<11	<2
IAB-02	9/15/97	8	2.85	<4	<2	<14	<2
IAB-03	9/15/97	2	5.18	<2	<1	<6	<1
IAB-03	9/15/97	4	<3.31	<6.62	<3.31	<16.5	<3.31
IAB-03	9/15/97	6	<3	<5	<3	<13	<3
IAB-04	9/15/97	2	<3	<5	<3	28	<3
IAB-04	9/15/97	4	3.27	<4	<2	<10	<2
IAB-04	9/15/97	6	<2	<3	<2	<9	<2
IAB-05	9/15/97	2	<3	<5	<3	<13	<3
IAB-05	9/15/97	4	5.06	<5	<2	<12	<2
IAB-05	9/15/97	6	<2	<4	<2	17.5	<2
IAB-06	9/15/97	2	<2	<6	<2	<14	<2
IAB-06	9/15/97	4	<2	<4	<2	<10	<2
IAB-06	9/15/97	6	<2	<4	<2	<10	<2
IAB-07	9/15/97	2	<3	<7	<3	<17	<3
IAB-07	9/15/97	4	<3	<6	<3	<15	<3
IAB-07	9/15/97	6	<2	<4	<2	<9	<2
IAB-08	9/15/97	2	<2	<5	<2	<11	<2
IAB-08	9/15/97	4	<2	<5	<2	<12	<2
IAB-08	9/15/97	6	2.63	<4	<2	<11	18.2

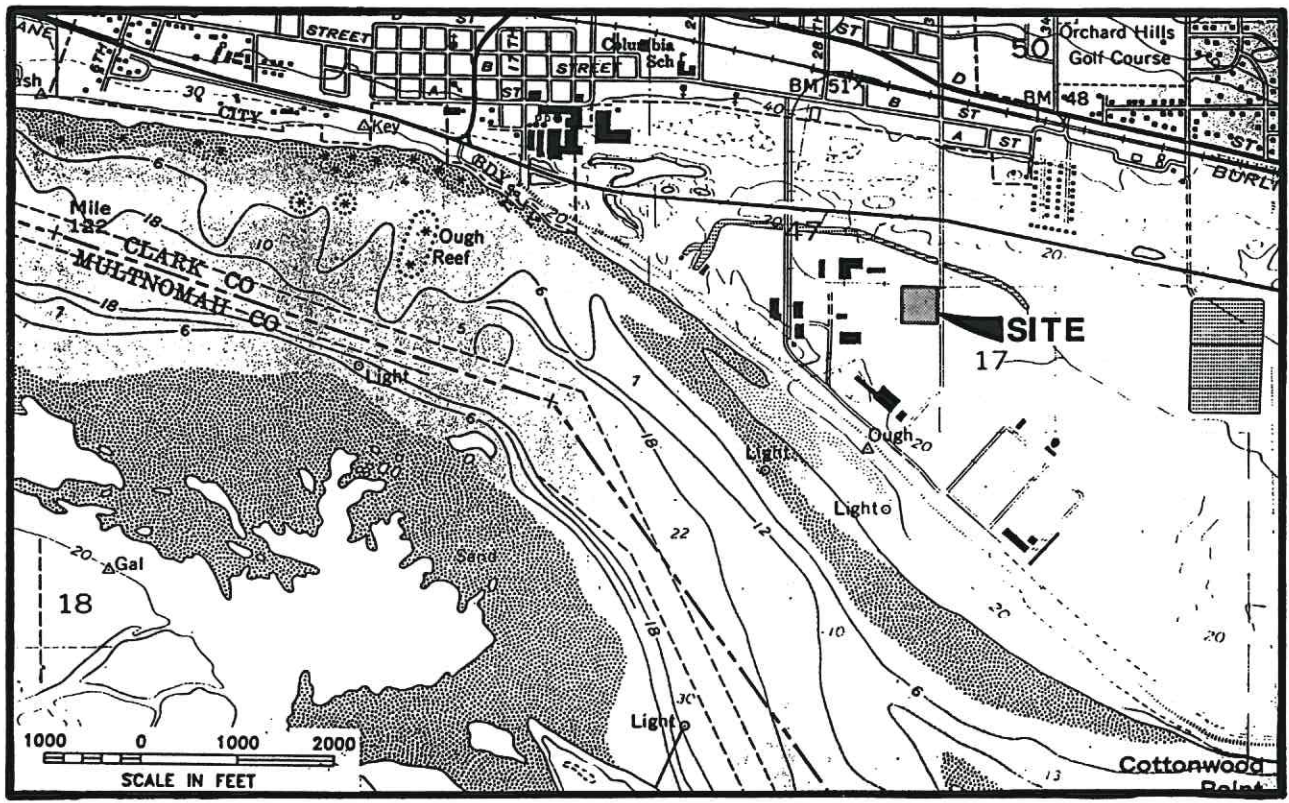
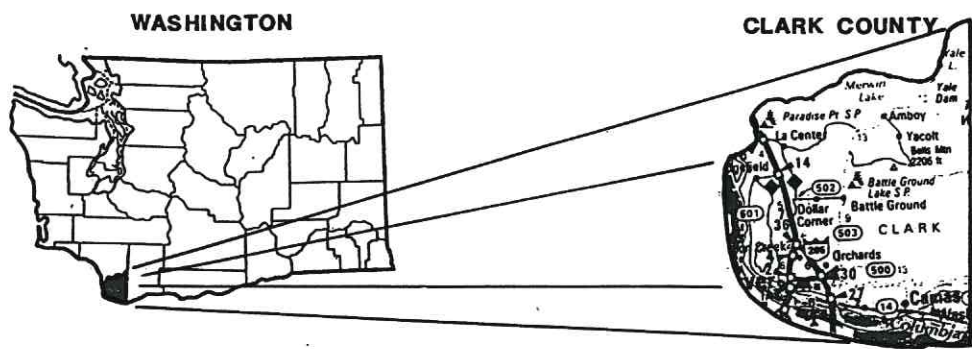
**Table 6-3: VOCs Detected in Soil Borings
Washougal Facility**

CAS Number	108-88-3	1330-20-7	95-47-6	78-93-3	67-64-1	75-15-0	76-13-1
100 x Groundwater Formula (ug/kg) for MTCA Method B	160,000	1,600,000	1,600,000	not listed	80,000	80,000	480,000
Sample Location	Toluene (ug/kg)	m,p-Xylene (ug/kg)	o-Xylene (ug/kg)	2-Butanone (ug/kg)	Acetone (ug/kg)	Carbon disulfide (ug/kg)	Freon 113 (ug/kg)
Sample Date	Sample Depth (feet)						
IAB-01	9/15/97	2	<7	<3	<3	<17	<15
IAB-01	9/15/97	4	<7	<3	<3	<16	96
IAB-01	9/15/97	6	<5	<2	<11	27.3	<15
IAB-02	9/15/97	2	<9	<4	<22	<22	<15
IAB-02	9/15/97	4	<5	<2	<12	<12	<15
IAB-02	9/15/97	6	<4	<2	<11	24.4	<15
IAB-02	9/15/97	8	44.7	3.68	<14	69.6	23
IAB-03	9/15/97	2	<2	<1	<6	<6	<15
IAB-03	9/15/97	4	<6.62	18	22.1	33	<15
IAB-03	9/15/97	6	7.47	<3	<13	31.1	<15
IAB-04	9/15/97	2	15.5	<3	<13	<13	160
IAB-04	9/15/97	4	14.1	4.89	<10	<10	<15
IAB-04	9/15/97	6	<3	<2	<9	27.4	<15
IAB-05	9/15/97	2	<5	<3	<13	17.8	<15
IAB-05	9/15/97	4	<5	<2	<12	35.3	<15
IAB-05	9/15/97	6	8.22	2.37	<9	21.8	<15
IAB-06	9/15/97	2	<6	3.81	<14	<14	<15
IAB-06	9/15/97	4	<4	<2	<10	10.9	110
IAB-06	9/15/97	6	<4	<2	<10	36.5	<15
IAB-07	9/15/97	2	<7	<3	<17	<17	<15
IAB-07	9/15/97	4	<6	<3	<15	107	<15
IAB-07	9/15/97	6	<4	<2	10	79.5	<15
IAB-08	9/15/97	2	<5	<2	<11	12	<15
IAB-08	9/15/97	4	<5	<2	<12	15.3	<15
IAB-08	9/15/97	6	13	54.9	<11	42.8	350

**Table 6-4: SVOCs Detected in Soil Borings,
Washougal Facility**

CAS Number MTCA Method B (mg/kg)		101-55-3 not listed	
Sample Location	Sample Date	Sample Depth (feet)	4-Bromophenyl phenyl ether (ug/kg)
IAB-01	9/15/97	2	< 33
IAB-01	9/15/97	4	< 33
IAB-01	9/15/97	6	< 33
IAB-02	9/15/97	2	< 33
IAB-02	9/15/97	4	< 33
IAB-02	9/15/97	6	< 33
IAB-02	9/15/97	8	< 33
IAB-03	9/15/97	2	< 33
IAB-03	9/15/97	4	< 33
IAB-03	9/15/97	6	< 33
IAB-04	9/15/97	2	< 33
IAB-04	9/15/97	4	< 33
IAB-04	9/15/97	6	< 33
IAB-05	9/15/97	2	< 33
IAB-05	9/15/97	4	< 33
IAB-05	9/15/97	6	< 33
IAB-06	9/15/97	2	< 33
IAB-06	9/15/97	4	< 33
IAB-06	9/15/97	6	< 33
IAB-07	9/15/97	2	< 33
IAB-07	9/15/97	4	< 33
IAB-07	9/15/97	6	73
IAB-08	9/15/97	2	< 33
IAB-08	9/15/97	4	< 33

PROJECT MANAGER
DOCUMENT MANAGER
CHECKED BY
DRAWN BY



SCALE IS VARIABLE



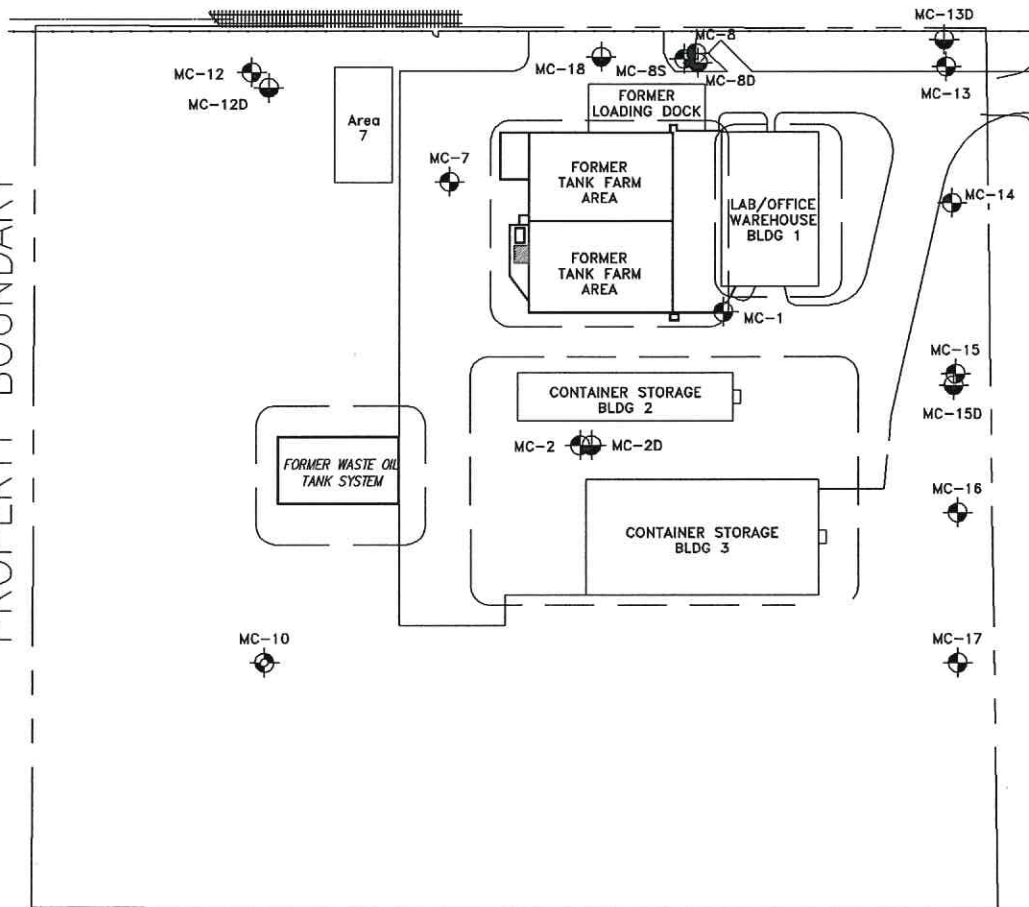
Burlington Environmental Inc.	
SITE LOCATION MAP	
WASHOUGAL-IM WASHOUGAL, WASHINGTON 624956	FIGURE 1-1

Modified from U.S. Geological Survey Washougal, Washington, quadrangle photorevised 1975.

PROPERTY BOUNDARY

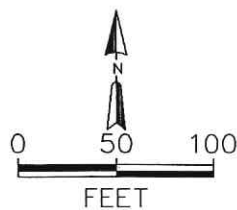
SOUTH 32nd STREET

MARSH



LEGEND

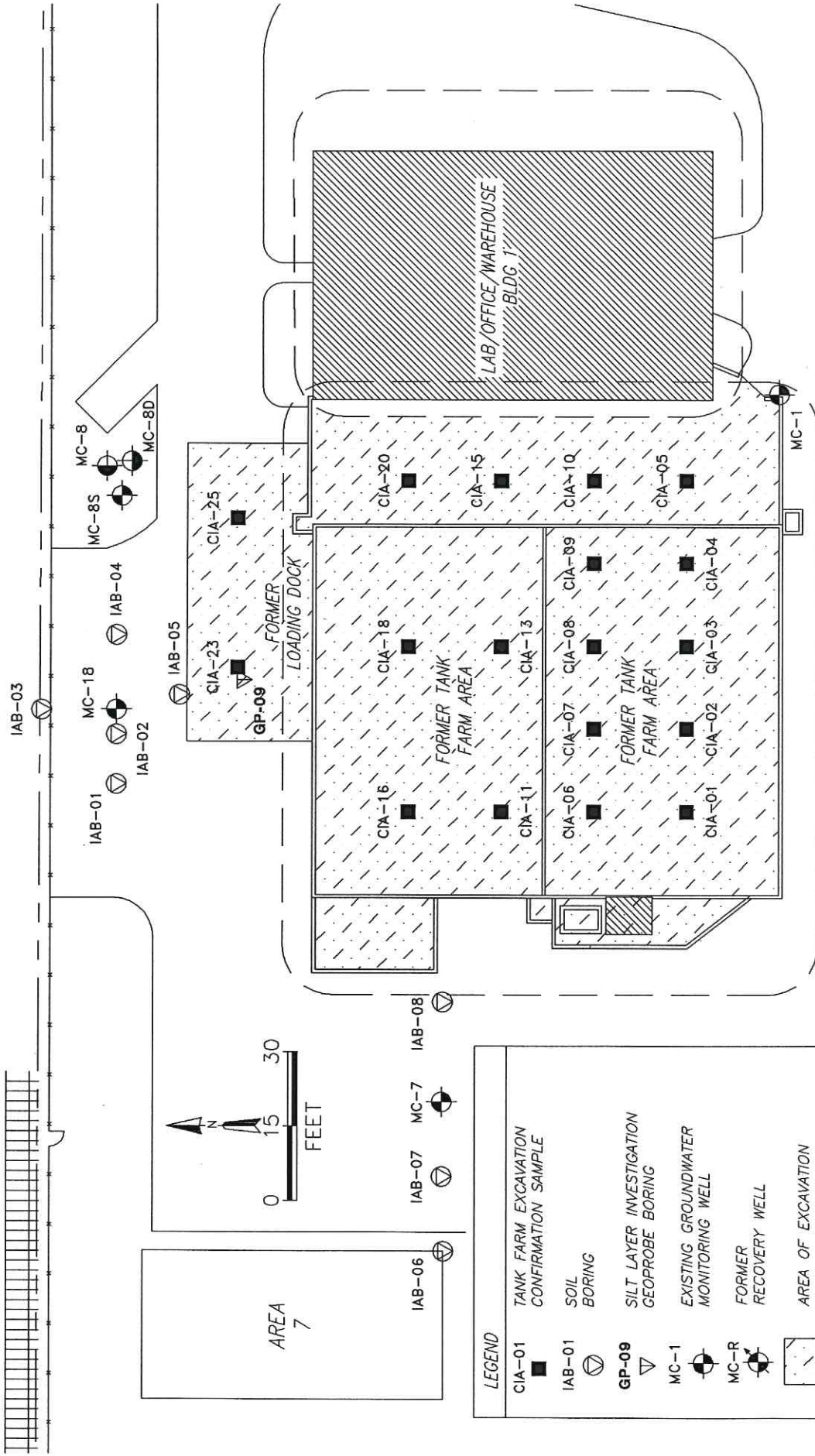
- MC-BS EXISTING SHALLOW AQUIFER GROUNDWATER MONITORING WELL
- MC-8 EXISTING INTERMEDIATE-DEPTH GROUNDWATER MONITORING WELL
- MC-8D EXISTING DEEP AQUIFER GROUNDWATER MONITORING WELL
- MC-10 ABANDONED GROUNDWATER MONITORING WELL



TITLE:
Site Map
Washougal Facility

DWN:	drp	DRAWING NO:	wcmtf05
CHKD:		APPD:	
DATE:	12/12/97	REV.:	1

PROJECT NO.:	13957
FIGURE NO.:	1-2



LEGEND

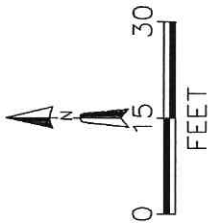
CIA-01	TANK FARM EXCAVATION CONFIRMATION SAMPLE
IAB-01	SOIL BORING
GP-09	SILT LAYER INVESTIGATION GEOPROBE BORING
MC-1	EXISTING GROUNDWATER MONITORING WELL
MC-R	FORMER RECOVERY WELL
[Symbol]	AREA OF EXCAVATION
[Symbol]	EXISTING STRUCTURE

DWN:	drp	DRAWING NO:	wcmtf04	PROJECT NO.:	13957
CHKD:		APPD:		FIGURE NO.:	5-1
DATE:	12/12/97	REV.:	2		

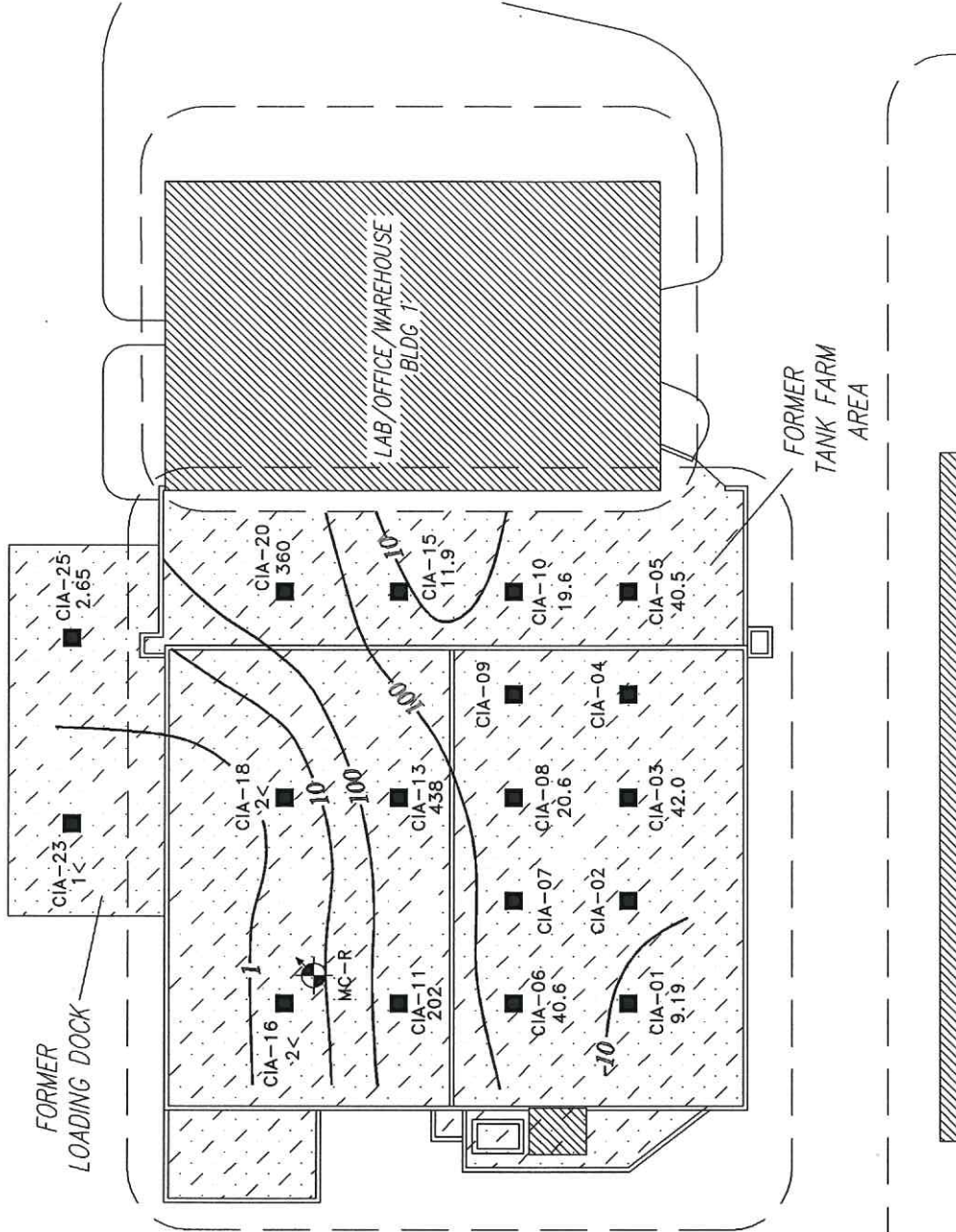
TITLE: **Soil Boring and Tank Farm Excavation Confirmation Sample Locations Washougal Facility**



AREA 7

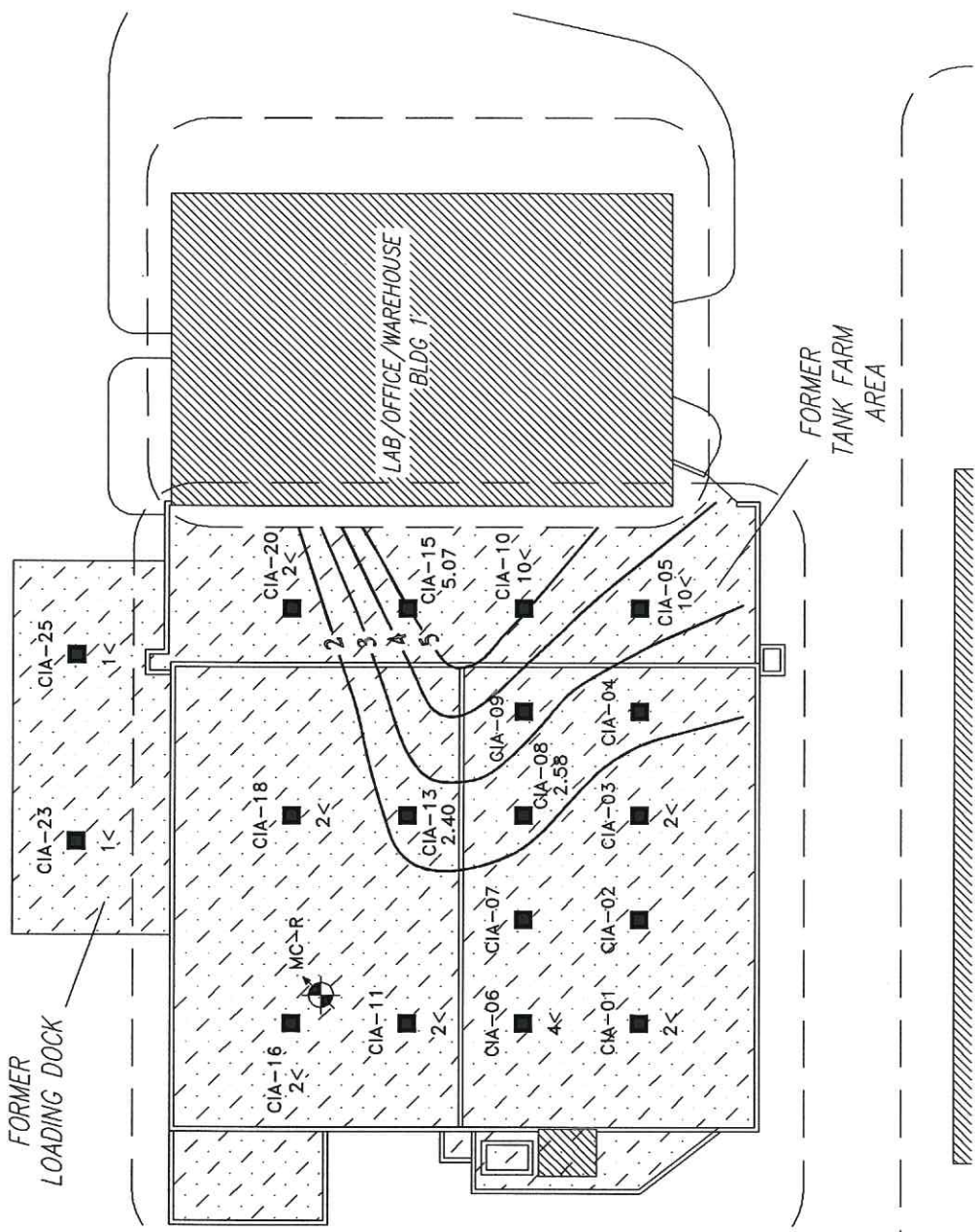
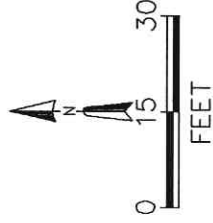


LEGEND	
CIA-01 ■ 9.19	TANK FARM EXCAVATION CONFIRMATION SAMPLE PCE (UG/KG)
MC-R ⊙	FORMER RECOVERY WELL
-10-	PCE (UG/KG) ISOCONCENTRATION LINE
	AREA OF EXCAVATION
	EXISTING STRUCTURE



	TITLE: Isoconcentration Map for PCE in Soil Tank Farm Excavation Confirmation Samples Washougal Facility		DWN: drp	DRAWING NO: wcmtf01	PROJECT NO.: 13957
	CHKD:	APPD:	DATE: 12/12/97	REV.: 2	FIGURE NO.: 6-1

AREA
7

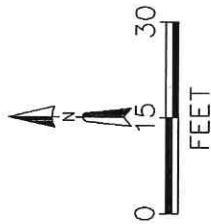


LEGEND	
CIA-15 5.07	TANK FARM EXCAVATION CONFIRMATION SAMPLE VINYL CHLORIDE (UG/KG)
MC-R	FORMER RECOVERY WELL
-5-	VINYL CHLORIDE (UG/KG) ISOCONCENTRATION LINE
	AREA OF EXCAVATION
	EXISTING STRUCTURE

DWN: drp		DRAWING NO: wcmft02	PROJECT NO: 13957
CHKD:		APPD:	FIGURE NO: 6-2
DATE: 12/12/97		REV: 1	
TITLE: Isoconcentration Map for Vinyl Chloride in Soil Tank Farm Excavation Confirmation Samples Washougal Facility			

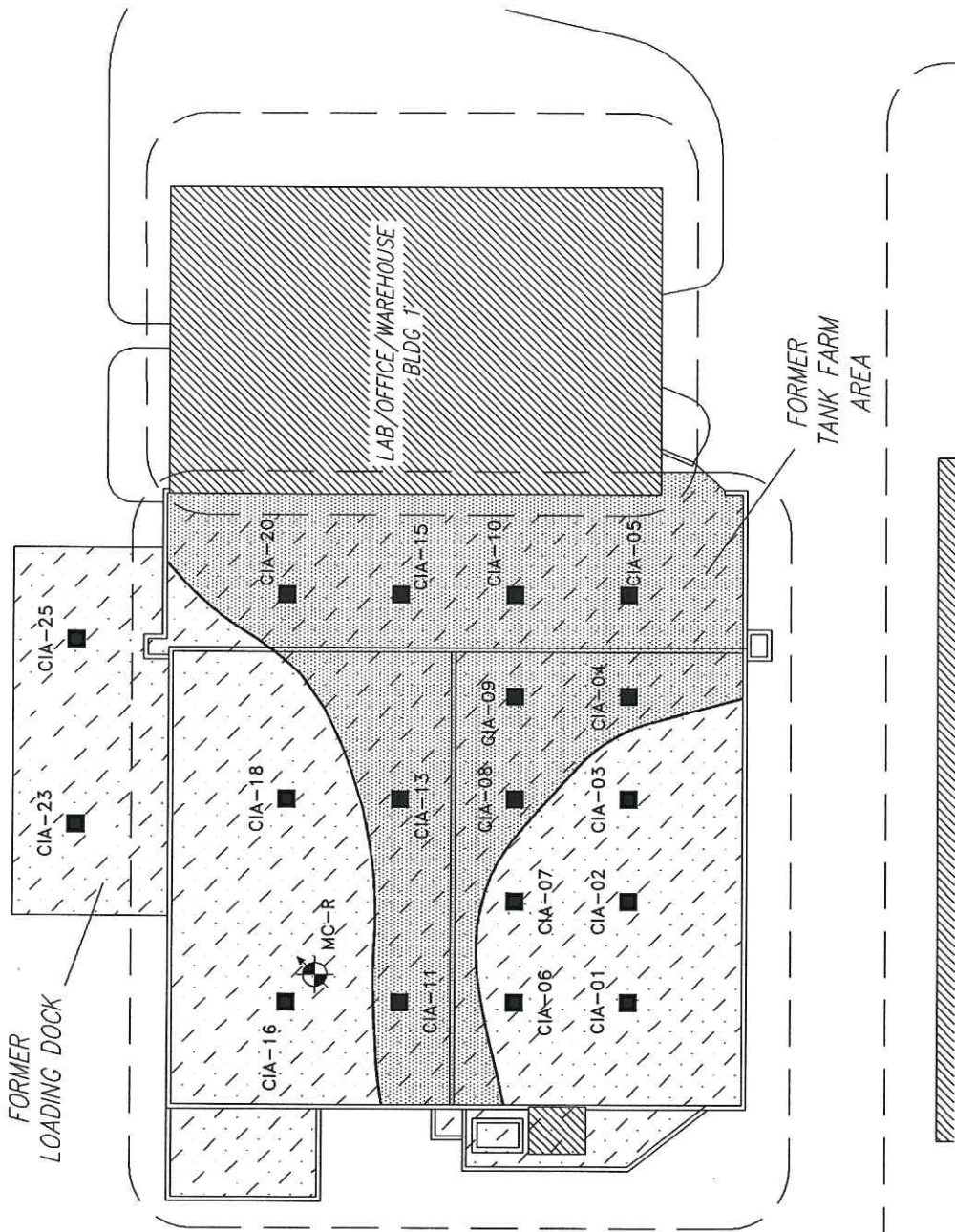


AREA 7



LEGEND

- CIA-15 ■ TANK FARM EXCAVATION CONFIRMATION SAMPLE
- MC-R FORMER RECOVERY WELL
- ESTIMATED EXTENT OF SOIL ABOVE MTCA METHOD B CLEANUP LEVELS
- AREA OF EXCAVATION
- EXISTING STRUCTURE



PHILIP ENVIRONMENTAL	TITLE: Residual Soil Above MTCA Method B Limits Tank Farm Excavation Confirmation Samples Washougal Facility		DRAWING NO.: wcmf03	PROJECT NO.: 13957
	DWN.: drp	CHKD.:	APPD.:	FIGURE NO.: 6-3
	DATE: 12/12/97	REV.: 2		

CHAIN OF CUSTODIES



Chain of Custody/ Laboratory Analysis Request

DATE 9/19/97 PAGE 1 OF 2

GENERATOR NAME PHILIP WASHOUGAL
 SALEPERSON _____
 PROJECT CORRECTIVE ACTION # _____
 CLIENT INFO CONTACT _____
 TELEPHONE # _____
 SAMPLERS NAME STUCK PHONE # _____
 SAMPLERS SIGNATURE Stuck

ANALYSIS REQUESTED										OTHER (SPECIFY)		NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?		
BASE/NEU/ACID ORGAN.	GC/MS/625/8270	VOLATILE ORGANICS	GC/MS/624/8240	PCBs	608/8080	TPH (circle method) 418.1 or 8015	BETX (circle method) 8240 or 8020	F-LISTED SOLVENTS 8240	TCLP F-LISTED SOLVENTS 1311/8240	TCLP METALS D004-11	METALS (TOTAL) As, Ba, Cd, Cr, Cu, Pb, Ni, Hg, Ag, Se, Tl, Sb, Zn	TCLP ORGANICS (specify methods) • VOAs 8240 • BNA's 8270 • Pesticides 8080 • Herbicides 8150	DISCHARGE TESTING	PROFILE	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	1	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2	

SAMPLE I.D.	DATE	TIME	LAB I.D.	TYPE
1. TIA-2-3	9/18	1500	AA277997	SOIL
2. CIA-1-4	9/19	1100	27799	
3. CIA-2-4			27799	
4. CIA-3-4			27800	
5. CIA-4-4			27801	
6. CIA-5-6			27802	
7. CIA-6-4	9/19	1300	27803	
8. CIA-7-4			27804	

SPECIAL INSTRUCTIONS/COMMENTS:
Analyze w/VA Before
SVOA EXT.

Relinquished By	Signature	Printed Name	Firm	Date/Time
Relinquished By	Signature	Printed Name	Firm	Date/Time
Relinquished By	Signature	Printed Name	Firm	Date/Time
Relinquished By	Signature	Printed Name	Firm	Date/Time
Relinquished By	Signature	Printed Name	Firm	Date/Time
Relinquished By	Signature	Printed Name	Firm	Date/Time
Relinquished By	Signature	Printed Name	Firm	Date/Time
Relinquished By	Signature	Printed Name	Firm	Date/Time
Relinquished By	Signature	Printed Name	Firm	Date/Time
Relinquished By	Signature	Printed Name	Firm	Date/Time

#977090170



Chain of Custody/ Laboratory Analysis Request

DATE 9/19/97 PAGE 2 OF 2

GENERATOR NAME Philip Washouak
 SALEPERSON _____
 PROJECT CORRECTIVE ACTION # _____
 CLIENT INFO CONTACT _____
 TELEPHONE # _____
 SAMPLERS NAME Stiller PHONE # _____
 SAMPLERS SIGNATURE [Signature]

ANALYSIS REQUESTED	OTHER (SPECIFY)																	
	BASE/NEU/ACID ORGAN.	GC/MS/625/8270	VOLATILE ORGANICS	GC/MS/624/8240	PCBS	608/8080	TPH (circle method) 418.1 or 8015	BETX (circle method) 8240 or 8020	F-LISTED SOLVENTS	8240	TCLP F-LISTED SOLVENTS 1311/8240	TCLP METALS D004-11	METALS (TOTAL) As, Ba, Cd, Cr, Cu, Pb, Ni, Hg, Ag, Se, Tl, Sb, Zn	TCLP ORGANICS (specify methods) • VOAs 8240 • BNAS 8270 • Pesticides 8080 • Herbicides 8150	DISCHARGE TESTING	PROFILE	OTHER (SPECIFY)	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

SAMPLE I.D.	DATE	TIME	LAB I.D.	TYPE
CIA-8-4	9/19	1300	11A27805	SOIL
CIA-9-4	↓	↓	1A7804	↓
CIA-10-6	↓	↓	27807	↓
4.				
5.				
6.				
7.				
8.				

SPECIAL INSTRUCTIONS/COMMENTS:
Analyze UoA Before
SUoA EXT.
#97090/70

Relinquished By	Signature	Printed Name	Firm	Date/Time	Received By	Signature	Printed Name	Firm	Date/Time
	<u>[Signature]</u>	<u>PHILIP STILLER</u>	<u>PSC</u>	<u>9/22/97 2000</u>		<u>[Signature]</u>	<u>PSC Lab</u>		<u>09.22.97 8:25</u>



Chain of Custody/ Laboratory Analysis Request

GENERATOR NAME PHILIP - WASHOAK

SALESPERSON

PROJECT COLLECTIVE ACTION # _____
CLIENT INFO
CONTACT

TELEPHONE # _____

SAMPLERS NAME STUBS PHONE # _____

SAMPLERS SIGNATURE [Signature]

SAMPLE I.D.	DATE	TIME	LAB I.D.	TYPE
1 CIA-1-6	9/24/97	1600	28197H	SOIL
2 CIA-3-6	↓	↓	28195	↓
3 CIA-6-6	↓	↓	28196	↓
4 CIA-8-6	↓	↓	28197	↓
5 CIA-11-6	9/26/97	1300	28198	SOIL
6 CIA-13-6	↓	↓	28199	↓
7 CIA-15-6	↓	↓	28200	↓
8.				

DATE 9/24/97 PAGE 1 OF 1

ANALYSIS REQUESTED										OTHER (SPECIFY)	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?	
BASENEU/ACID ORGAN.	GC/MS/625/8270	✓											
VOLATILE ORGANICS	GC/MS/624/8240	✓											2
PCB's	608/8080												2
TFH (circle method)	418.1 or 8015												2
BETX (circle method)	8240 or 8020												2
F-LISTED SOLVENTS	8240												2
TCLP F-LISTED SOLVENTS	1311/8240												2
TCLP METALS	D004-11												2
METALS (TOTAL)	As, Ba, Cd, Cr, Cu, Pb, Ni, Hg, Ag, Se, Tl, Sb, Zn												2
TCLP ORGANICS (specify methods)	VOA's 8240 BNA's 8270 Pesticides 8080 Herbicides 8150												2
DISCHARGE TESTING	PROFILE												2

SPECIAL INSTRUCTIONS/COMMENTS:

Relinquished By	Signature	Printed Name	Firm	Date/Time
Relinquished By	Signature	Printed Name	Firm	Date/Time
Relinquished By	Signature	Printed Name	Firm	Date/Time
Relinquished By	Signature	Printed Name	Firm	Date/Time

Relinquished By	Signature	Printed Name	Firm	Date/Time
Relinquished By	Signature	Printed Name	Firm	Date/Time
Relinquished By	Signature	Printed Name	Firm	Date/Time
Relinquished By	Signature	Printed Name	Firm	Date/Time

#17090218



Chain of Custody/ Laboratory Analysis Request

DATE 9/30/97 PAGE 1 OF 1

GENERATOR NAME PHILIP WASHOUGAL
 SALEPERSON _____
 PROJECT CORRECTIVE ACTION # _____
 CLIENT INFO CONTACT _____
 TELEPHONE # _____
 SAMPLERS NAME Brosten PHONE # _____
 SAMPLERS SIGNATURE Brosten

SAMPLE I.D.	DATE	TIME	LAB I.D.	TYPE
1. CIA-20-6	9/30/97	1315	AA28497	soil
2. CIA-25-6	}	1430	28498	}
3. CIA-23-6		1500	28499	
4. CIA-16-6	}	1515	28500	}
5. CIA-18-6		1530	28501	
6.				
7.				
8.				

ANALYSIS REQUESTED										OTHER (SPECIFY)		NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?	
BASE/NEU/ACID ORGAN.	GC/MS/625/8270	✓												
VOLATILE ORGANICS	GC/MS/624/8240	✓												
PCB's	608/8080													
TPH (circle method)	418.1 or 8015													
BETX (circle method)	8240 or 8020													
F-LISTED SOLVENTS	8240													
TCLP F-LISTED SOLVENTS	1311/8240													
TCLP METALS	D004-11													
METALS (TOTAL)	As, Ba, Cd, Cr, Cu, Pb, Ni, Hg, Ag, Se, Tl, Sb, Zn													
TCLP ORGANICS (specify methods)	• VOA's 8240 • Pesticides 8080 • BNA's 8270 • Herbicides 8150													
DISCHARGE TESTING	PROFILE													

SPECIAL INSTRUCTIONS/COMMENTS: _____

Relinquished By	Relinquished By
Signature	Signature
Printed Name	Printed Name
Firm	Firm
Date/Time	Date/Time
Received By	Received By
Signature	Signature
Printed Name	Printed Name
Firm	Firm
Date/Time	Date/Time

DAVID BROSTEN
Signature
Printed Name
Firm
PSC
Date/Time 10/2/97 1104
Received By
Signature
Printed Name
Firm
Date/Time 10-02-97 11:04

#97100030

Chain-of Custody Record

955 Powell Avenue, Southwest
 Renton, WA 98055
 (206) 227-0311 Phone
 (206) 227-6191 FAX
 (P.O. Box 3552, Seattle 98124)

COC Serial No. F 3216



Project Name	Phase . Task	Sample Number (and depth)	Date	Time	Matrix	Total Number of Bottles	Type of Analysis and Bottle	Comments
WASHOUCOAL		IAB05-2	9/15/97	0955	SOIL	1	X	A 27590
		IAB05-A	/		/	1	X	27591
		IAB05-U	/		/	1	X	27592
		IAB07-2	/		/	1	X	27593
		IAB07-A	/		/	1	X	27594
		IAB07-U	/		/	1	X	27595
		IAB08-2	/		/	1	X	27596
		IAB08-A	/		/	1	X	27597
		IAB08-U	/		/	1	X	27598
			/		/	1	X	27599
			/		/	1	X	27600

Relinquished by: David Broten Signature Date 9/17/97 Time 0800

Received By: Nannah Thomas Signature Date 09/17/97 Time 08:00

Samples Iced: Yes No

Preservatives (ONLY for Water Samples)

Cyanide Sodium hydroxide (NaOH)

Volatile Organic Analytels Hydrochloric acid (HCl)

Metals Nitric acid (HNO3)

TPH (418.1) Sulfuric acid (H2SO4)

Other (Specify) _____

Other (Specify) _____

Carrier: _____

Airbill No. #A 7090140



Chain-of Custody Record

955 Powell Avenue, Southwest
 Renton, WA 98055
 (P.O. Box 3552, Seattle 98124)
 (206) 227-0311 Phone
 (206) 227-6191 FAX

COC Serial No. F 3217

Project Name	Project Number	Phase / Task	Samplers	Laboratory	Name	Location	Sample Number (and depth)	Date	Time	Matrix	Total Number of Bottles	Type of Analysis and Bottle	Comments
WASHOUGA	16957		BOEVEN		Philip Corp.	RENTON, WA	IAB06-2	9/15/97	1110	SOIL	1	X	AA-27600 27600
							IAB06-4		1115	~	1	X	27600 27600
							IAB06-6		1120	~	1	X	27600 27600
							IAB03-2		1135	~	1	X	27600 27600
							IAB03-4		1140	~	1	X	27600 27600
							IAB03-6		1150	~	1	X	27600 27600

VOC SVOC PPTS

Relinquished by: Signature: *Alame Brook* Date: 9/17/97 Time: 0800

Received By: Signature: *Nannah Thomas* Date: 09-17-97 Time: 8:20

Samples Iced: Yes No

Preservatives (ONLY for Water Samples)

Cyanide Sodium hydroxide (NaOH)

Volatile Organic Analysis Hydrochloric acid (HCl)

Metals Nitric acid (HNO3)

TPH (418.1) Sulfuric acid (H2SO4)

Other (Specify) _____

Other (Specify) _____

Carrier: _____ Airbill No. #97070140



Chain of Custody/ Laboratory Analysis Request

DATE 9/19/97 PAGE 2 OF 2

GENERATOR NAME <u>PHILIP WASHOUSE</u>				SALEPERSON _____																						
PROJECT <u>CORRECTIVE ACTION</u>				CLIENT INFO _____																						
TELEPHONE # _____				PHONE # _____																						
SAMPLERS NAME <u>SITUS</u>				SAMPLERS SIGNATURE <u>[Signature]</u>																						
SAMPLE I.D.	DATE	TIME	LAB I.D.	TYPE	BASE/NEU/ACID ORGAN.	GC/MS/625/8270	VOLATILE ORGANICS	GC/MS/624/8240	PCBS	TPH (circle method) 418.1 or 8015	BETX (circle method) 8240 or 8020	F-LISTED SOLVENTS 8240	TCLP F-LISTED SOLVENTS 1311/8240	TCLP METALS D004-11	METALS (TOTAL) As, Ba, Cd, Cr, Cu, Pb, Ni, Hg, Ag, Se, Tl, Sb, Zn	TCLP ORGANICS (specify methods)	VOAs 8240	BNA's 8270	Pesticides 8080	Herbicides 8150	DISCHARGE TESTING	PROFILE	OTHER (SPECIFY)	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?	
CIA-8-4	9/19	1300		Soil	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			2		
CIA-9-4					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			2		
CIA-10-6					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			2		
4.																										
5.																										
6.																										
7.																										
8.																										

Relinquished By	Relinquished By	Relinquished By	Relinquished By
Signature <u>[Signature]</u>	Signature _____	Signature _____	Signature _____
Printed Name <u>PHILIP WASHOUSE</u>	Printed Name _____	Printed Name _____	Printed Name _____
Firm <u>PSC</u>	Firm _____	Firm _____	Firm _____
Date/Time <u>9/19/97 2000</u>	Date/Time _____	Date/Time _____	Date/Time _____
Received By	Received By	Received By	Received By
Signature _____	Signature _____	Signature _____	Signature _____
Printed Name _____	Printed Name _____	Printed Name _____	Printed Name _____
Firm _____	Firm _____	Firm _____	Firm _____
Date/Time _____	Date/Time _____	Date/Time _____	Date/Time _____

SPECIAL INSTRUCTIONS/COMMENTS:

Cancelled Soils

TANK FARM CONFIRMATION SAMPLE DATA
THREE FOOT TEST SAMPLE



Phillip Environmental Laboratory
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To: John Stiller
 955 Powell Avenue Southwest
 Renton, WA 98055

Analytical Report

Report Date: 11/05/97
 Sample Collected: 09/18/97
 Received Date: 09/22/97

Facility: Regulatory Affairs
 Job Number: 97090170

Project Name: PHILIP
 Project No:

Client ID: TIA-2-3

Lab ID: AA27797

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	ND	10	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	10	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	ND	10	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	10	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	10	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	10	ug/kg	24000000
306-83-2	1,1-DichloroTrifluoroethane	EPA 8260	ND	50	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	10	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	50	ug/kg	
67-64-1	Acetone	EPA 8260	ND	50	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	ND	10	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	ND	50	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	ND	50	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	ND	50	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	50	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	ND	10	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	24.1	10	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	10	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	237	10	ug/kg	z
107-02-8	Acrolien	EPA 8260	ND	200	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	10	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	252	10	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	ND	50	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	10	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	10	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	1660	10	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	10	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	10	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	10	ug/kg	11000
71-43-2	Benzene	EPA 8260	ND	10	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	544	20	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	ND	10	ug/kg	14700



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CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
74-95-3	Dibromomethane	EPA 8260	ND	10	ug/kg	z
75-27-4	Bromodichloromethane	EPA 8260	ND	10	ug/kg	16100
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	10	ug/kg	z
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	10	ug/kg	z
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	50	ug/kg	64000000
108-88-3	Toluene	EPA 8260	717	20	ug/kg	16000000
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	10	ug/kg	143
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	10	ug/kg	z
79-00-5	1,1,2-Trichloroethane	EPA 8260	ND	10	ug/kg	17500
142-28-9	1,3-Dichloropropane	EPA 8260	ND	10	ug/kg	z
127-18-4	Tetrachloroethene	EPA 8260	4660	10	ug/kg	19600
591-78-6	2-Hexanone	EPA 8260	ND	50	ug/kg	z
106-93-4	1,2-Dibromoethane	EPA 8260	ND	10	ug/kg	1.18
124-48-1	Dibromochloromethane	EPA 8260	ND	10	ug/kg	11900
108-90-7	Chlorobenzene	EPA 8260	ND	10	ug/kg	1600000
100-41-4	Ethylbenzene	EPA 8260	ND	10	ug/kg	8000000
106-42-3	m,p-Xylene	EPA 8260	14300	10	ug/kg	z
95-47-6	o-Xylene	EPA 8260	8270	10	ug/kg	16000000
100-42-5	Styrene	EPA 8260	ND	10	ug/kg	33300
75-25-2	Bromoform	EPA 8260	ND	10	ug/kg	127000
98-82-8	Isopropylbenzene	EPA 8260	256	10	ug/kg	z
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	30	ug/kg	5000
108-86-1	Bromobenzene	EPA 8260	ND	10	ug/kg	z
103-65-1	n-propylbenzene	EPA 8260	1220	10	ug/kg	z
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	6770	10	ug/kg	z
95-49-8	2-Chlorotoluene	EPA 8260	ND	10	ug/kg	1600000
106-43-4	4-Chlorotoluene	EPA 8260	ND	10	ug/kg	z
98-06-6	tert-Butylbenzene	EPA 8260	ND	10	ug/kg	z
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	17300	10	ug/kg	z
135-98-8	sec-Butylbenzene	EPA 8260	1060	10	ug/kg	z
541-73-1	1,3-Dichlorobenzene	EPA 8260	59.9	10	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8260	125	10	ug/kg	41700
104-51-8	n-Butylbenzene	EPA 8260	1380	10	ug/kg	z

Q



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Analytical Report

Report Date: 11/05/97
 Sample Collected: 09/18/97
 Received Date: 09/22/97

Facility: Regulatory Affairs
 Job Number: 97090170

Project Name: PHILIP
 Project No:

Client ID: TIA-2-3

Lab ID: AA27797

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
99-87-6	p-Isopropyltoluene	EPA 8260	1620	10	ug/kg	z
95-50-1	1,2-Dichlorobenzene	EPA 8260	1980	10	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	50	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	ND	10	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	10	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	12200	50	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	ND	10	ug/kg	z

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

E = The concentration of this analyte exceeds the calibration range of the instrument.

Q = Analyte concentration and/or MDL is greater than the 1996 MTCA B Limits.

z = Analyte not listed in 1996 MTCA Method B.

TANK FARM SOIL CONFIRMATION SAMPLE DATA
FOUR FOOT INTERVAL



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Analytical Report

Report Date: 11/05/97
 Sample Collected: 09/19/97
 Received Date: 09/22/97

Facility: Regulatory Affairs
 Job Number: 97090170

Project Name: PHILIP
 Project No:

Client ID: CIA-1-4

Lab ID: AA27798

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	ND	10	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	10	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	ND	10	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	10	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	10	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	10	ug/kg	24000000
306-83-2	1,1-DichloroTrifluoroethane	EPA 8260	ND	50	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	10	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	50	ug/kg	
67-64-1	Acetone	EPA 8260	188	50	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	106	10	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	114	50	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	ND	50	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	109	50	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	50	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	ND	10	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	ND	10	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	10	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	255	10	ug/kg	z
107-02-8	Acrolien	EPA 8260	ND	200	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	10	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	ND	10	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	ND	50	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	10	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	10	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	ND	10	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	10	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	10	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	10	ug/kg	11000
71-43-2	Benzene	EPA 8260	ND	10	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	54.9	20	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	ND	10	ug/kg	14700



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Analytical Report

Report Date: 11/05/97
 Sample Collected: 09/19/97
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Facility: Regulatory Affairs
 Job Number: 97090170

Project Name: PHILIP
 Project No:

Client ID: CIA-1-4

Lab ID: AA27798

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
74-95-3	Dibromomethane	EPA 8260	ND	10	ug/kg	z
75-27-4	Bromodichloromethane	EPA 8260	ND	10	ug/kg	16100
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	10	ug/kg	z
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	10	ug/kg	z
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	50	ug/kg	64000000
108-88-3	Toluene	EPA 8260	ND	20	ug/kg	16000000
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	10	ug/kg	143
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	10	ug/kg	z
79-00-5	1,1,2-Trichloroethane	EPA 8260	ND	10	ug/kg	17500
142-28-9	1,3-Dichloropropane	EPA 8260	ND	10	ug/kg	z
127-18-4	Tetrachloroethene	EPA 8260	2030	10	ug/kg	19600
591-78-6	2-Hexanone	EPA 8260	ND	50	ug/kg	z
106-93-4	1,2-Dibromoethane	EPA 8260	ND	10	ug/kg	1.18
124-48-1	Dibromochloromethane	EPA 8260	ND	10	ug/kg	11900
108-90-7	Chlorobenzene	EPA 8260	ND	10	ug/kg	1600000
100-41-4	Ethylbenzene	EPA 8260	ND	10	ug/kg	8000000
106-42-3	m,p-Xylene	EPA 8260	ND	10	ug/kg	z
95-47-6	o-Xylene	EPA 8260	ND	10	ug/kg	16000000
100-42-5	Styrene	EPA 8260	ND	10	ug/kg	33300
75-25-2	Bromoform	EPA 8260	ND	10	ug/kg	127000
98-82-8	Isopropylbenzene	EPA 8260	ND	10	ug/kg	z
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	30	ug/kg	5000
108-86-1	Bromobenzene	EPA 8260	ND	10	ug/kg	z
103-65-1	n-propylbenzene	EPA 8260	7060	10	ug/kg	z
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	8800	10	ug/kg	z
95-49-8	2-Chlorotoluene	EPA 8260	ND	10	ug/kg	1600000
106-43-4	4-Chlorotoluene	EPA 8260	ND	10	ug/kg	z
98-06-6	tert-Butylbenzene	EPA 8260	ND	10	ug/kg	z
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	23600	10	ug/kg	z
135-98-8	sec-Butylbenzene	EPA 8260	2030	10	ug/kg	z
541-73-1	1,3-Dichlorobenzene	EPA 8260	59.4	10	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8260	95.4	10	ug/kg	41700
104-51-8	n-Butylbenzene	EPA 8260	2870	10	ug/kg	z

Q



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Analytical Report

Report Date: 11/05/97
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Facility: Regulatory Affairs
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Project No:

Client ID: CIA-1-4

Lab ID: AA27798

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
99-87-6	p-Isopropyltoluene	EPA 8260	2110	10	ug/kg	z
95-50-1	1,2-Dichlorobenzene	EPA 8260	273	10	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	50	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	ND	10	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	10	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	219	50	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	ND	10	ug/kg	z

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

E = The concentration of this analyte exceeds the calibration range of the instrument.

Q = Analyte concentration and/or MDL is greater than the 1996 MTCA B Limits.

z = Analyte not listed in 1996 MTCA Method B.



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Analytical Report

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 Sample Collected: 09/19/97
 Received Date: 09/22/97

Facility: Regulatory Affairs
 Job Number: 97090170

Project Name: PHILIP
 Project No:

Client ID: CIA-2-4

Lab ID: AA27799

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	ND	10	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	10	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	ND	10	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	10	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	10	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	10	ug/kg	24000000
306-83-2	1,1-DichloroTrifluoroethane	EPA 8260	ND	50	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	10	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	50	ug/kg	
67-64-1	Acetone	EPA 8260	ND	50	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	ND	10	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	300	50	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	ND	50	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	292	50	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	50	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	ND	10	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	24.6	10	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	10	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	970	10	ug/kg	z
107-02-8	Acrolin	EPA 8260	ND	200	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	10	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	484	10	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	ND	50	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	10	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	10	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	1920	10	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	10	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	10	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	10	ug/kg	11000
71-43-2	Benzene	EPA 8260	ND	10	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	362	20	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	ND	10	ug/kg	14700



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 Job Number: 97090170

Project Name: PHILIP
 Project No:

Client ID: CIA-2-4

Lab ID: AA27799

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
74-95-3	Dibromomethane	EPA 8260	ND	10	ug/kg	z
75-27-4	Bromodichloromethane	EPA 8260	ND	10	ug/kg	16100
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	10	ug/kg	z
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	10	ug/kg	z
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	50	ug/kg	64000000
108-88-3	Toluene	EPA 8260	585	20	ug/kg	16000000
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	10	ug/kg	143
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	10	ug/kg	z
79-00-5	1,1,2-Trichloroethane	EPA 8260	ND	10	ug/kg	17500
142-28-9	1,3-Dichloropropane	EPA 8260	ND	10	ug/kg	z
127-18-4	Tetrachloroethene	EPA 8260	5770	10	ug/kg	19600
591-78-6	2-Hexanone	EPA 8260	ND	50	ug/kg	z
106-93-4	1,2-Dibromoethane	EPA 8260	ND	10	ug/kg	1.18
124-48-1	Dibromochloromethane	EPA 8260	ND	10	ug/kg	11900
108-90-7	Chlorobenzene	EPA 8260	ND	10	ug/kg	1600000
100-41-4	Ethylbenzene	EPA 8260	5530	10	ug/kg	8000000
106-42-3	m,p-Xylene	EPA 8260	14400	10	ug/kg	z
95-47-6	o-Xylene	EPA 8260	7420	10	ug/kg	16000000
100-42-5	Styrene	EPA 8260	ND	10	ug/kg	33300
75-25-2	Bromoform	EPA 8260	ND	10	ug/kg	127000
98-82-8	Isopropylbenzene	EPA 8260	667	10	ug/kg	z
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	30	ug/kg	5000
108-86-1	Bromobenzene	EPA 8260	ND	10	ug/kg	z
103-65-1	n-propylbenzene	EPA 8260	5530	10	ug/kg	z
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	6260	10	ug/kg	z
95-49-8	2-Chlorotoluene	EPA 8260	ND	10	ug/kg	1600000
106-43-4	4-Chlorotoluene	EPA 8260	ND	10	ug/kg	z
98-06-6	tert-Butylbenzene	EPA 8260	ND	10	ug/kg	z
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	17200	10	ug/kg	z
135-98-8	sec-Butylbenzene	EPA 8260	1450	10	ug/kg	z
541-73-1	1,3-Dichlorobenzene	EPA 8260	34.2	10	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8260	90.7	10	ug/kg	41700
104-51-8	n-Butylbenzene	EPA 8260	1830	10	ug/kg	z

Q



Phillip Environmental Laboratory
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To: John Stiller
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Analytical Report

Report Date: 11/05/97
Sample Collected: 09/19/97
Received Date: 09/22/97

Facility: Regulatory Affairs
Job Number: 97090170

Project Name: PHILIP
Project No:

Client ID: CIA-2-4

Lab ID: AA27799

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
99-87-6	p-Isopropyltoluene	EPA 8260	1490	10	ug/kg	z
95-50-1	1,2-Dichlorobenzene	EPA 8260	1470	10	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	50	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	ND	10	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	10	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	12700	50	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	ND	10	ug/kg	z

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

E = The concentration of this analyte exceeds the calibration range of the instrument.

Q = Analyte concentration and/or MDL is greater than the 1996 MTCA B Limits.

z = Analyte not listed in 1996 MTCA Method B.



Chain of Custody/ Laboratory Analysis Request

DATE 9/19/97 PAGE 1 OF 2

GENERATOR NAME PHILIP WASHOUGAL
 SALEPERSON _____
 PROJECT CORRECTIVE ACTION # _____
 CLIENT INFO _____
 CONTACT _____
 TELEPHONE # _____
 SAMPLERS NAME STILLER PHONE # _____
 SAMPLERS SIGNATURE Still

ANALYSIS REQUESTED	OTHER (SPECIFY)										NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?			
	GC/MS/625/8270	GC/MS/624/8240	PCBs	608/8080	TPH (circle method) 418.1 or 8015	BETX (circle method) 8240 or 8020	F-LISTED SOLVENTS 8240	TCLP F-LISTED SOLVENTS 1311/8240	TCLP METALS D004-11	METALS (TOTAL) As, Ba, Cd, Cr, Cu, Pb, Ni, Hg, Ag, Se, Tl, Sb, Zn			TCLP ORGANICS (specify methods) • VOAs 8240 • BNA's 8270 • Pesticides 8080 • Herbicides 8150	DISCHARGE TESTING	PROFILE
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	1	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2	

Cancelled analysis for soils 10/24/97

SPECIAL INSTRUCTIONS/COMMENTS:

Relinquished By	Signature	Printed Name	Firm	Date/Time	Received By	Signature	Printed Name	Firm	Date/Time
Relinquished By	Signature	Printed Name	Firm	Date/Time	Received By	Signature	Printed Name	Firm	Date/Time



Phillip Environmental Laboratory
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To: John Stiller
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Analytical Report

Report Date: 11/05/97
 Sample Collected: 09/19/97
 Received Date: 09/22/97

Facility: Regulatory Affairs
 Job Number: 97090170

Project Name: PHILIP
 Project No:

Client ID: CIA-3-4

Lab ID: AA27800

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	ND	10	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	10	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	ND	10	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	10	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	10	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	10	ug/kg	24000000
306-83-2	1,1-DichloroTrifluoroethane	EPA 8260	ND	50	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	10	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	50	ug/kg	
67-64-1	Acetone	EPA 8260	ND	50	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	ND	10	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	333	50	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	ND	50	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	265	50	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	50	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	21.5	10	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	291	10	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	10	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	930	10	ug/kg	z
107-02-8	Acrolin	EPA 8260	ND	200	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	10	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	499	10	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	ND	50	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	10	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	10	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	5280	10	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	10	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	10	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	10	ug/kg	11000
71-43-2	Benzene	EPA 8260	546	10	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	1330	20	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	ND	10	ug/kg	14700



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CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
74-95-3	Dibromomethane	EPA 8260	ND	10	ug/kg	z
75-27-4	Bromodichloromethane	EPA 8260	ND	10	ug/kg	16100
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	10	ug/kg	z
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	10	ug/kg	z
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	50	ug/kg	64000000
108-88-3	Toluene	EPA 8260	2070	20	ug/kg	16000000
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	10	ug/kg	143
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	10	ug/kg	z
79-00-5	1,1,2-Trichloroethane	EPA 8260	ND	10	ug/kg	17500
142-28-9	1,3-Dichloropropane	EPA 8260	ND	10	ug/kg	z
127-18-4	Tetrachloroethene	EPA 8260	4470	10	ug/kg	19600
591-78-6	2-Hexanone	EPA 8260	ND	50	ug/kg	z
106-93-4	1,2-Dibromoethane	EPA 8260	ND	10	ug/kg	1.18
124-48-1	Dibromochloromethane	EPA 8260	ND	10	ug/kg	11900
108-90-7	Chlorobenzene	EPA 8260	ND	10	ug/kg	1600000
100-41-4	Ethylbenzene	EPA 8260	14000	10	ug/kg	8000000
106-42-3	m,p-Xylene	EPA 8260	29800	10	ug/kg	z
95-47-6	o-Xylene	EPA 8260	14700	10	ug/kg	16000000
100-42-5	Styrene	EPA 8260	ND	10	ug/kg	33300
75-25-2	Bromoform	EPA 8260	ND	10	ug/kg	127000
98-82-8	Isopropylbenzene	EPA 8260	1500	10	ug/kg	z
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	30	ug/kg	5000
108-86-1	Bromobenzene	EPA 8260	ND	10	ug/kg	z
103-65-1	n-propylbenzene	EPA 8260	12000	10	ug/kg	z
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	11500	10	ug/kg	z
95-49-8	2-Chlorotoluene	EPA 8260	ND	10	ug/kg	1600000
106-43-4	4-Chlorotoluene	EPA 8260	ND	10	ug/kg	z
98-06-6	tert-Butylbenzene	EPA 8260	ND	10	ug/kg	z
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	30300	10	ug/kg	z
135-98-8	sec-Butylbenzene	EPA 8260	2710	10	ug/kg	z
541-73-1	1,3-Dichlorobenzene	EPA 8260	116	10	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8260	116	10	ug/kg	41700
104-51-8	n-Butylbenzene	EPA 8260	2150	10	ug/kg	z



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Analytical Report

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Facility: Regulatory Affairs
 Job Number: 97090170

Project Name: PHILIP
 Project No:

Client ID: CIA-3-4

Lab ID: AA27800

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
99-87-6	p-Isopropyltoluene	EPA 8260	2460	10	ug/kg	z
95-50-1	1,2-Dichlorobenzene	EPA 8260	2880	10	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	50	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	ND	10	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	10	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	19800	50	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	ND	10	ug/kg	z

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

E = The concentration of this analyte exceeds the calibration range of the instrument.

Q = Analyte concentration and/or MDL is greater than the 1996 MTCA B Limits.

z = Analyte not listed in 1996 MTCA Method B.



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Analytical Report

Report Date: 11/05/97
 Sample Collected: 09/19/97
 Received Date: 09/22/97

Facility: Regulatory Affairs
 Job Number: 97090170

Project Name: PHILIP
 Project No:

Client ID: CIA-4-4

Lab ID: AA27801

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	ND	10	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	10	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	ND	10	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	10	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	10	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	10	ug/kg	24000000
306-83-2	1,1-DichloroTrifluoroethane	EPA 8260	ND	50	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	10	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	50	ug/kg	
67-64-1	Acetone	EPA 8260	1830	50	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	ND	10	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	1600	50	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	ND	50	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	1220	50	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	50	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	39.1	10	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	190	10	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	10	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	2020	10	ug/kg	z
107-02-8	Acrolien	EPA 8260	ND	200	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	10	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	593	10	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	9470	50	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	10	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	10	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	6100	10	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	10	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	10	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	10	ug/kg	11000
71-43-2	Benzene	EPA 8260	ND	10	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	264	20	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	ND	10	ug/kg	14700



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Analytical Report

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Facility: Regulatory Affairs
 Job Number: 97090170

Project Name: PHILIP
 Project No:

Client ID: CIA-4-4

Lab ID: AA27801

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
74-95-3	Dibromomethane	EPA 8260	ND	10	ug/kg	z
75-27-4	Bromodichloromethane	EPA 8260	ND	10	ug/kg	16100
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	10	ug/kg	z
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	10	ug/kg	z
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	50	ug/kg	64000000
108-88-3	Toluene	EPA 8260	1960	20	ug/kg	16000000
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	10	ug/kg	143
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	10	ug/kg	z
79-00-5	1,1,2-Trichloroethane	EPA 8260	ND	10	ug/kg	17500
142-28-9	1,3-Dichloropropane	EPA 8260	ND	10	ug/kg	z
127-18-4	Tetrachloroethene	EPA 8260	1340	10	ug/kg	19600
591-78-6	2-Hexanone	EPA 8260	ND	50	ug/kg	z
106-93-4	1,2-Dibromoethane	EPA 8260	ND	10	ug/kg	1.18
124-48-1	Dibromochloromethane	EPA 8260	ND	10	ug/kg	11900
108-90-7	Chlorobenzene	EPA 8260	ND	10	ug/kg	1600000
100-41-4	Ethylbenzene	EPA 8260	7470	10	ug/kg	8000000
106-42-3	m,p-Xylene	EPA 8260	16300	10	ug/kg	z
95-47-6	o-Xylene	EPA 8260	7970	10	ug/kg	16000000
100-42-5	Styrene	EPA 8260	ND	10	ug/kg	33300
75-25-2	Bromoform	EPA 8260	ND	10	ug/kg	127000
98-82-8	Isopropylbenzene	EPA 8260	1350	10	ug/kg	z
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	30	ug/kg	5000
108-86-1	Bromobenzene	EPA 8260	ND	10	ug/kg	z
103-65-1	n-propylbenzene	EPA 8260	10800	10	ug/kg	z
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	9180	10	ug/kg	z
95-49-8	2-Chlorotoluene	EPA 8260	ND	10	ug/kg	1600000
106-43-4	4-Chlorotoluene	EPA 8260	ND	10	ug/kg	z
98-06-6	tert-Butylbenzene	EPA 8260	ND	10	ug/kg	z
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	23500	10	ug/kg	z
135-98-8	sec-Butylbenzene	EPA 8260	2400	10	ug/kg	z
541-73-1	1,3-Dichlorobenzene	EPA 8260	160	10	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8260	208	10	ug/kg	41700
104-51-8	n-Butylbenzene	EPA 8260	1990	10	ug/kg	z



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Facility: Regulatory Affairs
Job Number: 97090170

Project Name: PHILIP
Project No:

Client ID: CIA-4-4

Lab ID: AA27801

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
99-87-6	p-Isopropyltoluene	EPA 8260	2100	10	ug/kg	z
95-50-1	1,2-Dichlorobenzene	EPA 8260	919	10	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	50	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	10.2	10	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	10	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	14100	50	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	ND	10	ug/kg	z

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

E = The concentration of this analyte exceeds the calibration range of the instrument.

Q = Analyte concentration and/or MDL is greater than the 1996 MTCA B Limits.

z = Analyte not listed in 1996 MTCA Method B.



Phillip Environmental Laboratory
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Analytical Report

Report Date: 11/05/97
 Sample Collected: 09/19/97
 Received Date: 09/22/97

Facility: Regulatory Affairs
 Job Number: 97090170

Project Name: PHILIP
 Project No:

Client ID: CIA-6-4

Lab ID: AA27803

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	ND	10	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	10	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	ND	10	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	10	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	10	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	10	ug/kg	24000000
306-83-2	1,1-DichloroTrifluoroethane	EPA 8260	ND	50	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	10	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	50	ug/kg	
67-64-1	Acetone	EPA 8260	1570	50	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	ND	10	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	351	50	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	ND	50	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	361	50	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	50	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	ND	10	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	ND	10	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	10	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	1120	10	ug/kg	z
107-02-8	Acrolin	EPA 8260	ND	200	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	10	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	125	10	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	ND	50	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	10	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	10	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	643	10	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	10	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	10	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	10	ug/kg	11000
71-43-2	Benzene	EPA 8260	ND	10	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	184	20	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	ND	10	ug/kg	14700



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Lab ID: AA27803

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
74-95-3	Dibromomethane	EPA 8260	ND	10	ug/kg	z
75-27-4	Bromodichloromethane	EPA 8260	ND	10	ug/kg	16100
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	10	ug/kg	z
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	10	ug/kg	z
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	50	ug/kg	64000000
108-88-3	Toluene	EPA 8260	161	20	ug/kg	16000000
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	10	ug/kg	143
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	10	ug/kg	z
79-00-5	1,1,2-Trichloroethane	EPA 8260	ND	10	ug/kg	17500
142-28-9	1,3-Dichloropropane	EPA 8260	ND	10	ug/kg	z
127-18-4	Tetrachloroethene	EPA 8260	5960	10	ug/kg	19600
591-78-6	2-Hexanone	EPA 8260	ND	50	ug/kg	z
106-93-4	1,2-Dibromoethane	EPA 8260	ND	10	ug/kg	1.18
124-48-1	Dibromochloromethane	EPA 8260	ND	10	ug/kg	11900
108-90-7	Chlorobenzene	EPA 8260	ND	10	ug/kg	1600000
100-41-4	Ethylbenzene	EPA 8260	4140	10	ug/kg	8000000
106-42-3	m,p-Xylene	EPA 8260	11400	10	ug/kg	z
95-47-6	o-Xylene	EPA 8260	5320	10	ug/kg	16000000
100-42-5	Styrene	EPA 8260	ND	10	ug/kg	33300
75-25-2	Bromoform	EPA 8260	ND	10	ug/kg	127000
98-82-8	Isopropylbenzene	EPA 8260	797	10	ug/kg	z
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	30	ug/kg	5000
108-86-1	Bromobenzene	EPA 8260	ND	10	ug/kg	z
103-65-1	n-propylbenzene	EPA 8260	5970	10	ug/kg	z
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	6280	10	ug/kg	z
95-49-8	2-Chlorotoluene	EPA 8260	ND	10	ug/kg	1600000
106-43-4	4-Chlorotoluene	EPA 8260	71.4	10	ug/kg	z
98-06-6	tert-Butylbenzene	EPA 8260	ND	10	ug/kg	z
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	16600	10	ug/kg	z
135-98-8	sec-Butylbenzene	EPA 8260	1370	10	ug/kg	z
541-73-1	1,3-Dichlorobenzene	EPA 8260	49.5	10	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8260	94.1	10	ug/kg	41700
104-51-8	n-Butylbenzene	EPA 8260	1380	10	ug/kg	z



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<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
99-87-6	p-Isopropyltoluene	EPA 8260	1380	10	ug/kg	z
95-50-1	1,2-Dichlorobenzene	EPA 8260	1050	10	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	50	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	ND	10	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	10	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	9780	50	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	ND	10	ug/kg	z

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

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Q = Analyte concentration and/or MDL is greater than the 1996 MTCA B Limits.

z = Analyte not listed in 1996 MTCA Method B.



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Facility: Regulatory Affairs
 Job Number: 97090170

Project Name: PHILIP
 Project No:

Client ID: CIA-7-4

Lab ID: AA27804

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	ND	10	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	10	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	ND	10	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	10	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	10	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	10	ug/kg	24000000
306-83-2	1,1-DichloroTrifluoroethane	EPA 8260	ND	50	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	10	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	50	ug/kg	
67-64-1	Acetone	EPA 8260	159	50	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	ND	10	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	73.5	50	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	ND	50	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	69.6	50	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	50	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	ND	10	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	ND	10	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	10	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	308	10	ug/kg	z
107-02-8	Acrolin	EPA 8260	ND	200	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	10	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	17.4	10	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	ND	50	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	10	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	10	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	369	10	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	10	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	10	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	10	ug/kg	11000
71-43-2	Benzene	EPA 8260	ND	10	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	64.3	20	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	ND	10	ug/kg	14700



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Lab ID: AA27804

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
74-95-3	Dibromomethane	EPA 8260	ND	10	ug/kg	z
75-27-4	Bromodichloromethane	EPA 8260	ND	10	ug/kg	16100
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	10	ug/kg	z
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	10	ug/kg	z
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	50	ug/kg	64000000
108-88-3	Toluene	EPA 8260	474	20	ug/kg	16000000
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	10	ug/kg	143
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	10	ug/kg	z
79-00-5	1,1,2-Trichloroethane	EPA 8260	ND	10	ug/kg	17500
142-28-9	1,3-Dichloropropane	EPA 8260	ND	10	ug/kg	z
127-18-4	Tetrachloroethene	EPA 8260	4280	10	ug/kg	19600
591-78-6	2-Hexanone	EPA 8260	ND	50	ug/kg	z
106-93-4	1,2-Dibromoethane	EPA 8260	ND	10	ug/kg	1.18
124-48-1	Dibromochloromethane	EPA 8260	ND	10	ug/kg	11900
108-90-7	Chlorobenzene	EPA 8260	ND	10	ug/kg	1600000
100-41-4	Ethylbenzene	EPA 8260	2480	10	ug/kg	8000000
106-42-3	m,p-Xylene	EPA 8260	6680	10	ug/kg	z
95-47-6	o-Xylene	EPA 8260	3150	10	ug/kg	16000000
100-42-5	Styrene	EPA 8260	ND	10	ug/kg	33300
75-25-2	Bromoform	EPA 8260	ND	10	ug/kg	127000
98-82-8	Isopropylbenzene	EPA 8260	433	10	ug/kg	z
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	30	ug/kg	5000
108-86-1	Bromobenzene	EPA 8260	ND	10	ug/kg	z
103-65-1	n-propylbenzene	EPA 8260	2750	10	ug/kg	z
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	3290	10	ug/kg	z
95-49-8	2-Chlorotoluene	EPA 8260	ND	10	ug/kg	1600000
106-43-4	4-Chlorotoluene	EPA 8260	ND	10	ug/kg	z
98-06-6	tert-Butylbenzene	EPA 8260	ND	10	ug/kg	z
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	8200	10	ug/kg	z
135-98-8	sec-Butylbenzene	EPA 8260	647	10	ug/kg	z
541-73-1	1,3-Dichlorobenzene	EPA 8260	23.8	10	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8260	40.5	10	ug/kg	41700
104-51-8	n-Butylbenzene	EPA 8260	832	10	ug/kg	z



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<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
99-87-6	p-Isopropyltoluene	EPA 8260	697	10	ug/kg	z
95-50-1	1,2-Dichlorobenzene	EPA 8260	476	10	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	50	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	ND	10	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	10	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	3190	50	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	ND	10	ug/kg	z

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

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Facility: Regulatory Affairs
 Job Number: 97090170

Project Name: PHILIP
 Project No:

Client ID: CIA-8-4

Lab ID: AA27805

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	ND	10	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	10	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	ND	10	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	10	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	10	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	10	ug/kg	24000000
306-83-2	1,1-DichloroTrifluoroethane	EPA 8260	ND	50	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	10	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	50	ug/kg	
67-64-1	Acetone	EPA 8260	ND	50	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	ND	10	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	278	50	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	ND	50	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	142	50	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	50	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	16.0	10	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	33.3	10	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	10	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	736	10	ug/kg	z
107-02-8	Acrolien	EPA 8260	ND	200	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	10	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	506	10	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	ND	50	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	10	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	10	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	1610	10	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	10	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	10	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	10	ug/kg	11000
71-43-2	Benzene	EPA 8260	ND	10	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	139	20	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	ND	10	ug/kg	14700



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CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits	
74-95-3	Dibromomethane	EPA 8260	ND	10	ug/kg	z	
75-27-4	Bromodichloromethane	EPA 8260	ND	10	ug/kg	16100	
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	10	ug/kg	z	
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	10	ug/kg	z	
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	50	ug/kg	64000000	
108-88-3	Toluene	EPA 8260	1010	20	ug/kg	16000000	
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	10	ug/kg	143	
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	10	ug/kg	z	
79-00-5	1,1,2-Trichloroethane	EPA 8260	ND	10	ug/kg	17500	
142-28-9	1,3-Dichloropropane	EPA 8260	ND	10	ug/kg	z	
127-18-4	Tetrachloroethene	EPA 8260	3170	10	ug/kg	19600	
591-78-6	2-Hexanone	EPA 8260	ND	50	ug/kg	z	
106-93-4	1,2-Dibromoethane	EPA 8260	ND	10	ug/kg	1.18	Q
124-48-1	Dibromochloromethane	EPA 8260	ND	10	ug/kg	11900	
108-90-7	Chlorobenzene	EPA 8260	ND	10	ug/kg	1600000	
100-41-4	Ethylbenzene	EPA 8260	4420	10	ug/kg	8000000	
106-42-3	m,p-Xylene	EPA 8260	11100	10	ug/kg	z	
95-47-6	o-Xylene	EPA 8260	1040	10	ug/kg	16000000	
100-42-5	Styrene	EPA 8260	ND	10	ug/kg	33300	
75-25-2	Bromoform	EPA 8260	ND	10	ug/kg	127000	
98-82-8	Isopropylbenzene	EPA 8260	594	10	ug/kg	z	
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	30	ug/kg	5000	
108-86-1	Bromobenzene	EPA 8260	ND	10	ug/kg	z	
103-65-1	n-propylbenzene	EPA 8260	2240	10	ug/kg	z	
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	2390	10	ug/kg	z	
95-49-8	2-Chlorotoluene	EPA 8260	ND	10	ug/kg	1600000	
106-43-4	4-Chlorotoluene	EPA 8260	ND	10	ug/kg	z	
98-06-6	tert-Butylbenzene	EPA 8260	ND	10	ug/kg	z	
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	14800	10	ug/kg	z	
135-98-8	sec-Butylbenzene	EPA 8260	979	10	ug/kg	z	
541-73-1	1,3-Dichlorobenzene	EPA 8260	42.0	10	ug/kg	z	
106-46-7	1,4-Dichlorobenzene	EPA 8260	92.4	10	ug/kg	41700	
104-51-8	n-Butylbenzene	EPA 8260	1170	10	ug/kg	z	



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Analytical Report

Report Date: 11/05/97
Sample Collected: 09/19/97
Received Date: 09/22/97

Facility: Regulatory Affairs
Job Number: 97090170

Project Name: PHILIP
Project No:

Client ID: CIA-8-4

Lab ID: AA27805

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
99-87-6	p-Isopropyltoluene	EPA 8260	770	10	ug/kg	z
95-50-1	1,2-Dichlorobenzene	EPA 8260	810	10	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	50	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	ND	10	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	10	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	7710	50	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	ND	10	ug/kg	z

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

E = The concentration of this analyte exceeds the calibration range of the instrument.

Q = Analyte concentration and/or MDL is greater than the 1996 MTCA B Limits.

z = Analyte not listed in 1996 MTCA Method B.



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Analytical Report

Report Date: 11/05/97
 Sample Collected: 09/19/97
 Received Date: 09/22/97

Facility: Regulatory Affairs
 Job Number: 97090170

Project Name: PHILIP
 Project No:

Client ID: CIA-9-4

Lab ID: AA27806

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	ND	10	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	10	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	ND	10	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	10	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	10	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	10	ug/kg	24000000
306-83-2	1,1-DichloroTrifluoroethane	EPA 8260	ND	50	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	10	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	50	ug/kg	
67-64-1	Acetone	EPA 8260	ND	50	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	ND	10	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	ND	50	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	ND	50	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	ND	50	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	50	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	ND	10	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	34.8	10	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	10	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	ND	10	ug/kg	z
107-02-8	Acrolien	EPA 8260	ND	200	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	10	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	62.3	10	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	ND	50	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	10	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	10	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	46.0	10	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	10	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	10	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	10	ug/kg	11000
71-43-2	Benzene	EPA 8260	ND	10	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	ND	20	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	ND	10	ug/kg	14700

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Analytical Report

Report Date: 11/05/97
 Sample Collected: 09/19/97
 Received Date: 09/22/97

Facility: Regulatory Affairs
 Job Number: 97090170

Project Name: PHILIP
 Project No:

Client ID: CIA-9-4

Lab ID: AA27806

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
74-95-3	Dibromomethane	EPA 8260	ND	10	ug/kg	z
75-27-4	Bromodichloromethane	EPA 8260	ND	10	ug/kg	16100
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	10	ug/kg	z
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	10	ug/kg	z
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	50	ug/kg	64000000
108-88-3	Toluene	EPA 8260	ND	20	ug/kg	16000000
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	10	ug/kg	143
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	10	ug/kg	z
79-00-5	1,1,2-Trichloroethane	EPA 8260	ND	10	ug/kg	17500
142-28-9	1,3-Dichloropropane	EPA 8260	ND	10	ug/kg	z
127-18-4	Tetrachloroethene	EPA 8260	ND	10	ug/kg	19600
591-78-6	2-Hexanone	EPA 8260	ND	50	ug/kg	z
106-93-4	1,2-Dibromoethane	EPA 8260	ND	10	ug/kg	1.18
124-48-1	Dibromochloromethane	EPA 8260	ND	10	ug/kg	11900
108-90-7	Chlorobenzene	EPA 8260	ND	10	ug/kg	1600000
100-41-4	Ethylbenzene	EPA 8260	90.8	10	ug/kg	8000000
106-42-3	m,p-Xylene	EPA 8260	403	10	ug/kg	z
95-47-6	o-Xylene	EPA 8260	48.7	10	ug/kg	16000000
100-42-5	Styrene	EPA 8260	ND	10	ug/kg	33300
75-25-2	Bromoform	EPA 8260	ND	10	ug/kg	127000
98-82-8	Isopropylbenzene	EPA 8260	19.1	10	ug/kg	z
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	30	ug/kg	5000
108-86-1	Bromobenzene	EPA 8260	ND	10	ug/kg	z
103-65-1	n-propylbenzene	EPA 8260	44.2	10	ug/kg	z
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	102	10	ug/kg	z
95-49-8	2-Chlorotoluene	EPA 8260	ND	10	ug/kg	1600000
106-43-4	4-Chlorotoluene	EPA 8260	ND	10	ug/kg	z
98-06-6	tert-Butylbenzene	EPA 8260	ND	10	ug/kg	z
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	483	10	ug/kg	z
135-98-8	sec-Butylbenzene	EPA 8260	14.2	10	ug/kg	z
541-73-1	1,3-Dichlorobenzene	EPA 8260	ND	10	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8260	ND	10	ug/kg	41700
104-51-8	n-Butylbenzene	EPA 8260	35.1	10	ug/kg	z



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Analytical Report

Report Date: 11/05/97
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Received Date: 09/22/97

Facility: Regulatory Affairs
Job Number: 97090170

Project Name: PHILIP
Project No:

Client ID: CIA-9-4

Lab ID: AA27806

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
99-87-6	p-Isopropyltoluene	EPA 8260	15.5	10	ug/kg	z
95-50-1	1,2-Dichlorobenzene	EPA 8260	36.7	10	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	50	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	ND	10	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	10	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	144	50	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	ND	10	ug/kg	z

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

E = The concentration of this analyte exceeds the calibration range of the instrument.

Q = Analyte concentration and/or MDL is greater than the 1996 MTCA B Limits.

z = Analyte not listed in 1996 MTCA Method B.

TANK FARM CONFIRMATION SAMPLE DATA
SIX FOOT INTERVAL

PHILIP

ENVIRONMENTAL

BY-PRODUCT RECOVERY GROUP
WESTERN REGION

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Analytical Report

Report Date: 10/16/97
Sample Collected: 09/24/97
Received Date: 09/26/97

Facility: Regulatory Affairs
Job Number: 97090218

Project Name: CORRECTIVE
Project No: WASHOUGAL

Client ID: CIA-1-6

Lab ID: AA28194

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	ND	2	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	2	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	ND	2	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	2	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	2	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	2	ug/kg	24000000
306-83-2	1,1-DichloroTrifluoroethane	EPA 8260	ND	9	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	2	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	9	ug/kg	
67-64-1	Acetone	EPA 8260	39.8	9	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	ND	2	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	ND	9	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	ND	9	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	ND	9	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	9	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	ND	2	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	ND	2	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	2	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	ND	2	ug/kg	z
107-02-8	Acrolin	EPA 8260	ND	35	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	2	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	3.03	2	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	ND	9	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	2	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	2	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	5.52	2	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	2	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	2	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	2	ug/kg	11000
71-43-2	Benzene	EPA 8260	ND	2	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	ND	3	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	ND	2	ug/kg	14700

PHILIP

ENVIRONMENTAL

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Client ID: CIA-1-6

Lab ID: AA28194

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
74-95-3	Dibromomethane	EPA 8260	ND	2	ug/kg	z
75-27-4	Bromodichloromethane	EPA 8260	ND	2	ug/kg	16100
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	2	ug/kg	z
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	2	ug/kg	z
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	9	ug/kg	64000000
108-88-3	Toluene	EPA 8260	ND	3	ug/kg	16000000
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	2	ug/kg	143
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	2	ug/kg	z
79-00-5	1,1,2-Trichloroethane	EPA 8260	ND	2	ug/kg	17500
142-28-9	1,3-Dichloropropane	EPA 8260	ND	2	ug/kg	z
127-18-4	Tetrachloroethene	EPA 8260	9.19	2	ug/kg	19600
591-78-6	2-Hexanone	EPA 8260	ND	9	ug/kg	z
106-93-4	1,2-Dibromoethane	EPA 8260	ND	2	ug/kg	1.18
124-48-1	Dibromochloromethane	EPA 8260	ND	2	ug/kg	11900
108-90-7	Chlorobenzene	EPA 8260	ND	2	ug/kg	1600000
100-41-4	Ethylbenzene	EPA 8260	ND	2	ug/kg	8000000
106-42-3	m,p-Xylene	EPA 8260	2.24	2	ug/kg	z
95-47-6	o-Xylene	EPA 8260	2.74	2	ug/kg	16000000
100-42-5	Styrene	EPA 8260	ND	2	ug/kg	33300
75-25-2	Bromoform	EPA 8260	ND	2	ug/kg	127000
98-82-8	Isopropylbenzene	EPA 8260	ND	2	ug/kg	z
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	5	ug/kg	5000
108-86-1	Bromobenzene	EPA 8260	ND	2	ug/kg	z
103-65-1	n-propylbenzene	EPA 8260	ND	2	ug/kg	z
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	2.19	2	ug/kg	z
95-49-8	2-Chlorotoluene	EPA 8260	ND	2	ug/kg	1600000
106-43-4	4-Chlorotoluene	EPA 8260	ND	2	ug/kg	z
98-06-6	tert-Butylbenzene	EPA 8260	ND	2	ug/kg	z
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	ND	2	ug/kg	z
135-98-8	sec-Butylbenzene	EPA 8260	ND	2	ug/kg	z
541-73-1	1,3-Dichlorobenzene	EPA 8260	ND	2	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8260	ND	2	ug/kg	41700
104-51-8	n-Butylbenzene	EPA 8260	ND	2	ug/kg	z
99-87-6	p-Isopropyltoluene	EPA 8260	ND	2	ug/kg	z

Q

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Facility: Regulatory Affairs
Job Number: 97090218

Project Name: CORRECTIVE
Project No: WASHOUGAL

Client ID: CIA-1-6

Lab ID: AA28194

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
95-50-1	1,2-Dichlorobenzene	EPA 8260	ND	2	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	9	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	ND	2	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	2	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	ND	9	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	ND	2	ug/kg	z
EPA 8260/624 Volatile						
	1,2-Dichloroethane-D4	EPA 8260	102		%	
	Toluene-D8	EPA 8260	89.9		%	
	4-Bromofluorobenzene	EPA 8260	104		%	
EPA 8270 Solid						
62-53-3	Aniline	EPA 8270	ND	1700	ug/kg	175000
111-44-4	bis(2-Chloroethyl)ether	EPA 8270	ND	330	ug/kg	909
108-95-2	Phenol	EPA 8270	ND	330	ug/kg	48000000
95-57-8	2-Chlorophenol	EPA 8270	ND	330	ug/kg	400000
541-73-1	1,3-Dichlorobenzene	EPA 8270	ND	330	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8270	ND	330	ug/kg	41700
95-50-1	1,2-Dichlorobenzene	EPA 8270	ND	330	ug/kg	7200000
100-51-6	Benzyl alcohol	EPA 8270	ND	670	ug/kg	24000000
39638-32-9	bis(2-chloroisopropyl)ether	EPA 8270	ND	330	ug/kg	3200000
95-48-7	2-Methylphenol	EPA 8270	ND	330	ug/kg	4000000
98-86-2	Acetophenone	EPA 8270	ND	1700	ug/kg	8000000
67-72-1	Hexachloroethane	EPA 8270	ND	330	ug/kg	71400
621-64-7	N-Nitroso-di-n-propylamine	EPA 8270	ND	330	ug/kg	143
106-44-5	4-Methylphenol	EPA 8270	ND	330	ug/kg	400000
98-95-3	Nitrobenzene	EPA 8270	ND	330	ug/kg	40000
78-59-1	Isophorone	EPA 8270	ND	330	ug/kg	1050000
88-75-5	2-Nitrophenol	EPA 8270	ND	330	ug/kg	z
105-67-9	2,4-Dimethylphenol	EPA 8270	ND	330	ug/kg	1600000
111-91-1	bis(2-Chloroethoxy)methane	EPA 8270	ND	330	ug/kg	z
120-83-2	2,4-Dichlorophenol	EPA 8270	ND	330	ug/kg	240000
120-82-1	1,2,4-Trichlorobenzene	EPA 8270	ND	330	ug/kg	800000
91-20-3	Naphthalene	EPA 8270	ND	330	ug/kg	3200000

Q

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Analytical Report

Report Date: 10/16/97
Sample Collected: 09/24/97
Received Date: 09/26/97

Facility: Regulatory Affairs
Job Number: 97090218

Project Name: CORRECTIVE
Project No: WASHOUGAL

Client ID: CIA-1-6**Lab ID: AA28194**

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
106-47-8	4-Chloroaniline	EPA 8270	ND	670	ug/kg	320000
87-68-3	Hexachlorobutadiene	EPA 8270	ND	330	ug/kg	12800
65-85-0	Benzoic Acid	EPA 8270	ND	1700	ug/kg	32000000
59-50-7	4-Chloro-3-methylphenol	EPA 8270	ND	670	ug/kg	z
91-57-6	2-Methylnaphthalene	EPA 8270	ND	330	ug/kg	z
77-47-4	Hexachlorocyclopentadiene	EPA 8270	ND	330	ug/kg	560000
88-06-2	2,4,6-Trichlorophenol	EPA 8270	ND	330	ug/kg	90900
95-95-4	2,4,5-Trichlorophenol	EPA 8270	ND	330	ug/kg	8000000
91-58-7	2-Chloronaphthalene	EPA 8270	ND	330	ug/kg	6400
88-74-4	2-Nitroaniline	EPA 8270	ND	670	ug/kg	z
208-96-8	Acenaphthylene	EPA 8270	ND	330	ug/kg	z
131-11-3	Dimethylphthalate	EPA 8270	ND	330	ug/kg	80000000
606-20-2	2,6-Dinitrotoluene	EPA 8270	ND	330	ug/kg	80000
83-32-9	Acenaphthene	EPA 8270	ND	330	ug/kg	4800000
99-09-2	3-Nitroaniline	EPA 8270	ND	1700	ug/kg	z
51-28-5	2,4-Dinitrophenol	EPA 8270	ND	1700	ug/kg	160000
132-64-9	Dibenzofuran	EPA 8270	ND	1700	ug/kg	z
121-14-2	2,4-Dinitrotoluene	EPA 8270	ND	330	ug/kg	160000
100-02-7	4-Nitrophenol	EPA 8270	ND	330	ug/kg	z
86-73-7	Fluorene	EPA 8270	ND	330	ug/kg	3200000
7005-72-3	4-Chlorophenyl-phenylether	EPA 8270	ND	330	ug/kg	z
84-66-2	Diethylphthalate	EPA 8270	ND	330	ug/kg	64000000
100-01-6	4-Nitroaniline	EPA 8270	ND	1700	ug/kg	z
534-52-1	4,6-Dinitro-2-methylphenol	EPA 8270	ND	1700	ug/kg	z
86-30-6	n-Nitrosodiphenylamine	EPA 8270	ND	330	ug/kg	204000
103-33-3	Azobenzene	EPA 8270	ND	330	ug/kg	z
101-55-3	4-Bromophenyl-phenylether	EPA 8270	ND	330	ug/kg	z
118-74-1	Hexachlorobenzene	EPA 8270	ND	330	ug/kg	625
87-86-5	Pentachlorophenol	EPA 8270	ND	1700	ug/kg	8330
85-01-8	Phenanthrene	EPA 8270	ND	330	ug/kg	z
120-12-7	Anthracene	EPA 8270	ND	330	ug/kg	24000000
84-74-2	Di-n-butylphthalate	EPA 8270	ND	330	ug/kg	8000000
206-44-0	Fluoranthene	EPA 8270	ND	330	ug/kg	3200000
92-87-5	Benzidine	EPA 8270	ND	330	ug/kg	4.35

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Renton, WA 98055

Analytical Report

Report Date: 10/16/97
Sample Collected: 09/24/97
Received Date: 09/26/97

Facility: Regulatory Affairs
Job Number: 97090218

Project Name: CORRECTIVE
Project No: WASHOUGAL

Client ID: CIA-1-6

Lab ID: AA28194

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>	
129-00-0	Pyrene	EPA 8270	ND	330	ug/kg	2400000	
85-68-7	Butylbenzylphthalate	EPA 8270	ND	330	ug/kg	16000000	
91-94-1	3,3'-Dichlorobenzidine	EPA 8270	ND	330	ug/kg	2220	
56-55-3	Benzo[a]anthracene	EPA 8270	ND	670	ug/kg	137	Q
218-01-9	Chrysene	EPA 8270	ND	330	ug/kg	137	Q
117-81-7	bis(2-Ethylhexyl)phthalate	EPA 8270	ND	1700	ug/kg	71400	
117-84-0	Di-n-octylphthalate	EPA 8270	ND	330	ug/kg	1600000	
205-99-2	Benzo[b]fluoranthene	EPA 8270	ND	330	ug/kg	137	Q
207-08-9	Benzo[k]fluoranthene	EPA 8270	ND	330	ug/kg	137	Q
50-32-8	Benzo[a]pyrene	EPA 8270	ND	330	ug/kg	137	Q
193-39-5	Indeno[1,2,3-cd]pyrene	EPA 8270	ND	330	ug/kg	137	Q
53-70-3	Dibenz[a,h]anthracene	EPA 8270	ND	330	ug/kg	137	Q
191-24-2	Benzo[g,h,i]perylene	EPA 8270	ND	330	ug/kg	z	

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

E = The concentration of this analyte exceeds the calibration range of the instrument.

Q = Analyte concentration and/or MDL is greater than the 1996 MTCA B Limits.

z = Analyte not listed in 1996 MTCA Method B.

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Analytical Report

Report Date: 10/16/97
Sample Collected: 09/24/97
Received Date: 09/26/97

Facility: Regulatory Affairs
Job Number: 97090218

Project Name: CORRECTIVE
Project No: WASHOUGAL

Client ID: CIA-3-6

Lab ID: AA28195

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	ND	2	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	2	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	ND	2	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	2	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	2	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	2	ug/kg	24000000
306-83-2	1,1-DichloroTrifluoroethane	EPA 8260	ND	9	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	2	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	9	ug/kg	
67-64-1	Acetone	EPA 8260	26.8	9	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	ND	2	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	ND	9	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	ND	9	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	ND	9	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	9	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	ND	2	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	ND	2	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	2	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	ND	2	ug/kg	z
107-02-8	Acrolien	EPA 8260	ND	38	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	2	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	4.04	2	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	ND	9	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	2	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	2	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	9.11	2	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	2	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	2	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	2	ug/kg	11000
71-43-2	Benzene	EPA 8260	ND	2	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	ND	4	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	ND	2	ug/kg	14700

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Facility: Regulatory Affairs
Job Number: 97090218

Project Name: CORRECTIVE
Project No: WASHOUGAL

Client ID: CIA-3-6

Lab ID: AA28195

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
74-95-3	Dibromomethane	EPA 8260	ND	2	ug/kg	z
75-27-4	Bromodichloromethane	EPA 8260	ND	2	ug/kg	16100
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	2	ug/kg	z
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	2	ug/kg	z
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	9	ug/kg	64000000
108-88-3	Toluene	EPA 8260	ND	4	ug/kg	16000000
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	2	ug/kg	143
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	2	ug/kg	z
79-00-5	1,1,2-Trichloroethane	EPA 8260	ND	2	ug/kg	17500
142-28-9	1,3-Dichloropropane	EPA 8260	ND	2	ug/kg	z
127-18-4	Tetrachloroethene	EPA 8260	42.0	2	ug/kg	19600
591-78-6	2-Hexanone	EPA 8260	ND	9	ug/kg	z
106-93-4	1,2-Dibromoethane	EPA 8260	ND	2	ug/kg	1.18
124-48-1	Dibromochloromethane	EPA 8260	ND	2	ug/kg	11900
108-90-7	Chlorobenzene	EPA 8260	ND	2	ug/kg	1600000
100-41-4	Ethylbenzene	EPA 8260	16.2	2	ug/kg	8000000
106-42-3	m,p-Xylene	EPA 8260	60.3	2	ug/kg	z
95-47-6	o-Xylene	EPA 8260	67.0	2	ug/kg	16000000
100-42-5	Styrene	EPA 8260	ND	2	ug/kg	33300
75-25-2	Bromoform	EPA 8260	ND	2	ug/kg	127000
98-82-8	Isopropylbenzene	EPA 8260	5.38	2	ug/kg	z
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	6	ug/kg	5000
108-86-1	Bromobenzene	EPA 8260	ND	2	ug/kg	z
103-65-1	n-propylbenzene	EPA 8260	14.6	2	ug/kg	z
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	56.5	2	ug/kg	z
95-49-8	2-Chlorotoluene	EPA 8260	ND	2	ug/kg	1600000
106-43-4	4-Chlorotoluene	EPA 8260	ND	2	ug/kg	z
98-06-6	tert-Butylbenzene	EPA 8260	ND	2	ug/kg	z
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	42.0	2	ug/kg	z
135-98-8	sec-Butylbenzene	EPA 8260	ND	2	ug/kg	z
541-73-1	1,3-Dichlorobenzene	EPA 8260	ND	2	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8260	ND	2	ug/kg	41700
104-51-8	n-Butylbenzene	EPA 8260	8.64	2	ug/kg	z
99-87-6	p-Isopropyltoluene	EPA 8260	6.63	2	ug/kg	z

Q

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Analytical Report

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Facility: Regulatory Affairs
Job Number: 97090218

Project Name: CORRECTIVE
Project No: WASHOUGAL

Client ID: CIA-3-6

Lab ID: AA28195

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
95-50-1	1,2-Dichlorobenzene	EPA 8260	13.6	2	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	9	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	ND	2	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	2	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	18.3	9	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	ND	2	ug/kg	z
EPA 8260/624 Volatile						
	1,2-Dichlorethane-D4	EPA 8260	105		%	
	Toluene-D8	EPA 8260	101		%	
	4-Bromofluorobenzene	EPA 8260	102		%	
EPA 8270 Solid						
62-53-3	Aniline	EPA 8270	ND	1700	ug/kg	175000
111-44-4	bis(2-Chloroethyl)ether	EPA 8270	ND	330	ug/kg	909
108-95-2	Phenol	EPA 8270	ND	330	ug/kg	48000000
95-57-8	2-Chlorophenol	EPA 8270	ND	330	ug/kg	400000
541-73-1	1,3-Dichlorobenzene	EPA 8270	ND	330	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8270	ND	330	ug/kg	41700
95-50-1	1,2-Dichlorobenzene	EPA 8270	ND	330	ug/kg	7200000
100-51-6	Benzyl alcohol	EPA 8270	ND	670	ug/kg	24000000
39638-32-9	bis(2-chloroisopropyl)ether	EPA 8270	ND	330	ug/kg	3200000
95-48-7	2-Methylphenol	EPA 8270	ND	330	ug/kg	4000000
98-86-2	Acetophenone	EPA 8270	ND	1700	ug/kg	8000000
67-72-1	Hexachloroethane	EPA 8270	ND	330	ug/kg	71400
621-64-7	N-Nitroso-di-n-propylamine	EPA 8270	ND	330	ug/kg	143
106-44-5	4-Methylphenol	EPA 8270	ND	330	ug/kg	400000
98-95-3	Nitrobenzene	EPA 8270	ND	330	ug/kg	40000
78-59-1	Isophorone	EPA 8270	ND	330	ug/kg	1050000
88-75-5	2-Nitrophenol	EPA 8270	ND	330	ug/kg	z
105-67-9	2,4-Dimethylphenol	EPA 8270	ND	330	ug/kg	1600000
111-91-1	bis(2-Chloroethoxy)methane	EPA 8270	ND	330	ug/kg	z
120-83-2	2,4-Dichlorophenol	EPA 8270	ND	330	ug/kg	240000
120-82-1	1,2,4-Trichlorobenzene	EPA 8270	ND	330	ug/kg	800000
91-20-3	Naphthalene	EPA 8270	ND	330	ug/kg	3200000

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Project Name: CORRECTIVE
Project No: WASHOUGAL

Client ID: CIA-3-6

Lab ID: AA28195

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
106-47-8	4-Chloroaniline	EPA 8270	ND	670	ug/kg	320000
87-68-3	Hexachlorobutadiene	EPA 8270	ND	330	ug/kg	12800
65-85-0	Benzoic Acid	EPA 8270	ND	1700	ug/kg	32000000
59-50-7	4-Chloro-3-methylphenol	EPA 8270	ND	670	ug/kg	z
91-57-6	2-Methylnaphthalene	EPA 8270	ND	330	ug/kg	z
77-47-4	Hexachlorocyclopentadiene	EPA 8270	ND	330	ug/kg	560000
88-06-2	2,4,6-Trichlorophenol	EPA 8270	ND	330	ug/kg	90900
95-95-4	2,4,5-Trichlorophenol	EPA 8270	ND	330	ug/kg	8000000
91-58-7	2-Chloronaphthalene	EPA 8270	ND	330	ug/kg	6400
88-74-4	2-Nitroaniline	EPA 8270	ND	670	ug/kg	z
208-96-8	Acenaphthylene	EPA 8270	ND	330	ug/kg	z
131-11-3	Dimethylphthalate	EPA 8270	ND	330	ug/kg	80000000
606-20-2	2,6-Dinitrotoluene	EPA 8270	ND	330	ug/kg	80000
83-32-9	Acenaphthene	EPA 8270	ND	330	ug/kg	4800000
99-09-2	3-Nitroaniline	EPA 8270	ND	1700	ug/kg	z
51-28-5	2,4-Dinitrophenol	EPA 8270	ND	1700	ug/kg	160000
132-64-9	Dibenzofuran	EPA 8270	ND	1700	ug/kg	z
121-14-2	2,4-Dinitrotoluene	EPA 8270	ND	330	ug/kg	160000
100-02-7	4-Nitrophenol	EPA 8270	ND	330	ug/kg	z
86-73-7	Fluorene	EPA 8270	ND	330	ug/kg	3200000
7005-72-3	4-Chlorophenyl-phenylether	EPA 8270	ND	330	ug/kg	z
84-66-2	Diethylphthalate	EPA 8270	ND	330	ug/kg	64000000
100-01-6	4-Nitroaniline	EPA 8270	ND	1700	ug/kg	z
534-52-1	4,6-Dinitro-2-methylphenol	EPA 8270	ND	1700	ug/kg	z
86-30-6	n-Nitrosodiphenylamine	EPA 8270	ND	330	ug/kg	204000
103-33-3	Azobenzene	EPA 8270	ND	330	ug/kg	z
101-55-3	4-Bromophenyl-phenylether	EPA 8270	ND	330	ug/kg	z
118-74-1	Hexachlorobenzene	EPA 8270	ND	330	ug/kg	625
87-86-5	Pentachlorophenol	EPA 8270	ND	1700	ug/kg	8330
85-01-8	Phenanthrene	EPA 8270	ND	330	ug/kg	z
120-12-7	Anthracene	EPA 8270	ND	330	ug/kg	24000000
84-74-2	Di-n-butylphthalate	EPA 8270	ND	330	ug/kg	8000000
206-44-0	Fluoranthene	EPA 8270	ND	330	ug/kg	3200000
92-87-5	Benzidine	EPA 8270	ND	330	ug/kg	4.35

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Facility: Regulatory Affairs
Job Number: 97090218

Project Name: CORRECTIVE
Project No: WASHOUGAL

Client ID: CIA-3-6

Lab ID: AA28195

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits	
129-00-0	Pyrene	EPA 8270	ND	330	ug/kg	2400000	
85-68-7	Butylbenzylphthalate	EPA 8270	ND	330	ug/kg	16000000	
91-94-1	3,3'-Dichlorobenzidine	EPA 8270	ND	330	ug/kg	2220	
56-55-3	Benzo[a]anthracene	EPA 8270	ND	670	ug/kg	137	Q
218-01-9	Chrysene	EPA 8270	ND	330	ug/kg	137	Q
117-81-7	bis(2-Ethylhexyl)phthalate	EPA 8270	ND	1700	ug/kg	71400	
117-84-0	Di-n-octylphthalate	EPA 8270	ND	330	ug/kg	1600000	
205-99-2	Benzo[b]fluoranthene	EPA 8270	ND	330	ug/kg	137	Q
207-08-9	Benzo[k]fluoranthene	EPA 8270	ND	330	ug/kg	137	Q
50-32-8	Benzo[a]pyrene	EPA 8270	ND	330	ug/kg	137	Q
193-39-5	Indeno[1,2,3-cd]pyrene	EPA 8270	ND	330	ug/kg	137	Q
53-70-3	Dibenz[a,h]anthracene	EPA 8270	ND	330	ug/kg	137	Q
191-24-2	Benzo[g,h,i]perylene	EPA 8270	ND	330	ug/kg	z	

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

E = The concentration of this analyte exceeds the calibration range of the instrument.

Q = Analyte concentration and/or MDL is greater than the 1996 MTCA B Limits.

z = Analyte not listed in 1996 MTCA Method B.

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Analytical Report

Report Date: 10/20/97
Sample Collected: 09/30/97
Received Date: 10/02/97

Facility: Regulatory Affairs
Job Number: 97100030

Project Name: CORRECTIVE
Project No: WASHOUGAL

Client ID: CIA-23-6

Lab ID: AA28499

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	ND	1	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	1	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	ND	1	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	1	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	1	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	1	ug/kg	24000000
306-83-2	1,1-DichloroTrifluoroethane	EPA 8260	ND	7	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	1	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	7	ug/kg	
67-64-1	Acetone	EPA 8260	55.2	7	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	ND	1	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	ND	7	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	ND	7	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	ND	7	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	7	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	ND	1	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	ND	1	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	1	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	ND	1	ug/kg	z
107-02-8	Acrolin	EPA 8260	ND	29	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	1	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	ND	1	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	ND	7	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	1	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	1	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	ND	1	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	1	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	1	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	1	ug/kg	11000
71-43-2	Benzene	EPA 8260	ND	1	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	ND	3	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	ND	1	ug/kg	14700

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To: John Stiller
955 Powell Avenue Southwest
Renton, WA 98055

Analytical Report

Report Date: 10/20/97
Sample Collected: 09/30/97
Received Date: 10/02/97

Facility: Regulatory Affairs
Job Number: 97100030

Project Name: CORRECTIVE
Project No: WASHOUGAL

Client ID: CIA-23-6

Lab ID: AA28499

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
74-95-3	Dibromomethane	EPA 8260	ND	1	ug/kg	z
75-27-4	Bromodichloromethane	EPA 8260	ND	1	ug/kg	16100
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	1	ug/kg	z
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	1	ug/kg	z
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	7	ug/kg	64000000
108-88-3	Toluene	EPA 8260	ND	3	ug/kg	16000000
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	1	ug/kg	143
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	1	ug/kg	z
79-00-5	1,1,2-Trichloroethane	EPA 8260	ND	1	ug/kg	17500
142-28-9	1,3-Dichloropropane	EPA 8260	ND	1	ug/kg	z
127-18-4	Tetrachloroethene	EPA 8260	ND	1	ug/kg	19600
591-78-6	2-Hexanone	EPA 8260	ND	7	ug/kg	z
106-93-4	1,2-Dibromoethane	EPA 8260	ND	1	ug/kg	1.18
124-48-1	Dibromochloromethane	EPA 8260	ND	1	ug/kg	11900
108-90-7	Chlorobenzene	EPA 8260	ND	1	ug/kg	1600000
100-41-4	Ethylbenzene	EPA 8260	ND	1	ug/kg	8000000
106-42-3	m,p-Xylene	EPA 8260	5.21	1	ug/kg	z
95-47-6	o-Xylene	EPA 8260	ND	1	ug/kg	16000000
100-42-5	Styrene	EPA 8260	ND	1	ug/kg	33300
75-25-2	Bromoform	EPA 8260	ND	1	ug/kg	127000
98-82-8	Isopropylbenzene	EPA 8260	ND	1	ug/kg	z
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	4	ug/kg	5000
108-86-1	Bromobenzene	EPA 8260	ND	1	ug/kg	z
103-65-1	n-propylbenzene	EPA 8260	ND	1	ug/kg	z
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	ND	1	ug/kg	z
95-49-8	2-Chlorotoluene	EPA 8260	ND	1	ug/kg	1600000
106-43-4	4-Chlorotoluene	EPA 8260	ND	1	ug/kg	z
98-06-6	tert-Butylbenzene	EPA 8260	ND	1	ug/kg	z
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	1.97	1	ug/kg	z
135-98-8	sec-Butylbenzene	EPA 8260	ND	1	ug/kg	z
541-73-1	1,3-Dichlorobenzene	EPA 8260	ND	1	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8260	ND	1	ug/kg	41700
104-51-8	n-Butylbenzene	EPA 8260	ND	1	ug/kg	z
99-87-6	p-Isopropyltoluene	EPA 8260	ND	1	ug/kg	z

PHILIP

ENVIRONMENTAL

BY-PRODUCT RECOVERY GROUP
WESTERN REGION

Phillip Environmental Laboratory
955 Powell Avenue S.W.
Renton, WA 98055-2908
TEL 206.227.6110
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CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
95-50-1	1,2-Dichlorobenzene	EPA 8260	ND	1	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	7	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	ND	1	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	1	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	ND	7	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	ND	1	ug/kg	z
EPA 8260/624 Volatile						
	1,2-Dichlorethane-D4	EPA 8260	94.4		%	
	Toluene-D8	EPA 8260	109		%	
	4-Bromofluorobenzene	EPA 8260	106		%	
EPA 8270 Solid						
62-53-3	Analine	EPA 8270	ND	167	ug/kg	175000
111-44-4	bis(2-Chloroethyl)ether	EPA 8270	ND	33	ug/kg	909
108-95-2	Phenol	EPA 8270	ND	33	ug/kg	48000000
95-57-8	2-Chlorophenol	EPA 8270	ND	33	ug/kg	400000
541-73-1	1,3-Dichlorobenzene	EPA 8270	ND	33	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8270	ND	33	ug/kg	41700
95-50-1	1,2-Dichlorobenzene	EPA 8270	ND	33	ug/kg	7200000
100-51-6	Benzyl alcohol	EPA 8270	ND	67	ug/kg	24000000
39638-32-9	bis(2-chloroisopropyl)ether	EPA 8270	ND	33	ug/kg	3200000
95-48-7	2-Methylphenol	EPA 8270	ND	33	ug/kg	4000000
98-86-2	Acetophenone	EPA 8270	ND	167	ug/kg	8000000
67-72-1	Hexachloroethane	EPA 8270	ND	33	ug/kg	71400
621-64-7	N-Nitroso-di-n-propylamine	EPA 8270	ND	33	ug/kg	143
106-44-5	4-Methylphenol	EPA 8270	ND	33	ug/kg	400000
98-95-3	Nitrobenzene	EPA 8270	ND	33	ug/kg	40000
78-59-1	Isophorone	EPA 8270	ND	33	ug/kg	1050000
88-75-5	2-Nitrophenol	EPA 8270	ND	33	ug/kg	z
105-67-9	2,4-Dimethylphenol	EPA 8270	ND	33	ug/kg	1600000
111-91-1	bis(2-Chloroethoxy)methane	EPA 8270	ND	33	ug/kg	z
120-83-2	2,4-Dichlorophenol	EPA 8270	ND	33	ug/kg	240000
120-82-1	1,2,4-Trichlorobenzene	EPA 8270	ND	33	ug/kg	800000
91-20-3	Naphthalene	EPA 8270	ND	33	ug/kg	3200000

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Facility: Regulatory Affairs
Job Number: 97100030

Project Name: CORRECTIVE
Project No: WASHOUGAL

Client ID: CIA-23-6

Lab ID: AA28499

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
106-47-8	4-Chloroaniline	EPA 8270	ND	67	ug/kg	320000
87-68-3	Hexachlorobutadiene	EPA 8270	ND	33	ug/kg	12800
65-85-0	Benzoic Acid	EPA 8270	ND	167	ug/kg	32000000
59-50-7	4-Chloro-3-methylphenol	EPA 8270	ND	67	ug/kg	z
91-57-6	2-Methylnaphthalene	EPA 8270	ND	33	ug/kg	z
77-47-4	Hexachlorocyclopentadiene	EPA 8270	ND	33	ug/kg	560000
88-06-2	2,4,6-Trichlorophenol	EPA 8270	ND	33	ug/kg	90900
95-95-4	2,4,5-Trichlorophenol	EPA 8270	ND	33	ug/kg	8000000
91-58-7	2-Chloronaphthalene	EPA 8270	ND	33	ug/kg	6400
88-74-4	2-Nitroaniline	EPA 8270	ND	67	ug/kg	z
208-96-8	Acenaphthylene	EPA 8270	ND	33	ug/kg	z
131-11-3	Dimethylphthalate	EPA 8270	ND	33	ug/kg	80000000
606-20-2	2,6-Dinitrotoluene	EPA 8270	ND	33	ug/kg	80000
83-32-9	Acenaphthene	EPA 8270	ND	33	ug/kg	4800000
99-09-2	3-Nitroaniline	EPA 8270	ND	167	ug/kg	z
51-28-5	2,4-Dinitrophenol	EPA 8270	ND	167	ug/kg	160000
132-64-9	Dibenzofuran	EPA 8270	ND	167	ug/kg	z
121-14-2	2,4-Dinitrotoluene	EPA 8270	ND	33	ug/kg	160000
100-02-7	4-Nitrophenol	EPA 8270	ND	33	ug/kg	z
86-73-7	Fluorene	EPA 8270	ND	33	ug/kg	3200000
7005-72-3	4-Chlorophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
84-66-2	Diethylphthalate	EPA 8270	ND	33	ug/kg	64000000
100-01-6	4-Nitroaniline	EPA 8270	ND	167	ug/kg	z
534-52-1	4,6-Dinitro-2-methylphenol	EPA 8270	ND	167	ug/kg	z
86-30-6	n-Nitrosodiphenylamine	EPA 8270	ND	33	ug/kg	204000
103-33-3	Azobenzene	EPA 8270	ND	33	ug/kg	z
101-55-3	4-Bromophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
118-74-1	Hexachlorobenzene	EPA 8270	ND	33	ug/kg	625
87-86-5	Pentachlorophenol	EPA 8270	ND	167	ug/kg	8330
85-01-8	Phenanthrene	EPA 8270	ND	33	ug/kg	z
120-12-7	Anthracene	EPA 8270	ND	33	ug/kg	24000000
84-74-2	Di-n-butylphthalate	EPA 8270	470	33	ug/kg	8000000
206-44-0	Fluoranthene	EPA 8270	ND	33	ug/kg	3200000
92-87-5	Benzidine	EPA 8270	ND	33	ug/kg	4.35

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Analytical Report

Report Date: 10/20/97
Sample Collected: 09/30/97
Received Date: 10/02/97

Facility: Regulatory Affairs
Job Number: 97100030

Project Name: CORRECTIVE
Project No: WASHOUGAL

Client ID: CIA-23-6

Lab ID: AA28499

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
129-00-0	Pyrene	EPA 8270	ND	33	ug/kg	2400000
85-68-7	Butylbenzylphthalate	EPA 8270	ND	33	ug/kg	16000000
91-94-1	3,3'-Dichlorobenzidine	EPA 8270	ND	33	ug/kg	2220
56-55-3	Benzo[a]anthracene	EPA 8270	ND	67	ug/kg	137
218-01-9	Chrysene	EPA 8270	ND	33	ug/kg	137
117-81-7	bis(2-Ethylhexyl)phthalate	EPA 8270	ND	167	ug/kg	71400
117-84-0	Di-n-octylphthalate	EPA 8270	ND	33	ug/kg	1600000
205-99-2	Benzo[b]fluoranthene	EPA 8270	ND	33	ug/kg	137
207-08-9	Benzo[k]fluoranthene	EPA 8270	ND	33	ug/kg	137
50-32-8	Benzo[a]pyrene	EPA 8270	ND	33	ug/kg	137
193-39-5	Indeno[1,2,3-cd]pyrene	EPA 8270	ND	33	ug/kg	137
53-70-3	Dibenz[a,h]anthracene	EPA 8270	ND	33	ug/kg	137
191-24-2	Benzo[g,h,i]perylene	EPA 8270	ND	33	ug/kg	z

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

E = The concentration of this analyte exceeds the calibration range of the instrument.

Q = Analyte concentration and/or MDL is greater than the 1996 MTCA B Limits.

z = Analyte not listed in 1996 MTCA Method B.



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 955 Powell Avenue S.W.
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 955 Powell Avenue Southwest
 Renton, WA 98055

Analytical Report

Report Date: 11/05/97
 Sample Collected: 09/19/97
 Received Date: 09/22/97

Facility: Regulatory Affairs
 Job Number: 97090170

Project Name: PHILIP
 Project No:

Client ID: CIA-5-6

Lab ID: AA27802

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	ND	10	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	10	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	ND	10	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	10	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	10	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	10	ug/kg	24000000
306-83-2	1,1-DichloroTrifluoroethane	EPA 8260	ND	50	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	10	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	50	ug/kg	
67-64-1	Acetone	EPA 8260	ND	50	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	ND	10	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	ND	50	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	ND	50	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	ND	50	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	50	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	ND	10	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	47.4	10	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	10	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	21.2	10	ug/kg	z
107-02-8	Acrolin	EPA 8260	ND	200	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	10	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	202	10	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	ND	50	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	10	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	10	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	276	10	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	10	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	10	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	10	ug/kg	11000
71-43-2	Benzene	EPA 8260	ND	10	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	20.1	20	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	ND	10	ug/kg	14700



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 Job Number: 97090170

Project Name: PHILIP
 Project No:

Client ID: CIA-5-6

Lab ID: AA27802

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits	
74-95-3	Dibromomethane	EPA 8260	ND	10	ug/kg	z	
75-27-4	Bromodichloromethane	EPA 8260	ND	10	ug/kg	16100	
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	10	ug/kg	z	
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	10	ug/kg	z	
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	50	ug/kg	64000000	
108-88-3	Toluene	EPA 8260	94.3	20	ug/kg	16000000	
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	10	ug/kg	143	
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	10	ug/kg	z	
79-00-5	1,1,2-Trichloroethane	EPA 8260	ND	10	ug/kg	17500	
142-28-9	1,3-Dichloropropane	EPA 8260	ND	10	ug/kg	z	
127-18-4	Tetrachloroethene	EPA 8260	40.5	10	ug/kg	19600	
591-78-6	2-Hexanone	EPA 8260	ND	50	ug/kg	z	
106-93-4	1,2-Dibromoethane	EPA 8260	ND	10	ug/kg	1.18	Q
124-48-1	Dibromochloromethane	EPA 8260	ND	10	ug/kg	11900	
108-90-7	Chlorobenzene	EPA 8260	ND	10	ug/kg	1600000	
100-41-4	Ethylbenzene	EPA 8260	383	10	ug/kg	8000000	
106-42-3	m,p-Xylene	EPA 8260	1730	10	ug/kg	z	
95-47-6	o-Xylene	EPA 8260	748	10	ug/kg	16000000	
100-42-5	Styrene	EPA 8260	ND	10	ug/kg	33300	
75-25-2	Bromoform	EPA 8260	ND	10	ug/kg	127000	
98-82-8	Isopropylbenzene	EPA 8260	84.2	10	ug/kg	z	
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	30	ug/kg	5000	
108-86-1	Bromobenzene	EPA 8260	ND	10	ug/kg	z	
103-65-1	n-propylbenzene	EPA 8260	304	10	ug/kg	z	
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	588	10	ug/kg	z	
95-49-8	2-Chlorotoluene	EPA 8260	ND	10	ug/kg	1600000	
106-43-4	4-Chlorotoluene	EPA 8260	ND	10	ug/kg	z	
98-06-6	tert-Butylbenzene	EPA 8260	ND	10	ug/kg	z	
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	1610	10	ug/kg	z	
135-98-8	sec-Butylbenzene	EPA 8260	ND	10	ug/kg	z	
541-73-1	1,3-Dichlorobenzene	EPA 8260	ND	10	ug/kg	z	
106-46-7	1,4-Dichlorobenzene	EPA 8260	ND	10	ug/kg	41700	
104-51-8	n-Butylbenzene	EPA 8260	106	10	ug/kg	z	



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 Job Number: 97090170

Project Name: PHILIP
 Project No:

Client ID: CIA-5-6

Lab ID: AA27802

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
99-87-6	p-Isopropyltoluene	EPA 8260	61.8	10	ug/kg	z
95-50-1	1,2-Dichlorobenzene	EPA 8260	54.4	10	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	50	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	ND	10	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	10	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	441	50	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	ND	10	ug/kg	z

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

E = The concentration of this analyte exceeds the calibration range of the instrument.

Q = Analyte concentration and/or MDL is greater than the 1996 MTCA B Limits.

z = Analyte not listed in 1996 MTCA Method B.



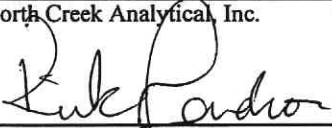
Philip Services 955 Powell Ave. SW Renton, WA 98055	Project: PSC Lab-Washougal Project Number: none Project Manager: Hannah Thomas	Sampled: 10/24/97 Received: 10/24/97 Reported: 11/5/97 10:10
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ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
AA27802	B710460-01	Soil	10/24/97
AA27807	B710460-02	Soil	10/24/97

North Creek Analytical, Inc.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document.
This analytical report must be reproduced in its entirety.*


Kirk Gendron, Project Manager

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East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132



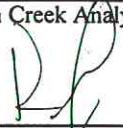
Philip Services 955 Powell Ave. SW Renton, WA 98055	Project: PSC Lab-Washougal Project Number: none Project Manager: Hannah Thomas	Sampled: 10/24/97 Received: 10/24/97 Reported: 11/5/97 10:10
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Semivolatile Organic Compounds by EPA Method 8270B
North Creek Analytical - Bothell

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
<u>AA27802</u>				<u>B710460-01</u>			<u>Soil</u>	
Acetophenone	1070725	10/24/97	10/24/97		0.500	ND	mg/kg	1
Azobenzene	"	"	"		0.100	ND	"	
Benzidine	"	"	"		0.100	ND	"	
N-Nitrosodimethylamine	"	"	"		0.100	ND	"	
Acenaphthene	"	"	"		0.100	ND	"	
Acenaphthylene	"	"	"		0.100	ND	"	
Aniline	"	"	"		0.100	ND	"	
Anthracene	"	"	"		0.100	ND	"	
Benzoic Acid	"	"	"		0.500	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	2
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	2
Benzo (ghi) perylene	"	"	"		0.100	ND	"	2
Benzo (a) pyrene	"	"	"		0.100	ND	"	2
Benzyl alcohol	"	"	"		0.100	ND	"	
Bis(2-chloroethoxy)methane	"	"	"		0.100	ND	"	
Bis(2-chloroethyl)ether	"	"	"		0.100	ND	"	
Bis(2-chloroisopropyl)ether	"	"	"		0.100	ND	"	
Bis(2-ethylhexyl)phthalate	"	"	"		0.500	ND	"	
4-Bromophenyl phenyl ether	"	"	"		0.100	ND	"	
Butyl benzyl phthalate	"	"	"		0.100	ND	"	
Carbazole	"	"	"		0.500	ND	"	
4-Chloroaniline	"	"	"		0.100	ND	"	
2-Chloronaphthalene	"	"	"		0.100	ND	"	
4-Chloro-3-methylphenol	"	"	"		0.100	ND	"	
2-Chlorophenol	"	"	"		0.100	ND	"	
4-Chlorophenyl phenyl ether	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.100	ND	"	
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	2
Dibenzofuran	"	"	"		0.100	ND	"	
Di-n-butyl phthalate	"	"	"		0.500	ND	"	
1,3-Dichlorobenzene	"	"	"		0.100	ND	"	
1,4-Dichlorobenzene	"	"	"		0.100	ND	"	
1,2-Dichlorobenzene	"	"	"		0.100	ND	"	
3,3'-Dichlorobenzidine	"	"	"		5.00	ND	"	
2,4-Dichlorophenol	"	"	"		0.100	ND	"	
Diethyl phthalate	"	"	"		0.100	ND	"	
2,4-Dimethylphenol	"	"	"		0.100	ND	"	

North Creek Analytical, Inc.

*Refer to end of report for text of notes and definitions.

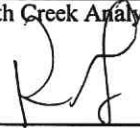

Kirk Gendron, Project Manager



Philip Services 955 Powell Ave. SW Renton, WA 98055	Project: PSC Lab-Washougal Project Number: none Project Manager: Hannah Thomas	Sampled: 10/24/97 Received: 10/24/97 Reported: 11/5/97 10:10
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**Semivolatile Organic Compounds by EPA Method 8270B
North Creek Analytical - Bothell**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
AA27802 (continued)								
				B710460-01			Soil	
Dimethyl phthalate	1070725	10/24/97	10/24/97		0.100	ND	mg/kg	
4,6-Dinitro-2-methylphenol	"	"	"		0.500	ND	"	
2,4-Dinitrophenol	"	"	"		0.500	ND	"	
2,4-Dinitrotoluene	"	"	"		0.100	ND	"	
2,6-Dinitrotoluene	"	"	"		0.100	ND	"	
Di-n-octyl phthalate	"	"	"		0.500	ND	"	2
Fluoranthene	"	"	"		0.100	ND	"	
Fluorene	"	"	"		0.100	ND	"	
Hexachlorobenzene	"	"	"		0.100	ND	"	
Hexachlorobutadiene	"	"	"		0.100	ND	"	
Hexachlorocyclopentadiene	"	"	"		0.100	ND	"	
Hexachloroethane	"	"	"		0.100	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	2
2-Methylnaphthalene	"	"	"		0.100	ND	"	
2-Methylphenol	"	"	"		0.100	ND	"	
3 & 4-Methylphenol	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		0.100	ND	"	
2-Nitroaniline	"	"	"		0.500	ND	"	
3-Nitroaniline	"	"	"		0.500	ND	"	
4-Nitroaniline	"	"	"		0.500	ND	"	
Nitrobenzene	"	"	"		0.100	ND	"	
2-Nitrophenol	"	"	"		0.100	ND	"	
4-Nitrophenol	"	"	"		0.500	ND	"	
N-Nitrosodiphenylamine	"	"	"		0.200	ND	"	
N-Nitrosodi-n-propylamine	"	"	"		0.100	ND	"	
Pentachlorophenol	"	"	"		0.500	ND	"	
Phenanthrene	"	"	"		0.100	ND	"	
Phenol	"	"	"		0.100	ND	"	
Pyrene	"	"	"		0.100	ND	"	
1,2,4-Trichlorobenzene	"	"	"		0.100	ND	"	
2,4,5-Trichlorophenol	"	"	"		0.500	ND	"	
2,4,6-Trichlorophenol	"	"	"		0.100	ND	"	


Kirk Gendron, Project Manager

PHILIP

ENVIRONMENTAL

BY-PRODUCT RECOVERY GROUP
WESTERN REGION

Phillip Environmental Laboratory
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Renton, WA 98055-2908
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FAX 206.227.6196

To: John Stiller
955 Powell Avenue Southwest
Renton, WA 98055

Analytical Report

Report Date: 10/16/97
Sample Collected: 09/24/97
Received Date: 09/26/97

Facility: Regulatory Affairs
Job Number: 97090218

Project Name: CORRECTIVE
Project No: WASHOUGAL

Client ID: CIA-6-6

Lab ID: AA28196

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	ND	4	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	4	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	ND	4	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	4	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	4	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	4	ug/kg	24000000
306-83-2	1,1-DichloroTrifluoroethane	EPA 8260	ND	19	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	4	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	19	ug/kg	
67-64-1	Acetone	EPA 8260	35.5	19	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	ND	4	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	ND	19	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	ND	19	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	ND	19	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	19	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	ND	4	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	ND	4	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	4	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	ND	4	ug/kg	z
107-02-8	Acrolin	EPA 8260	ND	74	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	4	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	ND	4	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	ND	19	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	4	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	4	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	ND	4	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	4	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	4	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	4	ug/kg	11000
71-43-2	Benzene	EPA 8260	ND	4	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	ND	7	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	ND	4	ug/kg	14700

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Project No: WASHOUGAL

Client ID: CIA-6-6

Lab ID: AA28196

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
74-95-3	Dibromomethane	EPA 8260	ND	4	ug/kg	z
75-27-4	Bromodichloromethane	EPA 8260	ND	4	ug/kg	16100
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	4	ug/kg	z
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	4	ug/kg	z
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	19	ug/kg	64000000
108-88-3	Toluene	EPA 8260	ND	7	ug/kg	16000000
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	4	ug/kg	143
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	4	ug/kg	z
79-00-5	1,1,2-Trichloroethane	EPA 8260	ND	4	ug/kg	17500
142-28-9	1,3-Dichloropropane	EPA 8260	ND	4	ug/kg	z
127-18-4	Tetrachloroethene	EPA 8260	40.6	4	ug/kg	19600
591-78-6	2-Hexanone	EPA 8260	ND	19	ug/kg	z
106-93-4	1,2-Dibromoethane	EPA 8260	ND	4	ug/kg	1.18
124-48-1	Dibromochloromethane	EPA 8260	ND	4	ug/kg	11900
108-90-7	Chlorobenzene	EPA 8260	ND	4	ug/kg	1600000
100-41-4	Ethylbenzene	EPA 8260	6.39	4	ug/kg	8000000
106-42-3	m,p-Xylene	EPA 8260	42.3	4	ug/kg	z
95-47-6	o-Xylene	EPA 8260	17.5	4	ug/kg	16000000
100-42-5	Styrene	EPA 8260	ND	4	ug/kg	33300
75-25-2	Bromoform	EPA 8260	ND	4	ug/kg	127000
98-82-8	Isopropylbenzene	EPA 8260	9.66	4	ug/kg	z
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	11	ug/kg	5000
108-86-1	Bromobenzene	EPA 8260	ND	4	ug/kg	z
103-65-1	n-propylbenzene	EPA 8260	48.8	4	ug/kg	z
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	117	4	ug/kg	z
95-49-8	2-Chlorotoluene	EPA 8260	ND	4	ug/kg	1600000
106-43-4	4-Chlorotoluene	EPA 8260	ND	4	ug/kg	z
98-06-6	tert-Butylbenzene	EPA 8260	ND	4	ug/kg	z
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	277	4	ug/kg	z
135-98-8	sec-Butylbenzene	EPA 8260	24.6	4	ug/kg	z
541-73-1	1,3-Dichlorobenzene	EPA 8260	ND	4	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8260	ND	4	ug/kg	41700
104-51-8	n-Butylbenzene	EPA 8260	53.2	4	ug/kg	z
99-87-6	p-Isopropyltoluene	EPA 8260	20.4	4	ug/kg	z

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Facility: Regulatory Affairs
Job Number: 97090218

Project Name: CORRECTIVE
Project No: WASHOUGAL

Client ID: CIA-6-6

Lab ID: AA28196

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
95-50-1	1,2-Dichlorobenzene	EPA 8260	ND	4	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	19	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	ND	4	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	4	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	20.1	19	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	ND	4	ug/kg	z
EPA 8260/624 Volatile						
	1,2-Dichlorethane-D4	EPA 8260	104		%	
	Toluene-D8	EPA 8260	106		%	
	4-Bromofluorobenzene	EPA 8260	110		%	
EPA 8270 Solid						
62-53-3	Aniline	EPA 8270	ND	1700	ug/kg	175000
111-44-4	bis(2-Chloroethyl)ether	EPA 8270	ND	330	ug/kg	909
108-95-2	Phenol	EPA 8270	ND	330	ug/kg	48000000
95-57-8	2-Chlorophenol	EPA 8270	ND	330	ug/kg	400000
541-73-1	1,3-Dichlorobenzene	EPA 8270	ND	330	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8270	ND	330	ug/kg	41700
95-50-1	1,2-Dichlorobenzene	EPA 8270	ND	330	ug/kg	7200000
100-51-6	Benzyl alcohol	EPA 8270	ND	670	ug/kg	24000000
39638-32-9	bis(2-chloroisopropyl)ether	EPA 8270	ND	330	ug/kg	3200000
95-48-7	2-Methylphenol	EPA 8270	ND	330	ug/kg	4000000
98-86-2	Acetophenone	EPA 8270	ND	1700	ug/kg	8000000
67-72-1	Hexachloroethane	EPA 8270	ND	330	ug/kg	71400
621-64-7	N-Nitroso-di-n-propylamine	EPA 8270	ND	330	ug/kg	143
106-44-5	4-Methylphenol	EPA 8270	ND	330	ug/kg	400000
98-95-3	Nitrobenzene	EPA 8270	ND	330	ug/kg	40000
78-59-1	Isophorone	EPA 8270	ND	330	ug/kg	1050000
88-75-5	2-Nitrophenol	EPA 8270	ND	330	ug/kg	z
105-67-9	2,4-Dimethylphenol	EPA 8270	ND	330	ug/kg	1600000
111-91-1	bis(2-Chloroethoxy)methane	EPA 8270	ND	330	ug/kg	z
120-83-2	2,4-Dichlorophenol	EPA 8270	ND	330	ug/kg	240000
120-82-1	1,2,4-Trichlorobenzene	EPA 8270	ND	330	ug/kg	800000
91-20-3	Naphthalene	EPA 8270	ND	330	ug/kg	3200000

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Facility: Regulatory Affairs
Job Number: 97090218

Project Name: CORRECTIVE
Project No: WASHOUGAL

Client ID: CIA-6-6

Lab ID: AA28196

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
106-47-8	4-Chloroaniline	EPA 8270	ND	670	ug/kg	320000
87-68-3	Hexachlorobutadiene	EPA 8270	ND	330	ug/kg	12800
65-85-0	Benzoic Acid	EPA 8270	ND	1700	ug/kg	32000000
59-50-7	4-Chloro-3-methylphenol	EPA 8270	ND	670	ug/kg	z
91-57-6	2-Methylnaphthalene	EPA 8270	ND	330	ug/kg	z
77-47-4	Hexachlorocyclopentadiene	EPA 8270	ND	330	ug/kg	560000
88-06-2	2,4,6-Trichlorophenol	EPA 8270	ND	330	ug/kg	90900
95-95-4	2,4,5-Trichlorophenol	EPA 8270	ND	330	ug/kg	8000000
91-58-7	2-Chloronaphthalene	EPA 8270	ND	330	ug/kg	6400
88-74-4	2-Nitroaniline	EPA 8270	ND	670	ug/kg	z
208-96-8	Acenaphthylene	EPA 8270	ND	330	ug/kg	z
131-11-3	Dimethylphthalate	EPA 8270	ND	330	ug/kg	80000000
606-20-2	2,6-Dinitrotoluene	EPA 8270	ND	330	ug/kg	80000
83-32-9	Acenaphthene	EPA 8270	ND	330	ug/kg	4800000
99-09-2	3-Nitroaniline	EPA 8270	ND	1700	ug/kg	z
51-28-5	2,4-Dinitrophenol	EPA 8270	ND	1700	ug/kg	160000
132-64-9	Dibenzofuran	EPA 8270	ND	1700	ug/kg	z
121-14-2	2,4-Dinitrotoluene	EPA 8270	ND	330	ug/kg	160000
100-02-7	4-Nitrophenol	EPA 8270	ND	330	ug/kg	z
86-73-7	Fluorene	EPA 8270	ND	330	ug/kg	3200000
7005-72-3	4-Chlorophenyl-phenylether	EPA 8270	ND	330	ug/kg	z
84-66-2	Diethylphthalate	EPA 8270	ND	330	ug/kg	64000000
100-01-6	4-Nitroaniline	EPA 8270	ND	1700	ug/kg	z
534-52-1	4,6-Dinitro-2-methylphenol	EPA 8270	ND	1700	ug/kg	z
86-30-6	n-Nitrosodiphenylamine	EPA 8270	ND	330	ug/kg	204000
103-33-3	Azobenzene	EPA 8270	ND	330	ug/kg	z
101-55-3	4-Bromophenyl-phenylether	EPA 8270	ND	330	ug/kg	z
118-74-1	Hexachlorobenzene	EPA 8270	ND	330	ug/kg	625
87-86-5	Pentachlorophenol	EPA 8270	ND	1700	ug/kg	8330
85-01-8	Phenanthrene	EPA 8270	ND	330	ug/kg	z
120-12-7	Anthracene	EPA 8270	ND	330	ug/kg	24000000
84-74-2	Di-n-butylphthalate	EPA 8270	ND	330	ug/kg	8000000
206-44-0	Fluoranthene	EPA 8270	ND	330	ug/kg	3200000
92-87-5	Benzidine	EPA 8270	ND	330	ug/kg	4.35

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Project Name: CORRECTIVE
Project No: WASHOUGAL

Client ID: CIA-6-6

Lab ID: AA28196

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits	
129-00-0	Pyrene	EPA 8270	ND	330	ug/kg	2400000	
85-68-7	Butylbenzylphthalate	EPA 8270	ND	330	ug/kg	16000000	
91-94-1	3,3'-Dichlorobenzidine	EPA 8270	ND	330	ug/kg	2220	
56-55-3	Benzo[a]anthracene	EPA 8270	ND	670	ug/kg	137	Q
218-01-9	Chrysene	EPA 8270	ND	330	ug/kg	137	Q
117-81-7	bis(2-Ethylhexyl)phthalate	EPA 8270	ND	1700	ug/kg	71400	
117-84-0	Di-n-octylphthalate	EPA 8270	ND	330	ug/kg	1600000	
205-99-2	Benzo[b]fluoranthene	EPA 8270	ND	330	ug/kg	137	Q
207-08-9	Benzo[k]fluoranthene	EPA 8270	ND	330	ug/kg	137	Q
50-32-8	Benzo[a]pyrene	EPA 8270	ND	330	ug/kg	137	Q
193-39-5	Indeno[1,2,3-cd]pyrene	EPA 8270	ND	330	ug/kg	137	Q
53-70-3	Dibenz[a,h]anthracene	EPA 8270	ND	330	ug/kg	137	Q
191-24-2	Benzo[g,h,i]perylene	EPA 8270	ND	330	ug/kg	z	

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

E = The concentration of this analyte exceeds the calibration range of the instrument.

Q = Analyte concentration and/or MDL is greater than the 1996 MTCA B Limits.

z = Analyte not listed in 1996 MTCA Method B.

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Received Date: 09/26/97

Facility: Regulatory Affairs
Job Number: 97090218

Project Name: CORRECTIVE
Project No: WASHOUGAL

Client ID: CIA-8-6

Lab ID: AA28197

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	2.20	2	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	2	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	2.58	2	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	2	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	2	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	2	ug/kg	24000000
306-83-2	1,1-DichloroTrifluoroethane	EPA 8260	ND	10	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	2	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	10	ug/kg	
67-64-1	Acetone	EPA 8260	21.3	10	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	ND	2	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	ND	10	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	ND	10	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	ND	10	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	10	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	ND	2	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	ND	2	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	2	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	ND	2	ug/kg	z
107-02-8	Acrolin	EPA 8260	ND	42	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	2	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	18.1	2	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	ND	10	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	2	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	2	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	20.6	2	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	2	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	2	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	2	ug/kg	11000
71-43-2	Benzene	EPA 8260	3.12	2	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	ND	4	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	ND	2	ug/kg	14700

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WESTERN REGION

Phillip Environmental Laboratory
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To: John Stiller
955 Powell Avenue Southwest
Renton, WA 98055

Analytical Report

Report Date: 10/16/97
Sample Collected: 09/24/97
Received Date: 09/26/97

Facility: Regulatory Affairs
Job Number: 97090218

Project Name: CORRECTIVE
Project No: WASHOUGAL

Client ID: CIA-8-6

Lab ID: AA28197

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
74-95-3	Dibromomethane	EPA 8260	ND	2	ug/kg	z
75-27-4	Bromodichloromethane	EPA 8260	ND	2	ug/kg	16100
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	2	ug/kg	z
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	2	ug/kg	z
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	10	ug/kg	64000000
108-88-3	Toluene	EPA 8260	14.2	4	ug/kg	16000000
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	2	ug/kg	143
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	2	ug/kg	z
79-00-5	1,1,2-Trichloroethane	EPA 8260	ND	2	ug/kg	17500
142-28-9	1,3-Dichloropropane	EPA 8260	ND	2	ug/kg	z
127-18-4	Tetrachloroethene	EPA 8260	20.6	2	ug/kg	19600
591-78-6	2-Hexanone	EPA 8260	ND	10	ug/kg	z
106-93-4	1,2-Dibromoethane	EPA 8260	ND	2	ug/kg	1.18
124-48-1	Dibromochloromethane	EPA 8260	ND	2	ug/kg	11900
108-90-7	Chlorobenzene	EPA 8260	ND	2	ug/kg	1600000
100-41-4	Ethylbenzene	EPA 8260	6.36	2	ug/kg	8000000
106-42-3	m,p-Xylene	EPA 8260	14.5	2	ug/kg	z
95-47-6	o-Xylene	EPA 8260	51.0	2	ug/kg	16000000
100-42-5	Styrene	EPA 8260	ND	2	ug/kg	33300
75-25-2	Bromoform	EPA 8260	ND	2	ug/kg	127000
98-82-8	Isopropylbenzene	EPA 8260	ND	2	ug/kg	z
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	6	ug/kg	5000
108-86-1	Bromobenzene	EPA 8260	ND	2	ug/kg	z
103-65-1	n-propylbenzene	EPA 8260	6.55	2	ug/kg	z
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	60.1	2	ug/kg	z
95-49-8	2-Chlorotoluene	EPA 8260	ND	2	ug/kg	1600000
106-43-4	4-Chlorotoluene	EPA 8260	ND	2	ug/kg	z
98-06-6	tert-Butylbenzene	EPA 8260	ND	2	ug/kg	z
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	6.30	2	ug/kg	z
135-98-8	sec-Butylbenzene	EPA 8260	5.15	2	ug/kg	z
541-73-1	1,3-Dichlorobenzene	EPA 8260	ND	2	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8260	ND	2	ug/kg	41700
104-51-8	n-Butylbenzene	EPA 8260	8.65	2	ug/kg	z
99-87-6	p-Isopropyltoluene	EPA 8260	7.36	2	ug/kg	z

Q

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Analytical Report

Report Date: 10/16/97	Facility: Regulatory Affairs	Project Name: CORRECTIVE
Sample Collected: 09/24/97	Job Number: 97090218	Project No: WASHOUGAL
Received Date: 09/26/97		

Client ID: CIA-8-6

Lab ID: AA28197

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
95-50-1	1,2-Dichlorobenzene	EPA 8260	4.95	2	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	10	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	ND	2	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	2	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	ND	10	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	ND	2	ug/kg	z
EPA 8260/624 Volatile						
	1,2-Dichlorethane-D4	EPA 8260	107		%	
	Toluene-D8	EPA 8260	97.1		%	
	4-Bromofluorobenzene	EPA 8260	101		%	
EPA 8270 Solid						
62-53-3	Analine	EPA 8270	ND	1700	ug/kg	175000
111-44-4	bis(2-Chloroethyl)ether	EPA 8270	ND	330	ug/kg	909
108-95-2	Phenol	EPA 8270	ND	330	ug/kg	48000000
95-57-8	2-Chlorophenol	EPA 8270	ND	330	ug/kg	400000
541-73-1	1,3-Dichlorobenzene	EPA 8270	ND	330	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8270	ND	330	ug/kg	41700
95-50-1	1,2-Dichlorobenzene	EPA 8270	ND	330	ug/kg	7200000
100-51-6	Benzyl alcohol	EPA 8270	ND	670	ug/kg	24000000
39638-32-9	bis(2-chloroisopropyl)ether	EPA 8270	ND	330	ug/kg	3200000
95-48-7	2-Methylphenol	EPA 8270	ND	330	ug/kg	4000000
98-86-2	Acetophenone	EPA 8270	ND	1700	ug/kg	8000000
67-72-1	Hexachloroethane	EPA 8270	ND	330	ug/kg	71400
621-64-7	N-Nitroso-di-n-propylamine	EPA 8270	ND	330	ug/kg	143
106-44-5	4-Methylphenol	EPA 8270	ND	330	ug/kg	400000
98-95-3	Nitrobenzene	EPA 8270	ND	330	ug/kg	40000
78-59-1	Isophorone	EPA 8270	ND	330	ug/kg	1050000
88-75-5	2-Nitrophenol	EPA 8270	ND	330	ug/kg	z
105-67-9	2,4-Dimethylphenol	EPA 8270	ND	330	ug/kg	1600000
111-91-1	bis(2-Chloroethoxy)methane	EPA 8270	ND	330	ug/kg	z
120-83-2	2,4-Dichlorophenol	EPA 8270	ND	330	ug/kg	240000
120-82-1	1,2,4-Trichlorobenzene	EPA 8270	ND	330	ug/kg	800000
91-20-3	Naphthalene	EPA 8270	1090	330	ug/kg	3200000

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CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
106-47-8	4-Chloroaniline	EPA 8270	ND	670	ug/kg	320000
87-68-3	Hexachlorobutadiene	EPA 8270	ND	330	ug/kg	12800
65-85-0	Benzoic Acid	EPA 8270	ND	1700	ug/kg	32000000
59-50-7	4-Chloro-3-methylphenol	EPA 8270	ND	670	ug/kg	z
91-57-6	2-Methylnaphthalene	EPA 8270	1990	330	ug/kg	z
77-47-4	Hexachlorocyclopentadiene	EPA 8270	ND	330	ug/kg	560000
88-06-2	2,4,6-Trichlorophenol	EPA 8270	ND	330	ug/kg	90900
95-95-4	2,4,5-Trichlorophenol	EPA 8270	ND	330	ug/kg	8000000
91-58-7	2-Chloronaphthalene	EPA 8270	ND	330	ug/kg	6400
88-74-4	2-Nitroaniline	EPA 8270	ND	670	ug/kg	z
208-96-8	Acenaphthylene	EPA 8270	ND	330	ug/kg	z
131-11-3	Dimethylphthalate	EPA 8270	ND	330	ug/kg	80000000
606-20-2	2,6-Dinitrotoluene	EPA 8270	ND	330	ug/kg	80000
83-32-9	Acenaphthene	EPA 8270	ND	330	ug/kg	4800000
99-09-2	3-Nitroaniline	EPA 8270	ND	1700	ug/kg	z
51-28-5	2,4-Dinitrophenol	EPA 8270	ND	1700	ug/kg	160000
132-64-9	Dibenzofuran	EPA 8270	ND	1700	ug/kg	z
121-14-2	2,4-Dinitrotoluene	EPA 8270	ND	330	ug/kg	160000
100-02-7	4-Nitrophenol	EPA 8270	ND	330	ug/kg	z
86-73-7	Fluorene	EPA 8270	ND	330	ug/kg	3200000
7005-72-3	4-Chlorophenyl-phenylether	EPA 8270	ND	330	ug/kg	z
84-66-2	Diethylphthalate	EPA 8270	ND	330	ug/kg	64000000
100-01-6	4-Nitroaniline	EPA 8270	ND	1700	ug/kg	z
534-52-1	4,6-Dinitro-2-methylphenol	EPA 8270	ND	1700	ug/kg	z
86-30-6	n-Nitrosodiphenylamine	EPA 8270	ND	330	ug/kg	204000
103-33-3	Azobenzene	EPA 8270	ND	330	ug/kg	z
101-55-3	4-Bromophenyl-phenylether	EPA 8270	ND	330	ug/kg	z
118-74-1	Hexachlorobenzene	EPA 8270	ND	330	ug/kg	625
87-86-5	Pentachlorophenol	EPA 8270	ND	1700	ug/kg	8330
85-01-8	Phenanthrene	EPA 8270	ND	330	ug/kg	z
120-12-7	Anthracene	EPA 8270	ND	330	ug/kg	24000000
84-74-2	Di-n-butylphthalate	EPA 8270	ND	330	ug/kg	8000000
206-44-0	Fluoranthene	EPA 8270	ND	330	ug/kg	3200000
92-87-5	Benzidine	EPA 8270	ND	330	ug/kg	4.35

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Analytical Report

Report Date: 10/16/97
Sample Collected: 09/24/97
Received Date: 09/26/97

Facility: Regulatory Affairs
Job Number: 97090218

Project Name: CORRECTIVE
Project No: WASHOUGAL

Client ID: CIA-8-6

Lab ID: AA28197

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>	
129-00-0	Pyrene	EPA 8270	ND	330	ug/kg	2400000	
85-68-7	Butylbenzylphthalate	EPA 8270	ND	330	ug/kg	16000000	
91-94-1	3,3'-Dichlorobenzidine	EPA 8270	ND	330	ug/kg	2220	
56-55-3	Benzo[a]anthracene	EPA 8270	ND	670	ug/kg	137	Q
218-01-9	Chrysene	EPA 8270	ND	330	ug/kg	137	Q
117-81-7	bis(2-Ethylhexyl)phthalate	EPA 8270	ND	1700	ug/kg	71400	
117-84-0	Di-n-octylphthalate	EPA 8270	ND	330	ug/kg	1600000	
205-99-2	Benzo[b]fluoranthene	EPA 8270	ND	330	ug/kg	137	Q
207-08-9	Benzo[k]fluoranthene	EPA 8270	ND	330	ug/kg	137	Q
50-32-8	Benzo[a]pyrene	EPA 8270	ND	330	ug/kg	137	Q
193-39-5	Indeno[1,2,3-cd]pyrene	EPA 8270	ND	330	ug/kg	137	Q
53-70-3	Dibenz[a,h]anthracene	EPA 8270	ND	330	ug/kg	137	Q
191-24-2	Benzo[g,h,i]perylene	EPA 8270	ND	330	ug/kg	z	

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

E = The concentration of this analyte exceeds the calibration range of the instrument.

Q = Analyte concentration and/or MDL is greater than the 1996 MTCA B Limits.

z = Analyte not listed in 1996 MTCA Method B.



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Analytical Report

Report Date: 11/05/97
 Sample Collected: 09/19/97
 Received Date: 09/22/97

Facility: Regulatory Affairs
 Job Number: 97090170

Project Name: PHILIP
 Project No:

Client ID: CIA-10-6

Lab ID: AA27807

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	ND	10	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	10	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	ND	10	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	10	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	10	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	10	ug/kg	24000000
306-83-2	1,1-DichloroTrifluoroethane	EPA 8260	ND	50	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	10	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	50	ug/kg	
67-64-1	Acetone	EPA 8260	ND	50	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	ND	10	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	ND	50	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	ND	50	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	ND	50	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	50	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	ND	10	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	ND	10	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	10	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	ND	10	ug/kg	z
107-02-8	Acrolien	EPA 8260	ND	200	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	10	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	15.6	10	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	ND	50	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	10	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	10	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	125	10	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	10	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	10	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	10	ug/kg	11000
71-43-2	Benzene	EPA 8260	ND	10	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	ND	20	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	ND	10	ug/kg	14700



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Client ID: CIA-10-6

Lab ID: AA27807

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
74-95-3	Dibromomethane	EPA 8260	ND	10	ug/kg	z
75-27-4	Bromodichloromethane	EPA 8260	ND	10	ug/kg	16100
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	10	ug/kg	z
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	10	ug/kg	z
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	50	ug/kg	64000000
108-88-3	Toluene	EPA 8260	27.2	20	ug/kg	16000000
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	10	ug/kg	143
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	10	ug/kg	z
79-00-5	1,1,2-Trichloroethane	EPA 8260	ND	10	ug/kg	17500
142-28-9	1,3-Dichloropropane	EPA 8260	ND	10	ug/kg	z
127-18-4	Tetrachloroethene	EPA 8260	19.6	10	ug/kg	19600
591-78-6	2-Hexanone	EPA 8260	ND	50	ug/kg	z
106-93-4	1,2-Dibromoethane	EPA 8260	ND	10	ug/kg	1.18
124-48-1	Dibromochloromethane	EPA 8260	ND	10	ug/kg	11900
108-90-7	Chlorobenzene	EPA 8260	ND	10	ug/kg	1600000
100-41-4	Ethylbenzene	EPA 8260	33.8	10	ug/kg	8000000
106-42-3	m,p-Xylene	EPA 8260	161	10	ug/kg	z
95-47-6	o-Xylene	EPA 8260	32.1	10	ug/kg	16000000
100-42-5	Styrene	EPA 8260	ND	10	ug/kg	33300
75-25-2	Bromoform	EPA 8260	ND	10	ug/kg	127000
98-82-8	Isopropylbenzene	EPA 8260	ND	10	ug/kg	z
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	30	ug/kg	5000
108-86-1	Bromobenzene	EPA 8260	ND	10	ug/kg	z
103-65-1	n-propylbenzene	EPA 8260	15.7	10	ug/kg	z
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	30.9	10	ug/kg	z
95-49-8	2-Chlorotoluene	EPA 8260	ND	10	ug/kg	1600000
106-43-4	4-Chlorotoluene	EPA 8260	ND	10	ug/kg	z
98-06-6	tert-Butylbenzene	EPA 8260	ND	10	ug/kg	z
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	101	10	ug/kg	z
135-98-8	sec-Butylbenzene	EPA 8260	ND	10	ug/kg	z
541-73-1	1,3-Dichlorobenzene	EPA 8260	ND	10	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8260	ND	10	ug/kg	41700
104-51-8	n-Butylbenzene	EPA 8260	ND	10	ug/kg	z



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Project Name: PHILIP
 Project No:

Client ID: CIA-10-6

Lab ID: AA27807

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
99-87-6	p-Isopropyltoluene	EPA 8260	ND	10	ug/kg	z
95-50-1	1,2-Dichlorobenzene	EPA 8260	ND	10	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	50	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	ND	10	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	10	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	ND	50	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	ND	10	ug/kg	z

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

E = The concentration of this analyte exceeds the calibration range of the instrument.

Q = Analyte concentration and/or MDL is greater than the 1996 MTCA B Limits.

z = Analyte not listed in 1996 MTCA Method B.

Data Reviewed by: SM

Data Reported by: Stentz



Philip Services 955 Powell Ave. SW Renton, WA 98055	Project: PSC Lab-Washougal Project Number: none Project Manager: Hannah Thomas	Sampled: 10/24/97 Received: 10/24/97 Reported: 11/5/97 10:10
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**Semivolatile Organic Compounds by EPA Method 8270B
North Creek Analytical - Bothell**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
AA27807				B710460-02			Soil	
Acetophenone	1070725	10/24/97	10/24/97		0.500	ND	mg/kg	1
Azobenzene	"	"	"		0.100	ND	"	3
Benzidine	"	"	"		0.100	ND	"	3
N-Nitrosodimethylamine	"	"	"			ND	"	
Acenaphthene	"	"	"		0.100	ND	"	2
Acenaphthylene	"	"	"		0.100	ND	"	2
Aniline	"	"	"		0.100	ND	"	
Anthracene	"	"	"		0.100	ND	"	2
Benzoic Acid	"	"	"		0.500	ND	"	
Benzo (a) anthracene	"	"	"		0.100	ND	"	2
Benzo (b) fluoranthene	"	"	"		0.100	ND	"	2
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	2
Benzo (ghi) perylene	"	"	"		0.100	ND	"	2
Benzo (a) pyrene	"	"	"		0.100	ND	"	2
Benzyl alcohol	"	"	"		0.100	ND	"	
Bis(2-chloroethoxy)methane	"	"	"		0.100	ND	"	
Bis(2-chloroethyl)ether	"	"	"		0.100	ND	"	
Bis(2-chloroisopropyl)ether	"	"	"		0.100	ND	"	
Bis(2-ethylhexyl)phthalate	"	"	"		0.500	ND	"	2
4-Bromophenyl phenyl ether	"	"	"		0.100	ND	"	2
Butyl benzyl phthalate	"	"	"		0.100	ND	"	2
Carbazole	"	"	"		0.500	ND	"	2
4-Chloroaniline	"	"	"		0.100	ND	"	
2-Chloronaphthalene	"	"	"		0.100	ND	"	2
4-Chloro-3-methylphenol	"	"	"		0.100	ND	"	
2-Chlorophenol	"	"	"		0.100	ND	"	
4-Chlorophenyl phenyl ether	"	"	"		0.100	ND	"	2
Chrysene	"	"	"		0.100	ND	"	2
Dibenzo (a,h) anthracene	"	"	"		0.100	ND	"	2
Dibenzofuran	"	"	"		0.100	ND	"	2
Di-n-butyl phthalate	"	"	"		0.500	ND	"	2
1,3-Dichlorobenzene	"	"	"		0.100	ND	"	
1,4-Dichlorobenzene	"	"	"		0.100	ND	"	
1,2-Dichlorobenzene	"	"	"		0.100	ND	"	
3,3'-Dichlorobenzidine	"	"	"		5.00	ND	"	2
2,4-Dichlorophenol	"	"	"		0.100	ND	"	
Diethyl phthalate	"	"	"		0.100	ND	"	2
2,4-Dimethylphenol	"	"	"		0.100	ND	"	

North Creek Analytical, Inc.

*Refer to end of report for text of notes and definitions.

Kirk Gendron, Project Manager

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East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132



Philip Services
955 Powell Ave. SW
Renton, WA 98055

Project: PSC Lab-Washougal
Project Number: none
Project Manager: Hannah Thomas

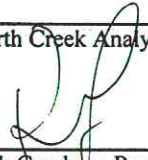
Sampled: 10/24/97
Received: 10/24/97
Reported: 11/5/97 10:10

**Semivolatile Organic Compounds by EPA Method 8270B
North Creek Analytical - Bothell**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
AA27807 (continued)								
				B710460-02			Soil	
Dimethyl phthalate	1070725	10/24/97	10/24/97		0.100	ND	mg/kg	2
4,6-Dinitro-2-methylphenol	"	"	"		0.500	ND	"	2
2,4-Dinitrophenol	"	"	"		0.500	ND	"	2
2,4-Dinitrotoluene	"	"	"		0.100	ND	"	2
2,6-Dinitrotoluene	"	"	"		0.100	ND	"	2
Di-n-octyl phthalate	"	"	"		0.500	ND	"	2
Fluoranthene	"	"	"		0.100	ND	"	2
Fluorene	"	"	"		0.100	ND	"	2
Hexachlorobenzene	"	"	"		0.100	ND	"	2
Hexachlorobutadiene	"	"	"		0.100	ND	"	
Hexachlorocyclopentadiene	"	"	"		0.100	ND	"	2
Hexachloroethane	"	"	"		0.100	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.100	ND	"	2
2-Methylnaphthalene	"	"	"		0.100	ND	"	
2-Methylphenol	"	"	"		0.100	ND	"	
3 & 4-Methylphenol	"	"	"		0.100	ND	"	
Naphthalene	"	"	"		0.100	ND	"	
2-Nitroaniline	"	"	"		0.500	ND	"	2
3-Nitroaniline	"	"	"		0.500	ND	"	2
4-Nitroaniline	"	"	"		0.500	ND	"	2
Nitrobenzene	"	"	"		0.100	ND	"	
2-Nitrophenol	"	"	"		0.100	ND	"	
4-Nitrophenol	"	"	"		0.500	ND	"	2
N-Nitrosodiphenylamine	"	"	"		0.200	ND	"	2
N-Nitrosodi-n-propylamine	"	"	"		0.100	ND	"	
Pentachlorophenol	"	"	"		0.500	ND	"	2
Phenanthrene	"	"	"		0.100	ND	"	2
Phenol	"	"	"		0.100	ND	"	
Pyrene	"	"	"		0.100	ND	"	2
1,2,4-Trichlorobenzene	"	"	"		0.100	ND	"	
2,4,5-Trichlorophenol	"	"	"		0.500	ND	"	2
2,4,6-Trichlorophenol	"	"	"		0.100	ND	"	2

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NORTH CREEK ANALYTICAL

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Philip Services
955 Powell Ave. SW
Renton, WA 98055

Project: PSC Lab-Washougal
Project Number: none
Project Manager: Hannah Thomas

Sampled: 10/24/97
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Reported: 11/5/97 10:10

Notes and Definitions

#	Note
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- 1 This compound is not associated with the calibration standard, therefore this value should be considered estimated.
- 2 The response of the internal standard associated with this compound was outside the method control limit, therefore this value should be considered estimated.
- 3 The response of the internal standard associated with this compound was outside the method control limits, therefore this value should be considered estimated.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- Recov. Recovery
- RPD Relative Percent Difference

North Creek Analytical, Inc.

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PHILIP

ENVIRONMENTAL

BY-PRODUCT RECOVERY GROUP
WESTERN REGION

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To: John Stiller
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Renton, WA 98055

Analytical Report

Report Date: 10/16/97
Sample Collected: 09/24/97
Received Date: 09/26/97

Facility: Regulatory Affairs
Job Number: 97090218

Project Name: CORRECTIVE
Project No: WASHOUGAL

Client ID: CIA-11-6

Lab ID: AA28198

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	ND	2	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	2	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	ND	2	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	2	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	2	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	2	ug/kg	24000000
306-83-2	1,1-DichloroTrifluoroethane	EPA 8260	ND	10	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	2	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	10	ug/kg	
67-64-1	Acetone	EPA 8260	29.0	10	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	ND	2	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	13.6	10	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	ND	10	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	9.68	10	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	10	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	ND	2	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	3.53	2	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	2	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	7.05	2	ug/kg	z
107-02-8	Acrolien	EPA 8260	ND	39	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	2	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	16.4	2	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	ND	10	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	2	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	2	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	35.2	2	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	2	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	2	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	2	ug/kg	11000
71-43-2	Benzene	EPA 8260	ND	2	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	8.70	4	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	4.87	2	ug/kg	14700

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Project No: WASHOUGAL

Client ID: CIA-11-6

Lab ID: AA28198

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
74-95-3	Dibromomethane	EPA 8260	ND	2	ug/kg	z
75-27-4	Bromodichloromethane	EPA 8260	ND	2	ug/kg	16100
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	2	ug/kg	z
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	2	ug/kg	z
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	10	ug/kg	64000000
108-88-3	Toluene	EPA 8260	ND	4	ug/kg	16000000
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	2	ug/kg	143
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	2	ug/kg	z
79-00-5	1,1,2-Trichloroethane	EPA 8260	ND	2	ug/kg	17500
142-28-9	1,3-Dichloropropane	EPA 8260	ND	2	ug/kg	z
127-18-4	Tetrachloroethene	EPA 8260	202	2	ug/kg	19600
591-78-6	2-Hexanone	EPA 8260	ND	10	ug/kg	z
106-93-4	1,2-Dibromoethane	EPA 8260	ND	2	ug/kg	1.18
124-48-1	Dibromochloromethane	EPA 8260	ND	2	ug/kg	11900
108-90-7	Chlorobenzene	EPA 8260	ND	2	ug/kg	1600000
100-41-4	Ethylbenzene	EPA 8260	7.18	2	ug/kg	8000000
106-42-3	m,p-Xylene	EPA 8260	17.6	2	ug/kg	z
95-47-6	o-Xylene	EPA 8260	56.3	2	ug/kg	16000000
100-42-5	Styrene	EPA 8260	ND	2	ug/kg	33300
75-25-2	Bromoform	EPA 8260	ND	2	ug/kg	127000
98-82-8	Isopropylbenzene	EPA 8260	11.0	2	ug/kg	z
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	6	ug/kg	5000
108-86-1	Bromobenzene	EPA 8260	ND	2	ug/kg	z
103-65-1	n-propylbenzene	EPA 8260	58.4	2	ug/kg	z
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	385	2	ug/kg	z
95-49-8	2-Chlorotoluene	EPA 8260	ND	2	ug/kg	1600000
106-43-4	4-Chlorotoluene	EPA 8260	ND	2	ug/kg	z
98-06-6	tert-Butylbenzene	EPA 8260	ND	2	ug/kg	z
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	38.4	2	ug/kg	z
135-98-8	sec-Butylbenzene	EPA 8260	48.7	2	ug/kg	z
541-73-1	1,3-Dichlorobenzene	EPA 8260	3.12	2	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8260	3.23	2	ug/kg	41700
104-51-8	n-Butylbenzene	EPA 8260	60.5	2	ug/kg	z
99-87-6	p-Isopropyltoluene	EPA 8260	73.4	2	ug/kg	z

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Lab ID: AA28198

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
95-50-1	1,2-Dichlorobenzene	EPA 8260	8.14	2	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	10	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	ND	2	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	2	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	ND	10	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	2.41	2	ug/kg	z

EPA 8260/624 Volatile

1,2-Dichloroethane-D4	EPA 8260	102	%
Toluene-D8	EPA 8260	90.0	%
4-Bromofluorobenzene	EPA 8260	186	%

EPA 8270 Solid

62-53-3	Analine	EPA 8270	ND	1700	ug/kg	175000
111-44-4	bis(2-Chloroethyl)ether	EPA 8270	ND	330	ug/kg	909
108-95-2	Phenol	EPA 8270	ND	330	ug/kg	48000000
95-57-8	2-Chlorophenol	EPA 8270	ND	330	ug/kg	400000
541-73-1	1,3-Dichlorobenzene	EPA 8270	ND	330	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8270	ND	330	ug/kg	41700
95-50-1	1,2-Dichlorobenzene	EPA 8270	ND	330	ug/kg	7200000
100-51-6	Benzyl alcohol	EPA 8270	ND	670	ug/kg	24000000
39638-32-9	bis(2-chloroisopropyl)ether	EPA 8270	ND	330	ug/kg	3200000
95-48-7	2-Methylphenol	EPA 8270	ND	330	ug/kg	4000000
98-86-2	Acetophenone	EPA 8270	ND	1700	ug/kg	8000000
67-72-1	Hexachloroethane	EPA 8270	ND	330	ug/kg	71400
621-64-7	N-Nitroso-di-n-propylamine	EPA 8270	ND	330	ug/kg	143
106-44-5	4-Methylphenol	EPA 8270	ND	330	ug/kg	400000
98-95-3	Nitrobenzene	EPA 8270	ND	330	ug/kg	40000
78-59-1	Isophorone	EPA 8270	ND	330	ug/kg	1050000
88-75-5	2-Nitrophenol	EPA 8270	ND	330	ug/kg	z
105-67-9	2,4-Dimethylphenol	EPA 8270	ND	330	ug/kg	1600000
111-91-1	bis(2-Chloroethoxy)methane	EPA 8270	ND	330	ug/kg	z
120-83-2	2,4-Dichlorophenol	EPA 8270	ND	330	ug/kg	240000
120-82-1	1,2,4-Trichlorobenzene	EPA 8270	ND	330	ug/kg	800000
91-20-3	Naphthalene	EPA 8270	ND	330	ug/kg	3200000

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Lab ID: AA28198

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
106-47-8	4-Chloroaniline	EPA 8270	ND	670	ug/kg	320000
87-68-3	Hexachlorobutadiene	EPA 8270	ND	330	ug/kg	12800
65-85-0	Benzoic Acid	EPA 8270	ND	1700	ug/kg	32000000
59-50-7	4-Chloro-3-methylphenol	EPA 8270	ND	670	ug/kg	z
91-57-6	2-Methylnaphthalene	EPA 8270	ND	330	ug/kg	z
77-47-4	Hexachlorocyclopentadiene	EPA 8270	ND	330	ug/kg	560000
88-06-2	2,4,6-Trichlorophenol	EPA 8270	ND	330	ug/kg	90900
95-95-4	2,4,5-Trichlorophenol	EPA 8270	ND	330	ug/kg	8000000
91-58-7	2-Chloronaphthalene	EPA 8270	ND	330	ug/kg	6400
88-74-4	2-Nitroaniline	EPA 8270	ND	670	ug/kg	z
208-96-8	Acenaphthylene	EPA 8270	ND	330	ug/kg	z
131-11-3	Dimethylphthalate	EPA 8270	ND	330	ug/kg	80000000
606-20-2	2,6-Dinitrotoluene	EPA 8270	ND	330	ug/kg	80000
83-32-9	Acenaphthene	EPA 8270	ND	330	ug/kg	4800000
99-09-2	3-Nitroaniline	EPA 8270	ND	1700	ug/kg	z
51-28-5	2,4-Dinitrophenol	EPA 8270	ND	1700	ug/kg	160000
132-64-9	Dibenzofuran	EPA 8270	ND	1700	ug/kg	z
121-14-2	2,4-Dinitrotoluene	EPA 8270	ND	330	ug/kg	160000
100-02-7	4-Nitrophenol	EPA 8270	ND	330	ug/kg	z
86-73-7	Fluorene	EPA 8270	ND	330	ug/kg	3200000
7005-72-3	4-Chlorophenyl-phenylether	EPA 8270	ND	330	ug/kg	z
84-66-2	Diethylphthalate	EPA 8270	ND	330	ug/kg	64000000
100-01-6	4-Nitroaniline	EPA 8270	ND	1700	ug/kg	z
534-52-1	4,6-Dinitro-2-methylphenol	EPA 8270	ND	1700	ug/kg	z
86-30-6	n-Nitrosodiphenylamine	EPA 8270	ND	330	ug/kg	204000
103-33-3	Azobenzene	EPA 8270	ND	330	ug/kg	z
101-55-3	4-Bromophenyl-phenylether	EPA 8270	ND	330	ug/kg	z
118-74-1	Hexachlorobenzene	EPA 8270	ND	330	ug/kg	625
87-86-5	Pentachlorophenol	EPA 8270	ND	1700	ug/kg	8330
85-01-8	Phenanthrene	EPA 8270	ND	330	ug/kg	z
120-12-7	Anthracene	EPA 8270	ND	330	ug/kg	24000000
84-74-2	Di-n-butylphthalate	EPA 8270	ND	330	ug/kg	8000000
206-44-0	Fluoranthene	EPA 8270	ND	330	ug/kg	3200000
92-87-5	Benzidine	EPA 8270	ND	330	ug/kg	4.35

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Lab ID: AA28198

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits	
129-00-0	Pyrene	EPA 8270	ND	330	ug/kg	2400000	
85-68-7	Butylbenzylphthalate	EPA 8270	ND	330	ug/kg	16000000	
91-94-1	3,3'-Dichlorobenzidine	EPA 8270	ND	330	ug/kg	2220	
56-55-3	Benzo[a]anthracene	EPA 8270	ND	670	ug/kg	137	Q
218-01-9	Chrysene	EPA 8270	ND	330	ug/kg	137	Q
117-81-7	bis(2-Ethylhexyl)phthalate	EPA 8270	ND	1700	ug/kg	71400	
117-84-0	Di-n-octylphthalate	EPA 8270	ND	330	ug/kg	1600000	
205-99-2	Benzo[b]fluoranthene	EPA 8270	ND	330	ug/kg	137	Q
207-08-9	Benzo[k]fluoranthene	EPA 8270	ND	330	ug/kg	137	Q
50-32-8	Benzo[a]pyrene	EPA 8270	ND	330	ug/kg	137	Q
193-39-5	Indeno[1,2,3-cd]pyrene	EPA 8270	ND	330	ug/kg	137	Q
53-70-3	Dibenz[a,h]anthracene	EPA 8270	ND	330	ug/kg	137	Q
191-24-2	Benzo[g,h,i]perylene	EPA 8270	ND	330	ug/kg	z	

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

E = The concentration of this analyte exceeds the calibration range of the instrument.

Q = Analyte concentration and/or MDL is greater than the 1996 MTCA B Limits.

z = Analyte not listed in 1996 MTCA Method B.

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Analytical Report

Report Date: 10/16/97
 Sample Collected: 09/24/97
 Received Date: 09/26/97

Facility: Regulatory Affairs
 Job Number: 97090218

Project Name: CORRECTIVE
 Project No: WASHOUGAL

Client ID: CIA-13-6

Lab ID: AA28199

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	ND	2	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	2	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	2.40	2	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	2	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	2	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	2	ug/kg	24000000
306-83-2	1,1-DichloroTrifluoroethane	EPA 8260	ND	11	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	2	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	11	ug/kg	
67-64-1	Acetone	EPA 8260	83.3	11	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	ND	2	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	31.8	11	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	ND	11	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	21.4	11	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	11	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	ND	2	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	4.74	2	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	2	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	43.7	2	ug/kg	z
107-02-8	Acrolin	EPA 8260	ND	45	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	2	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	37.4	2	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	ND	11	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	2	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	2	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	88.5	2	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	2	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	2	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	2	ug/kg	11000
71-43-2	Benzene	EPA 8260	ND	2	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	18.5	5	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	ND	2	ug/kg	14700

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Project No: WASHOUGAL

Client ID: CIA-13-6

Lab ID: AA28199

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits	
74-95-3	Dibromomethane	EPA 8260	ND	2	ug/kg	z	
75-27-4	Bromodichloromethane	EPA 8260	ND	2	ug/kg	16100	
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	2	ug/kg	z	
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	2	ug/kg	z	
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	11	ug/kg	64000000	
108-88-3	Toluene	EPA 8260	33.4	5	ug/kg	16000000	
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	2	ug/kg	143	
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	2	ug/kg	z	
79-00-5	1,1,2-Trichloroethane	EPA 8260	ND	2	ug/kg	17500	
142-28-9	1,3-Dichloropropane	EPA 8260	ND	2	ug/kg	z	
127-18-4	Tetrachloroethene	EPA 8260	438	2	ug/kg	19600	
591-78-6	2-Hexanone	EPA 8260	54.8	11	ug/kg	z	
106-93-4	1,2-Dibromoethane	EPA 8260	ND	2	ug/kg	1.18	Q
124-48-1	Dibromochloromethane	EPA 8260	ND	2	ug/kg	11900	
108-90-7	Chlorobenzene	EPA 8260	ND	2	ug/kg	1600000	
100-41-4	Ethylbenzene	EPA 8260	128	2	ug/kg	8000000	
106-42-3	m,p-Xylene	EPA 8260	135	2	ug/kg	z	
95-47-6	o-Xylene	EPA 8260	437	2	ug/kg	16000000	
100-42-5	Styrene	EPA 8260	ND	2	ug/kg	33300	
75-25-2	Bromoform	EPA 8260	ND	2	ug/kg	127000	
98-82-8	Isopropylbenzene	EPA 8260	19.4	2	ug/kg	z	
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	7	ug/kg	5000	
108-86-1	Bromobenzene	EPA 8260	ND	2	ug/kg	z	
103-65-1	n-propylbenzene	EPA 8260	36.7	2	ug/kg	z	
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	198	2	ug/kg	z	
95-49-8	2-Chlorotoluene	EPA 8260	ND	2	ug/kg	1600000	
106-43-4	4-Chlorotoluene	EPA 8260	ND	2	ug/kg	z	
98-06-6	tert-Butylbenzene	EPA 8260	ND	2	ug/kg	z	
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	25.8	2	ug/kg	z	
135-98-8	sec-Butylbenzene	EPA 8260	13.6	2	ug/kg	z	
541-73-1	1,3-Dichlorobenzene	EPA 8260	ND	2	ug/kg	z	
106-46-7	1,4-Dichlorobenzene	EPA 8260	2.77	2	ug/kg	41700	
104-51-8	n-Butylbenzene	EPA 8260	40.0	2	ug/kg	z	
99-87-6	p-Isopropyltoluene	EPA 8260	20.5	2	ug/kg	z	

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Client ID: CIA-13-6

Lab ID: AA28199

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
95-50-1	1,2-Dichlorobenzene	EPA 8260	26.9	2	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	11	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	ND	2	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	2	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	13.1	11	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	ND	2	ug/kg	z
EPA 8260/624 Volatile						
	1,2-Dichloroethane-D4	EPA 8260	101		%	
	Toluene-D8	EPA 8260	89.7		%	
	4-Bromofluorobenzene	EPA 8260	110		%	
EPA 8270 Solid						
62-53-3	Aniline	EPA 8270	ND	1700	ug/kg	175000
111-44-4	bis(2-Chloroethyl)ether	EPA 8270	ND	330	ug/kg	909
108-95-2	Phenol	EPA 8270	ND	330	ug/kg	48000000
95-57-8	2-Chlorophenol	EPA 8270	ND	330	ug/kg	400000
541-73-1	1,3-Dichlorobenzene	EPA 8270	ND	330	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8270	ND	330	ug/kg	41700
95-50-1	1,2-Dichlorobenzene	EPA 8270	ND	330	ug/kg	7200000
100-51-6	Benzyl alcohol	EPA 8270	ND	670	ug/kg	24000000
39638-32-9	bis(2-chloroisopropyl)ether	EPA 8270	ND	330	ug/kg	3200000
95-48-7	2-Methylphenol	EPA 8270	ND	330	ug/kg	4000000
98-86-2	Acetophenone	EPA 8270	ND	1700	ug/kg	8000000
67-72-1	Hexachloroethane	EPA 8270	ND	330	ug/kg	71400
621-64-7	N-Nitroso-di-n-propylamine	EPA 8270	ND	330	ug/kg	143
106-44-5	4-Methylphenol	EPA 8270	ND	330	ug/kg	400000
98-95-3	Nitrobenzene	EPA 8270	ND	330	ug/kg	40000
78-59-1	Isophorone	EPA 8270	ND	330	ug/kg	1050000
88-75-5	2-Nitrophenol	EPA 8270	ND	330	ug/kg	z
105-67-9	2,4-Dimethylphenol	EPA 8270	ND	330	ug/kg	1600000
111-91-1	bis(2-Chloroethoxy)methane	EPA 8270	ND	330	ug/kg	z
120-83-2	2,4-Dichlorophenol	EPA 8270	ND	330	ug/kg	240000
120-82-1	1,2,4-Trichlorobenzene	EPA 8270	ND	330	ug/kg	800000
91-20-3	Naphthalene	EPA 8270	ND	330	ug/kg	3200000

Q

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CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
106-47-8	4-Chloroaniline	EPA 8270	ND	670	ug/kg	320000
87-68-3	Hexachlorobutadiene	EPA 8270	ND	330	ug/kg	12800
65-85-0	Benzoic Acid	EPA 8270	ND	1700	ug/kg	32000000
59-50-7	4-Chloro-3-methylphenol	EPA 8270	ND	670	ug/kg	z
91-57-6	2-Methylnaphthalene	EPA 8270	360	330	ug/kg	z
77-47-4	Hexachlorocyclopentadiene	EPA 8270	ND	330	ug/kg	560000
88-06-2	2,4,6-Trichlorophenol	EPA 8270	ND	330	ug/kg	90900
95-95-4	2,4,5-Trichlorophenol	EPA 8270	ND	330	ug/kg	8000000
91-58-7	2-Chloronaphthalene	EPA 8270	ND	330	ug/kg	6400
88-74-4	2-Nitroaniline	EPA 8270	ND	670	ug/kg	z
208-96-8	Acenaphthylene	EPA 8270	ND	330	ug/kg	z
131-11-3	Dimethylphthalate	EPA 8270	ND	330	ug/kg	80000000
606-20-2	2,6-Dinitrotoluene	EPA 8270	ND	330	ug/kg	80000
83-32-9	Acenaphthene	EPA 8270	ND	330	ug/kg	4800000
99-09-2	3-Nitroaniline	EPA 8270	ND	1700	ug/kg	z
51-28-5	2,4-Dinitrophenol	EPA 8270	ND	1700	ug/kg	160000
132-64-9	Dibenzofuran	EPA 8270	ND	1700	ug/kg	z
121-14-2	2,4-Dinitrotoluene	EPA 8270	ND	330	ug/kg	160000
100-02-7	4-Nitrophenol	EPA 8270	ND	330	ug/kg	z
86-73-7	Fluorene	EPA 8270	ND	330	ug/kg	3200000
7005-72-3	4-Chlorophenyl-phenylether	EPA 8270	ND	330	ug/kg	z
84-66-2	Diethylphthalate	EPA 8270	ND	330	ug/kg	64000000
100-01-6	4-Nitroaniline	EPA 8270	ND	1700	ug/kg	z
534-52-1	4,6-Dinitro-2-methylphenol	EPA 8270	ND	1700	ug/kg	z
86-30-6	n-Nitrosodiphenylamine	EPA 8270	ND	330	ug/kg	204000
103-33-3	Azobenzene	EPA 8270	ND	330	ug/kg	z
101-55-3	4-Bromophenyl-phenylether	EPA 8270	ND	330	ug/kg	z
118-74-1	Hexachlorobenzene	EPA 8270	ND	330	ug/kg	625
87-86-5	Pentachlorophenol	EPA 8270	ND	1700	ug/kg	8330
85-01-8	Phenanthrene	EPA 8270	ND	330	ug/kg	z
120-12-7	Anthracene	EPA 8270	ND	330	ug/kg	24000000
84-74-2	Di-n-butylphthalate	EPA 8270	ND	330	ug/kg	8000000
206-44-0	Fluoranthene	EPA 8270	ND	330	ug/kg	3200000
92-87-5	Benzidine	EPA 8270	ND	330	ug/kg	4.35

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Project Name: CORRECTIVE
Project No: WASHOUGAL

Client ID: CIA-13-6

Lab ID: AA28199

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>	
129-00-0	Pyrene	EPA 8270	ND	330	ug/kg	2400000	
85-68-7	Butylbenzylphthalate	EPA 8270	ND	330	ug/kg	16000000	
91-94-1	3,3'-Dichlorobenzidine	EPA 8270	ND	330	ug/kg	2220	
56-55-3	Benzo[a]anthracene	EPA 8270	ND	670	ug/kg	137	Q
218-01-9	Chrysene	EPA 8270	ND	330	ug/kg	137	Q
117-81-7	bis(2-Ethylhexyl)phthalate	EPA 8270	ND	1700	ug/kg	71400	
117-84-0	Di-n-octylphthalate	EPA 8270	ND	330	ug/kg	1600000	
205-99-2	Benzo[b]fluoranthene	EPA 8270	ND	330	ug/kg	137	Q
207-08-9	Benzo[k]fluoranthene	EPA 8270	ND	330	ug/kg	137	Q
50-32-8	Benzo[a]pyrene	EPA 8270	ND	330	ug/kg	137	Q
193-39-5	Indeno[1,2,3-cd]pyrene	EPA 8270	ND	330	ug/kg	137	Q
53-70-3	Dibenz[a,h]anthracene	EPA 8270	ND	330	ug/kg	137	Q
191-24-2	Benzo[g,h,i]perylene	EPA 8270	ND	330	ug/kg	z	

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

E = The concentration of this analyte exceeds the calibration range of the instrument.

Q = Analyte concentration and/or MDL is greater than the 1996 MTCA B Limits.

z = Analyte not listed in 1996 MTCA Method B.

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Received Date: 09/26/97

Facility: Regulatory Affairs
Job Number: 97090218

Project Name: CORRECTIVE
Project No: WASHOUGAL

Client ID: CIA-15-6

Lab ID: AA28200

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	ND	2	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	2	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	5.07	2	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	2	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	2	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	2	ug/kg	24000000
306-83-2	1,1-DichloroTrifluoroethane	EPA 8260	ND	11	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	2	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	11	ug/kg	
67-64-1	Acetone	EPA 8260	14.0	11	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	ND	2	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	ND	11	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	ND	11	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	ND	11	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	11	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	ND	2	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	8.98	2	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	2	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	9.01	2	ug/kg	z
107-02-8	Acrolien	EPA 8260	ND	43	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	2	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	37.3	2	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	ND	11	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	2	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	2	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	15.3	2	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	2	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	2	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	2	ug/kg	11000
71-43-2	Benzene	EPA 8260	ND	2	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	ND	4	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	ND	2	ug/kg	14700

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Facility: Regulatory Affairs
Job Number: 97090218

Project Name: CORRECTIVE
Project No: WASHOUGAL

Client ID: CIA-15-6

Lab ID: AA28200

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
74-95-3	Dibromomethane	EPA 8260	ND	2	ug/kg	z
75-27-4	Bromodichloromethane	EPA 8260	ND	2	ug/kg	16100
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	2	ug/kg	z
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	2	ug/kg	z
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	11	ug/kg	64000000
108-88-3	Toluene	EPA 8260	33.3	4	ug/kg	16000000
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	2	ug/kg	143
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	2	ug/kg	z
79-00-5	1,1,2-Trichloroethane	EPA 8260	2.60	2	ug/kg	17500
142-28-9	1,3-Dichloropropane	EPA 8260	ND	2	ug/kg	z
127-18-4	Tetrachloroethene	EPA 8260	11.9	2	ug/kg	19600
591-78-6	2-Hexanone	EPA 8260	ND	11	ug/kg	z
106-93-4	1,2-Dibromoethane	EPA 8260	ND	2	ug/kg	1.18
124-48-1	Dibromochloromethane	EPA 8260	ND	2	ug/kg	11900
108-90-7	Chlorobenzene	EPA 8260	ND	2	ug/kg	1600000
100-41-4	Ethylbenzene	EPA 8260	40.4	2	ug/kg	8000000
106-42-3	m,p-Xylene	EPA 8260	236	2	ug/kg	z
95-47-6	o-Xylene	EPA 8260	184	2	ug/kg	16000000
100-42-5	Styrene	EPA 8260	ND	2	ug/kg	33300
75-25-2	Bromoform	EPA 8260	ND	2	ug/kg	127000
98-82-8	Isopropylbenzene	EPA 8260	4.24	2	ug/kg	z
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	6	ug/kg	5000
108-86-1	Bromobenzene	EPA 8260	ND	2	ug/kg	z
103-65-1	n-propylbenzene	EPA 8260	7.37	2	ug/kg	z
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	69.3	2	ug/kg	z
95-49-8	2-Chlorotoluene	EPA 8260	ND	2	ug/kg	1600000
106-43-4	4-Chlorotoluene	EPA 8260	ND	2	ug/kg	z
98-06-6	tert-Butylbenzene	EPA 8260	ND	2	ug/kg	z
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	40.1	2	ug/kg	z
135-98-8	sec-Butylbenzene	EPA 8260	ND	2	ug/kg	z
541-73-1	1,3-Dichlorobenzene	EPA 8260	ND	2	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8260	ND	2	ug/kg	41700
104-51-8	n-Butylbenzene	EPA 8260	ND	2	ug/kg	z
99-87-6	p-Isopropyltoluene	EPA 8260	5.01	2	ug/kg	z

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ENVIRONMENTAL

BY-PRODUCT RECOVERY GROUP
WESTERN REGION

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FAX 206.227.6196

To: John Stiller
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Renton, WA 98055

Analytical Report

Report Date: 10/16/97
Sample Collected: 09/24/97
Received Date: 09/26/97

Facility: Regulatory Affairs
Job Number: 97090218

Project Name: CORRECTIVE
Project No: WASHOUGAL

Client ID: CIA-15-6

Lab ID: AA28200

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
95-50-1	1,2-Dichlorobenzene	EPA 8260	13.1	2	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	11	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	ND	2	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	2	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	31.1	11	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	ND	2	ug/kg	z
EPA 8260/624 Volatile						
	1,2-Dichloroethane-D4	EPA 8260	103		%	
	Toluene-D8	EPA 8260	78.5		%	
	4-Bromofluorobenzene	EPA 8260	119		%	
EPA 8270 Solid						
62-53-3	Aniline	EPA 8270	ND	1700	ug/kg	175000
111-44-4	bis(2-Chloroethyl)ether	EPA 8270	ND	330	ug/kg	909
108-95-2	Phenol	EPA 8270	ND	330	ug/kg	48000000
95-57-8	2-Chlorophenol	EPA 8270	ND	330	ug/kg	400000
541-73-1	1,3-Dichlorobenzene	EPA 8270	ND	330	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8270	ND	330	ug/kg	41700
95-50-1	1,2-Dichlorobenzene	EPA 8270	ND	330	ug/kg	7200000
100-51-6	Benzyl alcohol	EPA 8270	ND	670	ug/kg	24000000
39638-32-9	bis(2-chloroisopropyl)ether	EPA 8270	ND	330	ug/kg	3200000
95-48-7	2-Methylphenol	EPA 8270	ND	330	ug/kg	4000000
98-86-2	Acetophenone	EPA 8270	ND	1700	ug/kg	8000000
67-72-1	Hexachloroethane	EPA 8270	ND	330	ug/kg	71400
621-64-7	N-Nitroso-di-n-propylamine	EPA 8270	ND	330	ug/kg	143
106-44-5	4-Methylphenol	EPA 8270	ND	330	ug/kg	400000
98-95-3	Nitrobenzene	EPA 8270	ND	330	ug/kg	40000
78-59-1	Isophorone	EPA 8270	ND	330	ug/kg	1050000
88-75-5	2-Nitrophenol	EPA 8270	ND	330	ug/kg	z
105-67-9	2,4-Dimethylphenol	EPA 8270	ND	330	ug/kg	1600000
111-91-1	bis(2-Chloroethoxy)methane	EPA 8270	ND	330	ug/kg	z
120-83-2	2,4-Dichlorophenol	EPA 8270	ND	330	ug/kg	240000
120-82-1	1,2,4-Trichlorobenzene	EPA 8270	ND	330	ug/kg	800000
91-20-3	Naphthalene	EPA 8270	ND	330	ug/kg	3200000

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Lab ID: AA28200

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
106-47-8	4-Chloroaniline	EPA 8270	ND	670	ug/kg	320000
87-68-3	Hexachlorobutadiene	EPA 8270	ND	330	ug/kg	12800
65-85-0	Benzoic Acid	EPA 8270	ND	1700	ug/kg	32000000
59-50-7	4-Chloro-3-methylphenol	EPA 8270	ND	670	ug/kg	z
91-57-6	2-Methylnaphthalene	EPA 8270	ND	330	ug/kg	z
77-47-4	Hexachlorocyclopentadiene	EPA 8270	ND	330	ug/kg	560000
88-06-2	2,4,6-Trichlorophenol	EPA 8270	ND	330	ug/kg	90900
95-95-4	2,4,5-Trichlorophenol	EPA 8270	ND	330	ug/kg	8000000
91-58-7	2-Chloronaphthalene	EPA 8270	ND	330	ug/kg	6400
88-74-4	2-Nitroaniline	EPA 8270	ND	670	ug/kg	z
208-96-8	Acenaphthylene	EPA 8270	ND	330	ug/kg	z
131-11-3	Dimethylphthalate	EPA 8270	ND	330	ug/kg	80000000
606-20-2	2,6-Dinitrotoluene	EPA 8270	ND	330	ug/kg	80000
83-32-9	Acenaphthene	EPA 8270	ND	330	ug/kg	4800000
99-09-2	3-Nitroaniline	EPA 8270	ND	1700	ug/kg	z
51-28-5	2,4-Dinitrophenol	EPA 8270	ND	1700	ug/kg	160000
132-64-9	Dibenzofuran	EPA 8270	ND	1700	ug/kg	z
121-14-2	2,4-Dinitrotoluene	EPA 8270	ND	330	ug/kg	160000
100-02-7	4-Nitrophenol	EPA 8270	ND	330	ug/kg	z
86-73-7	Fluorene	EPA 8270	ND	330	ug/kg	3200000
7005-72-3	4-Chlorophenyl-phenylether	EPA 8270	ND	330	ug/kg	z
84-66-2	Diethylphthalate	EPA 8270	ND	330	ug/kg	64000000
100-01-6	4-Nitroaniline	EPA 8270	ND	1700	ug/kg	z
534-52-1	4,6-Dinitro-2-methylphenol	EPA 8270	ND	1700	ug/kg	z
86-30-6	n-Nitrosodiphenylamine	EPA 8270	ND	330	ug/kg	204000
103-33-3	Azobenzene	EPA 8270	ND	330	ug/kg	z
101-55-3	4-Bromophenyl-phenylether	EPA 8270	ND	330	ug/kg	z
118-74-1	Hexachlorobenzene	EPA 8270	ND	330	ug/kg	625
87-86-5	Pentachlorophenol	EPA 8270	ND	1700	ug/kg	8330
85-01-8	Phenanthrene	EPA 8270	ND	330	ug/kg	z
120-12-7	Anthracene	EPA 8270	ND	330	ug/kg	24000000
84-74-2	Di-n-butylphthalate	EPA 8270	ND	330	ug/kg	8000000
206-44-0	Fluoranthene	EPA 8270	ND	330	ug/kg	3200000
92-87-5	Benzidine	EPA 8270	ND	330	ug/kg	4.35

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Facility: Regulatory Affairs
Job Number: 97090218

Project Name: CORRECTIVE
Project No: WASHOUGAL

Client ID: CIA-15-6

Lab ID: AA28200

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits	
129-00-0	Pyrene	EPA 8270	ND	330	ug/kg	2400000	
85-68-7	Butylbenzylphthalate	EPA 8270	ND	330	ug/kg	16000000	
91-94-1	3,3'-Dichlorobenzidine	EPA 8270	ND	330	ug/kg	2220	
56-55-3	Benzo[a]anthracene	EPA 8270	ND	670	ug/kg	137	Q
218-01-9	Chrysene	EPA 8270	ND	330	ug/kg	137	Q
117-81-7	bis(2-Ethylhexyl)phthalate	EPA 8270	ND	1700	ug/kg	71400	
117-84-0	Di-n-octylphthalate	EPA 8270	ND	330	ug/kg	1600000	
205-99-2	Benzo[b]fluoranthene	EPA 8270	ND	330	ug/kg	137	Q
207-08-9	Benzo[k]fluoranthene	EPA 8270	ND	330	ug/kg	137	Q
50-32-8	Benzo[a]pyrene	EPA 8270	ND	330	ug/kg	137	Q
193-39-5	Indeno[1,2,3-cd]pyrene	EPA 8270	ND	330	ug/kg	137	Q
53-70-3	Dibenz[a,h]anthracene	EPA 8270	ND	330	ug/kg	137	Q
191-24-2	Benzo[g,h,i]perylene	EPA 8270	ND	330	ug/kg	z	

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

E = The concentration of this analyte exceeds the calibration range of the instrument.

Q = Analyte concentration and/or MDL is greater than the 1996 MTCA B Limits.

z = Analyte not listed in 1996 MTCA Method B.

Data Reviewed by: SM

Data Reported by: [Signature]

SOIL BORING DATA AT MC-7



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Analytical Report

Report Date: 11/18/97
 Sample Collected: 09/15/97
 Received Date: 09/17/97

Facility: Regulatory Affairs
 Job Number: 97090140

Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB06-2

Lab ID: AA27599

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	ND	3	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	3	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	ND	3	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	3	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	3	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	3	ug/kg	24000000
306-83-2	1,1-Dichlorotrifluoroethane	EPA 8260	ND	14	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	3	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	14	ug/kg	
67-64-1	Acetone	EPA 8260	ND	14	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	ND	3	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	ND	14	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	ND	14	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	ND	14	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	14	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	ND	3	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	ND	3	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	3	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	ND	3	ug/kg	z
107-02-8	Acrolin	EPA 8260	ND	57	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	3	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	ND	3	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	ND	14	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	3	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	3	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	ND	3	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	3	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	3	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	3	ug/kg	11000
71-43-2	Benzene	EPA 8260	ND	3	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	ND	6	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	ND	3	ug/kg	14700



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 Project No: 16957

Client ID: IAB06-2

Lab ID: AA27599

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
74-95-3	Dibromomethane	EPA 8260	ND	3	ug/kg	z
75-27-4	Bromodichloromethane	EPA 8260	ND	3	ug/kg	16100
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	3	ug/kg	z
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	3	ug/kg	z
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	14	ug/kg	64000000
108-88-3	Toluene	EPA 8260	ND	6	ug/kg	16000000
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	3	ug/kg	143
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	3	ug/kg	z
79-00-5	1,1,2-Trichloroethane	EPA 8260	ND	3	ug/kg	17500
142-28-9	1,3-Dichloropropane	EPA 8260	ND	3	ug/kg	z
127-18-4	Tetrachloroethene	EPA 8260	ND	3	ug/kg	19600
591-78-6	2-Hexanone	EPA 8260	ND	14	ug/kg	z
106-93-4	1,2-Dibromoethane	EPA 8260	ND	3	ug/kg	1.18
124-48-1	Dibromochloromethane	EPA 8260	ND	3	ug/kg	11900
108-90-7	Chlorobenzene	EPA 8260	ND	3	ug/kg	1600000
100-41-4	Ethylbenzene	EPA 8260	ND	3	ug/kg	8000000
106-42-3	m,p-Xylene	EPA 8260	3.81	3	ug/kg	z
95-47-6	o-Xylene	EPA 8260	ND	3	ug/kg	16000000
100-42-5	Styrene	EPA 8260	ND	3	ug/kg	33300
75-25-2	Bromoform	EPA 8260	ND	3	ug/kg	127000
98-82-8	Isopropylbenzene	EPA 8260	ND	3	ug/kg	z
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	9	ug/kg	5000
108-86-1	Bromobenzene	EPA 8260	ND	3	ug/kg	z
103-65-1	n-propylbenzene	EPA 8260	ND	3	ug/kg	z
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	ND	3	ug/kg	z
95-49-8	2-Chlorotoluene	EPA 8260	ND	3	ug/kg	1600000
106-43-4	4-Chlorotoluene	EPA 8260	ND	3	ug/kg	z
98-06-6	tert-Butylbenzene	EPA 8260	ND	3	ug/kg	z
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	ND	3	ug/kg	z
135-98-8	sec-Butylbenzene	EPA 8260	ND	3	ug/kg	z
541-73-1	1,3-Dichlorobenzene	EPA 8260	ND	3	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8260	ND	3	ug/kg	41700
104-51-8	n-Butylbenzene	EPA 8260	ND	3	ug/kg	z



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Report Date: 11/18/97	Facility: Regulatory Affairs	Project Name: WASHOUGAL
Sample Collected: 09/15/97	Job Number: 97090140	Project No: 16957
Received Date: 09/17/97		

Client ID: IAB06-2

Lab ID: AA27599

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
99-87-6	p-Isopropyltoluene	EPA 8260	ND	3	ug/kg	z
95-50-1	1,2-Dichlorobenzene	EPA 8260	ND	3	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	14	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	ND	3	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	3	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	ND	14	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	ND	3	ug/kg	z
EPA 8270 Solid						
62-53-3	Aniline	EPA 8270	ND	167	ug/kg	175000
111-44-4	bis(2-Chloroethyl)ether	EPA 8270	ND	33	ug/kg	909
108-95-2	Phenol	EPA 8270	ND	33	ug/kg	48000000
95-57-8	2-Chlorophenol	EPA 8270	ND	33	ug/kg	400000
541-73-1	1,3-Dichlorobenzene	EPA 8270	ND	33	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8270	ND	33	ug/kg	41700
95-50-1	1,2-Dichlorobenzene	EPA 8270	ND	33	ug/kg	7200000
100-51-6	Benzyl alcohol	EPA 8270	ND	67	ug/kg	24000000
39638-32-9	bis(2-chloroisopropyl)ether	EPA 8270	ND	33	ug/kg	3200000
95-48-7	2-Methylphenol	EPA 8270	ND	33	ug/kg	4000000
98-86-2	Acetophenone	EPA 8270	ND	167	ug/kg	8000000
67-72-1	Hexachloroethane	EPA 8270	ND	33	ug/kg	71400
621-64-7	N-Nitroso-di-n-propylamine	EPA 8270	ND	33	ug/kg	143
106-44-5	4-Methylphenol	EPA 8270	ND	33	ug/kg	400000
98-95-3	Nitrobenzene	EPA 8270	ND	33	ug/kg	40000
78-59-1	Isophorone	EPA 8270	ND	33	ug/kg	1050000
88-75-5	2-Nitrophenol	EPA 8270	ND	33	ug/kg	z
105-67-9	2,4-Dimethylphenol	EPA 8270	ND	33	ug/kg	1600000
111-91-1	bis(2-Chloroethoxy)methane	EPA 8270	ND	33	ug/kg	z
120-83-2	2,4-Dichlorophenol	EPA 8270	ND	33	ug/kg	240000
120-82-1	1,2,4-Trichlorobenzene	EPA 8270	ND	33	ug/kg	800000
91-20-3	Naphthalene	EPA 8270	ND	33	ug/kg	3200000
106-47-8	4-Chloroaniline	EPA 8270	ND	67	ug/kg	320000
87-68-3	Hexachlorobutadiene	EPA 8270	ND	33	ug/kg	12800
65-85-0	Benzoic Acid	EPA 8270	ND	167	ug/kg	32000000



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Lab ID: AA27599

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
59-50-7	4-Chloro-3-methylphenol	EPA 8270	ND	67	ug/kg	z
91-57-6	2-Methylnaphthalene	EPA 8270	ND	33	ug/kg	z
77-47-4	Hexachlorocyclopentadiene	EPA 8270	ND	33	ug/kg	560000
88-06-2	2,4,6-Trichlorophenol	EPA 8270	ND	33	ug/kg	90900
95-95-4	2,4,5-Trichlorophenol	EPA 8270	ND	33	ug/kg	8000000
91-58-7	2-Chloronaphthalene	EPA 8270	ND	33	ug/kg	6400
88-74-4	2-Nitroaniline	EPA 8270	ND	67	ug/kg	z
208-96-8	Acenaphthylene	EPA 8270	ND	33	ug/kg	z
131-11-3	Dimethylphthalate	EPA 8270	ND	33	ug/kg	80000000
606-20-2	2,6-Dinitrotoluene	EPA 8270	ND	33	ug/kg	80000
83-32-9	Acenaphthene	EPA 8270	ND	33	ug/kg	4800000
99-09-2	3-Nitroaniline	EPA 8270	ND	167	ug/kg	z
51-28-5	2,4-Dinitrophenol	EPA 8270	ND	167	ug/kg	160000
132-64-9	Dibenzofuran	EPA 8270	ND	167	ug/kg	z
121-14-2	2,4-Dinitrotoluene	EPA 8270	ND	33	ug/kg	160000
100-02-7	4-Nitrophenol	EPA 8270	ND	33	ug/kg	z
86-73-7	Fluorene	EPA 8270	ND	33	ug/kg	3200000
7005-72-3	4-Chlorophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
84-66-2	Diethylphthalate	EPA 8270	ND	33	ug/kg	64000000
100-01-6	4-Nitroaniline	EPA 8270	ND	167	ug/kg	z
534-52-1	4,6-Dinitro-2-methylphenol	EPA 8270	ND	167	ug/kg	z
86-30-6	n-Nitrosodiphenylamine	EPA 8270	ND	33	ug/kg	204000
103-33-3	Azobenzene	EPA 8270	ND	33	ug/kg	z
101-55-3	4-Bromophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
118-74-1	Hexachlorobenzene	EPA 8270	ND	33	ug/kg	625
87-86-5	Pentachlorophenol	EPA 8270	ND	167	ug/kg	8330
85-01-8	Phenanthrene	EPA 8270	ND	33	ug/kg	z
120-12-7	Anthracene	EPA 8270	ND	33	ug/kg	24000000
84-74-2	Di-n-butylphthalate	EPA 8270	ND	33	ug/kg	8000000
206-44-0	Fluoranthene	EPA 8270	ND	33	ug/kg	3200000
92-87-5	Benzidine	EPA 8270	ND	33	ug/kg	4.35
129-00-0	Pyrene	EPA 8270	ND	33	ug/kg	2400000
85-68-7	Butylbenzylphthalate	EPA 8270	ND	33	ug/kg	16000000



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Analytical Report

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 Job Number: 97090140

Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB06-2

Lab ID: AA27599

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
91-94-1	3,3'-Dichlorobenzidine	EPA 8270	ND	33	ug/kg	2220
56-55-3	Benzo[a]anthracene	EPA 8270	ND	67	ug/kg	137
218-01-9	Chrysene	EPA 8270	ND	33	ug/kg	137
117-81-7	bis(2-Ethylhexyl)phthalate	EPA 8270	ND	167	ug/kg	71400
117-84-0	Di-n-octylphthalate	EPA 8270	ND	33	ug/kg	1600000
205-99-2	Benzo[b]fluoranthene	EPA 8270	ND	33	ug/kg	137
207-08-9	Benzo[k]fluoranthene	EPA 8270	ND	33	ug/kg	137
50-32-8	Benzo[a]pyrene	EPA 8270	ND	33	ug/kg	137
193-39-5	Indeno[1,2,3-cd]pyrene	EPA 8270	ND	33	ug/kg	137
53-70-3	Dibenz[a,h]anthracene	EPA 8270	ND	33	ug/kg	137
191-24-2	Benzo[g,h,i]perylene	EPA 8270	ND	33	ug/kg	z

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

E = The concentration of this analyte exceeds the calibration range of the instrument.

Q = Analyte concentration and/or MDL is greater than the 1996 MTCA B Limits.

z = Analyte not listed in 1996 MTCA Method B.



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Analytical Report

Report Date: 11/18/97
 Sample Collected: 09/15/97
 Received Date: 09/17/97

Facility: Regulatory Affairs
 Job Number: 97090140

Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB06-4

Lab ID: AA27600

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	ND	2	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	2	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	ND	2	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	2	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	2	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	2	ug/kg	24000000
306-83-2	1,1-DichloroTrifluoroethane	EPA 8260	ND	10	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	2	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	10	ug/kg	
67-64-1	Acetone	EPA 8260	10.9	10	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	ND	2	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	ND	10	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	ND	10	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	ND	10	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	10	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	ND	2	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	ND	2	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	2	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	ND	2	ug/kg	z
107-02-8	Acrolin	EPA 8260	ND	41	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	2	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	ND	2	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	ND	10	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	2	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	2	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	ND	2	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	2	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	2	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	2	ug/kg	11000
71-43-2	Benzene	EPA 8260	ND	2	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	ND	4	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	ND	2	ug/kg	14700



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 Job Number: 97090140

Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB06-4

Lab ID: AA27600

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
74-95-3	Dibromomethane	EPA 8260	ND	2	ug/kg	z
75-27-4	Bromodichloromethane	EPA 8260	ND	2	ug/kg	16100
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	2	ug/kg	z
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	2	ug/kg	z
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	10	ug/kg	64000000
108-88-3	Toluene	EPA 8260	ND	4	ug/kg	16000000
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	2	ug/kg	143
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	2	ug/kg	z
79-00-5	1,1,2-Trichloroethane	EPA 8260	ND	2	ug/kg	17500
142-28-9	1,3-Dichloropropane	EPA 8260	ND	2	ug/kg	z
127-18-4	Tetrachloroethene	EPA 8260	ND	2	ug/kg	19600
591-78-6	2-Hexanone	EPA 8260	ND	10	ug/kg	z
106-93-4	1,2-Dibromoethane	EPA 8260	ND	2	ug/kg	1.18 Q
124-48-1	Dibromochloromethane	EPA 8260	ND	2	ug/kg	11900
108-90-7	Chlorobenzene	EPA 8260	ND	2	ug/kg	1600000
100-41-4	Ethylbenzene	EPA 8260	ND	2	ug/kg	8000000
106-42-3	m,p-Xylene	EPA 8260	ND	2	ug/kg	z
95-47-6	o-Xylene	EPA 8260	ND	2	ug/kg	16000000
100-42-5	Styrene	EPA 8260	ND	2	ug/kg	33300
75-25-2	Bromoform	EPA 8260	ND	2	ug/kg	127000
98-82-8	Isopropylbenzene	EPA 8260	ND	2	ug/kg	z
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	6	ug/kg	5000
108-86-1	Bromobenzene	EPA 8260	ND	2	ug/kg	z
103-65-1	n-propylbenzene	EPA 8260	ND	2	ug/kg	z
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	ND	2	ug/kg	z
95-49-8	2-Chlorotoluene	EPA 8260	ND	2	ug/kg	1600000
106-43-4	4-Chlorotoluene	EPA 8260	ND	2	ug/kg	z
98-06-6	tert-Butylbenzene	EPA 8260	ND	2	ug/kg	z
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	ND	2	ug/kg	z
135-98-8	sec-Butylbenzene	EPA 8260	ND	2	ug/kg	z
541-73-1	1,3-Dichlorobenzene	EPA 8260	ND	2	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8260	ND	2	ug/kg	41700
104-51-8	n-Butylbenzene	EPA 8260	ND	2	ug/kg	z



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Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB06-4

Lab ID: AA27600

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
99-87-6	p-Isopropyltoluene	EPA 8260	ND	2	ug/kg	z
95-50-1	1,2-Dichlorobenzene	EPA 8260	ND	2	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	10	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	ND	2	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	2	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	ND	10	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	ND	2	ug/kg	z
EPA 8270 Solid						
62-53-3	Analine	EPA 8270	ND	167	ug/kg	175000
111-44-4	bis(2-Chloroethyl)ether	EPA 8270	ND	33	ug/kg	909
108-95-2	Phenol	EPA 8270	ND	33	ug/kg	48000000
95-57-8	2-Chlorophenol	EPA 8270	ND	33	ug/kg	400000
541-73-1	1,3-Dichlorobenzene	EPA 8270	ND	33	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8270	ND	33	ug/kg	41700
95-50-1	1,2-Dichlorobenzene	EPA 8270	ND	33	ug/kg	7200000
100-51-6	Benzyl alcohol	EPA 8270	ND	67	ug/kg	24000000
39638-32-9	bis(2-chloroisopropyl)ether	EPA 8270	ND	33	ug/kg	3200000
95-48-7	2-Methylphenol	EPA 8270	ND	33	ug/kg	4000000
98-86-2	Acetophenone	EPA 8270	ND	167	ug/kg	8000000
67-72-1	Hexachloroethane	EPA 8270	ND	33	ug/kg	71400
621-64-7	N-Nitroso-di-n-propylamine	EPA 8270	ND	33	ug/kg	143
106-44-5	4-Methylphenol	EPA 8270	ND	33	ug/kg	400000
98-95-3	Nitrobenzene	EPA 8270	ND	33	ug/kg	40000
78-59-1	Isophorone	EPA 8270	ND	33	ug/kg	1050000
88-75-5	2-Nitrophenol	EPA 8270	ND	33	ug/kg	z
105-67-9	2,4-Dimethylphenol	EPA 8270	ND	33	ug/kg	1600000
111-91-1	bis(2-Chloroethoxy)methane	EPA 8270	ND	33	ug/kg	z
120-83-2	2,4-Dichlorophenol	EPA 8270	ND	33	ug/kg	240000
120-82-1	1,2,4-Trichlorobenzene	EPA 8270	ND	33	ug/kg	800000
91-20-3	Naphthalene	EPA 8270	ND	33	ug/kg	3200000
106-47-8	4-Chloroaniline	EPA 8270	ND	67	ug/kg	320000
87-68-3	Hexachlorobutadiene	EPA 8270	ND	33	ug/kg	12800
65-85-0	Benzoic Acid	EPA 8270	ND	167	ug/kg	32000000



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Analytical Report

Report Date: 11/18/97	Facility: Regulatory Affairs	Project Name: WASHOUGAL
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Received Date: 09/17/97		

Client ID: IAB06-4

Lab ID: AA27600

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
59-50-7	4-Chloro-3-methylphenol	EPA 8270	ND	67	ug/kg	z
91-57-6	2-Methylnaphthalene	EPA 8270	ND	33	ug/kg	z
77-47-4	Hexachlorocyclopentadiene	EPA 8270	ND	33	ug/kg	560000
88-06-2	2,4,6-Trichlorophenol	EPA 8270	ND	33	ug/kg	90900
95-95-4	2,4,5-Trichlorophenol	EPA 8270	ND	33	ug/kg	8000000
91-58-7	2-Chloronaphthalene	EPA 8270	ND	33	ug/kg	6400
88-74-4	2-Nitroaniline	EPA 8270	ND	67	ug/kg	z
208-96-8	Acenaphthylene	EPA 8270	ND	33	ug/kg	z
131-11-3	Dimethylphthalate	EPA 8270	ND	33	ug/kg	80000000
606-20-2	2,6-Dinitrotoluene	EPA 8270	ND	33	ug/kg	80000
83-32-9	Acenaphthene	EPA 8270	ND	33	ug/kg	4800000
99-09-2	3-Nitroaniline	EPA 8270	ND	167	ug/kg	z
51-28-5	2,4-Dinitrophenol	EPA 8270	ND	167	ug/kg	160000
132-64-9	Dibenzofuran	EPA 8270	ND	167	ug/kg	z
121-14-2	2,4-Dinitrotoluene	EPA 8270	ND	33	ug/kg	160000
100-02-7	4-Nitrophenol	EPA 8270	ND	33	ug/kg	z
86-73-7	Fluorene	EPA 8270	ND	33	ug/kg	3200000
7005-72-3	4-Chlorophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
84-66-2	Diethylphthalate	EPA 8270	ND	33	ug/kg	64000000
100-01-6	4-Nitroaniline	EPA 8270	ND	167	ug/kg	z
534-52-1	4,6-Dinitro-2-methylphenol	EPA 8270	ND	167	ug/kg	z
86-30-6	n-Nitrosodiphenylamine	EPA 8270	ND	33	ug/kg	204000
103-33-3	Azobenzene	EPA 8270	ND	33	ug/kg	z
101-55-3	4-Bromophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
118-74-1	Hexachlorobenzene	EPA 8270	ND	33	ug/kg	625
87-86-5	Pentachlorophenol	EPA 8270	ND	167	ug/kg	8330
85-01-8	Phenanthrene	EPA 8270	ND	33	ug/kg	z
120-12-7	Anthracene	EPA 8270	ND	33	ug/kg	24000000
84-74-2	Di-n-butylphthalate	EPA 8270	ND	33	ug/kg	8000000
206-44-0	Fluoranthene	EPA 8270	ND	33	ug/kg	3200000
92-87-5	Benzidine	EPA 8270	ND	33	ug/kg	4.35
129-00-0	Pyrene	EPA 8270	ND	33	ug/kg	2400000
85-68-7	Butylbenzylphthalate	EPA 8270	ND	33	ug/kg	16000000



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Facility: Regulatory Affairs
Job Number: 97090140

Project Name: WASHOUGAL
Project No: 16957

Client ID: IAB06-4

Lab ID: AA27600

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
91-94-1	3,3'-Dichlorobenzidine	EPA 8270	ND	33	ug/kg	2220
56-55-3	Benzo[a]anthracene	EPA 8270	ND	67	ug/kg	137
218-01-9	Chrysene	EPA 8270	ND	33	ug/kg	137
117-81-7	bis(2-Ethylhexyl)phthalate	EPA 8270	ND	167	ug/kg	71400
117-84-0	Di-n-octylphthalate	EPA 8270	ND	33	ug/kg	1600000
205-99-2	Benzo[b]fluoranthene	EPA 8270	ND	33	ug/kg	137
207-08-9	Benzo[k]fluoranthene	EPA 8270	ND	33	ug/kg	137
50-32-8	Benzo[a]pyrene	EPA 8270	ND	33	ug/kg	137
193-39-5	Indeno[1,2,3-cd]pyrene	EPA 8270	ND	33	ug/kg	137
53-70-3	Dibenz[a,h]anthracene	EPA 8270	ND	33	ug/kg	137
191-24-2	Benzo[g,h,i]perylene	EPA 8270	ND	33	ug/kg	z

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

E = The concentration of this analyte exceeds the calibration range of the instrument.

Q = Analyte concentration and/or MDL is greater than the 1996 MTCA B Limits.

z = Analyte not listed in 1996 MTCA Method B.



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Facility: Regulatory Affairs
 Job Number: 97090140

Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB06-6

Lab ID: AA27601

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	ND	2	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	2	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	ND	2	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	2	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	2	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	2	ug/kg	24000000
306-83-2	1,1-DichloroTrifluoroethane	EPA 8260	ND	10	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	2	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	10	ug/kg	
67-64-1	Acetone	EPA 8260	36.5	10	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	ND	2	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	ND	10	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	ND	10	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	ND	10	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	10	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	ND	2	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	ND	2	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	2	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	ND	2	ug/kg	z
107-02-8	Acrolin	EPA 8260	ND	41	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	2	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	ND	2	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	ND	10	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	2	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	2	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	ND	2	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	2	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	2	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	2	ug/kg	11000
71-43-2	Benzene	EPA 8260	ND	2	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	ND	4	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	ND	2	ug/kg	14700



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 Job Number: 97090140

Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB06-6

Lab ID: AA27601

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
74-95-3	Dibromomethane	EPA 8260	ND	2	ug/kg	z
75-27-4	Bromodichloromethane	EPA 8260	ND	2	ug/kg	16100
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	2	ug/kg	z
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	2	ug/kg	z
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	10	ug/kg	64000000
108-88-3	Toluene	EPA 8260	ND	4	ug/kg	16000000
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	2	ug/kg	143
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	2	ug/kg	z
79-00-5	1,1,2-Trichloroethane	EPA 8260	ND	2	ug/kg	17500
142-28-9	1,3-Dichloropropane	EPA 8260	ND	2	ug/kg	z
127-18-4	Tetrachloroethene	EPA 8260	ND	2	ug/kg	19600
591-78-6	2-Hexanone	EPA 8260	ND	10	ug/kg	z
106-93-4	1,2-Dibromoethane	EPA 8260	ND	2	ug/kg	1.18
124-48-1	Dibromochloromethane	EPA 8260	ND	2	ug/kg	11900
108-90-7	Chlorobenzene	EPA 8260	ND	2	ug/kg	1600000
100-41-4	Ethylbenzene	EPA 8260	ND	2	ug/kg	8000000
106-42-3	m,p-Xylene	EPA 8260	ND	2	ug/kg	z
95-47-6	o-Xylene	EPA 8260	ND	2	ug/kg	16000000
100-42-5	Styrene	EPA 8260	ND	2	ug/kg	33300
75-25-2	Bromoform	EPA 8260	ND	2	ug/kg	127000
98-82-8	Isopropylbenzene	EPA 8260	ND	2	ug/kg	z
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	6	ug/kg	5000
108-86-1	Bromobenzene	EPA 8260	ND	2	ug/kg	z
103-65-1	n-propylbenzene	EPA 8260	ND	2	ug/kg	z
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	ND	2	ug/kg	z
95-49-8	2-Chlorotoluene	EPA 8260	ND	2	ug/kg	1600000
106-43-4	4-Chlorotoluene	EPA 8260	ND	2	ug/kg	z
98-06-6	tert-Butylbenzene	EPA 8260	ND	2	ug/kg	z
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	ND	2	ug/kg	z
135-98-8	sec-Butylbenzene	EPA 8260	ND	2	ug/kg	z
541-73-1	1,3-Dichlorobenzene	EPA 8260	ND	2	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8260	ND	2	ug/kg	41700
104-51-8	n-Butylbenzene	EPA 8260	ND	2	ug/kg	z



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Analytical Report

Report Date: 11/18/97
 Sample Collected: 09/15/97
 Received Date: 09/17/97

Facility: Regulatory Affairs
 Job Number: 97090140

Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB06-6

Lab ID: AA27601

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
99-87-6	p-Isopropyltoluene	EPA 8260	ND	2	ug/kg	z
95-50-1	1,2-Dichlorobenzene	EPA 8260	ND	2	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	10	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	ND	2	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	2	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	ND	10	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	ND	2	ug/kg	z
EPA 8270 Solid						
62-53-3	Analine	EPA 8270	ND	167	ug/kg	175000
111-44-4	bis(2-Chloroethyl)ether	EPA 8270	ND	33	ug/kg	909
108-95-2	Phenol	EPA 8270	ND	33	ug/kg	48000000
95-57-8	2-Chlorophenol	EPA 8270	ND	33	ug/kg	400000
541-73-1	1,3-Dichlorobenzene	EPA 8270	ND	33	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8270	ND	33	ug/kg	41700
95-50-1	1,2-Dichlorobenzene	EPA 8270	ND	33	ug/kg	7200000
100-51-6	Benzyl alcohol	EPA 8270	ND	67	ug/kg	24000000
39638-32-9	bis(2-chloroisopropyl)ether	EPA 8270	ND	33	ug/kg	3200000
95-48-7	2-Methylphenol	EPA 8270	ND	33	ug/kg	4000000
98-86-2	Acetophenone	EPA 8270	ND	167	ug/kg	8000000
67-72-1	Hexachloroethane	EPA 8270	ND	33	ug/kg	71400
621-64-7	N-Nitroso-di-n-propylamine	EPA 8270	ND	33	ug/kg	143
106-44-5	4-Methylphenol	EPA 8270	ND	33	ug/kg	400000
98-95-3	Nitrobenzene	EPA 8270	ND	33	ug/kg	40000
78-59-1	Isophorone	EPA 8270	ND	33	ug/kg	1050000
88-75-5	2-Nitrophenol	EPA 8270	ND	33	ug/kg	z
105-67-9	2,4-Dimethylphenol	EPA 8270	ND	33	ug/kg	1600000
111-91-1	bis(2-Chloroethoxy)methane	EPA 8270	ND	33	ug/kg	z
120-83-2	2,4-Dichlorophenol	EPA 8270	ND	33	ug/kg	240000
120-82-1	1,2,4-Trichlorobenzene	EPA 8270	ND	33	ug/kg	800000
91-20-3	Naphthalene	EPA 8270	ND	33	ug/kg	3200000
106-47-8	4-Chloroaniline	EPA 8270	ND	67	ug/kg	320000
87-68-3	Hexachlorobutadiene	EPA 8270	ND	33	ug/kg	12800
65-85-0	Benzoic Acid	EPA 8270	ND	167	ug/kg	32000000



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Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB06-6

Lab ID: AA27601

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
59-50-7	4-Chloro-3-methylphenol	EPA 8270	ND	67	ug/kg	z
91-57-6	2-Methylnaphthalene	EPA 8270	ND	33	ug/kg	z
77-47-4	Hexachlorocyclopentadiene	EPA 8270	ND	33	ug/kg	560000
88-06-2	2,4,6-Trichlorophenol	EPA 8270	ND	33	ug/kg	90900
95-95-4	2,4,5-Trichlorophenol	EPA 8270	ND	33	ug/kg	8000000
91-58-7	2-Chloronaphthalene	EPA 8270	ND	33	ug/kg	6400
88-74-4	2-Nitroaniline	EPA 8270	ND	67	ug/kg	z
208-96-8	Acenaphthylene	EPA 8270	ND	33	ug/kg	z
131-11-3	Dimethylphthalate	EPA 8270	ND	33	ug/kg	80000000
606-20-2	2,6-Dinitrotoluene	EPA 8270	ND	33	ug/kg	80000
83-32-9	Acenaphthene	EPA 8270	ND	33	ug/kg	4800000
99-09-2	3-Nitroaniline	EPA 8270	ND	167	ug/kg	z
51-28-5	2,4-Dinitrophenol	EPA 8270	ND	167	ug/kg	160000
132-64-9	Dibenzofuran	EPA 8270	ND	167	ug/kg	z
121-14-2	2,4-Dinitrotoluene	EPA 8270	ND	33	ug/kg	160000
100-02-7	4-Nitrophenol	EPA 8270	ND	33	ug/kg	z
86-73-7	Fluorene	EPA 8270	ND	33	ug/kg	3200000
7005-72-3	4-Chlorophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
84-66-2	Diethylphthalate	EPA 8270	ND	33	ug/kg	64000000
100-01-6	4-Nitroaniline	EPA 8270	ND	167	ug/kg	z
534-52-1	4,6-Dinitro-2-methylphenol	EPA 8270	ND	167	ug/kg	z
86-30-6	n-Nitrosodiphenylamine	EPA 8270	ND	33	ug/kg	204000
103-33-3	Azobenzene	EPA 8270	ND	33	ug/kg	z
101-55-3	4-Bromophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
118-74-1	Hexachlorobenzene	EPA 8270	ND	33	ug/kg	625
87-86-5	Pentachlorophenol	EPA 8270	ND	167	ug/kg	8330
85-01-8	Phenanthrene	EPA 8270	ND	33	ug/kg	z
120-12-7	Anthracene	EPA 8270	ND	33	ug/kg	24000000
84-74-2	Di-n-butylphthalate	EPA 8270	ND	33	ug/kg	8000000
206-44-0	Fluoranthene	EPA 8270	ND	33	ug/kg	3200000
92-87-5	Benzidine	EPA 8270	ND	33	ug/kg	4.35
129-00-0	Pyrene	EPA 8270	ND	33	ug/kg	2400000
85-68-7	Butylbenzylphthalate	EPA 8270	ND	33	ug/kg	16000000



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Facility: Regulatory Affairs
 Job Number: 97090140

Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB06-6

Lab ID: AA27601

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
91-94-1	3,3'-Dichlorobenzidine	EPA 8270	ND	33	ug/kg	2220
56-55-3	Benzo[a]anthracene	EPA 8270	ND	67	ug/kg	137
218-01-9	Chrysene	EPA 8270	ND	33	ug/kg	137
117-81-7	bis(2-Ethylhexyl)phthalate	EPA 8270	ND	167	ug/kg	71400
117-84-0	Di-n-octylphthalate	EPA 8270	ND	33	ug/kg	1600000
205-99-2	Benzo[b]fluoranthene	EPA 8270	ND	33	ug/kg	137
207-08-9	Benzo[k]fluoranthene	EPA 8270	ND	33	ug/kg	137
50-32-8	Benzo[a]pyrene	EPA 8270	ND	33	ug/kg	137
193-39-5	Indeno[1,2,3-cd]pyrene	EPA 8270	ND	33	ug/kg	137
53-70-3	Dibenz[a,h]anthracene	EPA 8270	ND	33	ug/kg	137
191-24-2	Benzo[g,h,i]perylene	EPA 8270	ND	33	ug/kg	z

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

E = The concentration of this analyte exceeds the calibration range of the instrument.

Q = Analyte concentration and/or MDL is greater than the 1996 MTCA B Limits.

z = Analyte not listed in 1996 MTCA Method B.



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Facility: Regulatory Affairs
 Job Number: 97090140

Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB07-2

Lab ID: AA27593

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	ND	3	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	3	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	ND	3	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	3	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	3	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	3	ug/kg	24000000
306-83-2	1,1-DichloroTrifluoroethane	EPA 8260	ND	17	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	3	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	17	ug/kg	
67-64-1	Acetone	EPA 8260	ND	17	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	ND	3	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	ND	17	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	ND	17	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	ND	17	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	17	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	ND	3	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	ND	3	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	3	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	ND	3	ug/kg	z
107-02-8	Acrolin	EPA 8260	ND	67	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	3	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	ND	3	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	ND	17	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	3	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	3	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	ND	3	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	3	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	3	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	3	ug/kg	11000
71-43-2	Benzene	EPA 8260	ND	3	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	ND	7	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	ND	3	ug/kg	14700



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Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB07-2

Lab ID: AA27593

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
74-95-3	Dibromomethane	EPA 8260	ND	3	ug/kg	z
75-27-4	Bromodichloromethane	EPA 8260	ND	3	ug/kg	16100
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	3	ug/kg	z
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	3	ug/kg	z
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	17	ug/kg	64000000
108-88-3	Toluene	EPA 8260	ND	7	ug/kg	16000000
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	3	ug/kg	143
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	3	ug/kg	z
79-00-5	1,1,2-Trichloroethane	EPA 8260	ND	3	ug/kg	17500
142-28-9	1,3-Dichloropropane	EPA 8260	ND	3	ug/kg	z
127-18-4	Tetrachloroethene	EPA 8260	ND	3	ug/kg	19600
591-78-6	2-Hexanone	EPA 8260	ND	17	ug/kg	z
106-93-4	1,2-Dibromoethane	EPA 8260	ND	3	ug/kg	1.18
124-48-1	Dibromochloromethane	EPA 8260	ND	3	ug/kg	11900
108-90-7	Chlorobenzene	EPA 8260	ND	3	ug/kg	1600000
100-41-4	Ethylbenzene	EPA 8260	ND	3	ug/kg	8000000
106-42-3	m,p-Xylene	EPA 8260	ND	3	ug/kg	z
95-47-6	o-Xylene	EPA 8260	ND	3	ug/kg	16000000
100-42-5	Styrene	EPA 8260	ND	3	ug/kg	33300
75-25-2	Bromoform	EPA 8260	ND	3	ug/kg	127000
98-82-8	Isopropylbenzene	EPA 8260	ND	3	ug/kg	z
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	10	ug/kg	5000
108-86-1	Bromobenzene	EPA 8260	ND	3	ug/kg	z
103-65-1	n-propylbenzene	EPA 8260	ND	3	ug/kg	z
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	ND	3	ug/kg	z
95-49-8	2-Chlorotoluene	EPA 8260	ND	3	ug/kg	1600000
106-43-4	4-Chlorotoluene	EPA 8260	ND	3	ug/kg	z
98-06-6	tert-Butylbenzene	EPA 8260	ND	3	ug/kg	z
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	ND	3	ug/kg	z
135-98-8	sec-Butylbenzene	EPA 8260	ND	3	ug/kg	z
541-73-1	1,3-Dichlorobenzene	EPA 8260	ND	3	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8260	ND	3	ug/kg	41700
104-51-8	n-Butylbenzene	EPA 8260	ND	3	ug/kg	z

Q

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Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB07-2

Lab ID: AA27593

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
99-87-6	p-Isopropyltoluene	EPA 8260	ND	3	ug/kg	z
95-50-1	1,2-Dichlorobenzene	EPA 8260	ND	3	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	17	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	ND	3	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	3	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	ND	17	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	ND	3	ug/kg	z
EPA 8270 Solid						
62-53-3	Aniline	EPA 8270	ND	167	ug/kg	175000
111-44-4	bis(2-Chloroethyl)ether	EPA 8270	ND	33	ug/kg	909
108-95-2	Phenol	EPA 8270	ND	33	ug/kg	48000000
95-57-8	2-Chlorophenol	EPA 8270	ND	33	ug/kg	400000
541-73-1	1,3-Dichlorobenzene	EPA 8270	ND	33	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8270	ND	33	ug/kg	41700
95-50-1	1,2-Dichlorobenzene	EPA 8270	ND	33	ug/kg	7200000
100-51-6	Benzyl alcohol	EPA 8270	ND	67	ug/kg	24000000
39638-32-9	bis(2-chloroisopropyl)ether	EPA 8270	ND	33	ug/kg	3200000
95-48-7	2-Methylphenol	EPA 8270	ND	33	ug/kg	4000000
98-86-2	Acetophenone	EPA 8270	ND	167	ug/kg	8000000
67-72-1	Hexachloroethane	EPA 8270	ND	33	ug/kg	71400
621-64-7	N-Nitroso-di-n-propylamine	EPA 8270	ND	33	ug/kg	143
106-44-5	4-Methylphenol	EPA 8270	ND	33	ug/kg	400000
98-95-3	Nitrobenzene	EPA 8270	ND	33	ug/kg	40000
78-59-1	Isophorone	EPA 8270	ND	33	ug/kg	1050000
88-75-5	2-Nitrophenol	EPA 8270	ND	33	ug/kg	z
105-67-9	2,4-Dimethylphenol	EPA 8270	ND	33	ug/kg	1600000
111-91-1	bis(2-Chloroethoxy)methane	EPA 8270	ND	33	ug/kg	z
120-83-2	2,4-Dichlorophenol	EPA 8270	ND	33	ug/kg	240000
120-82-1	1,2,4-Trichlorobenzene	EPA 8270	ND	33	ug/kg	800000
91-20-3	Naphthalene	EPA 8270	ND	33	ug/kg	3200000
106-47-8	4-Chloroaniline	EPA 8270	ND	67	ug/kg	320000
87-68-3	Hexachlorobutadiene	EPA 8270	ND	33	ug/kg	12800
65-85-0	Benzoic Acid	EPA 8270	ND	167	ug/kg	32000000



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Client ID: IAB07-2

Lab ID: AA27593

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
59-50-7	4-Chloro-3-methylphenol	EPA 8270	ND	67	ug/kg	z
91-57-6	2-Methylnaphthalene	EPA 8270	ND	33	ug/kg	z
77-47-4	Hexachlorocyclopentadiene	EPA 8270	ND	33	ug/kg	560000
88-06-2	2,4,6-Trichlorophenol	EPA 8270	ND	33	ug/kg	90900
95-95-4	2,4,5-Trichlorophenol	EPA 8270	ND	33	ug/kg	8000000
91-58-7	2-Chloronaphthalene	EPA 8270	ND	33	ug/kg	6400
88-74-4	2-Nitroaniline	EPA 8270	ND	67	ug/kg	z
208-96-8	Acenaphthylene	EPA 8270	ND	33	ug/kg	z
131-11-3	Dimethylphthalate	EPA 8270	ND	33	ug/kg	80000000
606-20-2	2,6-Dinitrotoluene	EPA 8270	ND	33	ug/kg	80000
83-32-9	Acenaphthene	EPA 8270	ND	33	ug/kg	4800000
99-09-2	3-Nitroaniline	EPA 8270	ND	167	ug/kg	z
51-28-5	2,4-Dinitrophenol	EPA 8270	ND	167	ug/kg	160000
132-64-9	Dibenzofuran	EPA 8270	ND	167	ug/kg	z
121-14-2	2,4-Dinitrotoluene	EPA 8270	ND	33	ug/kg	160000
100-02-7	4-Nitrophenol	EPA 8270	ND	33	ug/kg	z
86-73-7	Fluorene	EPA 8270	ND	33	ug/kg	3200000
7005-72-3	4-Chlorophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
84-66-2	Diethylphthalate	EPA 8270	ND	33	ug/kg	64000000
100-01-6	4-Nitroaniline	EPA 8270	ND	167	ug/kg	z
534-52-1	4,6-Dinitro-2-methylphenol	EPA 8270	ND	167	ug/kg	z
86-30-6	n-Nitrosodiphenylamine	EPA 8270	ND	33	ug/kg	204000
103-33-3	Azobenzene	EPA 8270	ND	33	ug/kg	z
101-55-3	4-Bromophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
118-74-1	Hexachlorobenzene	EPA 8270	ND	33	ug/kg	625
87-86-5	Pentachlorophenol	EPA 8270	ND	167	ug/kg	8330
85-01-8	Phenanthrene	EPA 8270	ND	33	ug/kg	z
120-12-7	Anthracene	EPA 8270	ND	33	ug/kg	24000000
84-74-2	Di-n-butylphthalate	EPA 8270	ND	33	ug/kg	8000000
206-44-0	Fluoranthene	EPA 8270	ND	33	ug/kg	3200000
92-87-5	Benzidine	EPA 8270	ND	33	ug/kg	4.35
129-00-0	Pyrene	EPA 8270	ND	33	ug/kg	2400000
85-68-7	Butylbenzylphthalate	EPA 8270	ND	33	ug/kg	16000000

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Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB07-2

Lab ID: AA27593

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
91-94-1	3,3'-Dichlorobenzidine	EPA 8270	ND	33	ug/kg	2220
56-55-3	Benzo[a]anthracene	EPA 8270	ND	67	ug/kg	137
218-01-9	Chrysene	EPA 8270	ND	33	ug/kg	137
117-81-7	bis(2-Ethylhexyl)phthalate	EPA 8270	ND	167	ug/kg	71400
117-84-0	Di-n-octylphthalate	EPA 8270	ND	33	ug/kg	1600000
205-99-2	Benzo[b]fluoranthene	EPA 8270	ND	33	ug/kg	137
207-08-9	Benzo[k]fluoranthene	EPA 8270	ND	33	ug/kg	137
50-32-8	Benzo[a]pyrene	EPA 8270	ND	33	ug/kg	137
193-39-5	Indeno[1,2,3-cd]pyrene	EPA 8270	ND	33	ug/kg	137
53-70-3	Dibenz[a,h]anthracene	EPA 8270	ND	33	ug/kg	137
191-24-2	Benzo[g,h,i]perylene	EPA 8270	ND	33	ug/kg	z

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

E = The concentration of this analyte exceeds the calibration range of the instrument.

Q = Analyte concentration and/or MDL is greater than the 1996 MTCA B Limits.

z = Analyte not listed in 1996 MTCA Method B.



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Analytical Report

Report Date: 11/18/97
 Sample Collected: 09/15/97
 Received Date: 09/17/97

Facility: Regulatory Affairs
 Job Number: 97090140

Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB07-4

Lab ID: AA27594

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	ND	3	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	3	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	ND	3	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	3	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	3	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	3	ug/kg	24000000
306-83-2	1,1-DichloroTrifluoroethane	EPA 8260	ND	15	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	3	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	15	ug/kg	
67-64-1	Acetone	EPA 8260	107	15	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	ND	3	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	ND	15	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	ND	15	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	ND	15	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	15	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	ND	3	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	ND	3	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	3	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	ND	3	ug/kg	z
107-02-8	Acrolin	EPA 8260	ND	59	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	3	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	ND	3	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	ND	15	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	3	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	3	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	ND	3	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	3	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	3	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	3	ug/kg	11000
71-43-2	Benzene	EPA 8260	ND	3	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	ND	6	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	ND	3	ug/kg	14700



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Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB07-4

Lab ID: AA27594

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
74-95-3	Dibromomethane	EPA 8260	ND	3	ug/kg	z
75-27-4	Bromodichloromethane	EPA 8260	ND	3	ug/kg	16100
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	3	ug/kg	z
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	3	ug/kg	z
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	15	ug/kg	64000000
108-88-3	Toluene	EPA 8260	ND	6	ug/kg	16000000
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	3	ug/kg	143
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	3	ug/kg	z
79-00-5	1,1,2-Trichloroethane	EPA 8260	ND	3	ug/kg	17500
142-28-9	1,3-Dichloropropane	EPA 8260	ND	3	ug/kg	z
127-18-4	Tetrachloroethene	EPA 8260	ND	3	ug/kg	19600
591-78-6	2-Hexanone	EPA 8260	ND	15	ug/kg	z
106-93-4	1,2-Dibromoethane	EPA 8260	ND	3	ug/kg	1.18
124-48-1	Dibromochloromethane	EPA 8260	ND	3	ug/kg	11900
108-90-7	Chlorobenzene	EPA 8260	ND	3	ug/kg	1600000
100-41-4	Ethylbenzene	EPA 8260	ND	3	ug/kg	8000000
106-42-3	m,p-Xylene	EPA 8260	ND	3	ug/kg	z
95-47-6	o-Xylene	EPA 8260	ND	3	ug/kg	16000000
100-42-5	Styrene	EPA 8260	ND	3	ug/kg	33300
75-25-2	Bromoform	EPA 8260	ND	3	ug/kg	127000
98-82-8	Isopropylbenzene	EPA 8260	ND	3	ug/kg	z
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	9	ug/kg	5000
108-86-1	Bromobenzene	EPA 8260	ND	3	ug/kg	z
103-65-1	n-propylbenzene	EPA 8260	ND	3	ug/kg	z
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	ND	3	ug/kg	z
95-49-8	2-Chlorotoluene	EPA 8260	ND	3	ug/kg	1600000
106-43-4	4-Chlorotoluene	EPA 8260	ND	3	ug/kg	z
98-06-6	tert-Butylbenzene	EPA 8260	ND	3	ug/kg	z
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	ND	3	ug/kg	z
135-98-8	sec-Butylbenzene	EPA 8260	ND	3	ug/kg	z
541-73-1	1,3-Dichlorobenzene	EPA 8260	ND	3	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8260	ND	3	ug/kg	41700
104-51-8	n-Butylbenzene	EPA 8260	ND	3	ug/kg	z

Q



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 Job Number: 97090140

Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB07-4

Lab ID: AA27594

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
99-87-6	p-Isopropyltoluene	EPA 8260	ND	3	ug/kg	z
95-50-1	1,2-Dichlorobenzene	EPA 8260	ND	3	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	15	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	ND	3	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	3	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	ND	15	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	ND	3	ug/kg	z
EPA 8270 Solid						
62-53-3	Analine	EPA 8270	ND	167	ug/kg	175000
111-44-4	bis(2-Chloroethyl)ether	EPA 8270	ND	33	ug/kg	909
108-95-2	Phenol	EPA 8270	ND	33	ug/kg	48000000
95-57-8	2-Chlorophenol	EPA 8270	ND	33	ug/kg	400000
541-73-1	1,3-Dichlorobenzene	EPA 8270	ND	33	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8270	ND	33	ug/kg	41700
95-50-1	1,2-Dichlorobenzene	EPA 8270	ND	33	ug/kg	7200000
100-51-6	Benzyl alcohol	EPA 8270	ND	67	ug/kg	24000000
39638-32-9	bis(2-chloroisopropyl)ether	EPA 8270	ND	33	ug/kg	3200000
95-48-7	2-Methylphenol	EPA 8270	ND	33	ug/kg	4000000
98-86-2	Acetophenone	EPA 8270	ND	167	ug/kg	8000000
67-72-1	Hexachloroethane	EPA 8270	ND	33	ug/kg	71400
621-64-7	N-Nitroso-di-n-propylamine	EPA 8270	ND	33	ug/kg	143
106-44-5	4-Methylphenol	EPA 8270	ND	33	ug/kg	400000
98-95-3	Nitrobenzene	EPA 8270	ND	33	ug/kg	40000
78-59-1	Isophorone	EPA 8270	ND	33	ug/kg	1050000
88-75-5	2-Nitrophenol	EPA 8270	ND	33	ug/kg	z
105-67-9	2,4-Dimethylphenol	EPA 8270	ND	33	ug/kg	1600000
111-91-1	bis(2-Chloroethoxy)methane	EPA 8270	ND	33	ug/kg	z
120-83-2	2,4-Dichlorophenol	EPA 8270	ND	33	ug/kg	240000
120-82-1	1,2,4-Trichlorobenzene	EPA 8270	ND	33	ug/kg	800000
91-20-3	Naphthalene	EPA 8270	ND	33	ug/kg	3200000
106-47-8	4-Chloroaniline	EPA 8270	ND	67	ug/kg	320000
87-68-3	Hexachlorobutadiene	EPA 8270	ND	33	ug/kg	12800
65-85-0	Benzoic Acid	EPA 8270	ND	167	ug/kg	32000000



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Analytical Report

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Project Name: WASHOUGAL
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Client ID: IAB07-4

Lab ID: AA27594

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
59-50-7	4-Chloro-3-methylphenol	EPA 8270	ND	67	ug/kg	z
91-57-6	2-Methylnaphthalene	EPA 8270	ND	33	ug/kg	z
77-47-4	Hexachlorocyclopentadiene	EPA 8270	ND	33	ug/kg	560000
88-06-2	2,4,6-Trichlorophenol	EPA 8270	ND	33	ug/kg	90900
95-95-4	2,4,5-Trichlorophenol	EPA 8270	ND	33	ug/kg	8000000
91-58-7	2-Chloronaphthalene	EPA 8270	ND	33	ug/kg	6400
88-74-4	2-Nitroaniline	EPA 8270	ND	67	ug/kg	z
208-96-8	Acenaphthylene	EPA 8270	ND	33	ug/kg	z
131-11-3	Dimethylphthalate	EPA 8270	ND	33	ug/kg	80000000
606-20-2	2,6-Dinitrotoluene	EPA 8270	ND	33	ug/kg	80000
83-32-9	Acenaphthene	EPA 8270	ND	33	ug/kg	4800000
99-09-2	3-Nitroaniline	EPA 8270	ND	167	ug/kg	z
51-28-5	2,4-Dinitrophenol	EPA 8270	ND	167	ug/kg	160000
132-64-9	Dibenzofuran	EPA 8270	ND	167	ug/kg	z
121-14-2	2,4-Dinitrotoluene	EPA 8270	ND	33	ug/kg	160000
100-02-7	4-Nitrophenol	EPA 8270	ND	33	ug/kg	z
86-73-7	Fluorene	EPA 8270	ND	33	ug/kg	3200000
7005-72-3	4-Chlorophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
84-66-2	Diethylphthalate	EPA 8270	ND	33	ug/kg	64000000
100-01-6	4-Nitroaniline	EPA 8270	ND	167	ug/kg	z
534-52-1	4,6-Dinitro-2-methylphenol	EPA 8270	ND	167	ug/kg	z
86-30-6	n-Nitrosodiphenylamine	EPA 8270	ND	33	ug/kg	204000
103-33-3	Azobenzene	EPA 8270	ND	33	ug/kg	z
101-55-3	4-Bromophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
118-74-1	Hexachlorobenzene	EPA 8270	ND	33	ug/kg	625
87-86-5	Pentachlorophenol	EPA 8270	ND	167	ug/kg	8330
85-01-8	Phenanthrene	EPA 8270	ND	33	ug/kg	z
120-12-7	Anthracene	EPA 8270	ND	33	ug/kg	24000000
84-74-2	Di-n-butylphthalate	EPA 8270	ND	33	ug/kg	8000000
206-44-0	Fluoranthene	EPA 8270	ND	33	ug/kg	3200000
92-87-5	Benzidine	EPA 8270	ND	33	ug/kg	4.35
129-00-0	Pyrene	EPA 8270	ND	33	ug/kg	2400000
85-68-7	Butylbenzylphthalate	EPA 8270	ND	33	ug/kg	16000000



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Analytical Report

Report Date: 11/18/97
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Facility: Regulatory Affairs
Job Number: 97090140

Project Name: WASHOUGAL
Project No: 16957

Client ID: IAB07-4

Lab ID: AA27594

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
91-94-1	3,3'-Dichlorobenzidine	EPA 8270	ND	33	ug/kg	2220
56-55-3	Benzo[a]anthracene	EPA 8270	ND	67	ug/kg	137
218-01-9	Chrysene	EPA 8270	ND	33	ug/kg	137
117-81-7	bis(2-Ethylhexyl)phthalate	EPA 8270	ND	167	ug/kg	71400
117-84-0	Di-n-octylphthalate	EPA 8270	ND	33	ug/kg	1600000
205-99-2	Benzo[b]fluoranthene	EPA 8270	ND	33	ug/kg	137
207-08-9	Benzo[k]fluoranthene	EPA 8270	ND	33	ug/kg	137
50-32-8	Benzo[a]pyrene	EPA 8270	ND	33	ug/kg	137
193-39-5	Indeno[1,2,3-cd]pyrene	EPA 8270	ND	33	ug/kg	137
53-70-3	Dibenz[a,h]anthracene	EPA 8270	ND	33	ug/kg	137
191-24-2	Benzo[g,h,i]perylene	EPA 8270	ND	33	ug/kg	z

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

E = The concentration of this analyte exceeds the calibration range of the instrument.

Q = Analyte concentration and/or MDL is greater than the 1996 MTCA B Limits.

z = Analyte not listed in 1996 MTCA Method B.



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Facility: Regulatory Affairs
 Job Number: 97090140

Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB07-6

Lab ID: AA27595

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	ND	2	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	2	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	ND	2	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	2	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	2	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	2	ug/kg	24000000
306-83-2	1,1-DichloroTrifluoroethane	EPA 8260	ND	9	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	2	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	9	ug/kg	
67-64-1	Acetone	EPA 8260	79.5	9	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	ND	2	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	ND	9	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	ND	9	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	ND	9	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	9	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	ND	2	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	ND	2	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	2	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	ND	2	ug/kg	z
107-02-8	Acrolin	EPA 8260	ND	38	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	2	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	ND	2	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	10.0	9	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	2	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	2	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	ND	2	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	2	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	2	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	2	ug/kg	11000
71-43-2	Benzene	EPA 8260	ND	2	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	ND	4	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	ND	2	ug/kg	14700



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Analytical Report

Report Date: 11/18/97	Facility: Regulatory Affairs	Project Name: WASHOUGAL
Sample Collected: 09/15/97	Job Number: 97090140	Project No: 16957
Received Date: 09/17/97		

Client ID: IAB07-6

Lab ID: AA27595

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
74-95-3	Dibromomethane	EPA 8260	ND	2	ug/kg	z
75-27-4	Bromodichloromethane	EPA 8260	ND	2	ug/kg	16100
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	2	ug/kg	z
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	2	ug/kg	z
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	9	ug/kg	64000000
108-88-3	Toluene	EPA 8260	ND	4	ug/kg	16000000
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	2	ug/kg	143
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	2	ug/kg	z
79-00-5	1,1,2-Trichloroethane	EPA 8260	ND	2	ug/kg	17500
142-28-9	1,3-Dichloropropane	EPA 8260	ND	2	ug/kg	z
127-18-4	Tetrachloroethene	EPA 8260	ND	2	ug/kg	19600
591-78-6	2-Hexanone	EPA 8260	ND	9	ug/kg	z
106-93-4	1,2-Dibromoethane	EPA 8260	ND	2	ug/kg	1.18
124-48-1	Dibromochloromethane	EPA 8260	ND	2	ug/kg	11900
108-90-7	Chlorobenzene	EPA 8260	ND	2	ug/kg	1600000
100-41-4	Ethylbenzene	EPA 8260	ND	2	ug/kg	8000000
106-42-3	m,p-Xylene	EPA 8260	ND	2	ug/kg	z
95-47-6	o-Xylene	EPA 8260	ND	2	ug/kg	16000000
100-42-5	Styrene	EPA 8260	ND	2	ug/kg	33300
75-25-2	Bromoform	EPA 8260	ND	2	ug/kg	127000
98-82-8	Isopropylbenzene	EPA 8260	ND	2	ug/kg	z
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	6	ug/kg	5000
108-86-1	Bromobenzene	EPA 8260	ND	2	ug/kg	z
103-65-1	n-propylbenzene	EPA 8260	ND	2	ug/kg	z
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	ND	2	ug/kg	z
95-49-8	2-Chlorotoluene	EPA 8260	ND	2	ug/kg	1600000
106-43-4	4-Chlorotoluene	EPA 8260	ND	2	ug/kg	z
98-06-6	tert-Butylbenzene	EPA 8260	ND	2	ug/kg	z
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	ND	2	ug/kg	z
135-98-8	sec-Butylbenzene	EPA 8260	ND	2	ug/kg	z
541-73-1	1,3-Dichlorobenzene	EPA 8260	ND	2	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8260	ND	2	ug/kg	41700
104-51-8	n-Butylbenzene	EPA 8260	ND	2	ug/kg	z

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Phillip Environmental Laboratory
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Analytical Report

Report Date: 11/18/97
 Sample Collected: 09/15/97
 Received Date: 09/17/97

Facility: Regulatory Affairs
 Job Number: 97090140

Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB07-6

Lab ID: AA27595

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
99-87-6	p-Isopropyltoluene	EPA 8260	ND	2	ug/kg	z
95-50-1	1,2-Dichlorobenzene	EPA 8260	ND	2	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	9	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	ND	2	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	2	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	ND	9	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	ND	2	ug/kg	z
EPA 8270 Solid						
62-53-3	Aniline	EPA 8270	ND	167	ug/kg	175000
111-44-4	bis(2-Chloroethyl)ether	EPA 8270	ND	33	ug/kg	909
108-95-2	Phenol	EPA 8270	ND	33	ug/kg	48000000
95-57-8	2-Chlorophenol	EPA 8270	ND	33	ug/kg	400000
541-73-1	1,3-Dichlorobenzene	EPA 8270	ND	33	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8270	ND	33	ug/kg	41700
95-50-1	1,2-Dichlorobenzene	EPA 8270	ND	33	ug/kg	7200000
100-51-6	Benzyl alcohol	EPA 8270	ND	67	ug/kg	24000000
39638-32-9	bis(2-chloroisopropyl)ether	EPA 8270	ND	33	ug/kg	3200000
95-48-7	2-Methylphenol	EPA 8270	ND	33	ug/kg	4000000
98-86-2	Acetophenone	EPA 8270	ND	167	ug/kg	8000000
67-72-1	Hexachloroethane	EPA 8270	ND	33	ug/kg	71400
621-64-7	N-Nitroso-di-n-propylamine	EPA 8270	ND	33	ug/kg	143
106-44-5	4-Methylphenol	EPA 8270	ND	33	ug/kg	400000
98-95-3	Nitrobenzene	EPA 8270	ND	33	ug/kg	40000
78-59-1	Isophorone	EPA 8270	ND	33	ug/kg	1050000
88-75-5	2-Nitrophenol	EPA 8270	ND	33	ug/kg	z
105-67-9	2,4-Dimethylphenol	EPA 8270	ND	33	ug/kg	1600000
111-91-1	bis(2-Chloroethoxy)methane	EPA 8270	ND	33	ug/kg	z
120-83-2	2,4-Dichlorophenol	EPA 8270	ND	33	ug/kg	240000
120-82-1	1,2,4-Trichlorobenzene	EPA 8270	ND	33	ug/kg	800000
91-20-3	Naphthalene	EPA 8270	ND	33	ug/kg	3200000
106-47-8	4-Chloroaniline	EPA 8270	ND	67	ug/kg	320000
87-68-3	Hexachlorobutadiene	EPA 8270	ND	33	ug/kg	12800
65-85-0	Benzoic Acid	EPA 8270	ND	167	ug/kg	32000000



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Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB07-6

Lab ID: AA27595

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
59-50-7	4-Chloro-3-methylphenol	EPA 8270	ND	67	ug/kg	z
91-57-6	2-Methylnaphthalene	EPA 8270	ND	33	ug/kg	z
77-47-4	Hexachlorocyclopentadiene	EPA 8270	ND	33	ug/kg	560000
88-06-2	2,4,6-Trichlorophenol	EPA 8270	ND	33	ug/kg	90900
95-95-4	2,4,5-Trichlorophenol	EPA 8270	ND	33	ug/kg	8000000
91-58-7	2-Chloronaphthalene	EPA 8270	ND	33	ug/kg	6400
88-74-4	2-Nitroaniline	EPA 8270	ND	67	ug/kg	z
208-96-8	Acenaphthylene	EPA 8270	ND	33	ug/kg	z
131-11-3	Dimethylphthalate	EPA 8270	ND	33	ug/kg	80000000
606-20-2	2,6-Dinitrotoluene	EPA 8270	ND	33	ug/kg	80000
83-32-9	Acenaphthene	EPA 8270	ND	33	ug/kg	4800000
99-09-2	3-Nitroaniline	EPA 8270	ND	167	ug/kg	z
51-28-5	2,4-Dinitrophenol	EPA 8270	ND	167	ug/kg	160000
132-64-9	Dibenzofuran	EPA 8270	ND	167	ug/kg	z
121-14-2	2,4-Dinitrotoluene	EPA 8270	ND	33	ug/kg	160000
100-02-7	4-Nitrophenol	EPA 8270	ND	33	ug/kg	z
86-73-7	Fluorene	EPA 8270	ND	33	ug/kg	3200000
7005-72-3	4-Chlorophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
84-66-2	Diethylphthalate	EPA 8270	ND	33	ug/kg	64000000
100-01-6	4-Nitroaniline	EPA 8270	ND	167	ug/kg	z
534-52-1	4,6-Dinitro-2-methylphenol	EPA 8270	ND	167	ug/kg	z
86-30-6	n-Nitrosodiphenylamine	EPA 8270	ND	33	ug/kg	204000
103-33-3	Azobenzene	EPA 8270	ND	33	ug/kg	z
101-55-3	4-Bromophenyl-phenylether	EPA 8270	73	33	ug/kg	z
118-74-1	Hexachlorobenzene	EPA 8270	ND	33	ug/kg	625
87-86-5	Pentachlorophenol	EPA 8270	ND	167	ug/kg	8330
85-01-8	Phenanthrene	EPA 8270	ND	33	ug/kg	z
120-12-7	Anthracene	EPA 8270	ND	33	ug/kg	24000000
84-74-2	Di-n-butylphthalate	EPA 8270	ND	33	ug/kg	8000000
206-44-0	Fluoranthene	EPA 8270	ND	33	ug/kg	3200000
92-87-5	Benzidine	EPA 8270	ND	33	ug/kg	4.35
129-00-0	Pyrene	EPA 8270	ND	33	ug/kg	2400000
85-68-7	Butylbenzylphthalate	EPA 8270	ND	33	ug/kg	16000000

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Analytical Report

Report Date: 11/18/97
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Facility: Regulatory Affairs
 Job Number: 97090140

Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB07-6

Lab ID: AA27595

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
91-94-1	3,3'-Dichlorobenzidine	EPA 8270	ND	33	ug/kg	2220
56-55-3	Benzo[a]anthracene	EPA 8270	ND	67	ug/kg	137
218-01-9	Chrysene	EPA 8270	ND	33	ug/kg	137
117-81-7	bis(2-Ethylhexyl)phthalate	EPA 8270	ND	167	ug/kg	71400
117-84-0	Di-n-octylphthalate	EPA 8270	ND	33	ug/kg	1600000
205-99-2	Benzo[b]fluoranthene	EPA 8270	ND	33	ug/kg	137
207-08-9	Benzo[k]fluoranthene	EPA 8270	ND	33	ug/kg	137
50-32-8	Benzo[a]pyrene	EPA 8270	ND	33	ug/kg	137
193-39-5	Indeno[1,2,3-cd]pyrene	EPA 8270	ND	33	ug/kg	137
53-70-3	Dibenz[a,h]anthracene	EPA 8270	ND	33	ug/kg	137
191-24-2	Benzo[g,h,i]perylene	EPA 8270	ND	33	ug/kg	z

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

E = The concentration of this analyte exceeds the calibration range of the instrument.

Q = Analyte concentration and/or MDL is greater than the 1996 MTCA B Limits.

z = Analyte not listed in 1996 MTCA Method B.

Data Reviewed by: LS

Data Reported by: KS



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Analytical Report

Report Date: 11/18/97	Facility: Regulatory Affairs	Project Name: WASHOUGAL
Sample Collected: 09/15/97	Job Number: 97090140	Project No: 16957
Received Date: 09/17/97		

Client ID: IAB08-2

Lab ID: AA27596

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	ND	2	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	2	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	ND	2	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	2	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	2	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	2	ug/kg	24000000
306-83-2	1,1-DichloroTrifluoroethane	EPA 8260	ND	11	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	2	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	11	ug/kg	
67-64-1	Acetone	EPA 8260	12.0	11	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	4.32	2	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	ND	11	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	ND	11	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	ND	11	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	11	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	ND	2	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	ND	2	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	2	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	ND	2	ug/kg	z
107-02-8	Acrolien	EPA 8260	ND	45	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	2	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	ND	2	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	ND	11	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	2	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	2	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	ND	2	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	2	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	2	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	2	ug/kg	11000
71-43-2	Benzene	EPA 8260	ND	2	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	ND	5	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	ND	2	ug/kg	14700

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Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB08-2

Lab ID: AA27596

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
74-95-3	Dibromomethane	EPA 8260	ND	2	ug/kg	z
75-27-4	Bromodichloromethane	EPA 8260	ND	2	ug/kg	16100
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	2	ug/kg	z
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	2	ug/kg	z
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	11	ug/kg	64000000
108-88-3	Toluene	EPA 8260	ND	5	ug/kg	16000000
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	2	ug/kg	143
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	2	ug/kg	z
79-00-5	1,1,2-Trichloroethane	EPA 8260	ND	2	ug/kg	17500
142-28-9	1,3-Dichloropropane	EPA 8260	ND	2	ug/kg	z
127-18-4	Tetrachloroethene	EPA 8260	ND	2	ug/kg	19600
591-78-6	2-Hexanone	EPA 8260	ND	11	ug/kg	z
106-93-4	1,2-Dibromoethane	EPA 8260	ND	2	ug/kg	1.18
124-48-1	Dibromochloromethane	EPA 8260	ND	2	ug/kg	11900
108-90-7	Chlorobenzene	EPA 8260	ND	2	ug/kg	1600000
100-41-4	Ethylbenzene	EPA 8260	ND	2	ug/kg	8000000
106-42-3	m,p-Xylene	EPA 8260	ND	2	ug/kg	z
95-47-6	o-Xylene	EPA 8260	ND	2	ug/kg	16000000
100-42-5	Styrene	EPA 8260	ND	2	ug/kg	33300
75-25-2	Bromoform	EPA 8260	ND	2	ug/kg	127000
98-82-8	Isopropylbenzene	EPA 8260	ND	2	ug/kg	z
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	7	ug/kg	5000
108-86-1	Bromobenzene	EPA 8260	ND	2	ug/kg	z
103-65-1	n-propylbenzene	EPA 8260	ND	2	ug/kg	z
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	ND	2	ug/kg	z
95-49-8	2-Chlorotoluene	EPA 8260	ND	2	ug/kg	1600000
106-43-4	4-Chlorotoluene	EPA 8260	ND	2	ug/kg	z
98-06-6	tert-Butylbenzene	EPA 8260	ND	2	ug/kg	z
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	ND	2	ug/kg	z
135-98-8	sec-Butylbenzene	EPA 8260	ND	2	ug/kg	z
541-73-1	1,3-Dichlorobenzene	EPA 8260	ND	2	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8260	ND	2	ug/kg	41700
104-51-8	n-Butylbenzene	EPA 8260	ND	2	ug/kg	z

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Client ID: IAB08-2

Lab ID: AA27596

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
99-87-6	p-Isopropyltoluene	EPA 8260	ND	2	ug/kg	z
95-50-1	1,2-Dichlorobenzene	EPA 8260	ND	2	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	11	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	ND	2	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	2	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	ND	11	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	ND	2	ug/kg	z
EPA 8270 Solid						
62-53-3	Aniline	EPA 8270	ND	167	ug/kg	175000
111-44-4	bis(2-Chloroethyl)ether	EPA 8270	ND	33	ug/kg	909
108-95-2	Phenol	EPA 8270	ND	33	ug/kg	48000000
95-57-8	2-Chlorophenol	EPA 8270	ND	33	ug/kg	400000
541-73-1	1,3-Dichlorobenzene	EPA 8270	ND	33	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8270	ND	33	ug/kg	41700
95-50-1	1,2-Dichlorobenzene	EPA 8270	ND	33	ug/kg	7200000
100-51-6	Benzyl alcohol	EPA 8270	ND	67	ug/kg	24000000
39638-32-9	bis(2-chloroisopropyl)ether	EPA 8270	ND	33	ug/kg	3200000
95-48-7	2-Methylphenol	EPA 8270	ND	33	ug/kg	4000000
98-86-2	Acetophenone	EPA 8270	ND	167	ug/kg	8000000
67-72-1	Hexachloroethane	EPA 8270	ND	33	ug/kg	71400
621-64-7	N-Nitroso-di-n-propylamine	EPA 8270	ND	33	ug/kg	143
106-44-5	4-Methylphenol	EPA 8270	ND	33	ug/kg	400000
98-95-3	Nitrobenzene	EPA 8270	ND	33	ug/kg	40000
78-59-1	Isophorone	EPA 8270	ND	33	ug/kg	1050000
88-75-5	2-Nitrophenol	EPA 8270	ND	33	ug/kg	z
105-67-9	2,4-Dimethylphenol	EPA 8270	ND	33	ug/kg	1600000
111-91-1	bis(2-Chloroethoxy)methane	EPA 8270	ND	33	ug/kg	z
120-83-2	2,4-Dichlorophenol	EPA 8270	ND	33	ug/kg	240000
120-82-1	1,2,4-Trichlorobenzene	EPA 8270	ND	33	ug/kg	800000
91-20-3	Naphthalene	EPA 8270	ND	33	ug/kg	3200000
106-47-8	4-Chloroaniline	EPA 8270	ND	67	ug/kg	320000
87-68-3	Hexachlorobutadiene	EPA 8270	ND	33	ug/kg	12800
65-85-0	Benzoic Acid	EPA 8270	ND	167	ug/kg	32000000



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Lab ID: AA27596

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
59-50-7	4-Chloro-3-methylphenol	EPA 8270	ND	67	ug/kg	z
91-57-6	2-Methylnaphthalene	EPA 8270	ND	33	ug/kg	z
77-47-4	Hexachlorocyclopentadiene	EPA 8270	ND	33	ug/kg	560000
88-06-2	2,4,6-Trichlorophenol	EPA 8270	ND	33	ug/kg	90900
95-95-4	2,4,5-Trichlorophenol	EPA 8270	ND	33	ug/kg	8000000
91-58-7	2-Chloronaphthalene	EPA 8270	ND	33	ug/kg	6400
88-74-4	2-Nitroaniline	EPA 8270	ND	67	ug/kg	z
208-96-8	Acenaphthylene	EPA 8270	ND	33	ug/kg	z
131-11-3	Dimethylphthalate	EPA 8270	ND	33	ug/kg	80000000
606-20-2	2,6-Dinitrotoluene	EPA 8270	ND	33	ug/kg	80000
83-32-9	Acenaphthene	EPA 8270	ND	33	ug/kg	4800000
99-09-2	3-Nitroaniline	EPA 8270	ND	167	ug/kg	z
51-28-5	2,4-Dinitrophenol	EPA 8270	ND	167	ug/kg	160000
132-64-9	Dibenzofuran	EPA 8270	ND	167	ug/kg	z
121-14-2	2,4-Dinitrotoluene	EPA 8270	ND	33	ug/kg	160000
100-02-7	4-Nitrophenol	EPA 8270	ND	33	ug/kg	z
86-73-7	Fluorene	EPA 8270	ND	33	ug/kg	3200000
7005-72-3	4-Chlorophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
84-66-2	Diethylphthalate	EPA 8270	ND	33	ug/kg	64000000
100-01-6	4-Nitroaniline	EPA 8270	ND	167	ug/kg	z
534-52-1	4,6-Dinitro-2-methylphenol	EPA 8270	ND	167	ug/kg	z
86-30-6	n-Nitrosodiphenylamine	EPA 8270	ND	33	ug/kg	204000
103-33-3	Azobenzene	EPA 8270	ND	33	ug/kg	z
101-55-3	4-Bromophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
118-74-1	Hexachlorobenzene	EPA 8270	ND	33	ug/kg	625
87-86-5	Pentachlorophenol	EPA 8270	ND	167	ug/kg	8330
85-01-8	Phenanthrene	EPA 8270	ND	33	ug/kg	z
120-12-7	Anthracene	EPA 8270	ND	33	ug/kg	24000000
84-74-2	Di-n-butylphthalate	EPA 8270	ND	33	ug/kg	8000000
206-44-0	Fluoranthene	EPA 8270	ND	33	ug/kg	3200000
92-87-5	Benzidine	EPA 8270	ND	33	ug/kg	4.35
129-00-0	Pyrene	EPA 8270	ND	33	ug/kg	2400000
85-68-7	Butylbenzylphthalate	EPA 8270	ND	33	ug/kg	16000000

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Project Name: WASHOUGAL
Project No: 16957

Client ID: IAB08-2

Lab ID: AA27596

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
91-94-1	3,3'-Dichlorobenzidine	EPA 8270	ND	33	ug/kg	2220
56-55-3	Benzo[a]anthracene	EPA 8270	ND	67	ug/kg	137
218-01-9	Chrysene	EPA 8270	ND	33	ug/kg	137
117-81-7	bis(2-Ethylhexyl)phthalate	EPA 8270	ND	167	ug/kg	71400
117-84-0	Di-n-octylphthalate	EPA 8270	ND	33	ug/kg	1600000
205-99-2	Benzo[b]fluoranthene	EPA 8270	ND	33	ug/kg	137
207-08-9	Benzo[k]fluoranthene	EPA 8270	ND	33	ug/kg	137
50-32-8	Benzo[a]pyrene	EPA 8270	ND	33	ug/kg	137
193-39-5	Indeno[1,2,3-cd]pyrene	EPA 8270	ND	33	ug/kg	137
53-70-3	Dibenz[a,h]anthracene	EPA 8270	ND	33	ug/kg	137
191-24-2	Benzo[g,h,i]perylene	EPA 8270	ND	33	ug/kg	z

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

E = The concentration of this analyte exceeds the calibration range of the instrument.

Q = Analyte concentration and/or MDL is greater than the 1996 MTCA B Limits.

z = Analyte not listed in 1996 MTCA Method B.

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Analytical Report

Report Date: 11/18/97
 Sample Collected: 09/15/97
 Received Date: 09/17/97

Facility: Regulatory Affairs
 Job Number: 97090140

Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB08-4

Lab ID: AA27597

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	ND	2	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	2	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	ND	2	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	2	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	2	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	2	ug/kg	24000000
306-83-2	1,1-DichloroTrifluoroethane	EPA 8260	ND	12	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	2	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	12	ug/kg	
67-64-1	Acetone	EPA 8260	15.3	12	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	ND	2	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	ND	12	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	ND	12	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	ND	12	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	12	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	ND	2	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	ND	2	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	2	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	ND	2	ug/kg	z
107-02-8	Acrolin	EPA 8260	ND	48	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	2	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	ND	2	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	ND	12	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	2	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	2	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	ND	2	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	2	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	2	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	2	ug/kg	11000
71-43-2	Benzene	EPA 8260	ND	2	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	ND	5	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	ND	2	ug/kg	14700



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Analytical Report

Report Date: 11/18/97
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Facility: Regulatory Affairs
Job Number: 97090140

Project Name: WASHOUGAL
Project No: 16957

Client ID: IAB08-4

Lab ID: AA27597

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>	
74-95-3	Dibromomethane	EPA 8260	ND	2	ug/kg	z	
75-27-4	Bromodichloromethane	EPA 8260	ND	2	ug/kg	16100	
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	2	ug/kg	z	
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	2	ug/kg	z	
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	12	ug/kg	64000000	
108-88-3	Toluene	EPA 8260	ND	5	ug/kg	16000000	
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	2	ug/kg	143	
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	2	ug/kg	z	
79-00-5	1,1,2-Trichloroethane	EPA 8260	ND	2	ug/kg	17500	
142-28-9	1,3-Dichloropropane	EPA 8260	ND	2	ug/kg	z	
127-18-4	Tetrachloroethene	EPA 8260	ND	2	ug/kg	19600	
591-78-6	2-Hexanone	EPA 8260	ND	12	ug/kg	z	
106-93-4	1,2-Dibromoethane	EPA 8260	ND	2	ug/kg	1.18	Q
124-48-1	Dibromochloromethane	EPA 8260	ND	2	ug/kg	11900	
108-90-7	Chlorobenzene	EPA 8260	ND	2	ug/kg	1600000	
100-41-4	Ethylbenzene	EPA 8260	ND	2	ug/kg	8000000	
106-42-3	m,p-Xylene	EPA 8260	ND	2	ug/kg	z	
95-47-6	o-Xylene	EPA 8260	ND	2	ug/kg	16000000	
100-42-5	Styrene	EPA 8260	ND	2	ug/kg	33300	
75-25-2	Bromoform	EPA 8260	ND	2	ug/kg	127000	
98-82-8	Isopropylbenzene	EPA 8260	ND	2	ug/kg	z	
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	7	ug/kg	5000	
108-86-1	Bromobenzene	EPA 8260	ND	2	ug/kg	z	
103-65-1	n-propylbenzene	EPA 8260	ND	2	ug/kg	z	
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	ND	2	ug/kg	z	
95-49-8	2-Chlorotoluene	EPA 8260	ND	2	ug/kg	1600000	
106-43-4	4-Chlorotoluene	EPA 8260	ND	2	ug/kg	z	
98-06-6	tert-Butylbenzene	EPA 8260	ND	2	ug/kg	z	
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	ND	2	ug/kg	z	
135-98-8	sec-Butylbenzene	EPA 8260	ND	2	ug/kg	z	
541-73-1	1,3-Dichlorobenzene	EPA 8260	ND	2	ug/kg	z	
106-46-7	1,4-Dichlorobenzene	EPA 8260	ND	2	ug/kg	41700	
104-51-8	n-Butylbenzene	EPA 8260	ND	2	ug/kg	z	



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Analytical Report

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 Project No: 16957

Client ID: IAB08-4

Lab ID: AA27597

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
99-87-6	p-Isopropyltoluene	EPA 8260	ND	2	ug/kg	z
95-50-1	1,2-Dichlorobenzene	EPA 8260	ND	2	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	12	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	ND	2	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	2	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	ND	12	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	ND	2	ug/kg	z
EPA 8270 Solid						
62-53-3	Aniline	EPA 8270	ND	167	ug/kg	175000
111-44-4	bis(2-Chloroethyl)ether	EPA 8270	ND	33	ug/kg	909
108-95-2	Phenol	EPA 8270	ND	33	ug/kg	48000000
95-57-8	2-Chlorophenol	EPA 8270	ND	33	ug/kg	400000
541-73-1	1,3-Dichlorobenzene	EPA 8270	ND	33	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8270	ND	33	ug/kg	41700
95-50-1	1,2-Dichlorobenzene	EPA 8270	ND	33	ug/kg	7200000
100-51-6	Benzyl alcohol	EPA 8270	ND	67	ug/kg	24000000
39638-32-9	bis(2-chloroisopropyl)ether	EPA 8270	ND	33	ug/kg	3200000
95-48-7	2-Methylphenol	EPA 8270	ND	33	ug/kg	4000000
98-86-2	Acetophenone	EPA 8270	ND	167	ug/kg	8000000
67-72-1	Hexachloroethane	EPA 8270	ND	33	ug/kg	71400
621-64-7	N-Nitroso-di-n-propylamine	EPA 8270	ND	33	ug/kg	143
106-44-5	4-Methylphenol	EPA 8270	ND	33	ug/kg	400000
98-95-3	Nitrobenzene	EPA 8270	ND	33	ug/kg	40000
78-59-1	Isophorone	EPA 8270	ND	33	ug/kg	1050000
88-75-5	2-Nitrophenol	EPA 8270	ND	33	ug/kg	z
105-67-9	2,4-Dimethylphenol	EPA 8270	ND	33	ug/kg	1600000
111-91-1	bis(2-Chloroethoxy)methane	EPA 8270	ND	33	ug/kg	z
120-83-2	2,4-Dichlorophenol	EPA 8270	ND	33	ug/kg	240000
120-82-1	1,2,4-Trichlorobenzene	EPA 8270	ND	33	ug/kg	800000
91-20-3	Naphthalene	EPA 8270	ND	33	ug/kg	3200000
106-47-8	4-Chloroaniline	EPA 8270	ND	67	ug/kg	320000
87-68-3	Hexachlorobutadiene	EPA 8270	ND	33	ug/kg	12800
65-85-0	Benzoic Acid	EPA 8270	ND	167	ug/kg	32000000



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 Project No: 16957

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Lab ID: AA27597

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
59-50-7	4-Chloro-3-methylphenol	EPA 8270	ND	67	ug/kg	z
91-57-6	2-Methylnaphthalene	EPA 8270	ND	33	ug/kg	z
77-47-4	Hexachlorocyclopentadiene	EPA 8270	ND	33	ug/kg	560000
88-06-2	2,4,6-Trichlorophenol	EPA 8270	ND	33	ug/kg	90900
95-95-4	2,4,5-Trichlorophenol	EPA 8270	ND	33	ug/kg	8000000
91-58-7	2-Chloronaphthalene	EPA 8270	ND	33	ug/kg	6400
88-74-4	2-Nitroaniline	EPA 8270	ND	67	ug/kg	z
208-96-8	Acenaphthylene	EPA 8270	ND	33	ug/kg	z
131-11-3	Dimethylphthalate	EPA 8270	ND	33	ug/kg	80000000
606-20-2	2,6-Dinitrotoluene	EPA 8270	ND	33	ug/kg	80000
83-32-9	Acenaphthene	EPA 8270	ND	33	ug/kg	4800000
99-09-2	3-Nitroaniline	EPA 8270	ND	167	ug/kg	z
51-28-5	2,4-Dinitrophenol	EPA 8270	ND	167	ug/kg	160000
132-64-9	Dibenzofuran	EPA 8270	ND	167	ug/kg	z
121-14-2	2,4-Dinitrotoluene	EPA 8270	ND	33	ug/kg	160000
100-02-7	4-Nitrophenol	EPA 8270	ND	33	ug/kg	z
86-73-7	Fluorene	EPA 8270	ND	33	ug/kg	3200000
7005-72-3	4-Chlorophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
84-66-2	Diethylphthalate	EPA 8270	ND	33	ug/kg	64000000
100-01-6	4-Nitroaniline	EPA 8270	ND	167	ug/kg	z
534-52-1	4,6-Dinitro-2-methylphenol	EPA 8270	ND	167	ug/kg	z
86-30-6	n-Nitrosodiphenylamine	EPA 8270	ND	33	ug/kg	204000
103-33-3	Azobenzene	EPA 8270	ND	33	ug/kg	z
101-55-3	4-Bromophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
118-74-1	Hexachlorobenzene	EPA 8270	ND	33	ug/kg	625
87-86-5	Pentachlorophenol	EPA 8270	ND	167	ug/kg	8330
85-01-8	Phenanthrene	EPA 8270	ND	33	ug/kg	z
120-12-7	Anthracene	EPA 8270	ND	33	ug/kg	24000000
84-74-2	Di-n-butylphthalate	EPA 8270	ND	33	ug/kg	8000000
206-44-0	Fluoranthene	EPA 8270	ND	33	ug/kg	3200000
92-87-5	Benzidine	EPA 8270	ND	33	ug/kg	4.35
129-00-0	Pyrene	EPA 8270	ND	33	ug/kg	2400000
85-68-7	Butylbenzylphthalate	EPA 8270	ND	33	ug/kg	16000000

Q



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Analytical Report

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Facility: Regulatory Affairs
Job Number: 97090140

Project Name: WASHOUGAL
Project No: 16957

Client ID: IAB08-4

Lab ID: AA27597

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
91-94-1	3,3'-Dichlorobenzidine	EPA 8270	ND	33	ug/kg	2220
56-55-3	Benzo[a]anthracene	EPA 8270	ND	67	ug/kg	137
218-01-9	Chrysene	EPA 8270	ND	33	ug/kg	137
117-81-7	bis(2-Ethylhexyl)phthalate	EPA 8270	ND	167	ug/kg	71400
117-84-0	Di-n-octylphthalate	EPA 8270	ND	33	ug/kg	1600000
205-99-2	Benzo[b]fluoranthene	EPA 8270	ND	33	ug/kg	137
207-08-9	Benzo[k]fluoranthene	EPA 8270	ND	33	ug/kg	137
50-32-8	Benzo[a]pyrene	EPA 8270	ND	33	ug/kg	137
193-39-5	Indeno[1,2,3-cd]pyrene	EPA 8270	ND	33	ug/kg	137
53-70-3	Dibenz[a,h]anthracene	EPA 8270	ND	33	ug/kg	137
191-24-2	Benzo[g,h,i]perylene	EPA 8270	ND	33	ug/kg	z

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

E = The concentration of this analyte exceeds the calibration range of the instrument.

Q = Analyte concentration and/or MDL is greater than the 1996 MTCA B Limits.

z = Analyte not listed in 1996 MTCA Method B.



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Facility: Regulatory Affairs
 Job Number: 97090140

Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB08-6

Lab ID: AA27598

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	ND	2	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	2	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	ND	2	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	2	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	2	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	2	ug/kg	24000000
306-83-2	1,1-DichloroTrifluoroethane	EPA 8260	ND	11	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	2	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	11	ug/kg	
67-64-1	Acetone	EPA 8260	42.8	11	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	ND	2	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	ND	11	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	ND	11	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	ND	11	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	11	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	ND	2	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	ND	2	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	2	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	ND	2	ug/kg	z
107-02-8	Acrolin	EPA 8260	ND	42	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	2	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	ND	2	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	ND	11	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	2	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	2	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	ND	2	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	2	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	2	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	2	ug/kg	11000
71-43-2	Benzene	EPA 8260	ND	2	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	ND	4	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	ND	2	ug/kg	14700



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Analytical Report

Report Date: 11/18/97	Facility: Regulatory Affairs	Project Name: WASHOUGAL
Sample Collected: 09/15/97	Job Number: 97090140	Project No: 16957
Received Date: 09/17/97		

Client ID: IAB08-6

Lab ID: AA27598

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
74-95-3	Dibromomethane	EPA 8260	ND	2	ug/kg	z
75-27-4	Bromodichloromethane	EPA 8260	ND	2	ug/kg	16100
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	2	ug/kg	z
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	2	ug/kg	z
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	11	ug/kg	64000000
108-88-3	Toluene	EPA 8260	13.0	4	ug/kg	16000000
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	2	ug/kg	143
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	2	ug/kg	z
79-00-5	1,1,2-Trichloroethane	EPA 8260	ND	2	ug/kg	17500
142-28-9	1,3-Dichloropropane	EPA 8260	ND	2	ug/kg	z
127-18-4	Tetrachloroethene	EPA 8260	2.63	2	ug/kg	19600
591-78-6	2-Hexanone	EPA 8260	ND	11	ug/kg	z
106-93-4	1,2-Dibromoethane	EPA 8260	ND	2	ug/kg	1.18
124-48-1	Dibromochloromethane	EPA 8260	ND	2	ug/kg	11900
108-90-7	Chlorobenzene	EPA 8260	ND	2	ug/kg	1600000
100-41-4	Ethylbenzene	EPA 8260	18.2	2	ug/kg	8000000
106-42-3	m,p-Xylene	EPA 8260	54.9	2	ug/kg	z
95-47-6	o-Xylene	EPA 8260	10.4	2	ug/kg	16000000
100-42-5	Styrene	EPA 8260	ND	2	ug/kg	33300
75-25-2	Bromoform	EPA 8260	ND	2	ug/kg	127000
98-82-8	Isopropylbenzene	EPA 8260	ND	2	ug/kg	z
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	6	ug/kg	5000
108-86-1	Bromobenzene	EPA 8260	ND	2	ug/kg	z
103-65-1	n-propylbenzene	EPA 8260	ND	2	ug/kg	z
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	ND	2	ug/kg	z
95-49-8	2-Chlorotoluene	EPA 8260	ND	2	ug/kg	1600000
106-43-4	4-Chlorotoluene	EPA 8260	ND	2	ug/kg	z
98-06-6	tert-Butylbenzene	EPA 8260	ND	2	ug/kg	z
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	3.45	2	ug/kg	z
135-98-8	sec-Butylbenzene	EPA 8260	ND	2	ug/kg	z
541-73-1	1,3-Dichlorobenzene	EPA 8260	ND	2	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8260	ND	2	ug/kg	41700
104-51-8	n-Butylbenzene	EPA 8260	ND	2	ug/kg	z



Phillip Environmental Laboratory
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Analytical Report

Report Date: 11/18/97
 Sample Collected: 09/15/97
 Received Date: 09/17/97

Facility: Regulatory Affairs
 Job Number: 97090140

Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB08-6

Lab ID: AA27598

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
99-87-6	p-Isopropyltoluene	EPA 8260	ND	2	ug/kg	z
95-50-1	1,2-Dichlorobenzene	EPA 8260	ND	2	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	11	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	ND	2	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	2	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	ND	11	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	ND	2	ug/kg	z
EPA 8270 Solid						
62-53-3	Analine	EPA 8270	ND	167	ug/kg	175000
111-44-4	bis(2-Chloroethyl)ether	EPA 8270	ND	33	ug/kg	909
108-95-2	Phenol	EPA 8270	ND	33	ug/kg	48000000
95-57-8	2-Chlorophenol	EPA 8270	ND	33	ug/kg	400000
541-73-1	1,3-Dichlorobenzene	EPA 8270	ND	33	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8270	ND	33	ug/kg	41700
95-50-1	1,2-Dichlorobenzene	EPA 8270	ND	33	ug/kg	7200000
100-51-6	Benzyl alcohol	EPA 8270	ND	67	ug/kg	24000000
39638-32-9	bis(2-chloroisopropyl)ether	EPA 8270	ND	33	ug/kg	3200000
95-48-7	2-Methylphenol	EPA 8270	ND	33	ug/kg	4000000
98-86-2	Acetophenone	EPA 8270	ND	167	ug/kg	8000000
67-72-1	Hexachloroethane	EPA 8270	ND	33	ug/kg	71400
621-64-7	N-Nitroso-di-n-propylamine	EPA 8270	ND	33	ug/kg	143
106-44-5	4-Methylphenol	EPA 8270	ND	33	ug/kg	400000
98-95-3	Nitrobenzene	EPA 8270	ND	33	ug/kg	40000
78-59-1	Isophorone	EPA 8270	ND	33	ug/kg	1050000
88-75-5	2-Nitrophenol	EPA 8270	ND	33	ug/kg	z
105-67-9	2,4-Dimethylphenol	EPA 8270	ND	33	ug/kg	1600000
111-91-1	bis(2-Chloroethoxy)methane	EPA 8270	ND	33	ug/kg	z
120-83-2	2,4-Dichlorophenol	EPA 8270	ND	33	ug/kg	240000
120-82-1	1,2,4-Trichlorobenzene	EPA 8270	ND	33	ug/kg	800000
91-20-3	Naphthalene	EPA 8270	ND	33	ug/kg	3200000
106-47-8	4-Chloroaniline	EPA 8270	ND	67	ug/kg	320000
87-68-3	Hexachlorobutadiene	EPA 8270	ND	33	ug/kg	12800
65-85-0	Benzoic Acid	EPA 8270	ND	167	ug/kg	32000000



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CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
59-50-7	4-Chloro-3-methylphenol	EPA 8270	ND	67	ug/kg	z
91-57-6	2-Methylnaphthalene	EPA 8270	ND	33	ug/kg	z
77-47-4	Hexachlorocyclopentadiene	EPA 8270	ND	33	ug/kg	560000
88-06-2	2,4,6-Trichlorophenol	EPA 8270	ND	33	ug/kg	90900
95-95-4	2,4,5-Trichlorophenol	EPA 8270	ND	33	ug/kg	8000000
91-58-7	2-Chloronaphthalene	EPA 8270	ND	33	ug/kg	6400
88-74-4	2-Nitroaniline	EPA 8270	ND	67	ug/kg	z
208-96-8	Acenaphthylene	EPA 8270	ND	33	ug/kg	z
131-11-3	Dimethylphthalate	EPA 8270	ND	33	ug/kg	80000000
606-20-2	2,6-Dinitrotoluene	EPA 8270	ND	33	ug/kg	80000
83-32-9	Acenaphthene	EPA 8270	ND	33	ug/kg	4800000
99-09-2	3-Nitroaniline	EPA 8270	ND	167	ug/kg	z
51-28-5	2,4-Dinitrophenol	EPA 8270	ND	167	ug/kg	160000
132-64-9	Dibenzofuran	EPA 8270	ND	167	ug/kg	z
121-14-2	2,4-Dinitrotoluene	EPA 8270	ND	33	ug/kg	160000
100-02-7	4-Nitrophenol	EPA 8270	ND	33	ug/kg	z
86-73-7	Fluorene	EPA 8270	ND	33	ug/kg	3200000
7005-72-3	4-Chlorophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
84-66-2	Diethylphthalate	EPA 8270	ND	33	ug/kg	64000000
100-01-6	4-Nitroaniline	EPA 8270	ND	167	ug/kg	z
534-52-1	4,6-Dinitro-2-methylphenol	EPA 8270	ND	167	ug/kg	z
86-30-6	n-Nitrosodiphenylamine	EPA 8270	ND	33	ug/kg	204000
103-33-3	Azobenzene	EPA 8270	ND	33	ug/kg	z
101-55-3	4-Bromophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
118-74-1	Hexachlorobenzene	EPA 8270	ND	33	ug/kg	625
87-86-5	Pentachlorophenol	EPA 8270	ND	167	ug/kg	8330
85-01-8	Phenanthrene	EPA 8270	ND	33	ug/kg	z
120-12-7	Anthracene	EPA 8270	ND	33	ug/kg	24000000
84-74-2	Di-n-butylphthalate	EPA 8270	ND	33	ug/kg	8000000
206-44-0	Fluoranthene	EPA 8270	ND	33	ug/kg	3200000
92-87-5	Benzidine	EPA 8270	ND	33	ug/kg	4.35
129-00-0	Pyrene	EPA 8270	ND	33	ug/kg	2400000
85-68-7	Butylbenzylphthalate	EPA 8270	ND	33	ug/kg	16000000

Q



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Facility: Regulatory Affairs
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Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB08-6

Lab ID: AA27598

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
91-94-1	3,3'-Dichlorobenzidine	EPA 8270	ND	33	ug/kg	2220
56-55-3	Benzo[a]anthracene	EPA 8270	ND	67	ug/kg	137
218-01-9	Chrysene	EPA 8270	ND	33	ug/kg	137
117-81-7	bis(2-Ethylhexyl)phthalate	EPA 8270	ND	167	ug/kg	71400
117-84-0	Di-n-octylphthalate	EPA 8270	ND	33	ug/kg	1600000
205-99-2	Benzo[b]fluoranthene	EPA 8270	ND	33	ug/kg	137
207-08-9	Benzo[k]fluoranthene	EPA 8270	ND	33	ug/kg	137
50-32-8	Benzo[a]pyrene	EPA 8270	ND	33	ug/kg	137
193-39-5	Indeno[1,2,3-cd]pyrene	EPA 8270	ND	33	ug/kg	137
53-70-3	Dibenz[a,h]anthracene	EPA 8270	ND	33	ug/kg	137
191-24-2	Benzo[g,h,i]perylene	EPA 8270	ND	33	ug/kg	z

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

E = The concentration of this analyte exceeds the calibration range of the instrument.

Q = Analyte concentration and/or MDL is greater than the 1996 MTCA B Limits.

z = Analyte not listed in 1996 MTCA Method B.

SOIL BORING DATA AT MC-18



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Facility: Regulatory Affairs
 Job Number: 97090140

Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB01-2

Lab ID: AA27587

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	ND	3	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	3	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	ND	3	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	3	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	3	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	3	ug/kg	24000000
306-83-2	1,1-DichloroTrifluoroethane	EPA 8260	ND	17	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	3	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	17	ug/kg	
67-64-1	Acetone	EPA 8260	ND	17	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	ND	3	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	ND	17	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	ND	17	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	ND	17	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	17	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	ND	3	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	ND	3	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	3	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	ND	3	ug/kg	z
107-02-8	Acrolin	EPA 8260	ND	67	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	3	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	ND	3	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	ND	17	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	3	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	3	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	ND	3	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	3	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	3	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	3	ug/kg	11000
71-43-2	Benzene	EPA 8260	ND	3	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	ND	7	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	ND	3	ug/kg	14700



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Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB01-2

Lab ID: AA27587

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
74-95-3	Dibromomethane	EPA 8260	ND	3	ug/kg	z
75-27-4	Bromodichloromethane	EPA 8260	ND	3	ug/kg	16100
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	3	ug/kg	z
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	3	ug/kg	z
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	17	ug/kg	64000000
108-88-3	Toluene	EPA 8260	ND	7	ug/kg	16000000
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	3	ug/kg	143
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	3	ug/kg	z
79-00-5	1,1,2-Trichloroethane	EPA 8260	ND	3	ug/kg	17500
142-28-9	1,3-Dichloropropane	EPA 8260	ND	3	ug/kg	z
127-18-4	Tetrachloroethene	EPA 8260	ND	3	ug/kg	19600
591-78-6	2-Hexanone	EPA 8260	ND	17	ug/kg	z
106-93-4	1,2-Dibromoethane	EPA 8260	ND	3	ug/kg	1.18
124-48-1	Dibromochloromethane	EPA 8260	ND	3	ug/kg	11900
108-90-7	Chlorobenzene	EPA 8260	ND	3	ug/kg	1600000
100-41-4	Ethylbenzene	EPA 8260	ND	3	ug/kg	8000000
106-42-3	m,p-Xylene	EPA 8260	ND	3	ug/kg	z
95-47-6	o-Xylene	EPA 8260	ND	3	ug/kg	16000000
100-42-5	Styrene	EPA 8260	ND	3	ug/kg	33300
75-25-2	Bromoform	EPA 8260	ND	3	ug/kg	127000
98-82-8	Isopropylbenzene	EPA 8260	ND	3	ug/kg	z
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	10	ug/kg	5000
108-86-1	Bromobenzene	EPA 8260	ND	3	ug/kg	z
103-65-1	n-propylbenzene	EPA 8260	ND	3	ug/kg	z
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	ND	3	ug/kg	z
95-49-8	2-Chlorotoluene	EPA 8260	ND	3	ug/kg	1600000
106-43-4	4-Chlorotoluene	EPA 8260	ND	3	ug/kg	z
98-06-6	tert-Butylbenzene	EPA 8260	ND	3	ug/kg	z
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	ND	3	ug/kg	z
135-98-8	sec-Butylbenzene	EPA 8260	ND	3	ug/kg	z
541-73-1	1,3-Dichlorobenzene	EPA 8260	ND	3	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8260	ND	3	ug/kg	41700
104-51-8	n-Butylbenzene	EPA 8260	ND	3	ug/kg	z

Q



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Lab ID: AA27587

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
99-87-6	p-Isopropyltoluene	EPA 8260	ND	3	ug/kg	z
95-50-1	1,2-Dichlorobenzene	EPA 8260	ND	3	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	17	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	ND	3	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	3	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	ND	17	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	ND	3	ug/kg	z
EPA 8270 Solid						
62-53-3	Aniline	EPA 8270	ND	167	ug/kg	175000
111-44-4	bis(2-Chloroethyl)ether	EPA 8270	ND	33	ug/kg	909
108-95-2	Phenol	EPA 8270	ND	33	ug/kg	48000000
95-57-8	2-Chlorophenol	EPA 8270	ND	33	ug/kg	400000
541-73-1	1,3-Dichlorobenzene	EPA 8270	ND	33	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8270	ND	33	ug/kg	41700
95-50-1	1,2-Dichlorobenzene	EPA 8270	ND	33	ug/kg	7200000
100-51-6	Benzyl alcohol	EPA 8270	ND	67	ug/kg	24000000
39638-32-9	bis(2-chloroisopropyl)ether	EPA 8270	ND	33	ug/kg	3200000
95-48-7	2-Methylphenol	EPA 8270	ND	33	ug/kg	4000000
98-86-2	Acetophenone	EPA 8270	ND	167	ug/kg	8000000
67-72-1	Hexachloroethane	EPA 8270	ND	33	ug/kg	71400
621-64-7	N-Nitroso-di-n-propylamine	EPA 8270	ND	33	ug/kg	143
106-44-5	4-Methylphenol	EPA 8270	ND	33	ug/kg	400000
98-95-3	Nitrobenzene	EPA 8270	ND	33	ug/kg	40000
78-59-1	Isophorone	EPA 8270	ND	33	ug/kg	1050000
88-75-5	2-Nitrophenol	EPA 8270	ND	33	ug/kg	z
105-67-9	2,4-Dimethylphenol	EPA 8270	ND	33	ug/kg	1600000
111-91-1	bis(2-Chloroethoxy)methane	EPA 8270	ND	33	ug/kg	z
120-83-2	2,4-Dichlorophenol	EPA 8270	ND	33	ug/kg	240000
120-82-1	1,2,4-Trichlorobenzene	EPA 8270	ND	33	ug/kg	800000
91-20-3	Naphthalene	EPA 8270	ND	33	ug/kg	3200000
106-47-8	4-Chloroaniline	EPA 8270	ND	67	ug/kg	320000
87-68-3	Hexachlorobutadiene	EPA 8270	ND	33	ug/kg	12800
65-85-0	Benzoic Acid	EPA 8270	ND	167	ug/kg	3200000



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Lab ID: AA27587

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
59-50-7	4-Chloro-3-methylphenol	EPA 8270	ND	67	ug/kg	z
91-57-6	2-Methylnaphthalene	EPA 8270	ND	33	ug/kg	z
77-47-4	Hexachlorocyclopentadiene	EPA 8270	ND	33	ug/kg	560000
88-06-2	2,4,6-Trichlorophenol	EPA 8270	ND	33	ug/kg	90900
95-95-4	2,4,5-Trichlorophenol	EPA 8270	ND	33	ug/kg	8000000
91-58-7	2-Chloronaphthalene	EPA 8270	ND	33	ug/kg	6400
88-74-4	2-Nitroaniline	EPA 8270	ND	67	ug/kg	z
208-96-8	Acenaphthylene	EPA 8270	ND	33	ug/kg	z
131-11-3	Dimethylphthalate	EPA 8270	ND	33	ug/kg	80000000
606-20-2	2,6-Dinitrotoluene	EPA 8270	ND	33	ug/kg	80000
83-32-9	Acenaphthene	EPA 8270	ND	33	ug/kg	4800000
99-09-2	3-Nitroaniline	EPA 8270	ND	167	ug/kg	z
51-28-5	2,4-Dinitrophenol	EPA 8270	ND	167	ug/kg	160000
132-64-9	Dibenzofuran	EPA 8270	ND	167	ug/kg	z
121-14-2	2,4-Dinitrotoluene	EPA 8270	ND	33	ug/kg	160000
100-02-7	4-Nitrophenol	EPA 8270	ND	33	ug/kg	z
86-73-7	Fluorene	EPA 8270	ND	33	ug/kg	3200000
7005-72-3	4-Chlorophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
84-66-2	Diethylphthalate	EPA 8270	ND	33	ug/kg	64000000
100-01-6	4-Nitroaniline	EPA 8270	ND	167	ug/kg	z
534-52-1	4,6-Dinitro-2-methylphenol	EPA 8270	ND	167	ug/kg	z
86-30-6	n-Nitrosodiphenylamine	EPA 8270	ND	33	ug/kg	204000
103-33-3	Azobenzene	EPA 8270	ND	33	ug/kg	z
101-55-3	4-Bromophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
118-74-1	Hexachlorobenzene	EPA 8270	ND	33	ug/kg	625
87-86-5	Pentachlorophenol	EPA 8270	ND	167	ug/kg	8330
85-01-8	Phenanthrene	EPA 8270	ND	33	ug/kg	z
120-12-7	Anthracene	EPA 8270	ND	33	ug/kg	24000000
84-74-2	Di-n-butylphthalate	EPA 8270	ND	33	ug/kg	8000000
206-44-0	Fluoranthene	EPA 8270	ND	33	ug/kg	3200000
92-87-5	Benzidine	EPA 8270	ND	33	ug/kg	4.35
129-00-0	Pyrene	EPA 8270	ND	33	ug/kg	2400000
85-68-7	Butylbenzylphthalate	EPA 8270	ND	33	ug/kg	16000000

Q



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Analytical Report

Report Date: 11/18/97
Sample Collected: 09/15/97
Received Date: 09/17/97

Facility: Regulatory Affairs
Job Number: 97090140

Project Name: WASHOUGAL
Project No: 16957

Client ID: IAB01-2

Lab ID: AA27587

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
91-94-1	3,3'-Dichlorobenzidine	EPA 8270	ND	33	ug/kg	2220
56-55-3	Benzo[a]anthracene	EPA 8270	ND	67	ug/kg	137
218-01-9	Chrysene	EPA 8270	ND	33	ug/kg	137
117-81-7	bis(2-Ethylhexyl)phthalate	EPA 8270	ND	167	ug/kg	71400
117-84-0	Di-n-octylphthalate	EPA 8270	ND	33	ug/kg	1600000
205-99-2	Benzo[b]fluoranthene	EPA 8270	ND	33	ug/kg	137
207-08-9	Benzo[k]fluoranthene	EPA 8270	ND	33	ug/kg	137
50-32-8	Benzo[a]pyrene	EPA 8270	ND	33	ug/kg	137
193-39-5	Indeno[1,2,3-cd]pyrene	EPA 8270	ND	33	ug/kg	137
53-70-3	Dibenz[a,h]anthracene	EPA 8270	ND	33	ug/kg	137
191-24-2	Benzo[g,h,i]perylene	EPA 8270	ND	33	ug/kg	z

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

E = The concentration of this analyte exceeds the calibration range of the instrument.

Q = Analyte concentration and/or MDL is greater than the 1996 MTCA B Limits.

z = Analyte not listed in 1996 MTCA Method B.

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Analytical Report

Report Date: 11/18/97
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Facility: Regulatory Affairs
Job Number: 97090140

Project Name: WASHOUGAL
Project No: 16957

Client ID: IAB01-4

Lab ID: AA27588

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	ND	3	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	3	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	ND	3	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	3	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	3	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	3	ug/kg	24000000
306-83-2	1,1-DichloroTrifluoroethane	EPA 8260	ND	16	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	3	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	16	ug/kg	
67-64-1	Acetone	EPA 8260	ND	16	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	ND	3	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	ND	16	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	ND	16	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	ND	16	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	16	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	ND	3	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	ND	3	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	3	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	ND	3	ug/kg	z
107-02-8	Acrolin	EPA 8260	ND	65	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	3	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	ND	3	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	ND	16	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	3	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	3	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	ND	3	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	3	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	3	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	3	ug/kg	11000
71-43-2	Benzene	EPA 8260	ND	3	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	11.3	7	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	ND	3	ug/kg	14700



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Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB01-4

Lab ID: AA27588

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
74-95-3	Dibromomethane	EPA 8260	ND	3	ug/kg	z
75-27-4	Bromodichloromethane	EPA 8260	ND	3	ug/kg	16100
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	3	ug/kg	z
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	3	ug/kg	z
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	16	ug/kg	64000000
108-88-3	Toluene	EPA 8260	ND	7	ug/kg	16000000
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	3	ug/kg	143
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	3	ug/kg	z
79-00-5	1,1,2-Trichloroethane	EPA 8260	ND	3	ug/kg	17500
142-28-9	1,3-Dichloropropane	EPA 8260	ND	3	ug/kg	z
127-18-4	Tetrachloroethene	EPA 8260	ND	3	ug/kg	19600
591-78-6	2-Hexanone	EPA 8260	ND	16	ug/kg	z
106-93-4	1,2-Dibromoethane	EPA 8260	ND	3	ug/kg	1.18
124-48-1	Dibromochloromethane	EPA 8260	ND	3	ug/kg	11900
108-90-7	Chlorobenzene	EPA 8260	ND	3	ug/kg	1600000
100-41-4	Ethylbenzene	EPA 8260	ND	3	ug/kg	8000000
106-42-3	m,p-Xylene	EPA 8260	ND	3	ug/kg	z
95-47-6	o-Xylene	EPA 8260	ND	3	ug/kg	16000000
100-42-5	Styrene	EPA 8260	ND	3	ug/kg	33300
75-25-2	Bromoform	EPA 8260	ND	3	ug/kg	127000
98-82-8	Isopropylbenzene	EPA 8260	ND	3	ug/kg	z
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	10	ug/kg	5000
108-86-1	Bromobenzene	EPA 8260	ND	3	ug/kg	z
103-65-1	n-propylbenzene	EPA 8260	ND	3	ug/kg	z
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	ND	3	ug/kg	z
95-49-8	2-Chlorotoluene	EPA 8260	ND	3	ug/kg	1600000
106-43-4	4-Chlorotoluene	EPA 8260	ND	3	ug/kg	z
98-06-6	tert-Butylbenzene	EPA 8260	ND	3	ug/kg	z
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	ND	3	ug/kg	z
135-98-8	sec-Butylbenzene	EPA 8260	ND	3	ug/kg	z
541-73-1	1,3-Dichlorobenzene	EPA 8260	ND	3	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8260	ND	3	ug/kg	41700
104-51-8	n-Butylbenzene	EPA 8260	ND	3	ug/kg	z

Q



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 Project No: 16957

Client ID: IAB01-4

Lab ID: AA27588

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
99-87-6	p-Isopropyltoluene	EPA 8260	ND	3	ug/kg	z
95-50-1	1,2-Dichlorobenzene	EPA 8260	ND	3	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	16	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	ND	3	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	3	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	ND	16	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	ND	3	ug/kg	z
EPA 8270 Solid						
62-53-3	Aniline	EPA 8270	ND	167	ug/kg	175000
111-44-4	bis(2-Chloroethyl)ether	EPA 8270	ND	33	ug/kg	909
108-95-2	Phenol	EPA 8270	ND	33	ug/kg	48000000
95-57-8	2-Chlorophenol	EPA 8270	ND	33	ug/kg	400000
541-73-1	1,3-Dichlorobenzene	EPA 8270	ND	33	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8270	ND	33	ug/kg	41700
95-50-1	1,2-Dichlorobenzene	EPA 8270	ND	33	ug/kg	7200000
100-51-6	Benzyl alcohol	EPA 8270	ND	67	ug/kg	24000000
39638-32-9	bis(2-chloroisopropyl)ether	EPA 8270	ND	33	ug/kg	3200000
95-48-7	2-Methylphenol	EPA 8270	ND	33	ug/kg	4000000
98-86-2	Acetophenone	EPA 8270	ND	167	ug/kg	8000000
67-72-1	Hexachloroethane	EPA 8270	ND	33	ug/kg	71400
621-64-7	N-Nitroso-di-n-propylamine	EPA 8270	ND	33	ug/kg	143
106-44-5	4-Methylphenol	EPA 8270	ND	33	ug/kg	400000
98-95-3	Nitrobenzene	EPA 8270	ND	33	ug/kg	40000
78-59-1	Isophorone	EPA 8270	ND	33	ug/kg	1050000
88-75-5	2-Nitrophenol	EPA 8270	ND	33	ug/kg	z
105-67-9	2,4-Dimethylphenol	EPA 8270	ND	33	ug/kg	1600000
111-91-1	bis(2-Chloroethoxy)methane	EPA 8270	ND	33	ug/kg	z
120-83-2	2,4-Dichlorophenol	EPA 8270	ND	33	ug/kg	240000
120-82-1	1,2,4-Trichlorobenzene	EPA 8270	ND	33	ug/kg	800000
91-20-3	Naphthalene	EPA 8270	ND	33	ug/kg	3200000
106-47-8	4-Chloroaniline	EPA 8270	ND	67	ug/kg	320000
87-68-3	Hexachlorobutadiene	EPA 8270	ND	33	ug/kg	12800
65-85-0	Benzoic Acid	EPA 8270	ND	167	ug/kg	32000000



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Lab ID: AA27588

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
59-50-7	4-Chloro-3-methylphenol	EPA 8270	ND	67	ug/kg	z
91-57-6	2-Methylnaphthalene	EPA 8270	ND	33	ug/kg	z
77-47-4	Hexachlorocyclopentadiene	EPA 8270	ND	33	ug/kg	560000
88-06-2	2,4,6-Trichlorophenol	EPA 8270	ND	33	ug/kg	90900
95-95-4	2,4,5-Trichlorophenol	EPA 8270	ND	33	ug/kg	8000000
91-58-7	2-Chloronaphthalene	EPA 8270	ND	33	ug/kg	6400
88-74-4	2-Nitroaniline	EPA 8270	ND	67	ug/kg	z
208-96-8	Acenaphthylene	EPA 8270	ND	33	ug/kg	z
131-11-3	Dimethylphthalate	EPA 8270	ND	33	ug/kg	80000000
606-20-2	2,6-Dinitrotoluene	EPA 8270	ND	33	ug/kg	80000
83-32-9	Acenaphthene	EPA 8270	ND	33	ug/kg	4800000
99-09-2	3-Nitroaniline	EPA 8270	ND	167	ug/kg	z
51-28-5	2,4-Dinitrophenol	EPA 8270	ND	167	ug/kg	160000
132-64-9	Dibenzofuran	EPA 8270	ND	167	ug/kg	z
121-14-2	2,4-Dinitrotoluene	EPA 8270	ND	33	ug/kg	160000
100-02-7	4-Nitrophenol	EPA 8270	ND	33	ug/kg	z
86-73-7	Fluorene	EPA 8270	ND	33	ug/kg	3200000
7005-72-3	4-Chlorophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
84-66-2	Diethylphthalate	EPA 8270	ND	33	ug/kg	64000000
100-01-6	4-Nitroaniline	EPA 8270	ND	167	ug/kg	z
534-52-1	4,6-Dinitro-2-methylphenol	EPA 8270	ND	167	ug/kg	z
86-30-6	n-Nitrosodiphenylamine	EPA 8270	ND	33	ug/kg	204000
103-33-3	Azobenzene	EPA 8270	ND	33	ug/kg	z
101-55-3	4-Bromophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
118-74-1	Hexachlorobenzene	EPA 8270	ND	33	ug/kg	625
87-86-5	Pentachlorophenol	EPA 8270	ND	167	ug/kg	8330
85-01-8	Phenanthrene	EPA 8270	ND	33	ug/kg	z
120-12-7	Anthracene	EPA 8270	ND	33	ug/kg	24000000
84-74-2	Di-n-butylphthalate	EPA 8270	ND	33	ug/kg	8000000
206-44-0	Fluoranthene	EPA 8270	ND	33	ug/kg	3200000
92-87-5	Benzidine	EPA 8270	ND	33	ug/kg	4.35
129-00-0	Pyrene	EPA 8270	ND	33	ug/kg	2400000
85-68-7	Butylbenzylphthalate	EPA 8270	ND	33	ug/kg	16000000

Q



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 Project No: 16957

Client ID: IAB01-4

Lab ID: AA27588

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
91-94-1	3,3'-Dichlorobenzidine	EPA 8270	ND	33	ug/kg	2220
56-55-3	Benzo[a]anthracene	EPA 8270	ND	67	ug/kg	137
218-01-9	Chrysene	EPA 8270	ND	33	ug/kg	137
117-81-7	bis(2-Ethylhexyl)phthalate	EPA 8270	ND	167	ug/kg	71400
117-84-0	Di-n-octylphthalate	EPA 8270	ND	33	ug/kg	1600000
205-99-2	Benzo[b]fluoranthene	EPA 8270	ND	33	ug/kg	137
207-08-9	Benzo[k]fluoranthene	EPA 8270	ND	33	ug/kg	137
50-32-8	Benzo[a]pyrene	EPA 8270	ND	33	ug/kg	137
193-39-5	Indeno[1,2,3-cd]pyrene	EPA 8270	ND	33	ug/kg	137
53-70-3	Dibenz[a,h]anthracene	EPA 8270	ND	33	ug/kg	137
191-24-2	Benzo[g,h,i]perylene	EPA 8270	ND	33	ug/kg	z

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

E = The concentration of this analyte exceeds the calibration range of the instrument.

Q = Analyte concentration and/or MDL is greater than the 1996 MTCA B Limits.

z = Analyte not listed in 1996 MTCA Method B.



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Analytical Report

Report Date: 11/18/97	Facility: Regulatory Affairs	Project Name: WASHOUGAL
Sample Collected: 09/15/97	Job Number: 97090140	Project No: 16957
Received Date: 09/17/97		

Client ID: IAB01-6

Lab ID: AA27589

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	ND	2	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	2	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	ND	2	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	2	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	2	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	2	ug/kg	24000000
306-83-2	1,1-DichloroTrifluoroethane	EPA 8260	ND	11	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	2	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	11	ug/kg	
67-64-1	Acetone	EPA 8260	27.3	11	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	ND	2	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	ND	11	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	ND	11	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	ND	11	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	11	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	ND	2	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	ND	2	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	2	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	ND	2	ug/kg	z
107-02-8	Acrolin	EPA 8260	ND	45	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	2	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	ND	2	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	ND	11	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	2	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	2	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	ND	2	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	2	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	2	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	2	ug/kg	11000
71-43-2	Benzene	EPA 8260	ND	2	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	ND	5	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	ND	2	ug/kg	14700



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Client ID: IAB01-6

Lab ID: AA27589

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
74-95-3	Dibromomethane	EPA 8260	ND	2	ug/kg	z
75-27-4	Bromodichloromethane	EPA 8260	ND	2	ug/kg	16100
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	2	ug/kg	z
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	2	ug/kg	z
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	11	ug/kg	64000000
108-88-3	Toluene	EPA 8260	ND	5	ug/kg	16000000
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	2	ug/kg	143
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	2	ug/kg	z
79-00-5	1,1,2-Trichloroethane	EPA 8260	ND	2	ug/kg	17500
142-28-9	1,3-Dichloropropane	EPA 8260	ND	2	ug/kg	z
127-18-4	Tetrachloroethene	EPA 8260	ND	2	ug/kg	19600
591-78-6	2-Hexanone	EPA 8260	ND	11	ug/kg	z
106-93-4	1,2-Dibromoethane	EPA 8260	ND	2	ug/kg	1.18
124-48-1	Dibromochloromethane	EPA 8260	ND	2	ug/kg	11900
108-90-7	Chlorobenzene	EPA 8260	ND	2	ug/kg	1600000
100-41-4	Ethylbenzene	EPA 8260	ND	2	ug/kg	8000000
106-42-3	m,p-Xylene	EPA 8260	ND	2	ug/kg	z
95-47-6	o-Xylene	EPA 8260	ND	2	ug/kg	16000000
100-42-5	Styrene	EPA 8260	ND	2	ug/kg	33300
75-25-2	Bromoform	EPA 8260	ND	2	ug/kg	127000
98-82-8	Isopropylbenzene	EPA 8260	ND	2	ug/kg	z
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	7	ug/kg	5000
108-86-1	Bromobenzene	EPA 8260	ND	2	ug/kg	z
103-65-1	n-propylbenzene	EPA 8260	ND	2	ug/kg	z
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	ND	2	ug/kg	z
95-49-8	2-Chlorotoluene	EPA 8260	ND	2	ug/kg	1600000
106-43-4	4-Chlorotoluene	EPA 8260	ND	2	ug/kg	z
98-06-6	tert-Butylbenzene	EPA 8260	ND	2	ug/kg	z
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	ND	2	ug/kg	z
135-98-8	sec-Butylbenzene	EPA 8260	ND	2	ug/kg	z
541-73-1	1,3-Dichlorobenzene	EPA 8260	ND	2	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8260	ND	2	ug/kg	41700
104-51-8	n-Butylbenzene	EPA 8260	ND	2	ug/kg	z

Q



Phillip Environmental Laboratory
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Analytical Report

Report Date: 11/18/97
 Sample Collected: 09/15/97
 Received Date: 09/17/97

Facility: Regulatory Affairs
 Job Number: 97090140

Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB01-6

Lab ID: AA27589

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
99-87-6	p-Isopropyltoluene	EPA 8260	ND	2	ug/kg	z
95-50-1	1,2-Dichlorobenzene	EPA 8260	ND	2	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	11	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	ND	2	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	2	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	ND	11	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	ND	2	ug/kg	z
EPA 8270 Solid						
62-53-3	Aniline	EPA 8270	ND	167	ug/kg	175000
111-44-4	bis(2-Chloroethyl)ether	EPA 8270	ND	33	ug/kg	909
108-95-2	Phenol	EPA 8270	ND	33	ug/kg	48000000
95-57-8	2-Chlorophenol	EPA 8270	ND	33	ug/kg	400000
541-73-1	1,3-Dichlorobenzene	EPA 8270	ND	33	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8270	ND	33	ug/kg	41700
95-50-1	1,2-Dichlorobenzene	EPA 8270	ND	33	ug/kg	7200000
100-51-6	Benzyl alcohol	EPA 8270	ND	67	ug/kg	24000000
39638-32-9	bis(2-chloroisopropyl)ether	EPA 8270	ND	33	ug/kg	3200000
95-48-7	2-Methylphenol	EPA 8270	ND	33	ug/kg	4000000
98-86-2	Acetophenone	EPA 8270	ND	167	ug/kg	8000000
67-72-1	Hexachloroethane	EPA 8270	ND	33	ug/kg	71400
621-64-7	N-Nitroso-di-n-propylamine	EPA 8270	ND	33	ug/kg	143
106-44-5	4-Methylphenol	EPA 8270	ND	33	ug/kg	400000
98-95-3	Nitrobenzene	EPA 8270	ND	33	ug/kg	40000
78-59-1	Isophorone	EPA 8270	ND	33	ug/kg	1050000
88-75-5	2-Nitrophenol	EPA 8270	ND	33	ug/kg	z
105-67-9	2,4-Dimethylphenol	EPA 8270	ND	33	ug/kg	1600000
111-91-1	bis(2-Chloroethoxy)methane	EPA 8270	ND	33	ug/kg	z
120-83-2	2,4-Dichlorophenol	EPA 8270	ND	33	ug/kg	240000
120-82-1	1,2,4-Trichlorobenzene	EPA 8270	ND	33	ug/kg	800000
91-20-3	Naphthalene	EPA 8270	ND	33	ug/kg	3200000
106-47-8	4-Chloroaniline	EPA 8270	ND	67	ug/kg	320000
87-68-3	Hexachlorobutadiene	EPA 8270	ND	33	ug/kg	12800
65-85-0	Benzoic Acid	EPA 8270	ND	167	ug/kg	32000000



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Lab ID: AA27589

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
59-50-7	4-Chloro-3-methylphenol	EPA 8270	ND	67	ug/kg	z
91-57-6	2-Methylnaphthalene	EPA 8270	ND	33	ug/kg	z
77-47-4	Hexachlorocyclopentadiene	EPA 8270	ND	33	ug/kg	560000
88-06-2	2,4,6-Trichlorophenol	EPA 8270	ND	33	ug/kg	90900
95-95-4	2,4,5-Trichlorophenol	EPA 8270	ND	33	ug/kg	8000000
91-58-7	2-Chloronaphthalene	EPA 8270	ND	33	ug/kg	6400
88-74-4	2-Nitroaniline	EPA 8270	ND	67	ug/kg	z
208-96-8	Acenaphthylene	EPA 8270	ND	33	ug/kg	z
131-11-3	Dimethylphthalate	EPA 8270	ND	33	ug/kg	80000000
606-20-2	2,6-Dinitrotoluene	EPA 8270	ND	33	ug/kg	80000
83-32-9	Acenaphthene	EPA 8270	ND	33	ug/kg	4800000
99-09-2	3-Nitroaniline	EPA 8270	ND	167	ug/kg	z
51-28-5	2,4-Dinitrophenol	EPA 8270	ND	167	ug/kg	160000
132-64-9	Dibenzofuran	EPA 8270	ND	167	ug/kg	z
121-14-2	2,4-Dinitrotoluene	EPA 8270	ND	33	ug/kg	160000
100-02-7	4-Nitrophenol	EPA 8270	ND	33	ug/kg	z
86-73-7	Fluorene	EPA 8270	ND	33	ug/kg	3200000
7005-72-3	4-Chlorophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
84-66-2	Diethylphthalate	EPA 8270	ND	33	ug/kg	64000000
100-01-6	4-Nitroaniline	EPA 8270	ND	167	ug/kg	z
534-52-1	4,6-Dinitro-2-methylphenol	EPA 8270	ND	167	ug/kg	z
86-30-6	n-Nitrosodiphenylamine	EPA 8270	ND	33	ug/kg	204000
103-33-3	Azobenzene	EPA 8270	ND	33	ug/kg	z
101-55-3	4-Bromophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
118-74-1	Hexachlorobenzene	EPA 8270	ND	33	ug/kg	625
87-86-5	Pentachlorophenol	EPA 8270	ND	167	ug/kg	8330
85-01-8	Phenanthrene	EPA 8270	ND	33	ug/kg	z
120-12-7	Anthracene	EPA 8270	ND	33	ug/kg	24000000
84-74-2	Di-n-butylphthalate	EPA 8270	ND	33	ug/kg	8000000
206-44-0	Fluoranthene	EPA 8270	ND	33	ug/kg	3200000
92-87-5	Benzidine	EPA 8270	ND	33	ug/kg	4.35
129-00-0	Pyrene	EPA 8270	ND	33	ug/kg	2400000
85-68-7	Butylbenzylphthalate	EPA 8270	ND	33	ug/kg	16000000

Q



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Analytical Report

Report Date: 11/18/97	Facility: Regulatory Affairs	Project Name: WASHOUGAL
Sample Collected: 09/15/97	Job Number: 97090140	Project No: 16957
Received Date: 09/17/97		

Client ID: IAB01-6

Lab ID: AA27589

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
91-94-1	3,3'-Dichlorobenzidine	EPA 8270	ND	33	ug/kg	2220
56-55-3	Benzo[a]anthracene	EPA 8270	ND	67	ug/kg	137
218-01-9	Chrysene	EPA 8270	ND	33	ug/kg	137
117-81-7	bis(2-Ethylhexyl)phthalate	EPA 8270	ND	167	ug/kg	71400
117-84-0	Di-n-octylphthalate	EPA 8270	ND	33	ug/kg	1600000
205-99-2	Benzo[b]fluoranthene	EPA 8270	ND	33	ug/kg	137
207-08-9	Benzo[k]fluoranthene	EPA 8270	ND	33	ug/kg	137
50-32-8	Benzo[a]pyrene	EPA 8270	ND	33	ug/kg	137
193-39-5	Indeno[1,2,3-cd]pyrene	EPA 8270	ND	33	ug/kg	137
53-70-3	Dibenz[a,h]anthracene	EPA 8270	ND	33	ug/kg	137
191-24-2	Benzo[g,h,i]perylene	EPA 8270	ND	33	ug/kg	z

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

E = The concentration of this analyte exceeds the calibration range of the instrument.

Q = Analyte concentration and/or MDL is greater than the 1996 MTCA B Limits.

z = Analyte not listed in 1996 MTCA Method B.



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Facility: Regulatory Affairs
 Job Number: 97090140

Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB02-2

Lab ID: AA27583

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	ND	4	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	4	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	ND	4	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	4	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	4	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	4	ug/kg	24000000
306-83-2	1,1-DichloroTrifluoroethane	EPA 8260	ND	22	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	4	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	22	ug/kg	
67-64-1	Acetone	EPA 8260	ND	22	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	ND	4	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	ND	22	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	ND	22	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	ND	22	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	22	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	ND	4	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	ND	4	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	4	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	ND	4	ug/kg	z
107-02-8	Acrolin	EPA 8260	ND	87	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	4	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	ND	4	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	ND	22	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	4	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	4	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	16.5	4	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	4	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	4	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	4	ug/kg	11000
71-43-2	Benzene	EPA 8260	ND	4	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	ND	9	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	ND	4	ug/kg	14700



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 Job Number: 97090140

Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB02-2

Lab ID: AA27583

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
74-95-3	Dibromomethane	EPA 8260	ND	4	ug/kg	z
75-27-4	Bromodichloromethane	EPA 8260	ND	4	ug/kg	16100
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	4	ug/kg	z
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	4	ug/kg	z
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	22	ug/kg	64000000
108-88-3	Toluene	EPA 8260	ND	9	ug/kg	16000000
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	4	ug/kg	143
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	4	ug/kg	z
79-00-5	1,1,2-Trichloroethane	EPA 8260	ND	4	ug/kg	17500
142-28-9	1,3-Dichloropropane	EPA 8260	ND	4	ug/kg	z
127-18-4	Tetrachloroethene	EPA 8260	ND	4	ug/kg	19600
591-78-6	2-Hexanone	EPA 8260	ND	22	ug/kg	z
106-93-4	1,2-Dibromoethane	EPA 8260	ND	4	ug/kg	1.18
124-48-1	Dibromochloromethane	EPA 8260	ND	4	ug/kg	11900
108-90-7	Chlorobenzene	EPA 8260	ND	4	ug/kg	1600000
100-41-4	Ethylbenzene	EPA 8260	ND	4	ug/kg	8000000
106-42-3	m,p-Xylene	EPA 8260	ND	4	ug/kg	z
95-47-6	o-Xylene	EPA 8260	ND	4	ug/kg	16000000
100-42-5	Styrene	EPA 8260	ND	4	ug/kg	33300
75-25-2	Bromoform	EPA 8260	ND	4	ug/kg	127000
98-82-8	Isopropylbenzene	EPA 8260	ND	4	ug/kg	z
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	13	ug/kg	5000
108-86-1	Bromobenzene	EPA 8260	ND	4	ug/kg	z
103-65-1	n-propylbenzene	EPA 8260	ND	4	ug/kg	z
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	ND	4	ug/kg	z
95-49-8	2-Chlorotoluene	EPA 8260	ND	4	ug/kg	1600000
106-43-4	4-Chlorotoluene	EPA 8260	ND	4	ug/kg	z
98-06-6	tert-Butylbenzene	EPA 8260	ND	4	ug/kg	z
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	ND	4	ug/kg	z
135-98-8	sec-Butylbenzene	EPA 8260	ND	4	ug/kg	z
541-73-1	1,3-Dichlorobenzene	EPA 8260	ND	4	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8260	ND	4	ug/kg	41700
104-51-8	n-Butylbenzene	EPA 8260	ND	4	ug/kg	z

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Lab ID: AA27583

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
99-87-6	p-Isopropyltoluene	EPA 8260	ND	4	ug/kg	z
95-50-1	1,2-Dichlorobenzene	EPA 8260	ND	4	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	22	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	ND	4	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	4	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	ND	22	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	ND	4	ug/kg	z
EPA 8270 Solid						
62-53-3	Aniline	EPA 8270	ND	167	ug/kg	175000
111-44-4	bis(2-Chloroethyl)ether	EPA 8270	ND	33	ug/kg	909
108-95-2	Phenol	EPA 8270	ND	33	ug/kg	48000000
95-57-8	2-Chlorophenol	EPA 8270	ND	33	ug/kg	400000
541-73-1	1,3-Dichlorobenzene	EPA 8270	ND	33	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8270	ND	33	ug/kg	41700
95-50-1	1,2-Dichlorobenzene	EPA 8270	ND	33	ug/kg	7200000
100-51-6	Benzyl alcohol	EPA 8270	ND	67	ug/kg	24000000
39638-32-9	bis(2-chloroisopropyl)ether	EPA 8270	ND	33	ug/kg	3200000
95-48-7	2-Methylphenol	EPA 8270	ND	33	ug/kg	4000000
98-86-2	Acetophenone	EPA 8270	ND	167	ug/kg	8000000
67-72-1	Hexachloroethane	EPA 8270	ND	33	ug/kg	71400
621-64-7	N-Nitroso-di-n-propylamine	EPA 8270	ND	33	ug/kg	143
106-44-5	4-Methylphenol	EPA 8270	ND	33	ug/kg	400000
98-95-3	Nitrobenzene	EPA 8270	ND	33	ug/kg	40000
78-59-1	Isophorone	EPA 8270	ND	33	ug/kg	1050000
88-75-5	2-Nitrophenol	EPA 8270	ND	33	ug/kg	z
105-67-9	2,4-Dimethylphenol	EPA 8270	ND	33	ug/kg	1600000
111-91-1	bis(2-Chloroethoxy)methane	EPA 8270	ND	33	ug/kg	z
120-83-2	2,4-Dichlorophenol	EPA 8270	ND	33	ug/kg	240000
120-82-1	1,2,4-Trichlorobenzene	EPA 8270	ND	33	ug/kg	800000
91-20-3	Naphthalene	EPA 8270	ND	33	ug/kg	3200000
106-47-8	4-Chloroaniline	EPA 8270	ND	67	ug/kg	320000
87-68-3	Hexachlorobutadiene	EPA 8270	ND	33	ug/kg	12800
65-85-0	Benzoic Acid	EPA 8270	ND	167	ug/kg	32000000



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Client ID: IAB02-2

Lab ID: AA27583

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
59-50-7	4-Chloro-3-methylphenol	EPA 8270	ND	67	ug/kg	z
91-57-6	2-Methylnaphthalene	EPA 8270	ND	33	ug/kg	z
77-47-4	Hexachlorocyclopentadiene	EPA 8270	ND	33	ug/kg	560000
88-06-2	2,4,6-Trichlorophenol	EPA 8270	ND	33	ug/kg	90900
95-95-4	2,4,5-Trichlorophenol	EPA 8270	ND	33	ug/kg	8000000
91-58-7	2-Chloronaphthalene	EPA 8270	ND	33	ug/kg	6400
88-74-4	2-Nitroaniline	EPA 8270	ND	67	ug/kg	z
208-96-8	Acenaphthylene	EPA 8270	ND	33	ug/kg	z
131-11-3	Dimethylphthalate	EPA 8270	ND	33	ug/kg	80000000
606-20-2	2,6-Dinitrotoluene	EPA 8270	ND	33	ug/kg	80000
83-32-9	Acenaphthene	EPA 8270	ND	33	ug/kg	4800000
99-09-2	3-Nitroaniline	EPA 8270	ND	167	ug/kg	z
51-28-5	2,4-Dinitrophenol	EPA 8270	ND	167	ug/kg	160000
132-64-9	Dibenzofuran	EPA 8270	ND	167	ug/kg	z
121-14-2	2,4-Dinitrotoluene	EPA 8270	ND	33	ug/kg	160000
100-02-7	4-Nitrophenol	EPA 8270	ND	33	ug/kg	z
86-73-7	Fluorene	EPA 8270	ND	33	ug/kg	3200000
7005-72-3	4-Chlorophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
84-66-2	Diethylphthalate	EPA 8270	ND	33	ug/kg	64000000
100-01-6	4-Nitroaniline	EPA 8270	ND	167	ug/kg	z
534-52-1	4,6-Dinitro-2-methylphenol	EPA 8270	ND	167	ug/kg	z
86-30-6	n-Nitrosodiphenylamine	EPA 8270	ND	33	ug/kg	204000
103-33-3	Azobenzene	EPA 8270	ND	33	ug/kg	z
101-55-3	4-Bromophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
118-74-1	Hexachlorobenzene	EPA 8270	ND	33	ug/kg	625
87-86-5	Pentachlorophenol	EPA 8270	ND	167	ug/kg	8330
85-01-8	Phenanthrene	EPA 8270	ND	33	ug/kg	z
120-12-7	Anthracene	EPA 8270	ND	33	ug/kg	24000000
84-74-2	Di-n-butylphthalate	EPA 8270	ND	33	ug/kg	8000000
206-44-0	Fluoranthene	EPA 8270	ND	33	ug/kg	3200000
92-87-5	Benzidine	EPA 8270	ND	33	ug/kg	4.35
129-00-0	Pyrene	EPA 8270	ND	33	ug/kg	2400000
85-68-7	Butylbenzylphthalate	EPA 8270	ND	33	ug/kg	16000000



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Facility: Regulatory Affairs
Job Number: 97090140

Project Name: WASHOUGAL
Project No: 16957

Client ID: IAB02-2

Lab ID: AA27583

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
91-94-1	3,3'-Dichlorobenzidine	EPA 8270	ND	33	ug/kg	2220
56-55-3	Benzo[a]anthracene	EPA 8270	ND	67	ug/kg	137
218-01-9	Chrysene	EPA 8270	ND	33	ug/kg	137
117-81-7	bis(2-Ethylhexyl)phthalate	EPA 8270	ND	167	ug/kg	71400
117-84-0	Di-n-octylphthalate	EPA 8270	ND	33	ug/kg	1600000
205-99-2	Benzo[b]fluoranthene	EPA 8270	ND	33	ug/kg	137
207-08-9	Benzo[k]fluoranthene	EPA 8270	ND	33	ug/kg	137
50-32-8	Benzo[a]pyrene	EPA 8270	ND	33	ug/kg	137
193-39-5	Indeno[1,2,3-cd]pyrene	EPA 8270	ND	33	ug/kg	137
53-70-3	Dibenz[a,h]anthracene	EPA 8270	ND	33	ug/kg	137
191-24-2	Benzo[g,h,i]perylene	EPA 8270	ND	33	ug/kg	z

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

E = The concentration of this analyte exceeds the calibration range of the instrument.

Q = Analyte concentration and/or MDL is greater than the 1996 MTCA B Limits.

z = Analyte not listed in 1996 MTCA Method B.



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Analytical Report

Report Date: 11/18/97	Facility: Regulatory Affairs	Project Name: WASHOUGAL
Sample Collected: 09/15/97	Job Number: 97090140	Project No: 16957
Received Date: 09/17/97		

Client ID: IAB02-4

Lab ID: AA27584

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	ND	2	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	2	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	ND	2	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	2	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	2	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	2	ug/kg	24000000
306-83-2	1,1-DichloroTrifluoroethane	EPA 8260	ND	12	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	2	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	12	ug/kg	
67-64-1	Acetone	EPA 8260	ND	12	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	ND	2	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	ND	12	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	ND	12	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	ND	12	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	12	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	ND	2	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	ND	2	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	2	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	ND	2	ug/kg	z
107-02-8	Acrolin	EPA 8260	ND	46	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	2	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	ND	2	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	ND	12	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	2	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	2	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	ND	2	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	2	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	2	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	2	ug/kg	11000
71-43-2	Benzene	EPA 8260	ND	2	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	ND	5	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	ND	2	ug/kg	14700



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Analytical Report

Report Date: 11/18/97
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Facility: Regulatory Affairs
 Job Number: 97090140

Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB02-4

Lab ID: AA27584

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
74-95-3	Dibromomethane	EPA 8260	ND	2	ug/kg	z
75-27-4	Bromodichloromethane	EPA 8260	ND	2	ug/kg	16100
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	2	ug/kg	z
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	2	ug/kg	z
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	12	ug/kg	64000000
108-88-3	Toluene	EPA 8260	ND	5	ug/kg	16000000
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	2	ug/kg	143
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	2	ug/kg	z
79-00-5	1,1,2-Trichloroethane	EPA 8260	ND	2	ug/kg	17500
142-28-9	1,3-Dichloropropane	EPA 8260	ND	2	ug/kg	z
127-18-4	Tetrachloroethene	EPA 8260	ND	2	ug/kg	19600
591-78-6	2-Hexanone	EPA 8260	ND	12	ug/kg	z
106-93-4	1,2-Dibromoethane	EPA 8260	ND	2	ug/kg	1.18
124-48-1	Dibromochloromethane	EPA 8260	ND	2	ug/kg	11900
108-90-7	Chlorobenzene	EPA 8260	ND	2	ug/kg	1600000
100-41-4	Ethylbenzene	EPA 8260	ND	2	ug/kg	8000000
106-42-3	m,p-Xylene	EPA 8260	ND	2	ug/kg	z
95-47-6	o-Xylene	EPA 8260	ND	2	ug/kg	16000000
100-42-5	Styrene	EPA 8260	ND	2	ug/kg	33300
75-25-2	Bromoform	EPA 8260	ND	2	ug/kg	127000
98-82-8	Isopropylbenzene	EPA 8260	ND	2	ug/kg	z
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	7	ug/kg	5000
108-86-1	Bromobenzene	EPA 8260	ND	2	ug/kg	z
103-65-1	n-propylbenzene	EPA 8260	ND	2	ug/kg	z
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	ND	2	ug/kg	z
95-49-8	2-Chlorotoluene	EPA 8260	ND	2	ug/kg	1600000
106-43-4	4-Chlorotoluene	EPA 8260	ND	2	ug/kg	z
98-06-6	tert-Butylbenzene	EPA 8260	ND	2	ug/kg	z
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	4.71	2	ug/kg	z
135-98-8	sec-Butylbenzene	EPA 8260	ND	2	ug/kg	z
541-73-1	1,3-Dichlorobenzene	EPA 8260	ND	2	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8260	ND	2	ug/kg	41700
104-51-8	n-Butylbenzene	EPA 8260	ND	2	ug/kg	z



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 Received Date: 09/17/97

Facility: Regulatory Affairs
 Job Number: 97090140

Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB02-4

Lab ID: AA27584

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
99-87-6	p-Isopropyltoluene	EPA 8260	ND	2	ug/kg	z
95-50-1	1,2-Dichlorobenzene	EPA 8260	ND	2	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	12	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	ND	2	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	2	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	ND	12	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	ND	2	ug/kg	z
EPA 8270 Solid						
62-53-3	Aniline	EPA 8270	ND	167	ug/kg	175000
111-44-4	bis(2-Chloroethyl)ether	EPA 8270	ND	33	ug/kg	909
108-95-2	Phenol	EPA 8270	ND	33	ug/kg	48000000
95-57-8	2-Chlorophenol	EPA 8270	ND	33	ug/kg	400000
541-73-1	1,3-Dichlorobenzene	EPA 8270	ND	33	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8270	ND	33	ug/kg	41700
95-50-1	1,2-Dichlorobenzene	EPA 8270	ND	33	ug/kg	7200000
100-51-6	Benzyl alcohol	EPA 8270	ND	67	ug/kg	24000000
39638-32-9	bis(2-chloroisopropyl)ether	EPA 8270	ND	33	ug/kg	3200000
95-48-7	2-Methylphenol	EPA 8270	ND	33	ug/kg	4000000
98-86-2	Acetophenone	EPA 8270	ND	167	ug/kg	8000000
67-72-1	Hexachloroethane	EPA 8270	ND	33	ug/kg	71400
621-64-7	N-Nitroso-di-n-propylamine	EPA 8270	ND	33	ug/kg	143
106-44-5	4-Methylphenol	EPA 8270	ND	33	ug/kg	400000
98-95-3	Nitrobenzene	EPA 8270	ND	33	ug/kg	40000
78-59-1	Isophorone	EPA 8270	ND	33	ug/kg	1050000
88-75-5	2-Nitrophenol	EPA 8270	ND	33	ug/kg	z
105-67-9	2,4-Dimethylphenol	EPA 8270	ND	33	ug/kg	1600000
111-91-1	bis(2-Chloroethoxy)methane	EPA 8270	ND	33	ug/kg	z
120-83-2	2,4-Dichlorophenol	EPA 8270	ND	33	ug/kg	240000
120-82-1	1,2,4-Trichlorobenzene	EPA 8270	ND	33	ug/kg	800000
91-20-3	Naphthalene	EPA 8270	ND	33	ug/kg	3200000
106-47-8	4-Chloroaniline	EPA 8270	ND	67	ug/kg	320000
87-68-3	Hexachlorobutadiene	EPA 8270	ND	33	ug/kg	12800
65-85-0	Benzoic Acid	EPA 8270	ND	167	ug/kg	32000000



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Analytical Report

Report Date: 11/18/97	Facility: Regulatory Affairs	Project Name: WASHOUGAL
Sample Collected: 09/15/97	Job Number: 97090140	Project No: 16957
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Lab ID: AA27584

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
59-50-7	4-Chloro-3-methylphenol	EPA 8270	ND	67	ug/kg	z
91-57-6	2-Methylnaphthalene	EPA 8270	ND	33	ug/kg	z
77-47-4	Hexachlorocyclopentadiene	EPA 8270	ND	33	ug/kg	560000
88-06-2	2,4,6-Trichlorophenol	EPA 8270	ND	33	ug/kg	90900
95-95-4	2,4,5-Trichlorophenol	EPA 8270	ND	33	ug/kg	8000000
91-58-7	2-Chloronaphthalene	EPA 8270	ND	33	ug/kg	6400
88-74-4	2-Nitroaniline	EPA 8270	ND	67	ug/kg	z
208-96-8	Acenaphthylene	EPA 8270	ND	33	ug/kg	z
131-11-3	Dimethylphthalate	EPA 8270	ND	33	ug/kg	80000000
606-20-2	2,6-Dinitrotoluene	EPA 8270	ND	33	ug/kg	80000
83-32-9	Acenaphthene	EPA 8270	ND	33	ug/kg	4800000
99-09-2	3-Nitroaniline	EPA 8270	ND	167	ug/kg	z
51-28-5	2,4-Dinitrophenol	EPA 8270	ND	167	ug/kg	160000
132-64-9	Dibenzofuran	EPA 8270	ND	167	ug/kg	z
121-14-2	2,4-Dinitrotoluene	EPA 8270	ND	33	ug/kg	160000
100-02-7	4-Nitrophenol	EPA 8270	ND	33	ug/kg	z
86-73-7	Fluorene	EPA 8270	ND	33	ug/kg	3200000
7005-72-3	4-Chlorophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
84-66-2	Diethylphthalate	EPA 8270	ND	33	ug/kg	64000000
100-01-6	4-Nitroaniline	EPA 8270	ND	167	ug/kg	z
534-52-1	4,6-Dinitro-2-methylphenol	EPA 8270	ND	167	ug/kg	z
86-30-6	n-Nitrosodiphenylamine	EPA 8270	ND	33	ug/kg	204000
103-33-3	Azobenzene	EPA 8270	ND	33	ug/kg	z
101-55-3	4-Bromophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
118-74-1	Hexachlorobenzene	EPA 8270	ND	33	ug/kg	625
87-86-5	Pentachlorophenol	EPA 8270	ND	167	ug/kg	8330
85-01-8	Phenanthrene	EPA 8270	ND	33	ug/kg	z
120-12-7	Anthracene	EPA 8270	ND	33	ug/kg	24000000
84-74-2	Di-n-butylphthalate	EPA 8270	ND	33	ug/kg	8000000
206-44-0	Fluoranthene	EPA 8270	ND	33	ug/kg	3200000
92-87-5	Benzidine	EPA 8270	ND	33	ug/kg	4.35
129-00-0	Pyrene	EPA 8270	ND	33	ug/kg	2400000
85-68-7	Butylbenzylphthalate	EPA 8270	ND	33	ug/kg	16000000

Q



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Analytical Report

Report Date: 11/18/97
Sample Collected: 09/15/97
Received Date: 09/17/97

Facility: Regulatory Affairs
Job Number: 97090140

Project Name: WASHOUGAL
Project No: 16957

Client ID: IAB02-4

Lab ID: AA27584

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
91-94-1	3,3'-Dichlorobenzidine	EPA 8270	ND	33	ug/kg	2220
56-55-3	Benzo[a]anthracene	EPA 8270	ND	67	ug/kg	137
218-01-9	Chrysene	EPA 8270	ND	33	ug/kg	137
117-81-7	bis(2-Ethylhexyl)phthalate	EPA 8270	ND	167	ug/kg	71400
117-84-0	Di-n-octylphthalate	EPA 8270	ND	33	ug/kg	1600000
205-99-2	Benzo[b]fluoranthene	EPA 8270	ND	33	ug/kg	137
207-08-9	Benzo[k]fluoranthene	EPA 8270	ND	33	ug/kg	137
50-32-8	Benzo[a]pyrene	EPA 8270	ND	33	ug/kg	137
193-39-5	Indeno[1,2,3-cd]pyrene	EPA 8270	ND	33	ug/kg	137
53-70-3	Dibenz[a,h]anthracene	EPA 8270	ND	33	ug/kg	137
191-24-2	Benzo[g,h,i]perylene	EPA 8270	ND	33	ug/kg	z

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

E = The concentration of this analyte exceeds the calibration range of the instrument.

Q = Analyte concentration and/or MDL is greater than the 1996 MTCA B Limits.

z = Analyte not listed in 1996 MTCA Method B.



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Analytical Report

Report Date: 11/18/97
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Facility: Regulatory Affairs
 Job Number: 97090140

Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB02-6

Lab ID: AA27585

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	ND	2	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	2	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	ND	2	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	2	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	2	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	2	ug/kg	24000000
306-83-2	1,1-DichloroTrifluoroethane	EPA 8260	ND	11	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	2	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	11	ug/kg	
67-64-1	Acetone	EPA 8260	24.4	11	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	ND	2	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	ND	11	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	ND	11	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	ND	11	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	11	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	ND	2	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	ND	2	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	2	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	ND	2	ug/kg	z
107-02-8	Acrolin	EPA 8260	ND	45	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	2	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	ND	2	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	ND	11	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	2	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	2	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	ND	2	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	2	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	2	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	2	ug/kg	11000
71-43-2	Benzene	EPA 8260	ND	2	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	ND	4	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	ND	2	ug/kg	14700



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Analytical Report

Report Date: 11/18/97	Facility: Regulatory Affairs	Project Name: WASHOUGAL
Sample Collected: 09/15/97	Job Number: 97090140	Project No: 16957
Received Date: 09/17/97		

Client ID: IAB02-6

Lab ID: AA27585

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
74-95-3	Dibromomethane	EPA 8260	ND	2	ug/kg	z
75-27-4	Bromodichloromethane	EPA 8260	ND	2	ug/kg	16100
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	2	ug/kg	z
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	2	ug/kg	z
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	11	ug/kg	64000000
108-88-3	Toluene	EPA 8260	ND	4	ug/kg	16000000
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	2	ug/kg	143
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	2	ug/kg	z
79-00-5	1,1,2-Trichloroethane	EPA 8260	ND	2	ug/kg	17500
142-28-9	1,3-Dichloropropane	EPA 8260	ND	2	ug/kg	z
127-18-4	Tetrachloroethene	EPA 8260	ND	2	ug/kg	19600
591-78-6	2-Hexanone	EPA 8260	ND	11	ug/kg	z
106-93-4	1,2-Dibromoethane	EPA 8260	ND	2	ug/kg	1.18
124-48-1	Dibromochloromethane	EPA 8260	ND	2	ug/kg	11900
108-90-7	Chlorobenzene	EPA 8260	ND	2	ug/kg	1600000
100-41-4	Ethylbenzene	EPA 8260	ND	2	ug/kg	8000000
106-42-3	m,p-Xylene	EPA 8260	ND	2	ug/kg	z
95-47-6	o-Xylene	EPA 8260	ND	2	ug/kg	16000000
100-42-5	Styrene	EPA 8260	ND	2	ug/kg	33300
75-25-2	Bromoform	EPA 8260	ND	2	ug/kg	127000
98-82-8	Isopropylbenzene	EPA 8260	ND	2	ug/kg	z
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	7	ug/kg	5000
108-86-1	Bromobenzene	EPA 8260	ND	2	ug/kg	z
103-65-1	n-propylbenzene	EPA 8260	ND	2	ug/kg	z
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	ND	2	ug/kg	z
95-49-8	2-Chlorotoluene	EPA 8260	ND	2	ug/kg	1600000
106-43-4	4-Chlorotoluene	EPA 8260	ND	2	ug/kg	z
98-06-6	tert-Butylbenzene	EPA 8260	ND	2	ug/kg	z
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	ND	2	ug/kg	z
135-98-8	sec-Butylbenzene	EPA 8260	ND	2	ug/kg	z
541-73-1	1,3-Dichlorobenzene	EPA 8260	ND	2	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8260	ND	2	ug/kg	41700
104-51-8	n-Butylbenzene	EPA 8260	ND	2	ug/kg	z

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 Renton, WA 98055

Analytical Report

Report Date: 11/18/97
 Sample Collected: 09/15/97
 Received Date: 09/17/97

Facility: Regulatory Affairs
 Job Number: 97090140

Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB02-6

Lab ID: AA27585

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
99-87-6	p-Isopropyltoluene	EPA 8260	ND	2	ug/kg	z
95-50-1	1,2-Dichlorobenzene	EPA 8260	ND	2	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	11	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	ND	2	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	2	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	ND	11	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	ND	2	ug/kg	z

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

E = The concentration of this analyte exceeds the calibration range of the instrument.

Q = Analyte concentration and/or MDL is greater than the 1996 MTCA B Limits.

z = Analyte not listed in 1996 MTCA Method B.

Data Reviewed by: 

Data Reported by: 



Phillip Environmental Laboratory
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To: John Stiller
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Renton, WA 98055

Analytical Report

Report Date: 11/18/97
Sample Collected: 09/15/97
Received Date: 09/17/97

Facility: Regulatory Affairs
Job Number: 97090140

Project Name: WASHOUGAL
Project No: 16957

Client ID: IAB02-8

Lab ID: AA27586

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	ND	3	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	3	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	ND	3	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	3	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	3	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	3	ug/kg	24000000
306-83-2	1,1-DichloroTrifluoroethane	EPA 8260	ND	14	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	3	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	14	ug/kg	
67-64-1	Acetone	EPA 8260	69.6	14	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	ND	3	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	ND	14	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	ND	14	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	ND	14	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	14	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	ND	3	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	ND	3	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	3	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	ND	3	ug/kg	z
107-02-8	Acrolin	EPA 8260	ND	56	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	3	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	ND	3	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	ND	14	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	3	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	3	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	ND	3	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	3	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	3	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	3	ug/kg	11000
71-43-2	Benzene	EPA 8260	ND	3	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	ND	6	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	ND	3	ug/kg	14700



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 Job Number: 97090140

Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB02-8

Lab ID: AA27586

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
74-95-3	Dibromomethane	EPA 8260	ND	3	ug/kg	z
75-27-4	Bromodichloromethane	EPA 8260	ND	3	ug/kg	16100
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	3	ug/kg	z
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	3	ug/kg	z
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	14	ug/kg	64000000
108-88-3	Toluene	EPA 8260	44.7	6	ug/kg	16000000
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	3	ug/kg	143
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	3	ug/kg	z
79-00-5	1,1,2-Trichloroethane	EPA 8260	ND	3	ug/kg	17500
142-28-9	1,3-Dichloropropane	EPA 8260	ND	3	ug/kg	z
127-18-4	Tetrachloroethene	EPA 8260	2.85	3	ug/kg	19600
591-78-6	2-Hexanone	EPA 8260	ND	14	ug/kg	z
106-93-4	1,2-Dibromoethane	EPA 8260	ND	3	ug/kg	1.18
124-48-1	Dibromochloromethane	EPA 8260	ND	3	ug/kg	11900
108-90-7	Chlorobenzene	EPA 8260	ND	3	ug/kg	1600000
100-41-4	Ethylbenzene	EPA 8260	ND	3	ug/kg	8000000
106-42-3	m,p-Xylene	EPA 8260	3.68	3	ug/kg	z
95-47-6	o-Xylene	EPA 8260	ND	3	ug/kg	16000000
100-42-5	Styrene	EPA 8260	ND	3	ug/kg	33300
75-25-2	Bromoform	EPA 8260	ND	3	ug/kg	127000
98-82-8	Isopropylbenzene	EPA 8260	ND	3	ug/kg	z
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	8	ug/kg	5000
108-86-1	Bromobenzene	EPA 8260	ND	3	ug/kg	z
103-65-1	n-propylbenzene	EPA 8260	ND	3	ug/kg	z
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	ND	3	ug/kg	z
95-49-8	2-Chlorotoluene	EPA 8260	ND	3	ug/kg	1600000
106-43-4	4-Chlorotoluene	EPA 8260	ND	3	ug/kg	z
98-06-6	tert-Butylbenzene	EPA 8260	ND	3	ug/kg	z
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	ND	3	ug/kg	z
135-98-8	sec-Butylbenzene	EPA 8260	ND	3	ug/kg	z
541-73-1	1,3-Dichlorobenzene	EPA 8260	ND	3	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8260	ND	3	ug/kg	41700
104-51-8	n-Butylbenzene	EPA 8260	ND	3	ug/kg	z

Q



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Client ID: IAB02-8

Lab ID: AA27586

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
99-87-6	p-Isopropyltoluene	EPA 8260	ND	3	ug/kg	z
95-50-1	1,2-Dichlorobenzene	EPA 8260	3.26	3	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	14	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	ND	3	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	3	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	ND	14	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	ND	3	ug/kg	z
EPA 8270 Solid						
62-53-3	Aniline	EPA 8270	ND	167	ug/kg	175000
111-44-4	bis(2-Chloroethyl)ether	EPA 8270	ND	33	ug/kg	909
108-95-2	Phenol	EPA 8270	ND	33	ug/kg	48000000
95-57-8	2-Chlorophenol	EPA 8270	ND	33	ug/kg	400000
541-73-1	1,3-Dichlorobenzene	EPA 8270	ND	33	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8270	ND	33	ug/kg	41700
95-50-1	1,2-Dichlorobenzene	EPA 8270	ND	33	ug/kg	7200000
100-51-6	Benzyl alcohol	EPA 8270	ND	67	ug/kg	24000000
39638-32-9	bis(2-chloroisopropyl)ether	EPA 8270	ND	33	ug/kg	3200000
95-48-7	2-Methylphenol	EPA 8270	ND	33	ug/kg	4000000
98-86-2	Acetophenone	EPA 8270	ND	167	ug/kg	8000000
67-72-1	Hexachloroethane	EPA 8270	ND	33	ug/kg	71400
621-64-7	N-Nitroso-di-n-propylamine	EPA 8270	ND	33	ug/kg	143
106-44-5	4-Methylphenol	EPA 8270	ND	33	ug/kg	400000
98-95-3	Nitrobenzene	EPA 8270	ND	33	ug/kg	40000
78-59-1	Isophorone	EPA 8270	ND	33	ug/kg	1050000
88-75-5	2-Nitrophenol	EPA 8270	ND	33	ug/kg	z
105-67-9	2,4-Dimethylphenol	EPA 8270	ND	33	ug/kg	1600000
111-91-1	bis(2-Chloroethoxy)methane	EPA 8270	ND	33	ug/kg	z
120-83-2	2,4-Dichlorophenol	EPA 8270	ND	33	ug/kg	240000
120-82-1	1,2,4-Trichlorobenzene	EPA 8270	ND	33	ug/kg	800000
91-20-3	Naphthalene	EPA 8270	ND	33	ug/kg	3200000
106-47-8	4-Chloroaniline	EPA 8270	ND	67	ug/kg	320000
87-68-3	Hexachlorobutadiene	EPA 8270	ND	33	ug/kg	12800
65-85-0	Benzoic Acid	EPA 8270	ND	167	ug/kg	32000000



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Lab ID: AA27586

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
59-50-7	4-Chloro-3-methylphenol	EPA 8270	ND	67	ug/kg	z
91-57-6	2-Methylnaphthalene	EPA 8270	ND	33	ug/kg	z
77-47-4	Hexachlorocyclopentadiene	EPA 8270	ND	33	ug/kg	560000
88-06-2	2,4,6-Trichlorophenol	EPA 8270	ND	33	ug/kg	90900
95-95-4	2,4,5-Trichlorophenol	EPA 8270	ND	33	ug/kg	8000000
91-58-7	2-Chloronaphthalene	EPA 8270	ND	33	ug/kg	6400
88-74-4	2-Nitroaniline	EPA 8270	ND	67	ug/kg	z
208-96-8	Acenaphthylene	EPA 8270	ND	33	ug/kg	z
131-11-3	Dimethylphthalate	EPA 8270	ND	33	ug/kg	80000000
606-20-2	2,6-Dinitrotoluene	EPA 8270	ND	33	ug/kg	80000
83-32-9	Acenaphthene	EPA 8270	ND	33	ug/kg	4800000
99-09-2	3-Nitroaniline	EPA 8270	ND	167	ug/kg	z
51-28-5	2,4-Dinitrophenol	EPA 8270	ND	167	ug/kg	160000
132-64-9	Dibenzofuran	EPA 8270	ND	167	ug/kg	z
121-14-2	2,4-Dinitrotoluene	EPA 8270	ND	33	ug/kg	160000
100-02-7	4-Nitrophenol	EPA 8270	ND	33	ug/kg	z
86-73-7	Fluorene	EPA 8270	ND	33	ug/kg	3200000
7005-72-3	4-Chlorophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
84-66-2	Diethylphthalate	EPA 8270	ND	33	ug/kg	64000000
100-01-6	4-Nitroaniline	EPA 8270	ND	167	ug/kg	z
534-52-1	4,6-Dinitro-2-methylphenol	EPA 8270	ND	167	ug/kg	z
86-30-6	n-Nitrosodiphenylamine	EPA 8270	ND	33	ug/kg	204000
103-33-3	Azobenzene	EPA 8270	ND	33	ug/kg	z
101-55-3	4-Bromophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
118-74-1	Hexachlorobenzene	EPA 8270	ND	33	ug/kg	625
87-86-5	Pentachlorophenol	EPA 8270	ND	167	ug/kg	8330
85-01-8	Phenanthrene	EPA 8270	ND	33	ug/kg	z
120-12-7	Anthracene	EPA 8270	ND	33	ug/kg	24000000
84-74-2	Di-n-butylphthalate	EPA 8270	ND	33	ug/kg	8000000
206-44-0	Fluoranthene	EPA 8270	ND	33	ug/kg	3200000
92-87-5	Benzidine	EPA 8270	ND	33	ug/kg	4.35
129-00-0	Pyrene	EPA 8270	ND	33	ug/kg	2400000
85-68-7	Butylbenzylphthalate	EPA 8270	ND	33	ug/kg	16000000

Q



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Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB02-8

Lab ID: AA27586

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
91-94-1	3,3'-Dichlorobenzidine	EPA 8270	ND	33	ug/kg	2220
56-55-3	Benzo[a]anthracene	EPA 8270	ND	67	ug/kg	137
218-01-9	Chrysene	EPA 8270	ND	33	ug/kg	137
117-81-7	bis(2-Ethylhexyl)phthalate	EPA 8270	ND	167	ug/kg	71400
117-84-0	Di-n-octylphthalate	EPA 8270	ND	33	ug/kg	1600000
205-99-2	Benzo[b]fluoranthene	EPA 8270	ND	33	ug/kg	137
207-08-9	Benzo[k]fluoranthene	EPA 8270	ND	33	ug/kg	137
50-32-8	Benzo[a]pyrene	EPA 8270	ND	33	ug/kg	137
193-39-5	Indeno[1,2,3-cd]pyrene	EPA 8270	ND	33	ug/kg	137
53-70-3	Dibenz[a,h]anthracene	EPA 8270	ND	33	ug/kg	137
191-24-2	Benzo[g,h,i]perylene	EPA 8270	ND	33	ug/kg	z

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

E = The concentration of this analyte exceeds the calibration range of the instrument.

Q = Analyte concentration and/or MDL is greater than the 1996 MTCA B Limits.

z = Analyte not listed in 1996 MTCA Method B.



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Facility: Regulatory Affairs
 Job Number: 97090140

Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB03-2

Lab ID: AA27602

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	ND	1	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	1	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	ND	1	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	1	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	1	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	1	ug/kg	24000000
306-83-2	1,1-DichloroTrifluoroethane	EPA 8260	ND	6	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	1	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	6	ug/kg	
67-64-1	Acetone	EPA 8260	ND	6	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	ND	1	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	ND	6	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	ND	6	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	ND	6	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	6	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	ND	1	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	ND	1	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	1	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	ND	1	ug/kg	z
107-02-8	Acrolin	EPA 8260	ND	23	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	1	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	ND	1	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	ND	6	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	1	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	1	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	ND	1	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	1	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	1	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	1	ug/kg	11000
71-43-2	Benzene	EPA 8260	ND	1	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	ND	2	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	ND	1	ug/kg	14700



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Analytical Report

Report Date: 11/18/97	Facility: Regulatory Affairs	Project Name: WASHOUGAL
Sample Collected: 09/15/97	Job Number: 97090140	Project No: 16957
Received Date: 09/17/97		

Client ID: IAB03-2

Lab ID: AA27602

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
74-95-3	Dibromomethane	EPA 8260	ND	1	ug/kg	z
75-27-4	Bromodichloromethane	EPA 8260	ND	1	ug/kg	16100
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	1	ug/kg	z
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	1	ug/kg	z
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	6	ug/kg	64000000
108-88-3	Toluene	EPA 8260	ND	2	ug/kg	16000000
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	1	ug/kg	143
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	1	ug/kg	z
79-00-5	1,1,2-Trichloroethane	EPA 8260	ND	1	ug/kg	17500
142-28-9	1,3-Dichloropropane	EPA 8260	ND	1	ug/kg	z
127-18-4	Tetrachloroethene	EPA 8260	5.18	1	ug/kg	19600
591-78-6	2-Hexanone	EPA 8260	ND	6	ug/kg	z
106-93-4	1,2-Dibromoethane	EPA 8260	ND	1	ug/kg	1.18
124-48-1	Dibromochloromethane	EPA 8260	ND	1	ug/kg	11900
108-90-7	Chlorobenzene	EPA 8260	ND	1	ug/kg	1600000
100-41-4	Ethylbenzene	EPA 8260	ND	1	ug/kg	8000000
106-42-3	m,p-Xylene	EPA 8260	ND	1	ug/kg	z
95-47-6	o-Xylene	EPA 8260	ND	1	ug/kg	16000000
100-42-5	Styrene	EPA 8260	ND	1	ug/kg	33300
75-25-2	Bromoform	EPA 8260	ND	1	ug/kg	127000
98-82-8	Isopropylbenzene	EPA 8260	ND	1	ug/kg	z
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	3	ug/kg	5000
108-86-1	Bromobenzene	EPA 8260	ND	1	ug/kg	z
103-65-1	n-propylbenzene	EPA 8260	ND	1	ug/kg	z
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	ND	1	ug/kg	z
95-49-8	2-Chlorotoluene	EPA 8260	ND	1	ug/kg	1600000
106-43-4	4-Chlorotoluene	EPA 8260	ND	1	ug/kg	z
98-06-6	tert-Butylbenzene	EPA 8260	ND	1	ug/kg	z
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	ND	1	ug/kg	z
135-98-8	sec-Butylbenzene	EPA 8260	ND	1	ug/kg	z
541-73-1	1,3-Dichlorobenzene	EPA 8260	ND	1	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8260	ND	1	ug/kg	41700
104-51-8	n-Butylbenzene	EPA 8260	ND	1	ug/kg	z



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Analytical Report

Report Date: 11/18/97
 Sample Collected: 09/15/97
 Received Date: 09/17/97

Facility: Regulatory Affairs
 Job Number: 97090140

Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB03-2

Lab ID: AA27602

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
99-87-6	p-Isopropyltoluene	EPA 8260	ND	1	ug/kg	z
95-50-1	1,2-Dichlorobenzene	EPA 8260	ND	1	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	6	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	ND	1	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	1	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	ND	6	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	ND	1	ug/kg	z
EPA 8270 Solid						
62-53-3	Analine	EPA 8270	ND	167	ug/kg	175000
111-44-4	bis(2-Chloroethyl)ether	EPA 8270	ND	33	ug/kg	909
108-95-2	Phenol	EPA 8270	ND	33	ug/kg	48000000
95-57-8	2-Chlorophenol	EPA 8270	ND	33	ug/kg	400000
541-73-1	1,3-Dichlorobenzene	EPA 8270	ND	33	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8270	ND	33	ug/kg	41700
95-50-1	1,2-Dichlorobenzene	EPA 8270	ND	33	ug/kg	7200000
100-51-6	Benzyl alcohol	EPA 8270	ND	67	ug/kg	24000000
39638-32-9	bis(2-chloroisopropyl)ether	EPA 8270	ND	33	ug/kg	3200000
95-48-7	2-Methylphenol	EPA 8270	ND	33	ug/kg	4000000
98-86-2	Acetophenone	EPA 8270	ND	167	ug/kg	8000000
67-72-1	Hexachloroethane	EPA 8270	ND	33	ug/kg	71400
621-64-7	N-Nitroso-di-n-propylamine	EPA 8270	ND	33	ug/kg	143
106-44-5	4-Methylphenol	EPA 8270	ND	33	ug/kg	400000
98-95-3	Nitrobenzene	EPA 8270	ND	33	ug/kg	40000
78-59-1	Isophorone	EPA 8270	ND	33	ug/kg	1050000
88-75-5	2-Nitrophenol	EPA 8270	ND	33	ug/kg	z
105-67-9	2,4-Dimethylphenol	EPA 8270	ND	33	ug/kg	1600000
111-91-1	bis(2-Chloroethoxy)methane	EPA 8270	ND	33	ug/kg	z
120-83-2	2,4-Dichlorophenol	EPA 8270	ND	33	ug/kg	240000
120-82-1	1,2,4-Trichlorobenzene	EPA 8270	ND	33	ug/kg	800000
91-20-3	Naphthalene	EPA 8270	ND	33	ug/kg	3200000
106-47-8	4-Chloroaniline	EPA 8270	ND	67	ug/kg	320000
87-68-3	Hexachlorobutadiene	EPA 8270	ND	33	ug/kg	12800
65-85-0	Benzoic Acid	EPA 8270	ND	167	ug/kg	32000000



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Analytical Report

Report Date: 11/18/97	Facility: Regulatory Affairs	Project Name: WASHOUGAL
Sample Collected: 09/15/97	Job Number: 97090140	Project No: 16957
Received Date: 09/17/97		

Client ID: IAB03-2

Lab ID: AA27602

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
59-50-7	4-Chloro-3-methylphenol	EPA 8270	ND	67	ug/kg	z
91-57-6	2-Methylnaphthalene	EPA 8270	ND	33	ug/kg	z
77-47-4	Hexachlorocyclopentadiene	EPA 8270	ND	33	ug/kg	560000
88-06-2	2,4,6-Trichlorophenol	EPA 8270	ND	33	ug/kg	90900
95-95-4	2,4,5-Trichlorophenol	EPA 8270	ND	33	ug/kg	8000000
91-58-7	2-Chloronaphthalene	EPA 8270	ND	33	ug/kg	6400
88-74-4	2-Nitroaniline	EPA 8270	ND	67	ug/kg	z
208-96-8	Acenaphthylene	EPA 8270	ND	33	ug/kg	z
131-11-3	Dimethylphthalate	EPA 8270	ND	33	ug/kg	80000000
606-20-2	2,6-Dinitrotoluene	EPA 8270	ND	33	ug/kg	80000
83-32-9	Acenaphthene	EPA 8270	ND	33	ug/kg	4800000
99-09-2	3-Nitroaniline	EPA 8270	ND	167	ug/kg	z
51-28-5	2,4-Dinitrophenol	EPA 8270	ND	167	ug/kg	160000
132-64-9	Dibenzofuran	EPA 8270	ND	167	ug/kg	z
121-14-2	2,4-Dinitrotoluene	EPA 8270	ND	33	ug/kg	160000
100-02-7	4-Nitrophenol	EPA 8270	ND	33	ug/kg	z
86-73-7	Fluorene	EPA 8270	ND	33	ug/kg	3200000
7005-72-3	4-Chlorophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
84-66-2	Diethylphthalate	EPA 8270	ND	33	ug/kg	64000000
100-01-6	4-Nitroaniline	EPA 8270	ND	167	ug/kg	z
534-52-1	4,6-Dinitro-2-methylphenol	EPA 8270	ND	167	ug/kg	z
86-30-6	n-Nitrosodiphenylamine	EPA 8270	ND	33	ug/kg	204000
103-33-3	Azobenzene	EPA 8270	ND	33	ug/kg	z
101-55-3	4-Bromophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
118-74-1	Hexachlorobenzene	EPA 8270	ND	33	ug/kg	625
87-86-5	Pentachlorophenol	EPA 8270	ND	167	ug/kg	8330
85-01-8	Phenanthrene	EPA 8270	ND	33	ug/kg	z
120-12-7	Anthracene	EPA 8270	ND	33	ug/kg	24000000
84-74-2	Di-n-butylphthalate	EPA 8270	ND	33	ug/kg	8000000
206-44-0	Fluoranthene	EPA 8270	ND	33	ug/kg	3200000
92-87-5	Benzidine	EPA 8270	ND	33	ug/kg	4.35
129-00-0	Pyrene	EPA 8270	ND	33	ug/kg	2400000
85-68-7	Butylbenzylphthalate	EPA 8270	ND	33	ug/kg	16000000

Q



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Analytical Report

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Received Date: 09/17/97		

Client ID: IAB03-2

Lab ID: AA27602

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
91-94-1	3,3'-Dichlorobenzidine	EPA 8270	ND	33	ug/kg	2220
56-55-3	Benzo[a]anthracene	EPA 8270	ND	67	ug/kg	137
218-01-9	Chrysene	EPA 8270	ND	33	ug/kg	137
117-81-7	bis(2-Ethylhexyl)phthalate	EPA 8270	ND	167	ug/kg	71400
117-84-0	Di-n-octylphthalate	EPA 8270	ND	33	ug/kg	1600000
205-99-2	Benzo[b]fluoranthene	EPA 8270	ND	33	ug/kg	137
207-08-9	Benzo[k]fluoranthene	EPA 8270	ND	33	ug/kg	137
50-32-8	Benzo[a]pyrene	EPA 8270	ND	33	ug/kg	137
193-39-5	Indeno[1,2,3-cd]pyrene	EPA 8270	ND	33	ug/kg	137
53-70-3	Dibenz[a,h]anthracene	EPA 8270	ND	33	ug/kg	137
191-24-2	Benzo[g,h,i]perylene	EPA 8270	ND	33	ug/kg	z

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

E = The concentration of this analyte exceeds the calibration range of the instrument.

Q = Analyte concentration and/or MDL is greater than the 1996 MTCA B Limits.

z = Analyte not listed in 1996 MTCA Method B.



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Facility: Regulatory Affairs
 Job Number: 97090140

Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB03-4

Lab ID: AA27603

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	ND	3.31	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	3.31	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	ND	3.31	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	3.31	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	3.31	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	3.31	ug/kg	24000000
306-83-2	1,1-DichloroTrifluoroethane	EPA 8260	ND	16.5	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	3.31	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	16.5	ug/kg	
67-64-1	Acetone	EPA 8260	33	16.5	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	ND	3.31	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	ND	16.5	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	ND	16.5	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	ND	16.5	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	16.5	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	ND	3.31	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	ND	3.31	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	3.31	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	ND	3.31	ug/kg	z
107-02-8	Acrolien	EPA 8260	ND	66.2	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	3.31	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	ND	3.31	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	22.1	16.5	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	3.31	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	3.31	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	ND	3.31	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	3.31	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	3.31	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	3.31	ug/kg	11000
71-43-2	Benzene	EPA 8260	ND	3.31	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	ND	6.62	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	ND	3.31	ug/kg	14700



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Analytical Report

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Facility: Regulatory Affairs
 Job Number: 97090140

Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB03-4

Lab ID: AA27603

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits	
74-95-3	Dibromomethane	EPA 8260	ND	3.31	ug/kg	z	
75-27-4	Bromodichloromethane	EPA 8260	ND	3.31	ug/kg	16100	
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	3.31	ug/kg	z	
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	3.31	ug/kg	z	
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	16.5	ug/kg	64000000	
108-88-3	Toluene	EPA 8260	ND	6.62	ug/kg	16000000	
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	3.31	ug/kg	143	
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	3.31	ug/kg	z	
79-00-5	1,1,2-Trichloroethane	EPA 8260	ND	3.31	ug/kg	17500	
142-28-9	1,3-Dichloropropane	EPA 8260	ND	3.31	ug/kg	z	
127-18-4	Tetrachloroethene	EPA 8260	ND	3.31	ug/kg	19600	
591-78-6	2-Hexanone	EPA 8260	ND	16.5	ug/kg	z	
106-93-4	1,2-Dibromoethane	EPA 8260	ND	3.31	ug/kg	1.18	Q
124-48-1	Dibromochloromethane	EPA 8260	ND	3.31	ug/kg	11900	
108-90-7	Chlorobenzene	EPA 8260	ND	3.31	ug/kg	1600000	
100-41-4	Ethylbenzene	EPA 8260	5	3.31	ug/kg	8000000	
106-42-3	m,p-Xylene	EPA 8260	18	3.31	ug/kg	z	
95-47-6	o-Xylene	EPA 8260	5.4	3.31	ug/kg	16000000	
100-42-5	Styrene	EPA 8260	ND	3.31	ug/kg	33300	
75-25-2	Bromoform	EPA 8260	ND	3.31	ug/kg	127000	
98-82-8	Isopropylbenzene	EPA 8260	ND	3.31	ug/kg	z	
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	9.93	ug/kg	5000	
108-86-1	Bromobenzene	EPA 8260	ND	3.31	ug/kg	z	
103-65-1	n-propylbenzene	EPA 8260	ND	3.31	ug/kg	z	
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	ND	3.31	ug/kg	z	
95-49-8	2-Chlorotoluene	EPA 8260	ND	3.31	ug/kg	1600000	
106-43-4	4-Chlorotoluene	EPA 8260	ND	3.31	ug/kg	z	
98-06-6	tert-Butylbenzene	EPA 8260	ND	3.31	ug/kg	z	
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	ND	3.31	ug/kg	z	
135-98-8	sec-Butylbenzene	EPA 8260	ND	3.31	ug/kg	z	
541-73-1	1,3-Dichlorobenzene	EPA 8260	ND	3.31	ug/kg	z	
106-46-7	1,4-Dichlorobenzene	EPA 8260	ND	3.31	ug/kg	41700	
104-51-8	n-Butylbenzene	EPA 8260	ND	3.31	ug/kg	z	



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Analytical Report

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Facility: Regulatory Affairs
 Job Number: 97090140

Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB03-4

Lab ID: AA27603

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
99-87-6	p-Isopropyltoluene	EPA 8260	ND	3.31	ug/kg	z
95-50-1	1,2-Dichlorobenzene	EPA 8260	ND	3.31	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	16.5	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	ND	3.31	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	3.31	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	ND	16.5	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	ND	3.31	ug/kg	z
EPA 8270 Solid						
62-53-3	Aniline	EPA 8270	ND	167	ug/kg	175000
111-44-4	bis(2-Chloroethyl)ether	EPA 8270	ND	33	ug/kg	909
108-95-2	Phenol	EPA 8270	ND	33	ug/kg	48000000
95-57-8	2-Chlorophenol	EPA 8270	ND	33	ug/kg	400000
541-73-1	1,3-Dichlorobenzene	EPA 8270	ND	33	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8270	ND	33	ug/kg	41700
95-50-1	1,2-Dichlorobenzene	EPA 8270	ND	33	ug/kg	7200000
100-51-6	Benzyl alcohol	EPA 8270	ND	67	ug/kg	24000000
39638-32-9	bis(2-chloroisopropyl)ether	EPA 8270	ND	33	ug/kg	3200000
95-48-7	2-Methylphenol	EPA 8270	ND	33	ug/kg	4000000
98-86-2	Acetophenone	EPA 8270	ND	167	ug/kg	8000000
67-72-1	Hexachloroethane	EPA 8270	ND	33	ug/kg	71400
621-64-7	N-Nitroso-di-n-propylamine	EPA 8270	ND	33	ug/kg	143
106-44-5	4-Methylphenol	EPA 8270	ND	33	ug/kg	400000
98-95-3	Nitrobenzene	EPA 8270	ND	33	ug/kg	40000
78-59-1	Isophorone	EPA 8270	ND	33	ug/kg	1050000
88-75-5	2-Nitrophenol	EPA 8270	ND	33	ug/kg	z
105-67-9	2,4-Dimethylphenol	EPA 8270	ND	33	ug/kg	1600000
111-91-1	bis(2-Chloroethoxy)methane	EPA 8270	ND	33	ug/kg	z
120-83-2	2,4-Dichlorophenol	EPA 8270	ND	33	ug/kg	240000
120-82-1	1,2,4-Trichlorobenzene	EPA 8270	ND	33	ug/kg	800000
91-20-3	Naphthalene	EPA 8270	ND	33	ug/kg	3200000
106-47-8	4-Chloroaniline	EPA 8270	ND	67	ug/kg	320000
87-68-3	Hexachlorobutadiene	EPA 8270	ND	33	ug/kg	12800
65-85-0	Benzoic Acid	EPA 8270	ND	167	ug/kg	32000000

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 Project No: 16957

Client ID: IAB03-4

Lab ID: AA27603

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits	
59-50-7	4-Chloro-3-methylphenol	EPA 8270	ND	67	ug/kg	z	
91-57-6	2-Methylnaphthalene	EPA 8270	ND	33	ug/kg	z	
77-47-4	Hexachlorocyclopentadiene	EPA 8270	ND	33	ug/kg	560000	
88-06-2	2,4,6-Trichlorophenol	EPA 8270	ND	33	ug/kg	90900	
95-95-4	2,4,5-Trichlorophenol	EPA 8270	ND	33	ug/kg	8000000	
91-58-7	2-Chloronaphthalene	EPA 8270	ND	33	ug/kg	6400	
88-74-4	2-Nitroaniline	EPA 8270	ND	67	ug/kg	z	
208-96-8	Acenaphthylene	EPA 8270	ND	33	ug/kg	z	
131-11-3	Dimethylphthalate	EPA 8270	ND	33	ug/kg	80000000	
606-20-2	2,6-Dinitrotoluene	EPA 8270	ND	33	ug/kg	80000	
83-32-9	Acenaphthene	EPA 8270	ND	33	ug/kg	4800000	
99-09-2	3-Nitroaniline	EPA 8270	ND	167	ug/kg	z	
51-28-5	2,4-Dinitrophenol	EPA 8270	ND	167	ug/kg	160000	
132-64-9	Dibenzofuran	EPA 8270	ND	167	ug/kg	z	
121-14-2	2,4-Dinitrotoluene	EPA 8270	ND	33	ug/kg	160000	
100-02-7	4-Nitrophenol	EPA 8270	ND	33	ug/kg	z	
86-73-7	Fluorene	EPA 8270	ND	33	ug/kg	3200000	
7005-72-3	4-Chlorophenyl-phenylether	EPA 8270	ND	33	ug/kg	z	
84-66-2	Diethylphthalate	EPA 8270	ND	33	ug/kg	64000000	
100-01-6	4-Nitroaniline	EPA 8270	ND	167	ug/kg	z	
534-52-1	4,6-Dinitro-2-methylphenol	EPA 8270	ND	167	ug/kg	z	
86-30-6	n-Nitrosodiphenylamine	EPA 8270	ND	33	ug/kg	204000	
103-33-3	Azobenzene	EPA 8270	ND	33	ug/kg	z	
101-55-3	4-Bromophenyl-phenylether	EPA 8270	ND	33	ug/kg	z	
118-74-1	Hexachlorobenzene	EPA 8270	ND	33	ug/kg	625	
87-86-5	Pentachlorophenol	EPA 8270	ND	167	ug/kg	8330	
85-01-8	Phenanthrene	EPA 8270	ND	33	ug/kg	z	
120-12-7	Anthracene	EPA 8270	ND	33	ug/kg	24000000	
84-74-2	Di-n-butylphthalate	EPA 8270	ND	33	ug/kg	8000000	
206-44-0	Fluoranthene	EPA 8270	ND	33	ug/kg	3200000	
92-87-5	Benzidine	EPA 8270	ND	33	ug/kg	4.35	Q
129-00-0	Pyrene	EPA 8270	ND	33	ug/kg	2400000	
85-68-7	Butylbenzylphthalate	EPA 8270	ND	33	ug/kg	16000000	



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 Received Date: 09/17/97

Facility: Regulatory Affairs
 Job Number: 97090140

Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB03-4

Lab ID: AA27603

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
91-94-1	3,3'-Dichlorobenzidine	EPA 8270	ND	33	ug/kg	2220
56-55-3	Benzo[a]anthracene	EPA 8270	ND	67	ug/kg	137
218-01-9	Chrysene	EPA 8270	ND	33	ug/kg	137
117-81-7	bis(2-Ethylhexyl)phthalate	EPA 8270	ND	167	ug/kg	71400
117-84-0	Di-n-octylphthalate	EPA 8270	ND	33	ug/kg	1600000
205-99-2	Benzo[b]fluoranthene	EPA 8270	ND	33	ug/kg	137
207-08-9	Benzo[k]fluoranthene	EPA 8270	ND	33	ug/kg	137
50-32-8	Benzo[a]pyrene	EPA 8270	ND	33	ug/kg	137
193-39-5	Indeno[1,2,3-cd]pyrene	EPA 8270	ND	33	ug/kg	137
53-70-3	Dibenz[a,h]anthracene	EPA 8270	ND	33	ug/kg	137
191-24-2	Benzo[g,h,i]perylene	EPA 8270	ND	33	ug/kg	z

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

E = The concentration of this analyte exceeds the calibration range of the instrument.

Q = Analyte concentration and/or MDL is greater than the 1996 MTCA B Limits.

z = Analyte not listed in 1996 MTCA Method B.



Phillip Environmental Laboratory
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Analytical Report

Report Date: 11/18/97
 Sample Collected: 09/15/97
 Received Date: 09/17/97

Facility: Regulatory Affairs
 Job Number: 97090140

Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB03-6

Lab ID: AA27604

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	ND	3	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	3	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	ND	3	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	3	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	3	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	3	ug/kg	24000000
306-83-2	1,1-DichloroTrifluoroethane	EPA 8260	ND	13	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	3	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	13	ug/kg	
67-64-1	Acetone	EPA 8260	31.1	13	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	ND	3	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	ND	13	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	ND	13	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	ND	13	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	13	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	ND	3	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	ND	3	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	3	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	ND	3	ug/kg	z
107-02-8	Acrolin	EPA 8260	ND	52	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	3	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	ND	3	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	ND	13	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	3	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	3	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	ND	3	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	3	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	3	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	3	ug/kg	11000
71-43-2	Benzene	EPA 8260	ND	3	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	ND	5	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	ND	3	ug/kg	14700



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Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB03-6

Lab ID: AA27604

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
74-95-3	Dibromomethane	EPA 8260	ND	3	ug/kg	z
75-27-4	Bromodichloromethane	EPA 8260	ND	3	ug/kg	16100
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	3	ug/kg	z
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	3	ug/kg	z
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	13	ug/kg	64000000
108-88-3	Toluene	EPA 8260	7.47	5	ug/kg	16000000
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	3	ug/kg	143
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	3	ug/kg	z
79-00-5	1,1,2-Trichloroethane	EPA 8260	ND	3	ug/kg	17500
142-28-9	1,3-Dichloropropane	EPA 8260	ND	3	ug/kg	z
127-18-4	Tetrachloroethene	EPA 8260	ND	3	ug/kg	19600
591-78-6	2-Hexanone	EPA 8260	ND	13	ug/kg	z
106-93-4	1,2-Dibromoethane	EPA 8260	ND	3	ug/kg	1.18
124-48-1	Dibromochloromethane	EPA 8260	ND	3	ug/kg	11900
108-90-7	Chlorobenzene	EPA 8260	ND	3	ug/kg	1600000
100-41-4	Ethylbenzene	EPA 8260	ND	3	ug/kg	8000000
106-42-3	m,p-Xylene	EPA 8260	ND	3	ug/kg	z
95-47-6	o-Xylene	EPA 8260	ND	3	ug/kg	16000000
100-42-5	Styrene	EPA 8260	ND	3	ug/kg	33300
75-25-2	Bromoform	EPA 8260	ND	3	ug/kg	127000
98-82-8	Isopropylbenzene	EPA 8260	ND	3	ug/kg	z
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	8	ug/kg	5000
108-86-1	Bromobenzene	EPA 8260	ND	3	ug/kg	z
103-65-1	n-propylbenzene	EPA 8260	ND	3	ug/kg	z
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	ND	3	ug/kg	z
95-49-8	2-Chlorotoluene	EPA 8260	ND	3	ug/kg	1600000
106-43-4	4-Chlorotoluene	EPA 8260	ND	3	ug/kg	z
98-06-6	tert-Butylbenzene	EPA 8260	ND	3	ug/kg	z
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	ND	3	ug/kg	z
135-98-8	sec-Butylbenzene	EPA 8260	ND	3	ug/kg	z
541-73-1	1,3-Dichlorobenzene	EPA 8260	ND	3	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8260	ND	3	ug/kg	41700
104-51-8	n-Butylbenzene	EPA 8260	ND	3	ug/kg	z



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Lab ID: AA27604

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
99-87-6	p-Isopropyltoluene	EPA 8260	ND	3	ug/kg	z
95-50-1	1,2-Dichlorobenzene	EPA 8260	ND	3	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	13	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	ND	3	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	3	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	ND	13	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	ND	3	ug/kg	z
EPA 8270 Solid						
62-53-3	Analine	EPA 8270	ND	167	ug/kg	175000
111-44-4	bis(2-Chloroethyl)ether	EPA 8270	ND	33	ug/kg	909
108-95-2	Phenol	EPA 8270	ND	33	ug/kg	48000000
95-57-8	2-Chlorophenol	EPA 8270	ND	33	ug/kg	400000
541-73-1	1,3-Dichlorobenzene	EPA 8270	ND	33	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8270	ND	33	ug/kg	41700
95-50-1	1,2-Dichlorobenzene	EPA 8270	ND	33	ug/kg	7200000
100-51-6	Benzyl alcohol	EPA 8270	ND	67	ug/kg	24000000
39638-32-9	bis(2-chloroisopropyl)ether	EPA 8270	ND	33	ug/kg	3200000
95-48-7	2-Methylphenol	EPA 8270	ND	33	ug/kg	4000000
98-86-2	Acetophenone	EPA 8270	ND	167	ug/kg	8000000
67-72-1	Hexachloroethane	EPA 8270	ND	33	ug/kg	71400
621-64-7	N-Nitroso-di-n-propylamine	EPA 8270	ND	33	ug/kg	143
106-44-5	4-Methylphenol	EPA 8270	ND	33	ug/kg	400000
98-95-3	Nitrobenzene	EPA 8270	ND	33	ug/kg	40000
78-59-1	Isophorone	EPA 8270	ND	33	ug/kg	1050000
88-75-5	2-Nitrophenol	EPA 8270	ND	33	ug/kg	z
105-67-9	2,4-Dimethylphenol	EPA 8270	ND	33	ug/kg	1600000
111-91-1	bis(2-Chloroethoxy)methane	EPA 8270	ND	33	ug/kg	z
120-83-2	2,4-Dichlorophenol	EPA 8270	ND	33	ug/kg	240000
120-82-1	1,2,4-Trichlorobenzene	EPA 8270	ND	33	ug/kg	800000
91-20-3	Naphthalene	EPA 8270	ND	33	ug/kg	3200000
106-47-8	4-Chloroaniline	EPA 8270	ND	67	ug/kg	320000
87-68-3	Hexachlorobutadiene	EPA 8270	ND	33	ug/kg	12800
65-85-0	Benzoic Acid	EPA 8270	ND	167	ug/kg	32000000



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Client ID: IAB03-6

Lab ID: AA27604

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
59-50-7	4-Chloro-3-methylphenol	EPA 8270	ND	67	ug/kg	z
91-57-6	2-Methylnaphthalene	EPA 8270	ND	33	ug/kg	z
77-47-4	Hexachlorocyclopentadiene	EPA 8270	ND	33	ug/kg	560000
88-06-2	2,4,6-Trichlorophenol	EPA 8270	ND	33	ug/kg	90900
95-95-4	2,4,5-Trichlorophenol	EPA 8270	ND	33	ug/kg	8000000
91-58-7	2-Chloronaphthalene	EPA 8270	ND	33	ug/kg	6400
88-74-4	2-Nitroaniline	EPA 8270	ND	67	ug/kg	z
208-96-8	Acenaphthylene	EPA 8270	ND	33	ug/kg	z
131-11-3	Dimethylphthalate	EPA 8270	ND	33	ug/kg	80000000
606-20-2	2,6-Dinitrotoluene	EPA 8270	ND	33	ug/kg	80000
83-32-9	Acenaphthene	EPA 8270	ND	33	ug/kg	4800000
99-09-2	3-Nitroaniline	EPA 8270	ND	167	ug/kg	z
51-28-5	2,4-Dinitrophenol	EPA 8270	ND	167	ug/kg	160000
132-64-9	Dibenzofuran	EPA 8270	ND	167	ug/kg	z
121-14-2	2,4-Dinitrotoluene	EPA 8270	ND	33	ug/kg	160000
100-02-7	4-Nitrophenol	EPA 8270	ND	33	ug/kg	z
86-73-7	Fluorene	EPA 8270	ND	33	ug/kg	3200000
7005-72-3	4-Chlorophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
84-66-2	Diethylphthalate	EPA 8270	ND	33	ug/kg	64000000
100-01-6	4-Nitroaniline	EPA 8270	ND	167	ug/kg	z
534-52-1	4,6-Dinitro-2-methylphenol	EPA 8270	ND	167	ug/kg	z
86-30-6	n-Nitrosodiphenylamine	EPA 8270	ND	33	ug/kg	204000
103-33-3	Azobenzene	EPA 8270	ND	33	ug/kg	z
101-55-3	4-Bromophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
118-74-1	Hexachlorobenzene	EPA 8270	ND	33	ug/kg	625
87-86-5	Pentachlorophenol	EPA 8270	ND	167	ug/kg	8330
85-01-8	Phenanthrene	EPA 8270	ND	33	ug/kg	z
120-12-7	Anthracene	EPA 8270	ND	33	ug/kg	24000000
84-74-2	Di-n-butylphthalate	EPA 8270	ND	33	ug/kg	8000000
206-44-0	Fluoranthene	EPA 8270	ND	33	ug/kg	3200000
92-87-5	Benzidine	EPA 8270	ND	33	ug/kg	4.35
129-00-0	Pyrene	EPA 8270	ND	33	ug/kg	2400000
85-68-7	Butylbenzylphthalate	EPA 8270	ND	33	ug/kg	16000000

Q



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Facility: Regulatory Affairs
 Job Number: 97090140

Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB03-6

Lab ID: AA27604

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
91-94-1	3,3'-Dichlorobenzidine	EPA 8270	ND	33	ug/kg	2220
56-55-3	Benzo[a]anthracene	EPA 8270	ND	67	ug/kg	137
218-01-9	Chrysene	EPA 8270	ND	33	ug/kg	137
117-81-7	bis(2-Ethylhexyl)phthalate	EPA 8270	ND	167	ug/kg	71400
117-84-0	Di-n-octylphthalate	EPA 8270	ND	33	ug/kg	1600000
205-99-2	Benzo[b]fluoranthene	EPA 8270	ND	33	ug/kg	137
207-08-9	Benzo[k]fluoranthene	EPA 8270	ND	33	ug/kg	137
50-32-8	Benzo[a]pyrene	EPA 8270	ND	33	ug/kg	137
193-39-5	Indeno[1,2,3-cd]pyrene	EPA 8270	ND	33	ug/kg	137
53-70-3	Dibenz[a,h]anthracene	EPA 8270	ND	33	ug/kg	137
191-24-2	Benzo[g,h,i]perylene	EPA 8270	ND	33	ug/kg	z

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

E = The concentration of this analyte exceeds the calibration range of the instrument.

Q = Analyte concentration and/or MDL is greater than the 1996 MTCA B Limits.

z = Analyte not listed in 1996 MTCA Method B.

Data Reviewed by: 

Data Reported by: 



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Facility: Regulatory Affairs
 Job Number: 97090140

Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB04-2

Lab ID: AA27580

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	ND	3	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	3	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	ND	3	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	3	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	3	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	3	ug/kg	24000000
306-83-2	1,1-DichloroTrifluoroethane	EPA 8260	ND	13	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	3	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	13	ug/kg	
67-64-1	Acetone	EPA 8260	ND	13	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	ND	3	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	ND	13	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	28.0	13	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	ND	13	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	13	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	ND	3	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	ND	3	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	3	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	ND	3	ug/kg	z
107-02-8	Acrolien	EPA 8260	ND	52	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	3	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	ND	3	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	ND	13	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	3	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	3	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	ND	3	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	3	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	3	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	3	ug/kg	11000
71-43-2	Benzene	EPA 8260	ND	3	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	ND	5	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	ND	3	ug/kg	14700



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Facility: Regulatory Affairs
 Job Number: 97090140

Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB04-2

Lab ID: AA27580

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
74-95-3	Dibromomethane	EPA 8260	ND	3	ug/kg	z
75-27-4	Bromodichloromethane	EPA 8260	ND	3	ug/kg	16100
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	3	ug/kg	z
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	3	ug/kg	z
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	13	ug/kg	64000000
108-88-3	Toluene	EPA 8260	15.5	5	ug/kg	16000000
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	3	ug/kg	143
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	3	ug/kg	z
79-00-5	1,1,2-Trichloroethane	EPA 8260	ND	3	ug/kg	17500
142-28-9	1,3-Dichloropropane	EPA 8260	ND	3	ug/kg	z
127-18-4	Tetrachloroethene	EPA 8260	ND	3	ug/kg	19600
591-78-6	2-Hexanone	EPA 8260	ND	13	ug/kg	z
106-93-4	1,2-Dibromoethane	EPA 8260	ND	3	ug/kg	1.18
124-48-1	Dibromochloromethane	EPA 8260	ND	3	ug/kg	11900
108-90-7	Chlorobenzene	EPA 8260	ND	3	ug/kg	1600000
100-41-4	Ethylbenzene	EPA 8260	ND	3	ug/kg	8000000
106-42-3	m,p-Xylene	EPA 8260	ND	3	ug/kg	z
95-47-6	o-Xylene	EPA 8260	ND	3	ug/kg	16000000
100-42-5	Styrene	EPA 8260	ND	3	ug/kg	33300
75-25-2	Bromoform	EPA 8260	ND	3	ug/kg	127000
98-82-8	Isopropylbenzene	EPA 8260	ND	3	ug/kg	z
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	8	ug/kg	5000
108-86-1	Bromobenzene	EPA 8260	ND	3	ug/kg	z
103-65-1	n-propylbenzene	EPA 8260	ND	3	ug/kg	z
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	ND	3	ug/kg	z
95-49-8	2-Chlorotoluene	EPA 8260	ND	3	ug/kg	1600000
106-43-4	4-Chlorotoluene	EPA 8260	ND	3	ug/kg	z
98-06-6	tert-Butylbenzene	EPA 8260	ND	3	ug/kg	z
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	ND	3	ug/kg	z
135-98-8	sec-Butylbenzene	EPA 8260	ND	3	ug/kg	z
541-73-1	1,3-Dichlorobenzene	EPA 8260	ND	3	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8260	ND	3	ug/kg	41700
104-51-8	n-Butylbenzene	EPA 8260	ND	3	ug/kg	z

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Analytical Report

Report Date: 11/18/97
 Sample Collected: 09/15/97
 Received Date: 09/17/97

Facility: Regulatory Affairs
 Job Number: 97090140

Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB04-2

Lab ID: AA27580

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
99-87-6	p-Isopropyltoluene	EPA 8260	ND	3	ug/kg	z
95-50-1	1,2-Dichlorobenzene	EPA 8260	ND	3	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	13	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	ND	3	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	3	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	ND	13	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	ND	3	ug/kg	z
EPA 8270 Solid						
62-53-3	Aniline	EPA 8270	ND	167	ug/kg	175000
111-44-4	bis(2-Chloroethyl)ether	EPA 8270	ND	33	ug/kg	909
108-95-2	Phenol	EPA 8270	ND	33	ug/kg	48000000
95-57-8	2-Chlorophenol	EPA 8270	ND	33	ug/kg	400000
541-73-1	1,3-Dichlorobenzene	EPA 8270	ND	33	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8270	ND	33	ug/kg	41700
95-50-1	1,2-Dichlorobenzene	EPA 8270	ND	33	ug/kg	7200000
100-51-6	Benzyl alcohol	EPA 8270	ND	67	ug/kg	24000000
39638-32-9	bis(2-chloroisopropyl)ether	EPA 8270	ND	33	ug/kg	3200000
95-48-7	2-Methylphenol	EPA 8270	ND	33	ug/kg	4000000
98-86-2	Acetophenone	EPA 8270	ND	167	ug/kg	8000000
67-72-1	Hexachloroethane	EPA 8270	ND	33	ug/kg	71400
621-64-7	N-Nitroso-di-n-propylamine	EPA 8270	ND	33	ug/kg	143
106-44-5	4-Methylphenol	EPA 8270	ND	33	ug/kg	400000
98-95-3	Nitrobenzene	EPA 8270	ND	33	ug/kg	40000
78-59-1	Isophorone	EPA 8270	ND	33	ug/kg	1050000
88-75-5	2-Nitrophenol	EPA 8270	ND	33	ug/kg	z
105-67-9	2,4-Dimethylphenol	EPA 8270	ND	33	ug/kg	1600000
111-91-1	bis(2-Chloroethoxy)methane	EPA 8270	ND	33	ug/kg	z
120-83-2	2,4-Dichlorophenol	EPA 8270	ND	33	ug/kg	240000
120-82-1	1,2,4-Trichlorobenzene	EPA 8270	ND	33	ug/kg	800000
91-20-3	Naphthalene	EPA 8270	ND	33	ug/kg	3200000
106-47-8	4-Chloroaniline	EPA 8270	ND	67	ug/kg	320000
87-68-3	Hexachlorobutadiene	EPA 8270	ND	33	ug/kg	12800
65-85-0	Benzoic Acid	EPA 8270	ND	167	ug/kg	32000000



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CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
59-50-7	4-Chloro-3-methylphenol	EPA 8270	ND	67	ug/kg	z
91-57-6	2-Methylnaphthalene	EPA 8270	ND	33	ug/kg	z
77-47-4	Hexachlorocyclopentadiene	EPA 8270	ND	33	ug/kg	560000
88-06-2	2,4,6-Trichlorophenol	EPA 8270	ND	33	ug/kg	90900
95-95-4	2,4,5-Trichlorophenol	EPA 8270	ND	33	ug/kg	8000000
91-58-7	2-Chloronaphthalene	EPA 8270	ND	33	ug/kg	6400
88-74-4	2-Nitroaniline	EPA 8270	ND	67	ug/kg	z
208-96-8	Acenaphthylene	EPA 8270	ND	33	ug/kg	z
131-11-3	Dimethylphthalate	EPA 8270	ND	33	ug/kg	80000000
606-20-2	2,6-Dinitrotoluene	EPA 8270	ND	33	ug/kg	80000
83-32-9	Acenaphthene	EPA 8270	ND	33	ug/kg	4800000
99-09-2	3-Nitroaniline	EPA 8270	ND	167	ug/kg	z
51-28-5	2,4-Dinitrophenol	EPA 8270	ND	167	ug/kg	160000
132-64-9	Dibenzofuran	EPA 8270	ND	167	ug/kg	z
121-14-2	2,4-Dinitrotoluene	EPA 8270	ND	33	ug/kg	160000
100-02-7	4-Nitrophenol	EPA 8270	ND	33	ug/kg	z
86-73-7	Fluorene	EPA 8270	ND	33	ug/kg	3200000
7005-72-3	4-Chlorophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
84-66-2	Diethylphthalate	EPA 8270	ND	33	ug/kg	64000000
100-01-6	4-Nitroaniline	EPA 8270	ND	167	ug/kg	z
534-52-1	4,6-Dinitro-2-methylphenol	EPA 8270	ND	167	ug/kg	z
86-30-6	n-Nitrosodiphenylamine	EPA 8270	ND	33	ug/kg	204000
103-33-3	Azobenzene	EPA 8270	ND	33	ug/kg	z
101-55-3	4-Bromophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
118-74-1	Hexachlorobenzene	EPA 8270	ND	33	ug/kg	625
87-86-5	Pentachlorophenol	EPA 8270	ND	167	ug/kg	8330
85-01-8	Phenanthrene	EPA 8270	ND	33	ug/kg	z
120-12-7	Anthracene	EPA 8270	ND	33	ug/kg	24000000
84-74-2	Di-n-butylphthalate	EPA 8270	ND	33	ug/kg	8000000
206-44-0	Fluoranthene	EPA 8270	ND	33	ug/kg	3200000
92-87-5	Benzidine	EPA 8270	ND	33	ug/kg	4.35
129-00-0	Pyrene	EPA 8270	ND	33	ug/kg	2400000
85-68-7	Butylbenzylphthalate	EPA 8270	ND	33	ug/kg	16000000

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Received Date: 09/17/97

Facility: Regulatory Affairs
Job Number: 97090140

Project Name: WASHOUGAL
Project No: 16957

Client ID: IAB04-2

Lab ID: AA27580

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
91-94-1	3,3'-Dichlorobenzidine	EPA 8270	ND	33	ug/kg	2220
56-55-3	Benzo[a]anthracene	EPA 8270	ND	67	ug/kg	137
218-01-9	Chrysene	EPA 8270	ND	33	ug/kg	137
117-81-7	bis(2-Ethylhexyl)phthalate	EPA 8270	ND	167	ug/kg	71400
117-84-0	Di-n-octylphthalate	EPA 8270	ND	33	ug/kg	1600000
205-99-2	Benzo[b]fluoranthene	EPA 8270	ND	33	ug/kg	137
207-08-9	Benzo[k]fluoranthene	EPA 8270	ND	33	ug/kg	137
50-32-8	Benzo[a]pyrene	EPA 8270	ND	33	ug/kg	137
193-39-5	Indeno[1,2,3-cd]pyrene	EPA 8270	ND	33	ug/kg	137
53-70-3	Dibenz[a,h]anthracene	EPA 8270	ND	33	ug/kg	137
191-24-2	Benzo[g,h,i]perylene	EPA 8270	ND	33	ug/kg	z

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

E = The concentration of this analyte exceeds the calibration range of the instrument.

Q = Analyte concentration and/or MDL is greater than the 1996 MTCA B Limits.

z = Analyte not listed in 1996 MTCA Method B.



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Analytical Report

Report Date: 11/18/97	Facility: Regulatory Affairs	Project Name: WASHOUGAL
Sample Collected: 09/15/97	Job Number: 97090140	Project No: 16957
Received Date: 09/17/97		

Client ID: IAB04-4

Lab ID: AA27581

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	ND	2	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	2	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	ND	2	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	2	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	2	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	2	ug/kg	24000000
306-83-2	1,1-DichloroTrifluoroethane	EPA 8260	ND	10	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	2	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	10	ug/kg	
67-64-1	Acetone	EPA 8260	ND	10	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	ND	2	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	ND	10	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	ND	10	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	ND	10	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	10	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	ND	2	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	ND	2	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	2	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	ND	2	ug/kg	z
107-02-8	Acrolin	EPA 8260	ND	38	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	2	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	ND	2	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	ND	10	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	2	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	2	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	ND	2	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	2	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	2	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	2	ug/kg	11000
71-43-2	Benzene	EPA 8260	ND	2	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	ND	4	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	ND	2	ug/kg	14700



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Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB04-4

Lab ID: AA27581

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
74-95-3	Dibromomethane	EPA 8260	ND	2	ug/kg	z
75-27-4	Bromodichloromethane	EPA 8260	ND	2	ug/kg	16100
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	2	ug/kg	z
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	2	ug/kg	z
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	10	ug/kg	64000000
108-88-3	Toluene	EPA 8260	14.1	4	ug/kg	16000000
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	2	ug/kg	143
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	2	ug/kg	z
79-00-5	1,1,2-Trichloroethane	EPA 8260	ND	2	ug/kg	17500
142-28-9	1,3-Dichloropropane	EPA 8260	ND	2	ug/kg	z
127-18-4	Tetrachloroethene	EPA 8260	3.27	2	ug/kg	19600
591-78-6	2-Hexanone	EPA 8260	ND	10	ug/kg	z
106-93-4	1,2-Dibromoethane	EPA 8260	ND	2	ug/kg	1.18
124-48-1	Dibromochloromethane	EPA 8260	ND	2	ug/kg	11900
108-90-7	Chlorobenzene	EPA 8260	ND	2	ug/kg	1600000
100-41-4	Ethylbenzene	EPA 8260	ND	2	ug/kg	8000000
106-42-3	m,p-Xylene	EPA 8260	4.89	2	ug/kg	z
95-47-6	o-Xylene	EPA 8260	ND	2	ug/kg	16000000
100-42-5	Styrene	EPA 8260	ND	2	ug/kg	33300
75-25-2	Bromoform	EPA 8260	ND	2	ug/kg	127000
98-82-8	Isopropylbenzene	EPA 8260	ND	2	ug/kg	z
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	6	ug/kg	5000
108-86-1	Bromobenzene	EPA 8260	ND	2	ug/kg	z
103-65-1	n-propylbenzene	EPA 8260	ND	2	ug/kg	z
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	ND	2	ug/kg	z
95-49-8	2-Chlorotoluene	EPA 8260	ND	2	ug/kg	1600000
106-43-4	4-Chlorotoluene	EPA 8260	ND	2	ug/kg	z
98-06-6	tert-Butylbenzene	EPA 8260	ND	2	ug/kg	z
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	ND	2	ug/kg	z
135-98-8	sec-Butylbenzene	EPA 8260	ND	2	ug/kg	z
541-73-1	1,3-Dichlorobenzene	EPA 8260	ND	2	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8260	ND	2	ug/kg	41700
104-51-8	n-Butylbenzene	EPA 8260	ND	2	ug/kg	z

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Client ID: IAB04-4

Lab ID: AA27581

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
99-87-6	p-Isopropyltoluene	EPA 8260	ND	2	ug/kg	z
95-50-1	1,2-Dichlorobenzene	EPA 8260	ND	2	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	10	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	ND	2	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	2	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	ND	10	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	ND	2	ug/kg	z
EPA 8270 Solid						
62-53-3	Aniline	EPA 8270	ND	167	ug/kg	175000
111-44-4	bis(2-Chloroethyl)ether	EPA 8270	ND	33	ug/kg	909
108-95-2	Phenol	EPA 8270	ND	33	ug/kg	48000000
95-57-8	2-Chlorophenol	EPA 8270	ND	33	ug/kg	400000
541-73-1	1,3-Dichlorobenzene	EPA 8270	ND	33	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8270	ND	33	ug/kg	41700
95-50-1	1,2-Dichlorobenzene	EPA 8270	ND	33	ug/kg	7200000
100-51-6	Benzyl alcohol	EPA 8270	ND	67	ug/kg	24000000
39638-32-9	bis(2-chloroisopropyl)ether	EPA 8270	ND	33	ug/kg	3200000
95-48-7	2-Methylphenol	EPA 8270	ND	33	ug/kg	4000000
98-86-2	Acetophenone	EPA 8270	ND	167	ug/kg	8000000
67-72-1	Hexachloroethane	EPA 8270	ND	33	ug/kg	71400
621-64-7	N-Nitroso-di-n-propylamine	EPA 8270	ND	33	ug/kg	143
106-44-5	4-Methylphenol	EPA 8270	ND	33	ug/kg	400000
98-95-3	Nitrobenzene	EPA 8270	ND	33	ug/kg	40000
78-59-1	Isophorone	EPA 8270	ND	33	ug/kg	1050000
88-75-5	2-Nitrophenol	EPA 8270	ND	33	ug/kg	z
105-67-9	2,4-Dimethylphenol	EPA 8270	ND	33	ug/kg	1600000
111-91-1	bis(2-Chloroethoxy)methane	EPA 8270	ND	33	ug/kg	z
120-83-2	2,4-Dichlorophenol	EPA 8270	ND	33	ug/kg	240000
120-82-1	1,2,4-Trichlorobenzene	EPA 8270	ND	33	ug/kg	800000
91-20-3	Naphthalene	EPA 8270	ND	33	ug/kg	3200000
106-47-8	4-Chloroaniline	EPA 8270	ND	67	ug/kg	320000
87-68-3	Hexachlorobutadiene	EPA 8270	ND	33	ug/kg	12800
65-85-0	Benzoic Acid	EPA 8270	ND	167	ug/kg	32000000



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Lab ID: AA27581

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
59-50-7	4-Chloro-3-methylphenol	EPA 8270	ND	67	ug/kg	z
91-57-6	2-Methylnaphthalene	EPA 8270	ND	33	ug/kg	z
77-47-4	Hexachlorocyclopentadiene	EPA 8270	ND	33	ug/kg	560000
88-06-2	2,4,6-Trichlorophenol	EPA 8270	ND	33	ug/kg	90900
95-95-4	2,4,5-Trichlorophenol	EPA 8270	ND	33	ug/kg	8000000
91-58-7	2-Chloronaphthalene	EPA 8270	ND	33	ug/kg	6400
88-74-4	2-Nitroaniline	EPA 8270	ND	67	ug/kg	z
208-96-8	Acenaphthylene	EPA 8270	ND	33	ug/kg	z
131-11-3	Dimethylphthalate	EPA 8270	ND	33	ug/kg	80000000
606-20-2	2,6-Dinitrotoluene	EPA 8270	ND	33	ug/kg	80000
83-32-9	Acenaphthene	EPA 8270	ND	33	ug/kg	4800000
99-09-2	3-Nitroaniline	EPA 8270	ND	167	ug/kg	z
51-28-5	2,4-Dinitrophenol	EPA 8270	ND	167	ug/kg	160000
132-64-9	Dibenzofuran	EPA 8270	ND	167	ug/kg	z
121-14-2	2,4-Dinitrotoluene	EPA 8270	ND	33	ug/kg	160000
100-02-7	4-Nitrophenol	EPA 8270	ND	33	ug/kg	z
86-73-7	Fluorene	EPA 8270	ND	33	ug/kg	3200000
7005-72-3	4-Chlorophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
84-66-2	Diethylphthalate	EPA 8270	ND	33	ug/kg	64000000
100-01-6	4-Nitroaniline	EPA 8270	ND	167	ug/kg	z
534-52-1	4,6-Dinitro-2-methylphenol	EPA 8270	ND	167	ug/kg	z
86-30-6	n-Nitrosodiphenylamine	EPA 8270	ND	33	ug/kg	204000
103-33-3	Azobenzene	EPA 8270	ND	33	ug/kg	z
101-55-3	4-Bromophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
118-74-1	Hexachlorobenzene	EPA 8270	ND	33	ug/kg	625
87-86-5	Pentachlorophenol	EPA 8270	ND	167	ug/kg	8330
85-01-8	Phenanthrene	EPA 8270	ND	33	ug/kg	z
120-12-7	Anthracene	EPA 8270	ND	33	ug/kg	24000000
84-74-2	Di-n-butylphthalate	EPA 8270	ND	33	ug/kg	8000000
206-44-0	Fluoranthene	EPA 8270	ND	33	ug/kg	3200000
92-87-5	Benzidine	EPA 8270	ND	33	ug/kg	4.35
129-00-0	Pyrene	EPA 8270	ND	33	ug/kg	2400000
85-68-7	Butylbenzylphthalate	EPA 8270	ND	33	ug/kg	16000000

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Analytical Report

Report Date: 11/18/97	Facility: Regulatory Affairs	Project Name: WASHOUGAL
Sample Collected: 09/15/97	Job Number: 97090140	Project No: 16957
Received Date: 09/17/97		

Client ID: IAB04-4

Lab ID: AA27581

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
91-94-1	3,3'-Dichlorobenzidine	EPA 8270	ND	33	ug/kg	2220
56-55-3	Benzo[a]anthracene	EPA 8270	ND	67	ug/kg	137
218-01-9	Chrysene	EPA 8270	ND	33	ug/kg	137
117-81-7	bis(2-Ethylhexyl)phthalate	EPA 8270	ND	167	ug/kg	71400
117-84-0	Di-n-octylphthalate	EPA 8270	ND	33	ug/kg	1600000
205-99-2	Benzo[b]fluoranthene	EPA 8270	ND	33	ug/kg	137
207-08-9	Benzo[k]fluoranthene	EPA 8270	ND	33	ug/kg	137
50-32-8	Benzo[a]pyrene	EPA 8270	ND	33	ug/kg	137
193-39-5	Indeno[1,2,3-cd]pyrene	EPA 8270	ND	33	ug/kg	137
53-70-3	Dibenz[a,h]anthracene	EPA 8270	ND	33	ug/kg	137
191-24-2	Benzo[g,h,i]perylene	EPA 8270	ND	33	ug/kg	z

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

E = The concentration of this analyte exceeds the calibration range of the instrument.

Q = Analyte concentration and/or MDL is greater than the 1996 MTCA B Limits.

z = Analyte not listed in 1996 MTCA Method B.



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Analytical Report

Report Date: 11/18/97
 Sample Collected: 09/15/97
 Received Date: 09/17/97

Facility: Regulatory Affairs
 Job Number: 97090140

Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB04-6

Lab ID: AA27582

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	ND	2	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	2	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	ND	2	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	2	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	2	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	2	ug/kg	24000000
306-83-2	1,1-DichloroTrifluoroethane	EPA 8260	ND	9	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	2	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	9	ug/kg	
67-64-1	Acetone	EPA 8260	27.4	9	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	ND	2	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	ND	9	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	ND	9	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	ND	9	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	9	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	ND	2	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	ND	2	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	2	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	ND	2	ug/kg	z
107-02-8	Acrolin	EPA 8260	ND	34	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	2	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	ND	2	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	ND	9	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	2	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	2	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	ND	2	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	2	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	2	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	2	ug/kg	11000
71-43-2	Benzene	EPA 8260	ND	2	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	ND	3	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	ND	2	ug/kg	14700



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 Project No: 16957

Client ID: IAB04-6

Lab ID: AA27582

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
74-95-3	Dibromomethane	EPA 8260	ND	2	ug/kg	z
75-27-4	Bromodichloromethane	EPA 8260	ND	2	ug/kg	16100
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	2	ug/kg	z
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	2	ug/kg	z
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	9	ug/kg	64000000
108-88-3	Toluene	EPA 8260	ND	3	ug/kg	16000000
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	2	ug/kg	143
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	2	ug/kg	z
79-00-5	1,1,2-Trichloroethane	EPA 8260	ND	2	ug/kg	17500
142-28-9	1,3-Dichloropropane	EPA 8260	ND	2	ug/kg	z
127-18-4	Tetrachloroethene	EPA 8260	ND	2	ug/kg	19600
591-78-6	2-Hexanone	EPA 8260	ND	9	ug/kg	z
106-93-4	1,2-Dibromoethane	EPA 8260	ND	2	ug/kg	1.18
124-48-1	Dibromochloromethane	EPA 8260	ND	2	ug/kg	11900
108-90-7	Chlorobenzene	EPA 8260	ND	2	ug/kg	1600000
100-41-4	Ethylbenzene	EPA 8260	ND	2	ug/kg	8000000
106-42-3	m,p-Xylene	EPA 8260	ND	2	ug/kg	z
95-47-6	o-Xylene	EPA 8260	ND	2	ug/kg	16000000
100-42-5	Styrene	EPA 8260	ND	2	ug/kg	33300
75-25-2	Bromoform	EPA 8260	ND	2	ug/kg	127000
98-82-8	Isopropylbenzene	EPA 8260	ND	2	ug/kg	z
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	5	ug/kg	5000
108-86-1	Bromobenzene	EPA 8260	ND	2	ug/kg	z
103-65-1	n-propylbenzene	EPA 8260	ND	2	ug/kg	z
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	ND	2	ug/kg	z
95-49-8	2-Chlorotoluene	EPA 8260	ND	2	ug/kg	1600000
106-43-4	4-Chlorotoluene	EPA 8260	ND	2	ug/kg	z
98-06-6	tert-Butylbenzene	EPA 8260	ND	2	ug/kg	z
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	ND	2	ug/kg	z
135-98-8	sec-Butylbenzene	EPA 8260	ND	2	ug/kg	z
541-73-1	1,3-Dichlorobenzene	EPA 8260	ND	2	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8260	ND	2	ug/kg	41700
104-51-8	n-Butylbenzene	EPA 8260	ND	2	ug/kg	z

Q



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Client ID: IAB04-6

Lab ID: AA27582

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
99-87-6	p-Isopropyltoluene	EPA 8260	ND	2	ug/kg	z
95-50-1	1,2-Dichlorobenzene	EPA 8260	ND	2	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	9	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	ND	2	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	2	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	ND	9	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	ND	2	ug/kg	z
EPA 8270 Solid						
62-53-3	Aniline	EPA 8270	ND	167	ug/kg	175000
111-44-4	bis(2-Chloroethyl)ether	EPA 8270	ND	33	ug/kg	909
108-95-2	Phenol	EPA 8270	ND	33	ug/kg	48000000
95-57-8	2-Chlorophenol	EPA 8270	ND	33	ug/kg	400000
541-73-1	1,3-Dichlorobenzene	EPA 8270	ND	33	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8270	ND	33	ug/kg	41700
95-50-1	1,2-Dichlorobenzene	EPA 8270	ND	33	ug/kg	7200000
100-51-6	Benzyl alcohol	EPA 8270	ND	67	ug/kg	24000000
39638-32-9	bis(2-chloroisopropyl)ether	EPA 8270	ND	33	ug/kg	3200000
95-48-7	2-Methylphenol	EPA 8270	ND	33	ug/kg	4000000
98-86-2	Acetophenone	EPA 8270	ND	167	ug/kg	8000000
67-72-1	Hexachloroethane	EPA 8270	ND	33	ug/kg	71400
621-64-7	N-Nitroso-di-n-propylamine	EPA 8270	ND	33	ug/kg	143
106-44-5	4-Methylphenol	EPA 8270	ND	33	ug/kg	400000
98-95-3	Nitrobenzene	EPA 8270	ND	33	ug/kg	40000
78-59-1	Isophorone	EPA 8270	ND	33	ug/kg	1050000
88-75-5	2-Nitrophenol	EPA 8270	ND	33	ug/kg	z
105-67-9	2,4-Dimethylphenol	EPA 8270	ND	33	ug/kg	1600000
111-91-1	bis(2-Chloroethoxy)methane	EPA 8270	ND	33	ug/kg	z
120-83-2	2,4-Dichlorophenol	EPA 8270	ND	33	ug/kg	240000
120-82-1	1,2,4-Trichlorobenzene	EPA 8270	ND	33	ug/kg	800000
91-20-3	Naphthalene	EPA 8270	ND	33	ug/kg	3200000
106-47-8	4-Chloroaniline	EPA 8270	ND	67	ug/kg	320000
87-68-3	Hexachlorobutadiene	EPA 8270	ND	33	ug/kg	12800
65-85-0	Benzoic Acid	EPA 8270	ND	167	ug/kg	32000000



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CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
59-50-7	4-Chloro-3-methylphenol	EPA 8270	ND	67	ug/kg	z
91-57-6	2-Methylnaphthalene	EPA 8270	ND	33	ug/kg	z
77-47-4	Hexachlorocyclopentadiene	EPA 8270	ND	33	ug/kg	560000
88-06-2	2,4,6-Trichlorophenol	EPA 8270	ND	33	ug/kg	90900
95-95-4	2,4,5-Trichlorophenol	EPA 8270	ND	33	ug/kg	8000000
91-58-7	2-Chloronaphthalene	EPA 8270	ND	33	ug/kg	6400
88-74-4	2-Nitroaniline	EPA 8270	ND	67	ug/kg	z
208-96-8	Acenaphthylene	EPA 8270	ND	33	ug/kg	z
131-11-3	Dimethylphthalate	EPA 8270	ND	33	ug/kg	80000000
606-20-2	2,6-Dinitrotoluene	EPA 8270	ND	33	ug/kg	80000
83-32-9	Acenaphthene	EPA 8270	ND	33	ug/kg	4800000
99-09-2	3-Nitroaniline	EPA 8270	ND	167	ug/kg	z
51-28-5	2,4-Dinitrophenol	EPA 8270	ND	167	ug/kg	160000
132-64-9	Dibenzofuran	EPA 8270	ND	167	ug/kg	z
121-14-2	2,4-Dinitrotoluene	EPA 8270	ND	33	ug/kg	160000
100-02-7	4-Nitrophenol	EPA 8270	ND	33	ug/kg	z
86-73-7	Fluorene	EPA 8270	ND	33	ug/kg	3200000
7005-72-3	4-Chlorophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
84-66-2	Diethylphthalate	EPA 8270	ND	33	ug/kg	64000000
100-01-6	4-Nitroaniline	EPA 8270	ND	167	ug/kg	z
534-52-1	4,6-Dinitro-2-methylphenol	EPA 8270	ND	167	ug/kg	z
86-30-6	n-Nitrosodiphenylamine	EPA 8270	ND	33	ug/kg	204000
103-33-3	Azobenzene	EPA 8270	ND	33	ug/kg	z
101-55-3	4-Bromophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
118-74-1	Hexachlorobenzene	EPA 8270	ND	33	ug/kg	625
87-86-5	Pentachlorophenol	EPA 8270	ND	167	ug/kg	8330
85-01-8	Phenanthrene	EPA 8270	ND	33	ug/kg	z
120-12-7	Anthracene	EPA 8270	ND	33	ug/kg	24000000
84-74-2	Di-n-butylphthalate	EPA 8270	ND	33	ug/kg	8000000
206-44-0	Fluoranthene	EPA 8270	ND	33	ug/kg	3200000
92-87-5	Benzidine	EPA 8270	ND	33	ug/kg	4.35 Q
129-00-0	Pyrene	EPA 8270	ND	33	ug/kg	2400000
85-68-7	Butylbenzylphthalate	EPA 8270	ND	33	ug/kg	16000000



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Job Number: 97090140

Project Name: WASHOUGAL
Project No: 16957

Client ID: IAB04-6

Lab ID: AA27582

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
91-94-1	3,3'-Dichlorobenzidine	EPA 8270	ND	33	ug/kg	2220
56-55-3	Benzo[a]anthracene	EPA 8270	ND	67	ug/kg	137
218-01-9	Chrysene	EPA 8270	ND	33	ug/kg	137
117-81-7	bis(2-Ethylhexyl)phthalate	EPA 8270	ND	167	ug/kg	71400
117-84-0	Di-n-octylphthalate	EPA 8270	ND	33	ug/kg	1600000
205-99-2	Benzo[b]fluoranthene	EPA 8270	ND	33	ug/kg	137
207-08-9	Benzo[k]fluoranthene	EPA 8270	ND	33	ug/kg	137
50-32-8	Benzo[a]pyrene	EPA 8270	ND	33	ug/kg	137
193-39-5	Indeno[1,2,3-cd]pyrene	EPA 8270	ND	33	ug/kg	137
53-70-3	Dibenz[a,h]anthracene	EPA 8270	ND	33	ug/kg	137
191-24-2	Benzo[g,h,i]perylene	EPA 8270	ND	33	ug/kg	z

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

E = The concentration of this analyte exceeds the calibration range of the instrument.

Q = Analyte concentration and/or MDL is greater than the 1996 MTCA B Limits.

z = Analyte not listed in 1996 MTCA Method B.



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Facility: Regulatory Affairs
 Job Number: 97090140

Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB05-2

Lab ID: AA27590

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	ND	3	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	3	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	ND	3	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	3	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	3	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	3	ug/kg	24000000
306-83-2	1,1-DichloroTrifluoroethane	EPA 8260	ND	13	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	3	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	13	ug/kg	
67-64-1	Acetone	EPA 8260	17.8	13	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	ND	3	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	ND	13	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	ND	13	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	ND	13	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	13	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	ND	3	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	ND	3	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	3	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	ND	3	ug/kg	z
107-02-8	Acrolin	EPA 8260	ND	51	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	3	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	ND	3	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	ND	13	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	3	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	3	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	ND	3	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	3	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	3	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	3	ug/kg	11000
71-43-2	Benzene	EPA 8260	ND	3	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	ND	5	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	ND	3	ug/kg	14700



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Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB05-2

Lab ID: AA27590

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
74-95-3	Dibromomethane	EPA 8260	ND	3	ug/kg	z
75-27-4	Bromodichloromethane	EPA 8260	ND	3	ug/kg	16100
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	3	ug/kg	z
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	3	ug/kg	z
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	13	ug/kg	64000000
108-88-3	Toluene	EPA 8260	ND	5	ug/kg	16000000
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	3	ug/kg	143
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	3	ug/kg	z
79-00-5	1,1,2-Trichloroethane	EPA 8260	ND	3	ug/kg	17500
142-28-9	1,3-Dichloropropane	EPA 8260	ND	3	ug/kg	z
127-18-4	Tetrachloroethene	EPA 8260	ND	3	ug/kg	19600
591-78-6	2-Hexanone	EPA 8260	ND	13	ug/kg	z
106-93-4	1,2-Dibromoethane	EPA 8260	ND	3	ug/kg	1.18
124-48-1	Dibromochloromethane	EPA 8260	ND	3	ug/kg	11900
108-90-7	Chlorobenzene	EPA 8260	ND	3	ug/kg	1600000
100-41-4	Ethylbenzene	EPA 8260	ND	3	ug/kg	8000000
106-42-3	m,p-Xylene	EPA 8260	ND	3	ug/kg	z
95-47-6	o-Xylene	EPA 8260	ND	3	ug/kg	16000000
100-42-5	Styrene	EPA 8260	ND	3	ug/kg	33300
75-25-2	Bromoform	EPA 8260	ND	3	ug/kg	127000
98-82-8	Isopropylbenzene	EPA 8260	ND	3	ug/kg	z
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	8	ug/kg	5000
108-86-1	Bromobenzene	EPA 8260	ND	3	ug/kg	z
103-65-1	n-propylbenzene	EPA 8260	ND	3	ug/kg	z
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	ND	3	ug/kg	z
95-49-8	2-Chlorotoluene	EPA 8260	ND	3	ug/kg	1600000
106-43-4	4-Chlorotoluene	EPA 8260	ND	3	ug/kg	z
98-06-6	tert-Butylbenzene	EPA 8260	ND	3	ug/kg	z
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	ND	3	ug/kg	z
135-98-8	sec-Butylbenzene	EPA 8260	ND	3	ug/kg	z
541-73-1	1,3-Dichlorobenzene	EPA 8260	ND	3	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8260	ND	3	ug/kg	41700
104-51-8	n-Butylbenzene	EPA 8260	ND	3	ug/kg	z

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Phillip Environmental Laboratory
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To: John Stiller
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Analytical Report

Report Date: 11/18/97
 Sample Collected: 09/15/97
 Received Date: 09/17/97

Facility: Regulatory Affairs
 Job Number: 97090140

Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB05-2

Lab ID: AA27590

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
99-87-6	p-Isopropyltoluene	EPA 8260	ND	3	ug/kg	z
95-50-1	1,2-Dichlorobenzene	EPA 8260	ND	3	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	13	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	ND	3	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	3	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	ND	13	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	ND	3	ug/kg	z
EPA 8270 Solid						
62-53-3	Aniline	EPA 8270	ND	167	ug/kg	175000
111-44-4	bis(2-Chloroethyl)ether	EPA 8270	ND	33	ug/kg	909
108-95-2	Phenol	EPA 8270	ND	33	ug/kg	48000000
95-57-8	2-Chlorophenol	EPA 8270	ND	33	ug/kg	400000
541-73-1	1,3-Dichlorobenzene	EPA 8270	ND	33	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8270	ND	33	ug/kg	41700
95-50-1	1,2-Dichlorobenzene	EPA 8270	ND	33	ug/kg	7200000
100-51-6	Benzyl alcohol	EPA 8270	ND	67	ug/kg	24000000
39638-32-9	bis(2-chloroisopropyl)ether	EPA 8270	ND	33	ug/kg	3200000
95-48-7	2-Methylphenol	EPA 8270	ND	33	ug/kg	4000000
98-86-2	Acetophenone	EPA 8270	ND	167	ug/kg	8000000
67-72-1	Hexachloroethane	EPA 8270	ND	33	ug/kg	71400
621-64-7	N-Nitroso-di-n-propylamine	EPA 8270	ND	33	ug/kg	143
106-44-5	4-Methylphenol	EPA 8270	ND	33	ug/kg	400000
98-95-3	Nitrobenzene	EPA 8270	ND	33	ug/kg	40000
78-59-1	Isophorone	EPA 8270	ND	33	ug/kg	1050000
88-75-5	2-Nitrophenol	EPA 8270	ND	33	ug/kg	z
105-67-9	2,4-Dimethylphenol	EPA 8270	ND	33	ug/kg	1600000
111-91-1	bis(2-Chloroethoxy)methane	EPA 8270	ND	33	ug/kg	z
120-83-2	2,4-Dichlorophenol	EPA 8270	ND	33	ug/kg	240000
120-82-1	1,2,4-Trichlorobenzene	EPA 8270	ND	33	ug/kg	800000
91-20-3	Naphthalene	EPA 8270	ND	33	ug/kg	3200000
106-47-8	4-Chloroaniline	EPA 8270	ND	67	ug/kg	320000
87-68-3	Hexachlorobutadiene	EPA 8270	ND	33	ug/kg	12800
65-85-0	Benzoic Acid	EPA 8270	ND	167	ug/kg	32000000

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Client ID: IAB05-2

Lab ID: AA27590

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
59-50-7	4-Chloro-3-methylphenol	EPA 8270	ND	67	ug/kg	z
91-57-6	2-Methylnaphthalene	EPA 8270	ND	33	ug/kg	z
77-47-4	Hexachlorocyclopentadiene	EPA 8270	ND	33	ug/kg	560000
88-06-2	2,4,6-Trichlorophenol	EPA 8270	ND	33	ug/kg	90900
95-95-4	2,4,5-Trichlorophenol	EPA 8270	ND	33	ug/kg	8000000
91-58-7	2-Chloronaphthalene	EPA 8270	ND	33	ug/kg	6400
88-74-4	2-Nitroaniline	EPA 8270	ND	67	ug/kg	z
208-96-8	Acenaphthylene	EPA 8270	ND	33	ug/kg	z
131-11-3	Dimethylphthalate	EPA 8270	ND	33	ug/kg	80000000
606-20-2	2,6-Dinitrotoluene	EPA 8270	ND	33	ug/kg	80000
83-32-9	Acenaphthene	EPA 8270	ND	33	ug/kg	4800000
99-09-2	3-Nitroaniline	EPA 8270	ND	167	ug/kg	z
51-28-5	2,4-Dinitrophenol	EPA 8270	ND	167	ug/kg	160000
132-64-9	Dibenzofuran	EPA 8270	ND	167	ug/kg	z
121-14-2	2,4-Dinitrotoluene	EPA 8270	ND	33	ug/kg	160000
100-02-7	4-Nitrophenol	EPA 8270	ND	33	ug/kg	z
86-73-7	Fluorene	EPA 8270	ND	33	ug/kg	3200000
7005-72-3	4-Chlorophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
84-66-2	Diethylphthalate	EPA 8270	ND	33	ug/kg	64000000
100-01-6	4-Nitroaniline	EPA 8270	ND	167	ug/kg	z
534-52-1	4,6-Dinitro-2-methylphenol	EPA 8270	ND	167	ug/kg	z
86-30-6	n-Nitrosodiphenylamine	EPA 8270	ND	33	ug/kg	204000
103-33-3	Azobenzene	EPA 8270	ND	33	ug/kg	z
101-55-3	4-Bromophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
118-74-1	Hexachlorobenzene	EPA 8270	ND	33	ug/kg	625
87-86-5	Pentachlorophenol	EPA 8270	ND	167	ug/kg	8330
85-01-8	Phenanthrene	EPA 8270	ND	33	ug/kg	z
120-12-7	Anthracene	EPA 8270	ND	33	ug/kg	24000000
84-74-2	Di-n-butylphthalate	EPA 8270	ND	33	ug/kg	8000000
206-44-0	Fluoranthene	EPA 8270	ND	33	ug/kg	3200000
92-87-5	Benzidine	EPA 8270	ND	33	ug/kg	4.35
129-00-0	Pyrene	EPA 8270	ND	33	ug/kg	2400000
85-68-7	Butylbenzylphthalate	EPA 8270	ND	33	ug/kg	16000000

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Analytical Report

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Facility: Regulatory Affairs
 Job Number: 97090140

Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB05-2

Lab ID: AA27590

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
91-94-1	3,3'-Dichlorobenzidine	EPA 8270	ND	33	ug/kg	2220
56-55-3	Benzo[a]anthracene	EPA 8270	ND	67	ug/kg	137
218-01-9	Chrysene	EPA 8270	ND	33	ug/kg	137
117-81-7	bis(2-Ethylhexyl)phthalate	EPA 8270	ND	167	ug/kg	71400
117-84-0	Di-n-octylphthalate	EPA 8270	ND	33	ug/kg	1600000
205-99-2	Benzo[b]fluoranthene	EPA 8270	ND	33	ug/kg	137
207-08-9	Benzo[k]fluoranthene	EPA 8270	ND	33	ug/kg	137
50-32-8	Benzo[a]pyrene	EPA 8270	ND	33	ug/kg	137
193-39-5	Indeno[1,2,3-cd]pyrene	EPA 8270	ND	33	ug/kg	137
53-70-3	Dibenz[a,h]anthracene	EPA 8270	ND	33	ug/kg	137
191-24-2	Benzo[g,h,i]perylene	EPA 8270	ND	33	ug/kg	z

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

E = The concentration of this analyte exceeds the calibration range of the instrument.

Q = Analyte concentration and/or MDL is greater than the 1996 MTCA B Limits.

z = Analyte not listed in 1996 MTCA Method B.

Data Reviewed by: *[Signature]*

Data Reported by: *[Signature]*



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Analytical Report

Report Date: 11/18/97	Facility: Regulatory Affairs	Project Name: WASHOUGAL
Sample Collected: 09/15/97	Job Number: 97090140	Project No: 16957
Received Date: 09/17/97		

Client ID: IAB05-4

Lab ID: AA27591

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	ND	2	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	2	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	ND	2	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	2	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	2	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	2	ug/kg	24000000
306-83-2	1,1-DichloroTrifluoroethane	EPA 8260	ND	12	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	2	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	12	ug/kg	
67-64-1	Acetone	EPA 8260	35.3	12	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	ND	2	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	ND	12	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	ND	12	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	ND	12	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	12	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	ND	2	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	ND	2	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	2	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	ND	2	ug/kg	z
107-02-8	Acrolin	EPA 8260	ND	49	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	2	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	ND	2	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	ND	12	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	2	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	2	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	ND	2	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	2	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	2	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	2	ug/kg	11000
71-43-2	Benzene	EPA 8260	ND	2	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	ND	5	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	ND	2	ug/kg	14700



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Facility: Regulatory Affairs
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Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB05-4

Lab ID: AA27591

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
74-95-3	Dibromomethane	EPA 8260	ND	2	ug/kg	z
75-27-4	Bromodichloromethane	EPA 8260	ND	2	ug/kg	16100
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	2	ug/kg	z
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	2	ug/kg	z
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	12	ug/kg	64000000
108-88-3	Toluene	EPA 8260	ND	5	ug/kg	16000000
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	2	ug/kg	143
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	2	ug/kg	z
79-00-5	1,1,2-Trichloroethane	EPA 8260	ND	2	ug/kg	17500
142-28-9	1,3-Dichloropropane	EPA 8260	ND	2	ug/kg	z
127-18-4	Tetrachloroethene	EPA 8260	5.06	2	ug/kg	19600
591-78-6	2-Hexanone	EPA 8260	ND	12	ug/kg	z
106-93-4	1,2-Dibromoethane	EPA 8260	ND	2	ug/kg	1.18
124-48-1	Dibromochloromethane	EPA 8260	ND	2	ug/kg	11900
108-90-7	Chlorobenzene	EPA 8260	ND	2	ug/kg	1600000
100-41-4	Ethylbenzene	EPA 8260	ND	2	ug/kg	8000000
106-42-3	m,p-Xylene	EPA 8260	ND	2	ug/kg	z
95-47-6	o-Xylene	EPA 8260	ND	2	ug/kg	16000000
100-42-5	Styrene	EPA 8260	ND	2	ug/kg	33300
75-25-2	Bromoform	EPA 8260	ND	2	ug/kg	127000
98-82-8	Isopropylbenzene	EPA 8260	ND	2	ug/kg	z
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	7	ug/kg	5000
108-86-1	Bromobenzene	EPA 8260	ND	2	ug/kg	z
103-65-1	n-propylbenzene	EPA 8260	ND	2	ug/kg	z
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	ND	2	ug/kg	z
95-49-8	2-Chlorotoluene	EPA 8260	ND	2	ug/kg	1600000
106-43-4	4-Chlorotoluene	EPA 8260	ND	2	ug/kg	z
98-06-6	tert-Butylbenzene	EPA 8260	ND	2	ug/kg	z
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	ND	2	ug/kg	z
135-98-8	sec-Butylbenzene	EPA 8260	ND	2	ug/kg	z
541-73-1	1,3-Dichlorobenzene	EPA 8260	ND	2	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8260	ND	2	ug/kg	41700
104-51-8	n-Butylbenzene	EPA 8260	ND	2	ug/kg	z

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Client ID: IAB05-4

Lab ID: AA27591

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
99-87-6	p-Isopropyltoluene	EPA 8260	ND	2	ug/kg	z
95-50-1	1,2-Dichlorobenzene	EPA 8260	ND	2	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	12	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	ND	2	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	2	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	ND	12	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	ND	2	ug/kg	z
EPA 8270 Solid						
62-53-3	Aniline	EPA 8270	ND	167	ug/kg	175000
111-44-4	bis(2-Chloroethyl)ether	EPA 8270	ND	33	ug/kg	909
108-95-2	Phenol	EPA 8270	ND	33	ug/kg	48000000
95-57-8	2-Chlorophenol	EPA 8270	ND	33	ug/kg	400000
541-73-1	1,3-Dichlorobenzene	EPA 8270	ND	33	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8270	ND	33	ug/kg	41700
95-50-1	1,2-Dichlorobenzene	EPA 8270	ND	33	ug/kg	7200000
100-51-6	Benzyl alcohol	EPA 8270	ND	67	ug/kg	24000000
39638-32-9	bis(2-chloroisopropyl)ether	EPA 8270	ND	33	ug/kg	3200000
95-48-7	2-Methylphenol	EPA 8270	ND	33	ug/kg	4000000
98-86-2	Acetophenone	EPA 8270	ND	167	ug/kg	8000000
67-72-1	Hexachloroethane	EPA 8270	ND	33	ug/kg	71400
621-64-7	N-Nitroso-di-n-propylamine	EPA 8270	ND	33	ug/kg	143
106-44-5	4-Methylphenol	EPA 8270	ND	33	ug/kg	400000
98-95-3	Nitrobenzene	EPA 8270	ND	33	ug/kg	40000
78-59-1	Isophorone	EPA 8270	ND	33	ug/kg	1050000
88-75-5	2-Nitrophenol	EPA 8270	ND	33	ug/kg	z
105-67-9	2,4-Dimethylphenol	EPA 8270	ND	33	ug/kg	1600000
111-91-1	bis(2-Chloroethoxy)methane	EPA 8270	ND	33	ug/kg	z
120-83-2	2,4-Dichlorophenol	EPA 8270	ND	33	ug/kg	240000
120-82-1	1,2,4-Trichlorobenzene	EPA 8270	ND	33	ug/kg	800000
91-20-3	Naphthalene	EPA 8270	ND	33	ug/kg	3200000
106-47-8	4-Chloroaniline	EPA 8270	ND	67	ug/kg	320000
87-68-3	Hexachlorobutadiene	EPA 8270	ND	33	ug/kg	12800
65-85-0	Benzoic Acid	EPA 8270	ND	167	ug/kg	32000000



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Client ID: IAB05-4

Lab ID: AA27591

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
59-50-7	4-Chloro-3-methylphenol	EPA 8270	ND	67	ug/kg	z
91-57-6	2-Methylnaphthalene	EPA 8270	ND	33	ug/kg	z
77-47-4	Hexachlorocyclopentadiene	EPA 8270	ND	33	ug/kg	560000
88-06-2	2,4,6-Trichlorophenol	EPA 8270	ND	33	ug/kg	90900
95-95-4	2,4,5-Trichlorophenol	EPA 8270	ND	33	ug/kg	8000000
91-58-7	2-Chloronaphthalene	EPA 8270	ND	33	ug/kg	6400
88-74-4	2-Nitroaniline	EPA 8270	ND	67	ug/kg	z
208-96-8	Acenaphthylene	EPA 8270	ND	33	ug/kg	z
131-11-3	Dimethylphthalate	EPA 8270	ND	33	ug/kg	80000000
606-20-2	2,6-Dinitrotoluene	EPA 8270	ND	33	ug/kg	80000
83-32-9	Acenaphthene	EPA 8270	ND	33	ug/kg	4800000
99-09-2	3-Nitroaniline	EPA 8270	ND	167	ug/kg	z
51-28-5	2,4-Dinitrophenol	EPA 8270	ND	167	ug/kg	160000
132-64-9	Dibenzofuran	EPA 8270	ND	167	ug/kg	z
121-14-2	2,4-Dinitrotoluene	EPA 8270	ND	33	ug/kg	160000
100-02-7	4-Nitrophenol	EPA 8270	ND	33	ug/kg	z
86-73-7	Fluorene	EPA 8270	ND	33	ug/kg	3200000
7005-72-3	4-Chlorophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
84-66-2	Diethylphthalate	EPA 8270	ND	33	ug/kg	64000000
100-01-6	4-Nitroaniline	EPA 8270	ND	167	ug/kg	z
534-52-1	4,6-Dinitro-2-methylphenol	EPA 8270	ND	167	ug/kg	z
86-30-6	n-Nitrosodiphenylamine	EPA 8270	ND	33	ug/kg	204000
103-33-3	Azobenzene	EPA 8270	ND	33	ug/kg	z
101-55-3	4-Bromophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
118-74-1	Hexachlorobenzene	EPA 8270	ND	33	ug/kg	625
87-86-5	Pentachlorophenol	EPA 8270	ND	167	ug/kg	8330
85-01-8	Phenanthrene	EPA 8270	ND	33	ug/kg	z
120-12-7	Anthracene	EPA 8270	ND	33	ug/kg	24000000
84-74-2	Di-n-butylphthalate	EPA 8270	ND	33	ug/kg	8000000
206-44-0	Fluoranthene	EPA 8270	ND	33	ug/kg	3200000
92-87-5	Benzidine	EPA 8270	ND	33	ug/kg	4.35
129-00-0	Pyrene	EPA 8270	ND	33	ug/kg	2400000
85-68-7	Butylbenzylphthalate	EPA 8270	ND	33	ug/kg	16000000

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Analytical Report

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Received Date: 09/17/97

Facility: Regulatory Affairs
Job Number: 97090140

Project Name: WASHOUGAL
Project No: 16957

Client ID: IAB05-4

Lab ID: AA27591

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
91-94-1	3,3'-Dichlorobenzidine	EPA 8270	ND	33	ug/kg	2220
56-55-3	Benzo[a]anthracene	EPA 8270	ND	67	ug/kg	137
218-01-9	Chrysene	EPA 8270	ND	33	ug/kg	137
117-81-7	bis(2-Ethylhexyl)phthalate	EPA 8270	ND	167	ug/kg	71400
117-84-0	Di-n-octylphthalate	EPA 8270	ND	33	ug/kg	1600000
205-99-2	Benzo[b]fluoranthene	EPA 8270	ND	33	ug/kg	137
207-08-9	Benzo[k]fluoranthene	EPA 8270	ND	33	ug/kg	137
50-32-8	Benzo[a]pyrene	EPA 8270	ND	33	ug/kg	137
193-39-5	Indeno[1,2,3-cd]pyrene	EPA 8270	ND	33	ug/kg	137
53-70-3	Dibenz[a,h]anthracene	EPA 8270	ND	33	ug/kg	137
191-24-2	Benzo[g,h,i]perylene	EPA 8270	ND	33	ug/kg	z

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

E = The concentration of this analyte exceeds the calibration range of the instrument.

Q = Analyte concentration and/or MDL is greater than the 1996 MTCA B Limits.

z = Analyte not listed in 1996 MTCA Method B.



Phillip Environmental Laboratory
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TEL 206.227.6110
FAX 206.227.6196

To: John Stiller
955 Powell Avenue Southwest
Renton, WA 98055

Analytical Report

Report Date: 11/18/97
Sample Collected: 09/15/97
Received Date: 09/17/97

Facility: Regulatory Affairs
Job Number: 97090140

Project Name: WASHOUGAL
Project No: 16957

Client ID: IAB05-6

Lab ID: AA27592

<u>CAS</u>	<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>MDL</u>	<u>Units</u>	<u>MTCA B Limits</u>
EPA 8260 Volatiles						
75-71-8	Dichlorodifluoromethane	EPA 8260	ND	2	ug/kg	16000000
74-87-3	Chloromethane	EPA 8260	ND	2	ug/kg	76900
75-01-4	Vinyl chloride	EPA 8260	ND	2	ug/kg	526
74-83-9	Bromomethane	EPA 8260	ND	2	ug/kg	112000
75-00-3	Chloroethane	EPA 8260	ND	2	ug/kg	z
75-69-4	Trichlorofluoromethane	EPA 8260	ND	2	ug/kg	24000000
306-83-2	1,1-DichloroTrifluoroethane	EPA 8260	ND	9	ug/kg	z
75-35-4	1,1-Dichloroethene	EPA 8260	ND	2	ug/kg	1670
	Ethyl Ether	EPA 8260	ND	9	ug/kg	
67-64-1	Acetone	EPA 8260	21.8	9	ug/kg	8000000
75-15-0	Carbon Disulfide	EPA 8260	ND	2	ug/kg	8000000
107-83-5	2-Methylpentane	EPA 8260	ND	9	ug/kg	z
75-09-2	Methylene Chloride	EPA 8260	17.5	9	ug/kg	133000
96-14-0	3-Methylpentane	EPA 8260	ND	9	ug/kg	z
107-13-1	Acrylonitrile	EPA 8260	ND	9	ug/kg	80000
156-60-5	trans-1,2-Dichloroethene	EPA 8260	ND	2	ug/kg	1600000
75-34-3	1,1-Dichloroethane	EPA 8260	ND	2	ug/kg	8000000
108-05-4	Vinyl Acetate	EPA 8260	ND	2	ug/kg	8000000
96-37-7	Methylcyclopentane	EPA 8260	ND	2	ug/kg	z
107-02-8	Acrolin	EPA 8260	ND	35	ug/kg	1600000
594-20-7	2,2-Dichloropropane	EPA 8260	ND	2	ug/kg	z
156-59-2	cis-1,2-Dichloroethene	EPA 8260	ND	2	ug/kg	800000
78-93-3	2-Butanone (MEK)	EPA 8260	ND	9	ug/kg	48000000
74-97-5	Bromochloromethane	EPA 8260	ND	2	ug/kg	z
67-66-3	Chloroform	EPA 8260	ND	2	ug/kg	164000
71-55-6	1,1,1-Trichloroethane	EPA 8260	ND	2	ug/kg	72000000
563-58-6	1,1-Dichloropropene	EPA 8260	ND	2	ug/kg	z
56-23-5	Carbon Tetrachloride	EPA 8260	ND	2	ug/kg	7690
107-06-2	1,2-Dichloroethane	EPA 8260	ND	2	ug/kg	11000
71-43-2	Benzene	EPA 8260	ND	2	ug/kg	34500
79-01-6	Trichloroethene	EPA 8260	ND	4	ug/kg	90900
78-87-5	1,2-Dichloropropane	EPA 8260	ND	2	ug/kg	14700



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CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
74-95-3	Dibromomethane	EPA 8260	ND	2	ug/kg	z
75-27-4	Bromodichloromethane	EPA 8260	ND	2	ug/kg	16100
110-75-8	2-Chlorethyl vinyl ether	EPA 8260	ND	2	ug/kg	z
10061-01-5	cis-1,3-Dichloropropene	EPA 8260	ND	2	ug/kg	z
108-10-1	4-Methyl-2-Pentanone (MIBK)	EPA 8260	ND	9	ug/kg	64000000
108-88-3	Toluene	EPA 8260	8.22	4	ug/kg	16000000
96-18-4	1,2,3-Trichloropropane	EPA 8260	ND	2	ug/kg	143
10061-02-6	Trans-1,3-Dichloropropene	EPA 8260	ND	2	ug/kg	z
79-00-5	1,1,2-Trichloroethane	EPA 8260	ND	2	ug/kg	17500
142-28-9	1,3-Dichloropropane	EPA 8260	ND	2	ug/kg	z
127-18-4	Tetrachloroethene	EPA 8260	ND	2	ug/kg	19600
591-78-6	2-Hexanone	EPA 8260	ND	9	ug/kg	z
106-93-4	1,2-Dibromoethane	EPA 8260	ND	2	ug/kg	1.18
124-48-1	Dibromochloromethane	EPA 8260	ND	2	ug/kg	11900
108-90-7	Chlorobenzene	EPA 8260	ND	2	ug/kg	1600000
100-41-4	Ethylbenzene	EPA 8260	ND	2	ug/kg	8000000
106-42-3	m,p-Xylene	EPA 8260	2.37	2	ug/kg	z
95-47-6	o-Xylene	EPA 8260	ND	2	ug/kg	16000000
100-42-5	Styrene	EPA 8260	ND	2	ug/kg	33300
75-25-2	Bromoform	EPA 8260	ND	2	ug/kg	127000
98-82-8	Isopropylbenzene	EPA 8260	ND	2	ug/kg	z
79-34-5	1,1,2,2-Tetrachloroethane	EPA 8260	ND	5	ug/kg	5000
108-86-1	Bromobenzene	EPA 8260	ND	2	ug/kg	z
103-65-1	n-propylbenzene	EPA 8260	ND	2	ug/kg	z
108-67-8	1,3,5-Trimethylbenzene	EPA 8260	ND	2	ug/kg	z
95-49-8	2-Chlorotoluene	EPA 8260	ND	2	ug/kg	1600000
106-43-4	4-Chlorotoluene	EPA 8260	ND	2	ug/kg	z
98-06-6	tert-Butylbenzene	EPA 8260	ND	2	ug/kg	z
95-63-6	1,2,4-Trimethylbenzene	EPA 8260	ND	2	ug/kg	z
135-98-8	sec-Butylbenzene	EPA 8260	ND	2	ug/kg	z
541-73-1	1,3-Dichlorobenzene	EPA 8260	ND	2	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8260	ND	2	ug/kg	41700
104-51-8	n-Butylbenzene	EPA 8260	ND	2	ug/kg	z

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 Job Number: 97090140

Project Name: WASHOUGAL
 Project No: 16957

Client ID: IAB05-6

Lab ID: AA27592

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
99-87-6	p-Isopropyltoluene	EPA 8260	ND	2	ug/kg	z
95-50-1	1,2-Dichlorobenzene	EPA 8260	ND	2	ug/kg	7200000
96-12-8	1,2-Dibromo-3-chloropropane	EPA 8260	ND	9	ug/kg	714
120-82-1	1,2,4-Trichlorobenzene	EPA 8260	ND	2	ug/kg	800000
87-68-3	Hexachlorobutadiene	EPA 8260	ND	2	ug/kg	12800
91-20-3	Naphthalene	EPA 8260	ND	9	ug/kg	3200000
87-61-6	1,2,3-Trichlorobenzene	EPA 8260	ND	2	ug/kg	z
EPA 8270 Solid						
62-53-3	Analine	EPA 8270	ND	167	ug/kg	175000
111-44-4	bis(2-Chloroethyl)ether	EPA 8270	ND	33	ug/kg	909
108-95-2	Phenol	EPA 8270	ND	33	ug/kg	48000000
95-57-8	2-Chlorophenol	EPA 8270	ND	33	ug/kg	400000
541-73-1	1,3-Dichlorobenzene	EPA 8270	ND	33	ug/kg	z
106-46-7	1,4-Dichlorobenzene	EPA 8270	ND	33	ug/kg	41700
95-50-1	1,2-Dichlorobenzene	EPA 8270	ND	33	ug/kg	7200000
100-51-6	Benzyl alcohol	EPA 8270	ND	67	ug/kg	24000000
39638-32-9	bis(2-chloroisopropyl)ether	EPA 8270	ND	33	ug/kg	3200000
95-48-7	2-Methylphenol	EPA 8270	ND	33	ug/kg	4000000
98-86-2	Acetophenone	EPA 8270	ND	167	ug/kg	8000000
67-72-1	Hexachloroethane	EPA 8270	ND	33	ug/kg	71400
621-64-7	N-Nitroso-di-n-propylamine	EPA 8270	ND	33	ug/kg	143
106-44-5	4-Methylphenol	EPA 8270	ND	33	ug/kg	400000
98-95-3	Nitrobenzene	EPA 8270	ND	33	ug/kg	40000
78-59-1	Isophorone	EPA 8270	ND	33	ug/kg	1050000
88-75-5	2-Nitrophenol	EPA 8270	ND	33	ug/kg	z
105-67-9	2,4-Dimethylphenol	EPA 8270	ND	33	ug/kg	1600000
111-91-1	bis(2-Chloroethoxy)methane	EPA 8270	ND	33	ug/kg	z
120-83-2	2,4-Dichlorophenol	EPA 8270	ND	33	ug/kg	240000
120-82-1	1,2,4-Trichlorobenzene	EPA 8270	ND	33	ug/kg	800000
91-20-3	Naphthalene	EPA 8270	ND	33	ug/kg	3200000
106-47-8	4-Chloroaniline	EPA 8270	ND	67	ug/kg	320000
87-68-3	Hexachlorobutadiene	EPA 8270	ND	33	ug/kg	12800
65-85-0	Benzoic Acid	EPA 8270	ND	167	ug/kg	32000000



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CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
59-50-7	4-Chloro-3-methylphenol	EPA 8270	ND	67	ug/kg	z
91-57-6	2-Methylnaphthalene	EPA 8270	ND	33	ug/kg	z
77-47-4	Hexachlorocyclopentadiene	EPA 8270	ND	33	ug/kg	560000
88-06-2	2,4,6-Trichlorophenol	EPA 8270	ND	33	ug/kg	90900
95-95-4	2,4,5-Trichlorophenol	EPA 8270	ND	33	ug/kg	8000000
91-58-7	2-Chloronaphthalene	EPA 8270	ND	33	ug/kg	6400
88-74-4	2-Nitroaniline	EPA 8270	ND	67	ug/kg	z
208-96-8	Acenaphthylene	EPA 8270	ND	33	ug/kg	z
131-11-3	Dimethylphthalate	EPA 8270	ND	33	ug/kg	80000000
606-20-2	2,6-Dinitrotoluene	EPA 8270	ND	33	ug/kg	80000
83-32-9	Acenaphthene	EPA 8270	ND	33	ug/kg	4800000
99-09-2	3-Nitroaniline	EPA 8270	ND	167	ug/kg	z
51-28-5	2,4-Dinitrophenol	EPA 8270	ND	167	ug/kg	160000
132-64-9	Dibenzofuran	EPA 8270	ND	167	ug/kg	z
121-14-2	2,4-Dinitrotoluene	EPA 8270	ND	33	ug/kg	160000
100-02-7	4-Nitrophenol	EPA 8270	ND	33	ug/kg	z
86-73-7	Fluorene	EPA 8270	ND	33	ug/kg	3200000
7005-72-3	4-Chlorophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
84-66-2	Diethylphthalate	EPA 8270	ND	33	ug/kg	64000000
100-01-6	4-Nitroaniline	EPA 8270	ND	167	ug/kg	z
534-52-1	4,6-Dinitro-2-methylphenol	EPA 8270	ND	167	ug/kg	z
86-30-6	n-Nitrosodiphenylamine	EPA 8270	ND	33	ug/kg	204000
103-33-3	Azobenzene	EPA 8270	ND	33	ug/kg	z
101-55-3	4-Bromophenyl-phenylether	EPA 8270	ND	33	ug/kg	z
118-74-1	Hexachlorobenzene	EPA 8270	ND	33	ug/kg	625
87-86-5	Pentachlorophenol	EPA 8270	ND	167	ug/kg	8330
85-01-8	Phenanthrene	EPA 8270	ND	33	ug/kg	z
120-12-7	Anthracene	EPA 8270	ND	33	ug/kg	24000000
84-74-2	Di-n-butylphthalate	EPA 8270	ND	33	ug/kg	8000000
206-44-0	Fluoranthene	EPA 8270	ND	33	ug/kg	3200000
92-87-5	Benzidine	EPA 8270	ND	33	ug/kg	4.35
129-00-0	Pyrene	EPA 8270	ND	33	ug/kg	2400000
85-68-7	Butylbenzylphthalate	EPA 8270	ND	33	ug/kg	16000000

Q



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Report Date: 11/18/97
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Received Date: 09/17/97

Facility: Regulatory Affairs
Job Number: 97090140

Project Name: WASHOUGAL
Project No: 16957

Client ID: IAB05-6

Lab ID: AA27592

CAS	Analyte	Method	Result	MDL	Units	MTCA B Limits
91-94-1	3,3'-Dichlorobenzidine	EPA 8270	ND	33	ug/kg	2220
56-55-3	Benzo[a]anthracene	EPA 8270	ND	67	ug/kg	137
218-01-9	Chrysene	EPA 8270	ND	33	ug/kg	137
117-81-7	bis(2-Ethylhexyl)phthalate	EPA 8270	ND	167	ug/kg	71400
117-84-0	Di-n-octylphthalate	EPA 8270	ND	33	ug/kg	1600000
205-99-2	Benzo[b]fluoranthene	EPA 8270	ND	33	ug/kg	137
207-08-9	Benzo[k]fluoranthene	EPA 8270	ND	33	ug/kg	137
50-32-8	Benzo[a]pyrene	EPA 8270	ND	33	ug/kg	137
193-39-5	Indeno[1,2,3-cd]pyrene	EPA 8270	ND	33	ug/kg	137
53-70-3	Dibenz[a,h]anthracene	EPA 8270	ND	33	ug/kg	137
191-24-2	Benzo[g,h,i]perylene	EPA 8270	ND	33	ug/kg	z

ND = Not Detected at Detection Limit. B = Analyte Found in Method Blank.

E = The concentration of this analyte exceeds the calibration range of the instrument.

Q = Analyte concentration and/or MDL is greater than the 1996 MTCA B Limits.

z = Analyte not listed in 1996 MTCA Method B.

PHILIP'S FREON 113 SOIL DATA

MANCHESTER ENVIRONMENTAL LABORATORY

7411 Beach Drive E , Port Orchard Washington 98366

CASE NARRATIVE

September 23, 1997

Subject: **BEI Washougal**
Samples: 9738000, 97398001
Project ID: 156097
Project Officer: Chris Neumiller
By: Karin Feddersen *KF*

SEMIVOLATILE ORGANICS

ANALYTICAL METHODS:

The samples were extracted following the EPA CLP and SW 846 8270 procedure. The sediment extracts were cleaned up with Gel Permeation Chromatography (GPC) followed by silica gel chromatography. Analysis was by capillary GC/MS. Normal QA/QC procedures were performed with the analyses.

HOLDING TIMES:

The samples were stored at 4 degrees C until extraction. They were extracted and were analyzed within the recommended holding times.

BLANKS:

Low levels of some analytes and TICs were detected in the laboratory blanks. Analytes that are detected in the sample and in the blank are considered native to the sample if the levels in the sample are greater than or equal to ten times the amount of analytes in the associated method blanks.

SURROGATES:

The standard Manchester Laboratory surrogates were added to the sample prior to extraction. All surrogate recoveries were within acceptable limits.

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE:

No matrix spikes were performed on these samples.

ANALYTICAL COMMENTS:

The data is acceptable for use as reported.

DATA QUALIFIER CODES:

- U - The analyte was not detected at or above the reported value.
- J - The analyte was positively identified. The associated numerical value is an estimate.
- UJ - The analyte was not detected at or above the reported estimated result.
- REJ - The data are unusable for all purposes.
- NAF - Not analyzed for.
- N - For organic analytes there is evidence the analyte is present in this sample.
- NJ - There is evidence that the analyte is present. The associated numerical result is an estimate.
- E - This qualifier is used when the concentration of the associated value exceeds the known calibration range.
- bold** - The analyte was present in the sample. (Visual Aid to locate detected compound on report sheet.)

Manchester Environmental Laboratory

Department of Ecology

Analysis Report for

Base/Neutral/Acids

79.190 solids

Project Name: BEI Washougal

LIMS Project ID: 1560-97

Sample: 97398000

Date Received: 09/25/97

Method: SW8270

Field ID: C1A-8-6

Date Prepared: 09/30/97

Matrix: Sediment/Soil

Project Officer: Chris Neumiller

Date Analyzed: 10/02/97

Units: ug/Kg Dry Wt.

Analyte	Result	Qualifier	Analyte	Result	Qualifier
N-Nitrosodimethylamine	16	U	Acenaphthene	16	U
Pyridine	32	U	2,4-Dinitrophenol	316	U
Aniline	16	U	4-Nitrophenol	32	U
Phenol	16	U	Dibenzofuran	1.8	J
Bis(2-Chloroethyl)Ether	16	U	2,4-Dinitrotoluene	79	U
2-Chlorophenol	16	U	Diethylphthalate	16	U
1,3-Dichlorobenzene	16	U	Fluorene	2.7	J
1,4-Dichlorobenzene	16	U	4-Chlorophenyl-Phenylether	16	U
1,2-Dichlorobenzene	3.4	J	4-Nitroaniline	32	U
Benzyl Alcohol	16	U	4,6-Dinitro-2-Methylphenol	158	U
2-Methylphenol	16	U	N-Nitrosodiphenylamine	16	U
2,2'-Oxybis[1-chloropropane]	16	U	1,2-Diphenylhydrazine	16	U
N-Nitroso-Di-N-Propylamine	16	U	4-Bromophenyl-Phenylether	16	U
4-Methylphenol	4.6	J	Hexachlorobenzene	16	U
Hexachloroethane	16	U	Pentachlorophenol	32	U
Nitrobenzene	16	U	Phenanthrene	4.1	J
Isophorone	16	U	Anthracene	16	U
2-Nitrophenol	16	U	Caffeine	16	U
2,4-Dimethylphenol	16	U	Carbazole	16	U
Bis(2-Chloroethoxy)Methane	16	U	Di-N-Butylphthalate	49	U
Benzoic Acid	255	U	Fluoranthene	16	U
2,4-Dichlorophenol	16	U	Benzidine	63	U
1,2,4-Trichlorobenzene	16	U	Pyrene	16	U
Naphthalene	16	U	Retene	16	U
4-Chloroaniline	16	U	Butylbenzylphthalate	5.4	J
Hexachlorobutadiene	16	U	Benzo(a)anthracene	16	U
4-Chloro-3-Methylphenol	16	U	3,3'-Dichlorobenzidine	32	U
2-Methylnaphthalene	32	U	Chrysene	16	U
1-Methylnaphthalene	18	U	Bis(2-Ethylhexyl) Phthalate	52	U
Hexachlorocyclopentadiene	16	U	Di-N-Octyl Phthalate	16	U
2,4,6-Trichlorophenol	32	U	Benzo(b)fluoranthene	16	U
2,4,5-Trichlorophenol	32	U	Benzo(k)fluoranthene	16	U
2-Chloronaphthalene	16	U	Benzo(a)pyrene	16	U
2-Nitroaniline	32	U	3B-Coprostanol	50	J
Dimethylphthalate	16	U	Indeno(1,2,3-cd)pyrene	16	U
2,6-Dinitrotoluene	32	U	Dibenzo(a,h)anthracene	16	U
Acenaphthylene	16	U	Benzo(ghi)perylene	16	U
3-Nitroaniline	32	U			

Authorized By: *Chris Neumiller*

Release Date: 10/23/97

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Manchester Environmental Laboratory

Department of Ecology

Analysis Report for

Base/Neutral/Acids

Project Name: BEI Washougal

LIMS Project ID: 1560-97

Sample: 97398000

Date Received: 09/25/97

Method: SW8270

Field ID: C1A-8-6

Date Prepared: 09/30/97

Matrix: Sediment/Soil

Project Officer: Chris Neumiller

Date Analyzed: 10/02/97

Units: ug/Kg Dry Wt.

Surrogate Recoveries

2-Fluorophenol	127	%
D5-Phenol	134	%
D4-2-Chlorophenol	130	%
1,2-Dichlorobenzene-D4	89	%
D5-Nitrobenzene	127	%
2-Fluorobiphenyl	121	%
D10-Pyrene	144	%
D14-Terphenyl	143	%

Authorized By: *Chris Neumiller*

Release Date: 10/23/97

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Manchester Environmental Laboratory

Department of Ecology

Analysis Report for

Base/Neutral/Acids

Project Name: BEI Washougal

LIMS Project ID: 1560-97

Sample: 97398000

Date Received: 09/25/97

Method: SW8270

Field ID: C1A-8-6

Date Prepared: 09/30/97

Matrix: Sediment/Soil

Project Officer: Chris Neumiller

Date Analyzed: 10/02/97

Units: ug/Kg Dry Wt.

Tentatively Identified Compounds

CAS Number	Analyte Description	Result	Qualifier
*3008001	Unknown 01	137	J
*3008002	Unknown 02	245	J
*3008003	Unknown 03	92	J
*3008004	Unknown 04	215	J
295170	Cyclotetradecane	142	NJ
57103	Hexadecanoic Acid	140	NJ
10544500	Sulfur, Mol. (S8)	662	NJ
2136701	Ethanol, 2-(Tetradecyloxy)-	87	NJ
638368	Phytane	98	NJ
*3008006	Unknown 06	113	NJ
7225641	Heptadecane, 9-octyl	114	NJ

Authorized By: 

Release Date: 10/23/97

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Manchester Environmental Laboratory

Department of Ecology

Analysis Report for

Base/Neutral/Acids

75.8% solids

Project Name: BEI Washougal

LIMS Project ID: 1560-97

Sample: 97398001

Date Received: 09/25/97

Method: SW8270

Field ID: C1A-1-6

Date Prepared: 09/30/97

Matrix: Sediment/Soil

Project Officer: Chris Neumiller

Date Analyzed: 10/02/97

Units: ug/Kg Dry Wt.

Analyte	Result	Qualifier	Analyte	Result	Qualifier
N-Nitrosodimethylamine	16	U	Acenaphthene	16	U
Pyridine	32	U	2,4-Dinitrophenol	323	U
Aniline	16	U	4-Nitrophenol	32	U
Phenol	16	U	Dibenzofuran	16	U
Bis(2-Chloroethyl)Ether	16	U	2,4-Dinitrotoluene	81	U
2-Chlorophenol	16	U	Diethylphthalate	16	U
1,3-Dichlorobenzene	16	U	Fluorene	.52	J
1,4-Dichlorobenzene	16	U	4-Chlorophenyl-Phenylether	16	U
1,2-Dichlorobenzene	16	U	4-Nitroaniline	32	U
Benzyl Alcohol	16	U	4,6-Dinitro-2-Methylphenol	161	U
2-Methylphenol	16	U	N-Nitrosodiphenylamine	16	U
2,2'-Oxybis[1-chloropropane]	16	U	1,2-Diphenylhydrazine	16	U
N-Nitroso-Di-N-Propylamine	16	U	4-Bromophenyl-Phenylether	16	U
4-Methylphenol	2.2	J	Hexachlorobenzene	16	U
Hexachloroethane	16	U	Pentachlorophenol	32	U
Nitrobenzene	16	U	Phenanthrene	1.3	J
Isophorone	16	U	Anthracene	16	U
2-Nitrophenol	16	U	Caffeine	16	U
2,4-Dimethylphenol	16	U	Carbazole	16	U
Bis(2-Chloroethoxy)Methane	16	U	Di-N-Butylphthalate	16	U
Benzoic Acid	161	U	Fluoranthene	16	U
2,4-Dichlorophenol	16	U	Benzidine	65	UJ
1,2,4-Trichlorobenzene	16	U	Pyrene	16	U
Naphthalene	2.9	J	Retene	16	U
4-Chloroaniline	16	U	Butylbenzylphthalate	16	U
Hexachlorobutadiene	16	U	Benzo(a)anthracene	16	U
4-Chloro-3-Methylphenol	16	U	3,3'-Dichlorobenzidine	32	U
2-Methylnaphthalene	5.9	J	Chrysene	16	U
1-Methylnaphthalene	2.6	J	Bis(2-Ethylhexyl) Phthalate	16	U
Hexachlorocyclopentadiene	16	U	Di-N-Octyl Phthalate	16	U
2,4,6-Trichlorophenol	32	U	Benzo(b)fluoranthene	16	U
2,4,5-Trichlorophenol	32	U	Benzo(k)fluoranthene	16	U
2-Chloronaphthalene	16	U	Benzo(a)pyrene	16	U
2-Nitroaniline	32	U	3B-Coprostanol	32	U
Dimethylphthalate	16	U	Indeno(1,2,3-cd)pyrene	16	U
2,6-Dinitrotoluene	32	U	Dibenzo(a,h)anthracene	16	U
Acenaphthylene	16	U	Benzo(ghi)perylene	16	U
3-Nitroaniline	32	U			

Authorized By: *[Signature]*

Release Date: 10/23/97

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**DEPARTMENT OF ECOLOGY SPLIT SAMPLE RESULTS FOR
TANK FARM SOIL CONFIRMATION SAMPLE DATA**

Lab Sample ID	Regs ID	Freon 113 (ppb)	Flags
aa27797	TIA-2-3	1200	
aa27798	CIA-1-4	5500	*
aa27799	CIA-2-4	9000	*
aa27800	CIA-3-4	15000	*
aa27801	CIA-4-4	11300	*
aa27802	CIA-5-6	ND	
aa27803	CIA-6-4	7100	*
aa27804	CIA-7-4	3400	*
aa27805	CIA-8-4	12500	*
aa27806	CIA-9-4	ND	
aa27807	CIA-10-6	ND	
aa28194	CIA-1-6	30	
aa28195	CIA-3-6	44	
aa28196	CIA-6-6	26	
aa28197	CIA-8-6	210	
aa28198	CIA-11-6	100	
aa28199	CIA-13-6	1300	
aa28200	CIA-15-6	230	
AA28497	CIA-20-6	1400	
AA28498	CIA-25-6	ND	
AA28499	CIA-23-6	ND	
AA28500	CIA-16-6	ND	
AA28501	CIA-18-6	ND	
AA27580	IABO4-2	160	
AA27581	IABO4-4	ND	
AA27582	IABO4-6	ND	
AA27583	IABO2-2	ND	
AA27584	IABO2-4	ND	
AA27585	IABO2-6	ND	
AA27586	IABO2-8	23	
AA27587	IABO1-2	ND	
AA27588	IABO1-4	96	
AA27589	IABO1-6	ND	
AA27590	IABO5-2	ND	
AA27591	IABO5-4	ND	
AA27592	IABO5-6	ND	
AA27593	IABO7-2	ND	
AA27594	IABO7-4	ND	
AA27595	IABO7-6	ND	
AA27596	IABO8-2	ND	
AA27597	IABO8-4	ND	
AA27598	IABO8-6	350	
AA27599	IABO6-2	ND	
AA27600	IABO6-4	110	
AA27601	IABO6-6	ND	
AA27602	IABO3-2	ND	
AA27603	IABO3-4	ND	
AA27604	IABO3-6	ND	

Note: Freon 113 was not on the original list of analytes.

Due to the fact Freon 113 was not on the list of analytes, dilutions were not performed to ascertain the true values for each sample.

* Any value over 2000 ppb should be considered an estimate, as it is outside the working calibration range of the instrument.

The detection limit for Freon 113 was 15 ppb, except for flagged samples which had a detection limit of 50 ppb.

Manchester Environmental Laboratory

Department of Ecology

Analysis Report for

Base/Neutral/Acids

Project Name: BEI Washougal

LIMS Project ID: 1560-97

Sample: 97398001

Date Received: 09/25/97

Method: SW8270

Field ID: C1A-1-6

Date Prepared: 09/30/97

Matrix: Sediment/Soil

Project Officer: Chris Neumiller

Date Analyzed: 10/02/97

Units: ug/Kg Dry Wt.

Surrogate Recoveries

2-Fluorophenol	77	%
D5-Phenol	81	%
D4-2-Chlorophenol	77	%
1,2-Dichlorobenzene-D4	54	%
D5-Nitrobenzene	78	%
2-Fluorobiphenyl	72	%
D10-Pyrene	82	%
D14-Terphenyl	79	%

Authorized By: 

Release Date: 10/23/97

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Manchester Environmental Laboratory

Department of Ecology

Analysis Report for

Base/Neutral/Acids

Project Name: BEI Washougal

LIMS Project ID: 1560-97

Sample: 97398001

Date Received: 09/25/97

Method: SW8270

Field ID: C1A-1-6

Date Prepared: 09/30/97

Matrix: Sediment/Soil

Project Officer: Chris Neumiller

Date Analyzed: 10/02/97

Units: ug/Kg Dry Wt.

Tentatively Identified Compounds

CAS Number	Analyte Description	Result	Qualifier
3102338	3-Penten-2-One, (E)-	74	NJ
97789	Glycine, N-Methyl-N-(1-Oxododecyl)-	50	NJ
110270	Tetradecanoic acid, 1-methylethyl ester	116	NJ
295658	Cyclohexadecane	586	NJ
57103	Hexadecanoic Acid	319	NJ
*3008004	Unknown 04	270	NJ
*3005001	Unknown Hydrocarbon 01	83	NJ
6006015	3,7,11-Tridecatrienitrile, 4,8,12-Trimethyl-	49	NJ
630079	Pentatriacontane	105	NJ

Authorized By: 

Release Date: 10/23/97

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Manchester Environmental Laboratory

Department of Ecology

Analysis Report for

Base/Neutral/Acids

Project Name: BEI Washougal

LIMS Project ID: 1560-97

Sample: BLN72824

Method: SW8270

Blank ID: OBS7273A1

Date Prepared: 09/30/97

Matrix: Sediment/Soil

Project Officer: Chris Neumiller

Date Analyzed: 10/02/97

Units: ug/Kg Dry Wt.

Analyte	Result	Qualifier	Analyte	Result	Qualifier
N-Nitrosodimethylamine	16	U	Acenaphthene	16	U
Pyridine	32	U	2,4-Dinitrophenol	319	U
Aniline	16	U	4-Nitrophenol	32	U
Phenol	15	J	Dibenzofuran	16	U
Bis(2-Chloroethyl)Ether	16	U	2,4-Dinitrotoluene	80	U
2-Chlorophenol	16	U	Diethylphthalate	8.4	J
1,3-Dichlorobenzene	16	U	Fluorene	16	U
1,4-Dichlorobenzene	16	U	4-Chlorophenyl-Phenylether	16	U
1,2-Dichlorobenzene	16	U	4-Nitroaniline	32	U
Benzyl Alcohol	16	U	4,6-Dinitro-2-Methylphenol	160	U
2-Methylphenol	16	U	N-Nitrosodiphenylamine	16	U
2,2'-Oxybis[1-chloropropane]	16	U	1,2-Diphenylhydrazine	16	U
N-Nitroso-Di-N-Propylamine	16	U	4-Bromophenyl-Phenylether	16	U
4-Methylphenol	16	U	Hexachlorobenzene	16	U
Hexachloroethane	16	U	Pentachlorophenol	32	U
Nitrobenzene	16	U	Phenanthrene	16	U
Isophorone	16	U	Anthracene	16	U
2-Nitrophenol	16	U	Caffeine	16	U
2,4-Dimethylphenol	16	U	Carbazole	16	U
Bis(2-Chloroethoxy)Methane	16	U	Di-N-Butylphthalate	48	
Benzoic Acid	166	J	Fluoranthene	16	U
2,4-Dichlorophenol	16	U	Benzidine	64	UJ
1,2,4-Trichlorobenzene	16	U	Pyrene	16	U
Naphthalene	16	U	Retene	16	U
4-Chloroaniline	16	U	Butylbenzylphthalate	16	U
Hexachlorobutadiene	16	U	Benzo(a)anthracene	16	U
4-Chloro-3-Methylphenol	16	U	3,3'-Dichlorobenzidine	32	U
2-Methylnaphthalene	16	U	Chrysene	16	U
1-Methylnaphthalene	16	U	Bis(2-Ethylhexyl) Phthalate	19	J
Hexachlorocyclopentadiene	16	U	Di-N-Octyl Phthalate	16	U
2,4,6-Trichlorophenol	32	U	Benzo(b)fluoranthene	16	U
2,4,5-Trichlorophenol	32	U	Benzo(k)fluoranthene	16	U
2-Chloronaphthalene	16	U	Benzo(a)pyrene	16	U
2-Nitroaniline	32	U	3B-Coprostanol	40	
Dimethylphthalate	16	U	Indeno(1,2,3-cd)pyrene	16	U
2,6-Dinitrotoluene	32	U	Dibenzo(a,h)anthracene	16	U
Acenaphthylene	16	U	Benzo(ghi)perylene	16	U
3-Nitroaniline	32	U			

Authorized By: 

Release Date: 10/23/97

Manchester Environmental Laboratory

Department of Ecology

Analysis Report for

Base/Neutral/Acids

Project Name: BEI Washougal

LIMS Project ID: 1560-97

Sample: BEN72824

Method: SW8270

Blank ID: OBS7273A1

Date Prepared: 09/30/97

Matrix: Sediment/Soil

Project Officer: Chris Neumiller

Date Analyzed: 10/02/97

Units: ug/Kg Dry Wt.

Surrogate Recoveries

2-Fluorophenol	77	%
D5-Phenol	76	%
D4-2-Chlorophenol	74	%
1,2-Dichlorobenzene-D4	63	%
D5-Nitrobenzene	70	%
2-Fluorobiphenyl	72	%
D10-Pyrene	80	%
D14-Terphenyl	82	%

Authorized By: 

Release Date: 10/23/97

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Manchester Environmental Laboratory

Department of Ecology

Analysis Report for

Base/Neutral/Acids

Project Name: BEI Washougal

LIMS Project ID: 1560-97

Sample: ~~BLN72824~~

Method: SW8270

Blank ID: OBS7273A1

Date Prepared: 09/30/97

Matrix: Sediment/Soil

Project Officer: Chris Neumiller

Date Analyzed: 10/02/97

Units: ug/Kg Dry Wt.

Tentatively Identified Compounds

CAS Number	Analyte Description	Result	Qualifier
3008003	Unknown Compound 3	36	J
3008004	Unknown Compound 4	15	J
3008006	Unknown Compound 6	22	J
3008007	Unknown Compound 7	28	J
3008005	Unknown Compound 5	13	J
3008008	Unknown Compound 8	137	J
3008002	Unknown Compound 2	59	J
3008001	Unknown Compound 1	77	J
4914925	2-Pentene, 3,4-dimethyl-, (104	NJ
108214	Acetic Acid, 1-Methylethyl Ester	140	NJ
123422	4-Hydroxy-4-Methylpentan-2-one	7150	NJ
619998	Hexane, 3-Ethyl-	43	NJ
2216333	Octane, 3-Methyl-	73	NJ
624419	1-Butanol, 2-methyl-, acetate	35	NI
110134	2,5-Hexanedione	530	NJ
23293507	3-Hexyn-2-ol, 5-methyl-	87	NJ
541026	Cyclopentasiloxane, Decamethyl-	38	NJ
29354981	Hexadecanol (Van8ci9ci)	32	NJ
544638	Decanoic Acid, Tetra-	45	NJ
6624799	1-Dotriacontanol	224	NJ

Authorized By: 

Release Date: 10/23/97

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State of Washington Department of Ecology
Manchester Environmental Laboratory
7411 Beach Dr. East Port Orchard WA. 98366

VOA Data Review
November 18, 1997

Project: **BEI Washugal**
Samples: 97398000, 973398001
By: Stuart Magoon *SM*

**Case Summary for Volatile Organic Compounds
(VOC)**

Data from these analyses were reviewed for qualitative and quantitative accuracy, validity, and usefulness. These samples were prepared and analyzed according to EPA method SW-846 8260.

The results are reported (ug/Kg; parts per billion).

Holding times:

Sample no.	Collect date	Analysis date	#days from collection to Analysis
97398000	09/24/97	10/07/97	13
97398001	09/24/97	10/07/97	13

Both samples were analyzed within the recommended holding time of fourteen (14) days from collection.

Method Blank:

Low levels of some target analytes were detected in the method blanks. Both Acetone and methylene chloride were detected in several samples at concentrations near that of the corresponding method blank. It is most likely that the detection of these analytes was due

to laboratory contamination and not native to the samples. Since the detection of these analytes was below the quantitation limit and most likely due to contamination sample results for these two analytes have been reported as not detected at the corresponding quantitation limit.

None of the other analytes detected in the method blank are of concern since they were either not detected in the samples or the concentrations detected in the samples were well above the concentrations of these analytes in the method blank, and possible contribution from contamination is considered insignificant.

Calibration:

All of the analytes met the criteria for sensitivity and linearity with a few exceptions. Dichlorodifluoromethane, Vinyl Chloride, Bromomethane, Acetone, and Acrylonitrile calibration curves did not meet linearity requirements. Since neither Dichlorodifluoromethane, Bromomethane, nor Acrylonitrile were detected in these samples, and the low calibration standard demonstrated acceptable sensitivity no data qualification was warranted for these analytes. Acetone was detected in these samples at low concentrations, but the detection was considered due to contamination, and since sensitivity was acceptable no further qualification was necessary. Vinyl Chloride was detected in sample 97398000 and qualified as an estimate ("J"); possibly biased high. Vinyl Chloride was not detected in sample 97398001 or the method blank, and since it met sensitivity requirements no qualification was necessary.

Surrogate Recoveries:

All surrogate recoveries were within quality control limits.

Internal Standards:

Every internal standard response met the quality control criteria.

Summary:

Freon 113 exceeded the calibration range in sample 97398000 and the duplicate analysis of sample 97398000, and was qualified as an estimated amount ("E" qualifier). The analyst did not perform a dilution because he did not discover that the compound exceeded the calibration range until after the holding time had expired. This data is acceptable for use as qualified.

Manchester Environmental Laboratory

Department of Ecology

Analysis Report for Volatile Organic Analysis

Project Name: BEI Washougal

LIMS Project ID: 1560-97

Sample: 97398000

Date Received: 09/25/97

Method: SW8260

Field ID: C1A-8-6

Date Analyzed: 10/07/97

Matrix: Sediment/Soil

Project Officer: Chris Neumiller

Units: ug/Kg Dry Wt.

Analyte	Result	Qualifier	Analyte	Result	Qualifier
Dichlorodifluoromethane	6.6	U	Chloroacetonitrile	2.6	U
Chloromethane	1.3	U	Cis-1,3-Dichloropropene	1.4	U
Vinyl Chloride	5.6	J	4-Methyl-2-Pentanone	2.6	U
Bromomethane	1.3	U	1,1-Dichloropropanone	1.3	U
Chloroethane	2.6	U	Toluene	1.4	
Trichlorofluoromethane	2.6	U	Trans-1,3-Dichloropropene	1.2	U
Ethyl Ether	1.3	U	Ethylmethacrylate	1.3	U
1,1,2 Trichlorotrifluoroethane	124	E	1,1,2-Trichloroethane	1.3	U
1,1-Dichloroethene	2.6	U	1,3-Dichloropropane	1.3	U
Acetone	11	UJ	2-Hexanone	2.6	U
Methyl Iodide	1.3	U	Tetrachloroethene	13	
Carbon Disulfide	2.6	U	Dibromochloromethane	1.3	U
Allyl Chloride	1.3	U	1,2-Dibromoethane (EDB)	1.3	U
Methylene Chloride	2.6	UJ	Chlorobenzene	1.3	U
Acrylonitrile	2.6	U	1,1,1,2-Tetrachloroethane	1.3	U
2-Methoxy-2-Methylpropane	1.3	U	Ethylbenzene	3.8	
Trans-1,2-Dichloroethene	1.3	U	m & p-Xylene	3.2	
1,1-Dichloroethane	0.9	J	o-Xylene	16	
2-Butanone	2.6	U	Styrene	1.3	U
Cis-1,2-Dichloroethene	11		Bromoform	2.6	U
2,2-Dichloropropane	1.3	U	Isopropylbenzene (Cumene)	0.7	J
Methyl acrylate	1.3	U	1,1,2,2-Tetrachloroethane	1.3	U
Methacrylonitrile	2.6	U	Trans-1,4-Dichloro-2-butene	1.3	U
Bromochloromethane	1.3	U	1,2,3-Trichloropropane	1.3	U
Chloroform	1.3	U	Bromobenzene	1.3	U
Tetrahydrofuran	2.6	U	n-Propylbenzene	1.4	
1,1,1-Trichloroethane	30		2-Chlorotoluene	1.3	U
1-Chlorobutane	1.3	U	1,3,5-Trimethylbenzene	9.6	
1,1-Dichloropropene	1.3	U	4-Chlorotoluene	1.3	U
Carbon Tetrachloride	1.3	U	Tert-Butylbenzene	1.3	U
1,2-Dichloroethane	1.3	U	1,2,4-Trimethylbenzene	1.2	J
Benzene	1.3	U	Pentachloroethane	2.6	U
Trichloroethene	3.5		Sec-Butylbenzene	1.7	
1,2-Dichloropropane	1.3	U	p-Isopropyltoluene	3.0	
Methyl Methacrylate	1.3	U	1,3-Dichlorobenzene	1.3	U
Dibromomethane	1.3	U	1,4-Dichlorobenzene	1.3	U
Bromodichloromethane	1.3	U	n-Butylbenzene	1.3	U
2-Nitropropane	2.6	U	1,2-Dichlorobenzene	1.2	J

Authorized By: 

Release Date: 11/20/97

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Manchester Environmental Laboratory

Department of Ecology

Analysis Report for Volatile Organic Analysis

Project Name: BEI Washougal

LIMS Project ID: 1560-97

Sample: 97398000

Date Received: 09/25/97

Method: SW8260

Field ID: C1A-8-6

Project Officer: Chris Neumiller

Date Analyzed: 10/07/97

Matrix: Sediment/Soil

Units: ug/Kg Dry Wt.

Analyte	Result	Qualifier
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Hexachloroethane	2.6	U
1,2-Dibromo-3-Chloropropane	1.3	U
1,2,4-Trichlorobenzene	1.3	U
Hexachlorobutadiene	1.3	U
Naphthalene	1.3	U
1,2,3-Trichlorobenzene	1.3	U

Surrogate Recoveries

1,2-Dichloroethane-D4	103	%
1,4-Difluorobenzene	100	%
Toluene-D8	102	%
p-Bromofluorobenzene	89	%
1,2-Dichlorobenzene-D4	114	%

Authorized By: 

Release Date: 11/20/97

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Manchester Environmental Laboratory

Department of Ecology

Analysis Report for

Volatile Organic Analysis

Project Name: BEI Washougal

LIMS Project ID: 1560-97

Sample: 97398000 (Duplicate - LDPI)

Date Received: 09/25/97

Method: SW8260

Field ID: C1A-8-6

Date Analyzed: 10/07/97

Matrix: Sediment/Soil

Project Officer: Chris Neumiller

Units: ug/Kg Dry Wt.

Analyte	Result	Qualifier	Analyte	Result	Qualifier
Dichlorodifluoromethane	7.2	U	Chloroacetonitrile	2.9	U
Chloromethane	1.4	U	Cis-1,3-Dichloropropene	1.5	U
Vinyl Chloride	4.6	J	4-Methyl-2-Pentanone	2.9	U
Bromomethane	1.4	U	1,1-Dichloropropanone	1.4	U
Chloroethane	2.9	U	Toluene	1.6	
Trichlorofluoromethane	2.9	U	Trans-1,3-Dichloropropene	1.3	U
Ethyl Ether	1.4	U	Ethylmethacrylate	1.4	U
1,1,2 Trichlorotrifluoroethane	95	E	1,1,2-Trichloroethane	1.4	U
1,1-Dichloroethene	2.9	U	1,3-Dichloropropane	1.4	U
Acetone	10	UJ	2-Hexanone	2.9	U
Methyl Iodide	1.4	U	Tetrachloroethene	11	
Carbon Disulfide	2.9	U	Dibromochloromethane	1.4	U
Allyl Chloride	1.4	U	1,2-Dibromoethane (EDB)	1.4	J
Methylene Chloride	2	UJ	Chlorobenzene	1.4	U
Acrylonitrile	2.9	U	1,1,1,2-Tetrachloroethane	1.4	U
2-Methoxy-2-Methylpropane	1.4	U	Ethylbenzene	4.7	
Trans-1,2-Dichloroethene	1.4	U	m & p-Xylene	4.3	
1,1-Dichloroethane	0.75	J	o-Xylene	20	
2-Butanone	4	UJ	Styrene	1.4	U
Cis-1,2-Dichloroethene	11		Bromoform	2.9	U
2,2-Dichloropropane	1.4	U	Isopropylbenzene (Cumene)	0.8	J
Methyl acrylate	1.4	U	1,1,2,2-Tetrachloroethane	1.4	U
Methacrylonitrile	2.9	U	Trans-1,4-Dichloro-2-butene	1.4	U
Bromochloromethane	1.4	U	1,2,3-Trichloropropane	1.4	U
Chloroform	1.4	U	Bromobenzene	1.4	U
Tetrahydrofuran	2.9	U	n-Propylbenzene	1.7	
1,1,1-Trichloroethane	25		2-Chlorotoluene	1.4	U
1-Chlorobutane	1.4	U	1,3,5-Trimethylbenzene	13	
1,1-Dichloropropene	1.4	U	4-Chlorotoluene	1.4	U
Carbon Tetrachloride	1.4	U	Tert-Butylbenzene	1.4	U
1,2-Dichloroethane	1.4	U	1,2,4-Trimethylbenzene	0.6	J
Benzene	1.4	U	Pentachloroethane	2.9	U
Trichloroethene	3.2		Sec-Butylbenzene	1.6	
1,2-Dichloropropane	1.4	U	p-Isopropyltoluene	2.8	
Methyl Methacrylate	1.4	U	1,3-Dichlorobenzene	1.4	U
Dibromomethane	1.4	U	1,4-Dichlorobenzene	1.4	U
Bromodichloromethane	1.4	U	n-Butylbenzene	1.4	U
2-Nitropropane	2.9	U	1,2-Dichlorobenzene	1.4	U

Authorized By: 

Release Date: 11/20/97

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Manchester Environmental Laboratory

Department of Ecology

Analysis Report for

Volatile Organic Analysis

Project Name: BEI Washougal

LIMS Project ID: 1560-97

Sample: 97398000 (Duplicate - LDPI)

Date Received: 09/25/97

Method: SW8260

Field ID: C1A-8-6

Matrix: Sediment/Soil

Project Officer: Chris Neumiller

Date Analyzed: 10/07/97

Units: ug/Kg Dry Wt.

Analyte	Result	Qualifier
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Hexachloroethane	2.9	U
1,2-Dibromo-3-Chloropropane	1.4	U
1,2,4-Trichlorobenzene	1.4	U
Hexachlorobutadiene	1.4	U
Naphthalene	1.4	U
1,2,3-Trichlorobenzene	1.4	U

Surrogate Recoveries

1,2-Dichloroethane-D4	100	%
1,4-Difluorobenzene	99	%
Toluene-D8	101	%
p-Bromofluorobenzene	83	%
1,2-Dichlorobenzene-D4	110	%

Authorized By: 

Release Date: 11/20/97

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Manchester Environmental Laboratory

Department of Ecology

Analysis Report for

Volatile Organic Analysis

Project Name: BEI Washougal

LIMS Project ID: 1560-97

Sample: 97398001

Date Received: 09/25/97

Method: SW8260

Field ID: C1A-1-6

Date Analyzed: 10/07/97

Matrix: Sediment/Soil

Project Officer: Chris Neumiller

Units: ug/Kg Dry Wt.

Analyte	Result	Qualifier	Analyte	Result	Qualifier
Dichlorodifluoromethane	6.9	U	Chloroacetonitrile	2.8	U
Chloromethane	1.4	U	Cis-1,3-Dichloropropene	1.5	J
Vinyl Chloride	2.8	U	4-Methyl-2-Pentanone	2.8	U
Bromomethane	1.4	U	1,1-Dichloropropanone	1.4	U
Chloroethane	2.8	U	Toluene	1.6	
Trichlorofluoromethane	2.8	U	Trans-1,3-Dichloropropene	1.3	U
Ethyl Ether	1.4	U	Ethylmethacrylate	1.4	U
1,1,2 Trichlorotrifluoroethane	5.3		1,1,2-Trichloroethane	1.4	U
1,1-Dichloroethene	2.8	U	1,3-Dichloropropane	1.4	U
Acetone	9.7	UJ	2-Hexanone	2.8	U
Methyl Iodide	1.4	U	Tetrachloroethene	11	
Carbon Disulfide	2.8	U	Dibromochloromethane	1.4	U
Allyl Chloride	1.4	U	1,2-Dibromoethane (EDB)	1.4	U
Methylene Chloride	2.8	UJ	Chlorobenzene	1.4	U
Acrylonitrile	2.8	U	1,1,1,2-Tetrachloroethane	1.4	U
2-Methoxy-2-Methylpropane	1.4	U	Ethylbenzene	.6	J
Trans-1,2-Dichloroethene	1.4	U	m & p-Xylene	7.5	
1,1-Dichloroethane	1.1	J	o-Xylene	8.4	
2-Butanone	6.3		Styrene	1.4	U
Cis-1,2-Dichloroethene	4.6		Bromoform	2.8	U
2,2-Dichloropropane	1.4	U	Isopropylbenzene (Cumene)	.42	J
Methyl acrylate	1.4	U	1,1,2,2-Tetrachloroethane	1.4	U
Methacrylonitrile	2.8	U	Trans-1,4-Dichloro-2-butene	1.4	U
Bromochloromethane	1.4	U	1,2,3-Trichloropropane	1.4	U
Chloroform	1.4	U	Bromobenzene	1.4	J
Tetrahydrofuran	2.8	U	n-Propylbenzene	1.1	J
1,1,1-Trichloroethane	6.5		2-Chlorotoluene	1.4	U
1-Chlorobutane	1.4	U	1,3,5-Trimethylbenzene	5.6	
1,1-Dichloropropene	1.4	U	4-Chlorotoluene	1.4	U
Carbon Tetrachloride	1.4	U	Tert-Butylbenzene	1.4	U
1,2-Dichloroethane	1.4	U	1,2,4-Trimethylbenzene	5.6	
Benzene	1.4	U	Pentachloroethane	2.8	U
Trichloroethene	1.8		Sec-Butylbenzene	.47	J
1,2-Dichloropropane	1.4	U	p-Isopropyltoluene	.77	J
Methyl Methacrylate	1.4	U	1,3-Dichlorobenzene	1.4	U
Dibromomethane	1.4	U	1,4-Dichlorobenzene	1.4	U
Bromodichloromethane	1.4	U	n-Butylbenzene	.62	J
2-Nitropropane	2.8	U	1,2-Dichlorobenzene	.46	J

Authorized By: 

Release Date: 11/20/97

Page:

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Manchester Environmental Laboratory

Department of Ecology

Analysis Report for Volatile Organic Analysis

Project Name: BEI Washougal

LIMS Project ID: 1560-97

Sample: 97398001

Date Received: 09/25/97

Method: SW8260

Field ID: C1A-1-6

Project Officer: Chris Neumiller

Date Analyzed: 10/07/97

Matrix: Sediment/Soil

Units: ug/Kg Dry Wt.

Analyte	Result	Qualifier
Hexachloroethane	2.8	U
1,2-Dibromo-3-Chloropropane	1.4	U
1,2,4-Trichlorobenzene	1.4	U
Hexachlorobutadiene	1.4	U
Naphthalene	.9	UJ
1,2,3-Trichlorobenzene	1.4	U

Surrogate Recoveries

1,2-Dichloroethane-D4	101	%
1,4-Difluorobenzene	100	%
Toluene-D8	103	%
p-Bromofluorobenzene	73	%
1,2-Dichlorobenzene-D4	103	%

Authorized By: 

Release Date: 11/20/97

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2

Manchester Environmental Laboratory

Department of Ecology

Analysis Report for

Volatile Organic Analysis

Project Name: BEI Washougal

LIMS Project ID: 1560-97

Sample: BLN73331

Method: SW8260

Blank ID: OKBS7280

Matrix: Sediment/Soil

Project Officer: Chris Neumiller

Date Analyzed: 10/07/97

Units: ug/Kg Dry Wt.

Analyte	Result	Qualifier	Analyte	Result	Qualifier
Dichlorodifluoromethane	5	U	Chloroacetonitrile	2	U
Chloromethane	1	U	Cis-1,3-Dichloropropene	1.1	U
Vinyl Chloride	2	U	4-Methyl-2-Pentanone	2	U
Bromomethane	1	U	1,1-Dichloropropanone	1	U
Chloroethane	2	U	Toluene	1	U
Trichlorofluoromethane	2	U	Trans-1,3-Dichloropropene	.94	U
Ethyl Ether	1	U	Ethylmethacrylate	1	U
1,1,2 Trichlorotrifluoroethane	2	U	1,1,2-Trichloroethane	1	U
1,1-Dichloroethene	2	U	1,3-Dichloropropane	1	U
Acetone	2.4	J	2-Hexanone	2	U
Methyl Iodide	1	U	Tetrachloroethene	1	U
Carbon Disulfide	.08	J	Dibromochloromethane	1	U
Allyl Chloride	1	U	1,2-Dibromoethane (EDB)	1	U
Methylene Chloride	.96	J	Chlorobenzene	1	U
Acrylonitrile	2	U	1,1,1,2-Tetrachloroethane	1	U
2-Methoxy-2-Methylpropane	1	U	Ethylbenzene	1	U
Trans-1,2-Dichloroethene	1	U	m & p-Xylene	2	U
1,1-Dichloroethane	1	U	o-Xylene	1	U
2-Butanone	.5	J	Styrene	1	U
Cis-1,2-Dichloroethene	1	U	Bromoform	2	U
2,2-Dichloropropane	1	U	Isopropylbenzene (Cumene)	1	U
Methyl acrylate	1	U	1,1,2,2-Tetrachloroethane	1	U
Methacrylonitrile	2	U	Trans-1,4-Dichloro-2-butene	1	U
Bromochloromethane	1	U	1,2,3-Trichloropropane	1	U
Chloroform	1	U	Bromobenzene	1	U
Tetrahydrofuran	2	U	n-Propylbenzene	1	U
1,1,1-Trichloroethane	1	U	2-Chlorotoluene	1	U
1-Chlorobutane	1	U	1,3,5-Trimethylbenzene	1	U
1,1-Dichloropropene	1	U	4-Chlorotoluene	1	U
Carbon Tetrachloride	1	U	Tert-Butylbenzene	1	U
1,2-Dichloroethane	1	U	1,2,4-Trimethylbenzene	1	U
Benzene	1	U	Pentachloroethane	2	U
Trichloroethene	1	U	Sec-Butylbenzene	1	U
1,2-Dichloropropane	1	U	p-Isopropyltoluene	1	U
Methyl Methacrylate	1	U	1,3-Dichlorobenzene	1	U
Dibromomethane	1	U	1,4-Dichlorobenzene	1	U
Bromodichloromethane	1	U	n-Butylbenzene	1	U
2-Nitropropane	2	U	1,2-Dichlorobenzene	1	U

Authorized By: 

Release Date: 11/20/97

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Manchester Environmental Laboratory

Department of Ecology

Analysis Report for

Volatile Organic Analysis

Project Name: BEI Washougal

LIMS Project ID: 1560-97

Sample: ~~BLN73331~~

Method: SW8260

Blank ID: OKBS7280

Matrix: Sediment/Soil

Project Officer: Chris Neumiller


Date Analyzed: 10/07/97

Units: ug/Kg Dry Wt.

Analyte	Result	Qualifier
Hexachloroethane	2	U
1,2-Dibromo-3-Chloropropane	1	U
1,2,4-Trichlorobenzene	1	U
Hexachlorobutadiene	1	U
Naphthalene	.3	J
1,2,3-Trichlorobenzene	1	U

Surrogate Recoveries

1,2-Dichloroethane-D4	102	%
1,4-Difluorobenzene	100	%
Toluene-D8	103	%
p-Bromofluorobenzene	89	%
1,2-Dichlorobenzene-D4	99	%

Authorized By: 

Release Date: 11/20/97

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Pre-Sampling Notification

10 3 PM LOVELY
Manchester Lab

Project Name: BEI WASHOUGAL PIC: M 1 2 1 2 Enforcement
 Requested by: CHRISTINE NEUMILLER Sampling Date(s): 9/23/97 Monitoring
 Program: HWTR SWRO Date to Lab: 9/23/97 Emergency
 Phone No. 360 407 6258 Sample Pickup Location: HQ EILS locker Class II
 Preliminary Invest.
 Special turnaround

General Chemistry		W	S	O	Microbiology		W	S	O	Organic Chemistry		W	S	O
Alkalinity					Fecal Coliforms	<input type="checkbox"/> MF <input type="checkbox"/> MPN				Base/Neutral/Acids (BNA)		2		
Conductivity					Total Coliforms					Polynuclear Aromatics (PAH)				
Hardness					%Klebsiella									
pH										Volatile Organic Analysis (VOA)		2		
Turbidity										BTEX				
Fluoride														
<input type="checkbox"/> Chloride <input type="checkbox"/> Sulfate										Pest/PCB's (Organochlorine)				
										Pesticides only (Organochlorine)				
										PCB's only				
Cyanide <input type="checkbox"/> Total <input type="checkbox"/> Dissociable					ICP Scan					OP- Pests (Organophosphorous)				
Chlorophyll					Priority Pollutant Metals					Herbicides (Chlorophenoxy)				
Total Solids					ICP/MS Scan					Nitrogen Pesticides				
Total Nonvolatile Solids					TCLP metals									
Total Suspended Solids					Mercury (Hg) <input type="checkbox"/> Low level <input type="checkbox"/> Regular					Hydrocarbon_ID				
Total Nonvolatile Suspended										WTPH-HCID				
Total Dissolved Solids										WTPH-G				
% Solids					List individually for ICP:					WTPH-D				
% Volatile Solids (TVS)										WTPH-418.1 Modified				
Total Organic Carbon					List individually for GFAA:					TCLP-VOA				
Bio Oxygen Demand (5 day)										TCLP-BNA				
Oil & Grease										TCLP-Herbicides				
					List individually for ICP/MS:					TCLP-Pesticides				
Ammonia														
Nitrate-Nitrite														
Total Phosphorous														
Orthophosphorous														
Nitrate														
Nitrite														
<input type="checkbox"/> TPN <input type="checkbox"/> TKN					Asbestos									

Comments: Enter the number of samples in the appropriate box(es) above
 W= water S= soil/sediment O= other (please specify)
 W_{TR} = water total recoverable W_D = water dissolved

APPENDIX B
FIELD PHOTOGRAPHS

Appendix B: Field Photographs



1. Track-hoe demolishing the remainder of above-ground piping from the former tank farm.



2. Track-hoe breaking up concrete in former tank farm.

Appendix B: Field Photographs



3. Track-hoe breaking up concrete in former tank farm.



4. Track-hoe breaking up concrete in former tank farm.

Appendix B: Field Photographs



5. Track-hoe breaking up concrete in former tank farm.



6. All concrete broken up and hauled to Rabanco Landfill.

Appendix B: Field Photographs



7. Loading concrete onto trucks for disposal at Rabanco Landfill.



8. Beginning of soil removal.

Appendix B: Field Photographs



9. Soil excavated to approximately 3-4 feet below ground surface.



10. Soil excavated to approximately 3-4 feet below ground surface.

Appendix B: Field Photographs



11. Soil excavated to 6 feet below ground surface.



12. MC-R, recovery well in tank farm prior to abandonment.

Appendix B: Field Photographs



13. Bucket drainage system or dry well discovered near MC-R during excavation procedures.



14. MC-R pulled from ground and bucket from dry well in background.

Appendix B: Field Photographs



15. Dry well pieced together on ground surface for inspection. Notice the bottoms of the 5-gallon buckets are cut out and drain holes were drilled into the middle bucket.



16. Continue excavation to 6 feet below ground surface across the tank farm.

Appendix B: Field Photographs



17. Excavation filled with water from approximately 4 feet below ground surface.



18. Track-hoes continue trying to excavate to 6 feet below ground surface, but standing water complicates the project.

Appendix B: Field Photographs



19. Excavation to 6 feet below ground surface.



20. Decide not to excavate beyond 6 feet below ground surface to protect the silt confining layer. Fill in excavation with pre-load.

Appendix B: Field Photographs



21. Fill in excavation with pre-load.

APPENDIX C
1986 SOIL BORING DATA



Sweet, Edwards & Associates, Inc.

Ground Water, Waste Disposal, Engineering Geology & Drilling Services

P.O. Box 328 • 208 Church St. • Keiso, WA 98626 • (206) 423-3580

October 24, 1986

Jack McClary
McClary Columbia Corp.
P.O. Box 222
Washougal, WA 98671

RE: OCTOBER 1986 TEST BORINGS

Dear Jack:

Enclosed are the available results from the test borings completed in the solvent distillation process area. The test boring locations are shown on Figure 1.

The test borings were drilled with a hand auger to the water table, approximately 5 feet below the top of the concrete slab. At each boring, a stainless steel screen was driven into the top of the water table. A ground water sample was then obtained with a Teflon bailer. This was done after at least three pore volumes of water had been removed from the well screen with a peristaltic pump. The screen was then driven down to the top of the underlying silt layer where another water sample was obtained following the same procedure. All drilling equipment was steam cleaned between borings and all sampling equipment was washed with methanol and distilled water between samples. The water sampling depths and water sample designations are listed on Table 1.

The water testing is being done at the Crown Zellerbach lab in Camas, Washington. The testing results available to date are listed on Table 2.

As noted on Table 1, the dark colored solvent mixture was noted only in test holes A and AA. Although this liquid is heavier than water, the test boring results indicate that classical DNAPL migration may not be occurring because of capillary tension in the sand. Available data indicates that the solvent is being held in the capillary fringe and upper water table.

McClary
October 24, 1986
Page Two

The water quality data on Table 2 indicate that there are significant concentrations of dissolved organic chemicals present in shallow ground water in the test boring area. These contaminants are not necessarily derived strictly from the solvents located beneath the old concrete sump, but from past site releases.

Additional evaluation of the water quality data is in progress.

Respectfully submitted,

SWEET, EDWARDS & ASSOCIATES, INC.



JOHN E. EDWARDS
Associate Geologist

bg

ENC: Table 1
Table 2
Figure 1

CC: Dennis Stefani
Dave Dupree

TABLE 1

McCLARY COLUMBIA
TEST BORING SAMPLE SUMMARY
October 1986

STATION	SAMPLE I. D.	DATE SAMPLED	SAMPLE INTERVAL(ft)	COMMENTS
MC-A	MC-10-20-A1	10/20/86	4.5-5.5	Two phase liquid, pumped .25 gallon of DNAPL before water entered system, install sump from 4.5-6.0. DNAPL* /dark black to brown.
	MC-10-20-A (DNAPL)	10/20/86	4.5-5.5	
	MC-10-21-A2	10/21/86	8.5-11.5	Some DNAPL; uncertain if it is truly at this depth or if it found pathway along drive point annulus.
MC-B	MC-10-20-B1	10/20/86	5.0-5.5	NO DNAPL OBSERVED
	MC-10-21-B2	10/21/86	8.5-11.5	NO DNAPL OBSERVED
MC-C	MC-10-20-C1	10/20/86	5.0-5.5	NO DNAPL OBSERVED
MC-D	MC-10-20-D1	10/20/86	5.0-6.0	NO DNAPL OBSERVED
MC-E	MC-10-20-E1	10/20/86	5.0-6.0	NO DNAPL OBSERVED, Strong solvent odor.
MC-F	MC-10-21-F1	10/21/86	5.0-6.0	NO DNAPL OBSERVED
	MC-10-21-F2	10/21/86	8.5-11.5	NO DNAPL OBSERVED
MC-G	MC-10-21-G1	10/21/86	4.5-5.5	NO DNAPL OBSERVED
	MC-10-21-G2	10/21/86	8.5-11.5	NO DNAPL OBSERVED
MC-H	MC-10-21-H1	10/21/86	5.0-5.5	NO DNAPL OBSERVED, Low water yield.
	MC-10-22-H2	10/22/86	8.5-11.5	NO DNAPL OBSERVED, Low water yield.
MC-I	MC-10-22-I1	10/22/86	5.0-6.0	NO DNAPL OBSERVED
	MC-10-22-I2	10/22/86	8.5-11.5	NO DNAPL OBSERVED
MC-J	MC-10-22-J1	10/22/86	5.0-5.5	NO DNAPL OBSERVED
	MC-10-22-J2	10/22/86	8.5-11.5	NO DNAPL OBSERVED
MC-AA	DID NOT SAMPLE		4.5-5.5	90% DNAPL PUMPED @ .33 gpm for 15 minutes, drawdown observed, shut pump off 2-5 minutes; high percentage recovery.
MC-AB	DID NOT SAMPLE		4.5-5.5	NO DNAPL OBSERVED

*DNAPL = Dense Non-Aqueous Phase Liquid

PRELIMINARY

TABLE 2

MCCLARY COLUMBIA
GROUND WATER QUALITY
October 1986 Test Borings
(ppm except 20-A (%))

SERIES MC-10 WATER SAMPLES	DATE SAMPLED	1-1-1		TRICHLORO-		METHYLENE		TRICHLORO-		TRICHLORO-		TETRA-	
		TRICHLORO- ETHANE	ETHANE	TRIFLUORO- ETHANE	ETHANE	CHLORIDE	CHLORIDE	ETHYLENE	ETHYLENE	ETHYLENE	ETHYLENE	ETHYLENE	ETHYLENE
20-A1	10/20/86	200	310	550	130	120	11	5					
20-B1	10/20/86	46	21	ND<3	9	10	21	12					
20-C1	10/20/86	12	ND<3	ND	ND<7	ND<6	8	4					
20-D1	10/20/86	24	9	ND	8	ND<6	11	7					
20-E1	10/20/86	70	19	ND	47	29	23	11					
20-A	10/20/86	29.5%	0.7%	18.4%	5.8%	38%	1%	0.8%					
21-A2	10/21/86	149	28	263	145	189	16	<3					
21-B2	10/21/86	6	<1	<5	<4	<3	5	<3					
21-F1	10/21/86	32	10	<5	<4	<3	5	<3					
21-F2	10/21/86	<1	<1	<5	<4	<3	<1	<3					
21-G1	10/21/86	<1	<1	<5	<4	<3	9	<3					
21-G2	10/21/86	<1	<1	<5	<4	<3	<1	<3					
21-H1	10/21/86	7	16	<5	<4	120	57	<3					
21-H2	10/21/86	<1	4	<5	20	66	25	6					
22-I1	10/22/86	29	12	<5	<4	<3	29	<3					
22-I2	10/22/86	<1	<1	<5	<4	<3	<1	<3					
22-J1	10/22/86	<1	<1	<5	<4	<3	<1	<3					
22-J2	10/22/86	<1	<1	<5	<4	<3	<1	<3					

LABORATORY
DETECTION
LIMIT (ppm)

Sample 20-A - Units % by weight

PRELIMINARY

McCLARY COLUMBIA	
October 1986 Test Boring Locations	
Sweet, Edwards & Associates	INITIALS JLG
DATE 10-29-86	CHECKED BY
REVISED	Figure 1

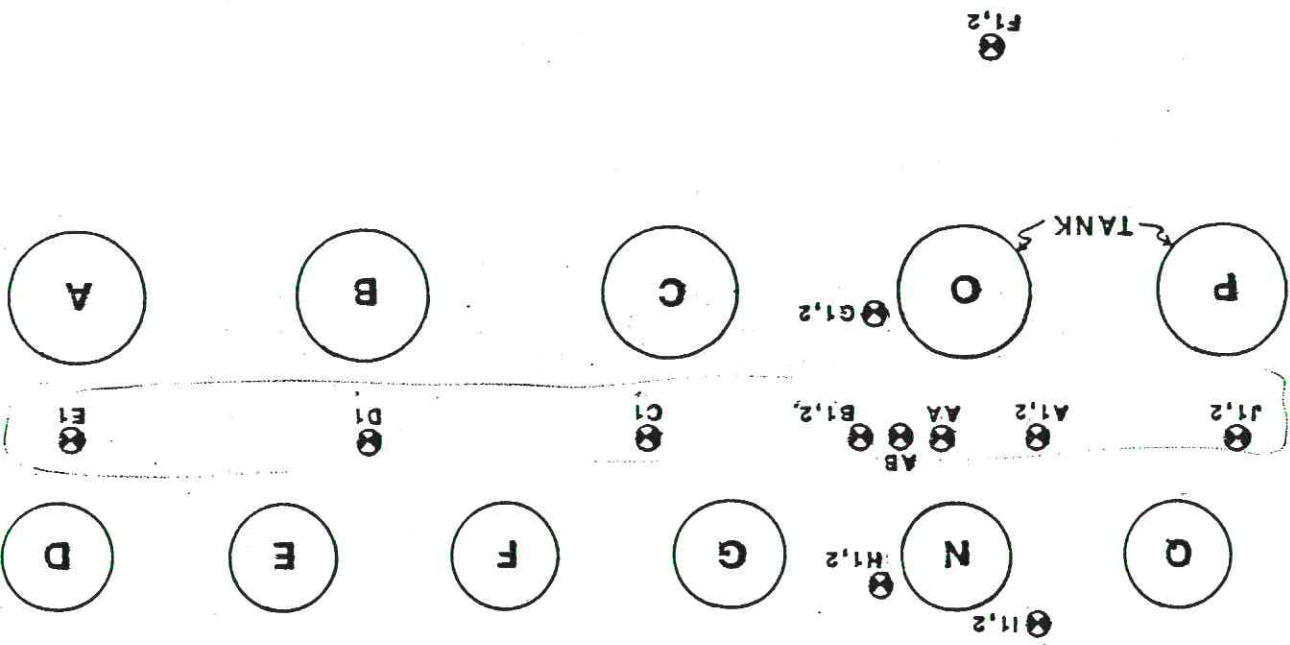


Scale in Feet
0 10 20



⊗ Test Hole

- NOTE:
1. Tank locations are approximate.
 2. All boring locations are referenced from Test Hole A1,2.
 3. Test hole A1,2 is located in the site of the former concrete sump.
 4. Following drilling and sampling, the concrete paving at each test hole site was sealed with bentonite.



PRELIMINARY



October 27, 1986

Mr. Dave Deupree,
McClary Columbia Corporation
P. O. Box 222
Washougal, WA 98671

Dear Dave:

Re: 9628, 9630 - Halogenated and Aromatic Solvents in Water

Samples of groundwater and solvent received here October 23 have been analyzed for methylene chloride, freon 113, 1,1,1-trichloroethane, trichloroethylene, tetrachloroethylene, toluene, and xylenes. Results are shown in Tables 1 and 2. Chain-of-custody information is shown in Appendix A.

Please call if we can be of further assistance.

Very truly yours,

Dave Edelman

DAVE EDELMAN, JR., Ph.D.
jm/109

Environmental Laboratory
Coordinator

CC: Dr. J. E. Walther - CES/Camas
Enclosure

Table 1

McClary Columbia Groundwater Solvent Characteristics

(Laboratory Reference 9628/9630)

<u>Sample Description</u>	<u>Methylene Chloride</u>	<u>Freon 113</u>	<u>1,1,1-Trichloroethane</u>	<u>Trichloroethylene</u>	<u>Tetrachloroethylene</u>	<u>Toluene</u>	<u>Xylenes</u>
				<i>.07% Solubility</i>		<i>.07%</i>	
MC-10-21-A2	28	260	150	140	190	16	ND
MC-10-21-B2	ND	ND	6	ND	ND	5	ND
MC-10-21-F1	10	ND	32	ND	ND	5	ND
MC-10-21-F2	ND	ND	ND	ND	ND	ND	ND
MC-10-21-G1	ND	ND	ND	ND	ND	9	ND
MC-10-21-G2	ND	ND	ND	ND	ND	ND	ND
MC-10-21-H1	16	ND	7	ND	120	57	ND
MC-10-22-H2	4	ND	ND	20	66	25	6
MC-10-22-I1	12	ND	29	ND	ND	29	ND
MC-10-22-I2	ND	ND	ND	ND	ND	ND	ND
MC-10-22-J1	ND	ND	ND	ND	ND	ND	ND
MC-10-22-J2	ND	ND	ND	ND	ND	ND	ND

ND means none detected. Detection limits estimated at 1-5 mg/L (ppm).

McClary Columbia MC-10-20-A Halogenated Solvent Characterization

(Laboratory Reference 9630)

Table 2

Parameter	Result in Weight Percent
Methylene Chloride	0.7
Freon 113	18.4
1,1,1-Trichloroethane	29.5
Trichloroethylene	5.8
Tetrachloroethylene	38.0
Toluene	1.0
Xylenes	0.8

±0.07

±0.07

Solvent % w/v

Chain-of-Custody Information

APPENDIX A



Sweet, Edwards & Associates, Inc.
 Kelso, WA (206) 423-3580
 Redmond, WA (206) 881-0415

Chain of Custody / Laboratory Analysis Request

DATE 10-22-86 PAGE 2 OF 2

PROJECT				ANALYSIS REQUESTED										GENERAL CHEMISTRY (Specify)		OTHER (Specify)		NUMBER OF CONTAINERS
CLIENT INFO.				BASE/NEU/ACID ORGAN. GC/MS/625/8270	VOLATILE ORGANICS GC/MS/624/8240 *	HALOGENATED VOLATILE ORGANICS 601/8010	PHENOLICS 604/8040	POLYNUCLEAR AROMATIC 610/8310	TOTAL ORGANIC CARBON (TOC) 415/9060	TOTAL ORGANIC HALIDE (TOX) 9020	EP TOX/TCLP METALS (Circle One)	METALS (TOTAL) (See Special Inst.)	TCLP ORGANICS	pH, COND ALK	NO ₃ /NO ₂ , Cl SO ₄	Ca, Mg, Na, K		
SAMPLE I.D.	DATE	TIME	LAB I.D.	TYPE														
1. MC-10-22-11	10-22			water														1
2. MC-10-20-AL(OH)10XC				2-pink														1
3. MC-10-22-I 2	10-22			water														1
4. MC-10-22-J 1	10-22			water														1
5. MC-10-22-S 2	10-22			water														1
6.																		
7.																		
8.																		
Relinquished By Sweet, Edwards & Assoc.				Relinquished By										PROJECT INFORMATION		SAMPLE RECEIPT		
Signature <i>JR Henshaw</i>				Signature <i>David Depree</i>										Shipping I.D. No.		Total No. of Containers		
Printed Name STEA				Printed Name David Depree										VIA		Chain of Custody Seats		
Firm				Firm										Project		Received in good condition		
Date/Time 10-22-86 1720				Date/Time 10/23/86										SPECIAL INSTRUCTIONS/COMMENTS		LAB NO.		
Received By				Received By										* 1-1-1 Trichloroethane methylene chloride Trichlorofluorethane Trichloroethylene Tetra chloroethylene Toluene Xylene		DIRECT INSTRUCTIONS c/c/ID not c/c/mg		
Signature <i>David Depree</i>				Signature <i>DAVE EDWARDS</i>														
Printed Name David Depree				Printed Name James River Environmental														
Firm				Firm														
Date/Time 10/24/86 1720				Date/Time 10/23/86 0830														

DISTRIBUTION: WHITE - return to originator; YELLOW - lab; PINK - retained by originator.