

October 2, 2003

Eastman Kodak Company
343 State Street
Rochester, New York 14650

Attention: Mr. Elliott Stern, Esq.

Report
Phase II Subsurface Environmental
Investigation
Former Qualex Photofinishing Facility
21249 72nd Avenue South
Kent, Washington

Dear Mr. Stern:

GEOLOGICA Inc. is pleased to submit this report, which presents the results and conclusions of the Phase II Investigation conducted at the above-referenced property located in Kent, Washington.

The work was conducted in general accordance with our proposal dated February 5, 2003. It has been our pleasure to prepare this report for your use. If you have any questions, please do not hesitate to contact us at 415-597-7883.

Very truly yours,

GEOLOGICA INC.



Brian F. Aubry, R.G., C.E.G., C.Hg.
Principal

Table of Contents

1	Introduction and Purpose.....	3
2	Background.....	3
2.1	Site Location and Physical Description	3
2.2	Site History	4
2.3	Site Photofinishing Operations	4
2.4	Previous Environmental Investigations	5
2.5	Environ - 1991	5
2.6	GEOLOGICA – 2003.....	5
3	Scope of Work Performed.....	6
4	Field Methodologies and Procedures.....	7
4.1	March 2003 – Direct Push Explorations	7
4.1.1	Direct Push Exploration Advancement	7
4.1.2	Soil Sample Collection Procedures	8
4.1.3	Temporary Monitoring Well Groundwater Grab Sample Collection Procedures	8
4.1.4	Direct Push Exploration Samples - Laboratory Analytical Testing...8	
4.2	Permanent Monitoring Well Installation and Sampling	9
4.2.1	Drilling and Well Installation	9
4.2.2	Groundwater Elevation Monitoring	9
4.2.3	Well development and Sampling	9
4.2.4	Groundwater Analytical Testing.....	10
4.3	Investigation-Derived Waste Management.....	10
5	Results of Field and Laboratory Testing	10
5.1	Subsurface Conditions	10
5.1.1	Soil Conditions	10
5.1.2	Groundwater Conditions.....	10
5.2	Soil and Groundwater Analytical Testing Results.....	10
5.2.1	Volatile Organic Compounds.....	10
5.2.2	Total Petroleum Hydrocarbons	11
5.2.3	Metals.....	11

Table of Contents

5.3	Investigation-Derived Waste Management.....	13
6	Summary and Conclusions	13
7	References	14

Tables

1	Summary of Soil Chemical Test Results
2	Summary of Groundwater Chemical Test Results

Figures

1	Site Location Map
2	Site Plan

Appendix

A	Monitoring Well Installation Diagram
B	Laboratory Analytical Reports

Report
Phase II Subsurface Environmental Investigation
Former Qualex Photofinishing Facility
21249 72nd Avenue South
Kent, Washington

1 Introduction and Purpose

GEOLOGICA INC. is pleased to submit this report summarizing the results of a Phase II subsurface environmental investigation performed at the former Qualex photofinishing facility located at 21249 72nd Avenue South in Kent, Washington. The purpose of this work was to assess the potential for subsurface impacts related to the former use of the property as a photofinishing facility. Work was conducted in general accordance with our proposal dated March 3, 2003 as amended on June 30, 2003.

2 Background

Phase I Environmental Site Assessment (ESA) activities were recently performed at the site at the request of Qualex in association with plans to sell the property. Subsequent to this work, GEOLOGICA performed supplemental office research regarding historical operations at the facility. The following sections summarize the findings of this preliminary work.

2.1 Site Location and Physical Description

The property is located at 21249 72nd Avenue South in the City of Kent, in King County, Washington near the intersection of South 212th Street and 72nd Avenue South as shown on the Site Map, Figure 1.

The property was a Kodak Processing Laboratory (KPL) property ("the property"), leased and occupied until October 2002 for photofinishing purposes, located at 21249 72nd Avenue South in Kent, WA. The leased property included warehouse space at 21241 72nd Avenue South (the warehouse space immediately next door to the north) and the warehouse property at 21234 68th Avenue South, approximately 0.5 miles to the southwest, respectively, comprising a total of 40,266 sq ft. The latter two spaces have been used only for warehousing/storage of materials, were included in the lease only within the last six months, and have not involved chemical use or waste generation. Photofinishing operations have only been conducted at the 17,500 sq ft photofinishing facility at 21241 72nd Avenue South. Each of the storage areas was formerly used for food processing activities (artificial crab and syrup, respectively). Consequently, this Phase II scope deals exclusively with the 21241 72nd Avenue South property.

The site is generally flat and situated at an elevation of approximately 185 ft MSL sloping very gently to the south. Based on studies performed at the site and at nearby sites, the property is generally underlain by a heterogeneous assemblage of alluvial

gravelly sands, silts, and clays to depths up to 100 feet. Based on wells installed near the site, the depth to first groundwater is reportedly 5 to 10 feet below ground surface (bgs). Groundwater within ¼-mile has reportedly been measured to flow to the northeast. However, no site-specific groundwater information was identified regarding depth or flow direction prior to completing Phase II field activities.

2.2 Site History

The building was reportedly constructed in approximately 1984 and was the first permanent structure on the property. Prior to site development, the property was open marshland, though it may have been used for agricultural purposes at some point. The first tenant was reportedly Flow Industries, Inc, a manufacturer of water jet cutting and drilling tools, who used the space for offices and as a research laboratory. Samilian Foto occupied the site in 1990. Qualex acquired Samilian in 1992. Qualex operated an amateur overnight processing lab at the property until its closure in 1999.

Approximately 4 to 6 months later, the lab was reopened as a Kodak Professional Laboratory (KPL). Operationally, the two labs were very similar. However, the original Qualex lab was strictly a "develop and print" overnight processing lab that did no enlargements and, in general, did not service professional photographic customers.

2.3 Site Photofinishing Operations

Photo processing operations at the site included the C-41 color negative film process, the E-6 color slide process, the RA-4 color paper processes, black & white negative and paper processing, and the KLAB color slide process. In general, exposed, unprocessed, photographic film was received from customers and processed through standard C-41 chemicals to make developed negatives. These negatives were used to expose images onto photographic paper, which was then processed using RA-4 chemicals to create photographic prints. The E-6 and KLAB processes were used to process color slides. The chemicals used in these processes were purchased from Eastman Kodak Company as liquid concentrates, were mixed in the Chemical Mixing Area with water to create process-strength solutions, and were pumped to holding tanks elevated on racks.

Photofinishing chemicals were gravity fed to the film and paper processors by above-ground pipelines, with the exception of a number of mini-lab units in which chemicals were delivered by hand totes. Non silver-bearing wastewaters from the processors and mini-labs were pumped directly to the sanitary sewer via overhead or above-ground pipelines. Silver bearing wastewaters from the processors were pumped via overhead lines to the Silver Recovery Area for silver reclamation followed by effluent discharge to the sanitary sewer in a subgrade sewer line, which passed through a Trap Tank. The Trap Tank also served as a wastewater discharge sampling point.

Four subgrade sumps that housed pump (or "lift") stations for process wastewaters were present at the facility. Two additional subgrade sumps were also present associated with the KLAB process area and the Chem Mix Area, respectively. These sumps were all double-lined with polyethylene and set in concrete vaults. Thus, at the

time of the site visit, no incoming or outgoing process chemical or wastewater lines associated with the film and paper processors were situated below grade, with the exception of the final portion of the effluent discharge line to the sanitary sewer, including the Trap Tank.

2.4 Previous Environmental Investigations

2.5 Environ - 1991

Environ was retained to conduct an environmental due diligence of the Samilian Foto labs in Kent, WA and Chula Vista, CA in 1991, apparently as part of the Qualex purchase of Samilian Foto. The report was strictly an environmental review based on a site visit and limited interviews. It did not meet ASTM standards for a Phase I ESA. No major environmental issues were noted.

2.6 GEOLOGICA – 2003

GEOLOGICA conducted a Phase I ESA at the site in May 2003 in general accordance with ASTM standards (GEOLOGICA, 2003). The May 2003 Phase I ESA identified the following environmental concerns at the property related to onsite current and historical operations:

- ▶ A wastewater effluent line which led to the sanitary sewer leaked immediately upstream of a sub-grade Trap Tank. Line repairs in February 2000 indicated that soil adjacent to the line was saturated with wastewater effluent. It appeared that the line had been leaking for an indefinite period of time.
- ▶ The floor of a compressor room was heavily stained with compressor oil. Oil-containing condensate was evidently routed into a floor drain within the compressor room. The floor drain fed into the effluent line described above.
- ▶ It appears that prior to the upgrade of the plumbing and sump systems at the site in about 1999, floor trenches were located in processing areas of the facility. These trenches were reportedly "dry trenches" which housed PVC piping that routed process wastewater to the sewer and to Silver Recovery. Also in 1999, floor drains, which had been located in several areas of the plant, were evidently plugged. Thus, in the past it appears that a system of subgrade trenches and piping was present at the facility in the processing areas, the Chemical Mixing Area, and the Silver Recovery Area.
- ▶ Based on available information, there are several known and suspected environmental contamination sites located within ¼ mile of the property. However, a review of available regulatory information did not indicate direct evidence that nearby sites have significantly impacted soil or groundwater beneath the property.

The scope of work for Phase II investigation activities described below was developed to address the first two environmental issues listed above.

3 Scope of Work Performed

To further investigate potential impacts to soil and groundwater beneath the former Qualex facility, a Phase II Subsurface Investigation was performed at the site. Work was conducted in two field episodes in March 2003 and July 2003, respectively. The scope of work is summarized in the following descriptions.

March 2003 Field Program

A total of five (5) shallow soil borings were advanced for sample collection using direct push exploration techniques. Four (4) shallow soil borings (S-1 through S-4) were advanced inside the building to assess subsurface soil and groundwater quality conditions in areas of potential spills and release of photofinishing compounds. Three (3) of the borings were advanced in the vicinity of the wastewater effluent line Trap Tank in the Maintenance Shop where industrial sewer line leaks had been documented. A temporary monitoring well for collection of a groundwater sample was installed in one of the borings (S-3). One (1) boring (S-4) was advanced near the floor drain in the compressor room, where the floor was heavily oil stained. One (1) additional shallow soil boring (B-1) was advanced outside the building to assess local background soil quality conditions.

March 2003 Analytical Testing Program

A total of ten (10) soil samples from 5 (five) sampling locations and one (1) groundwater sample from a temporary monitoring well location S-3 were collected for analytical testing. Four (4) soil samples collected inside the building (S-1-4', S-2-2', S-3-8', and S-4-3') were analyzed for:

- pH,
- Nitrate and sulfate,
- Total cyanide,
- Volatile organic compounds (VOCs) by EPA 8260,
- Gasoline, diesel and motor oil by EPA 8015 and
- 17 priority metals.

The background soil sample collected outside the building, (B-1-6'), was analyzed for all the parameters in the above list except for VOCs, gasoline, diesel and motor oil. All soil sample results are presented on a wet weight basis. The remaining five (5) samples were placed on hold pending results of analysis of other samples from those borings.

The groundwater sample collected from the temporary monitoring well completed in boring S-3 was analyzed for:

- pH,
- Nitrate and sulfate,
- Total cyanide,
- VOCs by EPA 8260,

- Gasoline, diesel, and motor oil by EPA 8015 and
- 17 priority metals.

July 2003 Field Program

Following review of the results of analyses of soil samples and groundwater grab sample collected during the March 2003 field event, GEOLOGICA recommended installing and sampling a permanent groundwater monitoring well inside the building beneath the Trap Tank Area in the Maintenance shop. With the concurrence of Qualex, a geologist from GEOLOGICA returned to the site in July 2003 to supervise installation, development, and sampling of a permanent monitoring well (MW-1) at the location of direct push exploration boring and temporary monitoring well S-3.

July 2003 Analytical Testing Program

The groundwater sample collected from the permanent monitoring well MW-1 completed at the location of boring S-3 was analyzed for:

- pH,
- Nitrate and sulfate,
- Total cyanide,
- VOCs by EPA 8260,
- Gasoline, diesel, and motor oil by EPA 8015 and
- 17 priority metals

4 Field Methodologies and Procedures

This section describes drilling, soil sample and groundwater grab sample collection activities and procedures, and monitoring well installation and sampling procedures.

4.1 March 2003 – Direct Push Explorations

Soil and groundwater sampling activities were conducted on March 24, 2003. A GEOLOGICA Staff Geologist was present during all field activities and was responsible for: maintaining a boring log of each well boring; making detailed observations of site activities; and providing technical assistance. All soil samples were classified according to the Unified Soil Classification System (USCS). All field activities were completed under the direct supervision of GEOLOGICA's Certified Hydrogeologist, Brian Aubry

4.1.1 Direct Push Exploration Advancement

Prior to drilling, concrete coring was conducted to access subsurface soils beneath the concrete slab inside the building. Soil borings were subsequently advanced by our subcontractor, Cascade Drilling, Inc. of Woodinville, WA utilizing the limited access GeoProbe™ hydraulic system. At the completion of sampling, each borehole was back-filled with bentonite pellets. Exploration locations are provided on **Figure 2**.

4.1.2 Soil Sample Collection Procedures

Borings S-1, S-2 and S-3 were advanced inside the building beneath the Trap Tank Area in the Maintenance shop. Boring S-4 was advanced through the floor of the Compressor Room. Soil boring B-1 was advanced outside the building in the northwest corner of the property in an area not anticipated to be impacted by site operations for the collection of background data for metals and other naturally occurring substances. The direct push borings were advanced to depths of 5 to 8 ft below ground surface (bgs). Soil samples were retrieved in continuous 4-foot intervals during probe advancement by withdrawing the probe rod and removing the 1.5-inch-diameter polyethylene liner attached to the tip. For each boring, the entire sample collected from each 4-ft long, polyethylene tube was screened for visual and olfactory signs of contamination.

Samples were collected for possible laboratory chemical testing at depths of 1, 2.5, and 5 feet below the floor slab. It was originally intended that the two deeper samples from each boring would be placed on hold for chemical analysis pending the results of analysis of the shallow sample. However, based on the results of field screening, samples from various depths from each boring (S-1-4', S-2-2', S-3-8' and S-4-3') were selected for immediate analysis. The deeper of two (2) samples (B-1-3' and B-1-6') collected from the background boring B-1 was submitted for laboratory analytical testing.

4.1.3 Temporary Monitoring Well Groundwater Grab Sample Collection Procedures

To provide a preliminary assessment of potential impacts to shallow groundwater quality, boring S-3, located near the Trap Tank area, was extended to a depth of 15 ft bgs. A groundwater grab sample (S-3) was collected for analysis using a peristaltic pump and dedicated tubing. For this procedure, the drill rod was retracted and a temporary 1-inch-diameter PVC casing fitted with 5 feet of slotted screen was lowered through the drill rod to the bottom of the hole. Then polyethylene tubing was lowered down the drill rod to the water table encountered during drilling. The temporary well was purged using a peristaltic pump until field parameters stabilized at which point approximately 2-1/2 gallons of groundwater had been removed. Then the peristaltic pump was used to fill pre-cleaned containers provided by the analytical laboratory. Samples collected for metals analysis were filtered in the field using a 0.45-micron in-line filter. After sampling, the PVC casing was removed from the boring. The boring was then backfilled with bentonite pellets.

4.1.4 Direct Push Exploration Samples - Laboratory Analytical Testing

A total of ten (10) soil samples were collected during this field investigation for laboratory chemical testing. The soil samples were placed into pre-cleaned glass jars supplied by the laboratory and handled under appropriate chain of custody procedures. The five (5) soil and one (1) groundwater samples were placed in a cooler packed with blue ice and shipped via overnight courier service to Sequoia Analytical in Petaluma, California for laboratory analysis.

4.2 Permanent Monitoring Well Installation and Sampling

Monitoring well installation and groundwater sampling activities were completed on July 24, 2003. A GEOLOGICA Staff Geologist was present during all field activities and was responsible for: maintaining a boring log of each well boring; making detailed observations of site activities; and providing technical assistance. All soil samples were classified according to the Unified Soil Classification System (USCS). All field activities were completed under the direct supervision of GEOLOGICA's Certified Hydrogeologist, Brian Aubry.

4.2.1 Drilling and Well Installation

Monitoring well drilling and installation was performed by our drilling subcontractor, Boretech, Inc. of Bellevue, Washington, using a 5-inch hollow stem auger Acker Soil Mechanic drilling rig. A well completion diagram for monitoring well MW-1 is attached as **Appendix A**.

Prior to drilling, Underground Service Alert (USA) was notified to identify existing underground public utilities in the vicinity of the proposed boring locations. No obstructions were identified at the monitoring well location.

The June 30, 2003 proposal specified installation of a 2-inch groundwater monitoring well. However, due to access constraints encountered during the time of field activity, a 1-inch groundwater monitoring well was installed using a smaller rig. The monitoring well was drilled to a depth of 15 feet. Ten feet of 0.020-inch slot Schedule 40 PVC screen and five feet of blank casing were installed in the borehole. The annular space around the well screen was backfilled with a filter pack consisting of sized 3.0 Colorado Silica Sand emplaced to approximately 1 foot above the top of the slotted screen. Bentonite pellets were placed to within about 2.0 feet of the ground surface and hydrated as the seal. A flush mounted "Christy box" well vault was installed with a cement apron at the ground surface.

4.2.2 Groundwater Elevation Monitoring

The groundwater level in well MW-1 was measured using an electronic well sounder both prior to development on July 23 and prior to sampling on July 24, 2003. The depth to groundwater was recorded as 11.3 and 11.38 feet bgs, on July 23 and 24th, respectively.

4.2.3 Well development and Sampling

Immediately after installation, the well was developed using a high capacity MasterFlex model 7529-00 Peristaltic pump with dedicated 1/2-inch ID polyethylene tubing. Approximately 7-gallons were purged from the well during development on July 23, 2003. Groundwater parameters, including specific conductance, temperature, and pH were measured in the field during a second purging event the following day, immediately prior to sampling. A Hanna water quality meter was used to monitor

stabilization of field parameters before sample collection. Samples for dissolved metals analysis were filtered in the field using a 0.45-micron in-line filter.

4.2.4 Groundwater Analytical Testing

The groundwater sample collected from well MW-1 was stored in an ice-chest cooled with bagged ice and shipped via overnight courier under standard EPA chain of custody procedures to Sequoia Analytical in Petaluma, California for chemical analysis.

4.3 *Investigation-Derived Waste Management*

A four-point composite soil sample (Comp-1) was collected from cuttings produced during drilling of well MW-1 for waste-designation purposes. Well development and purge water and soil cuttings from monitoring well installation were contained in separate DOT-approved 55-gallon steel drums pending receipt of laboratory analytical testing results. No cuttings were produced from the direct push explorations.

5 Results of Field and Laboratory Testing

The results of both the March 2003 and the July 2003 Field Program are discussed together in the following sections.

5.1 *Subsurface Conditions*

5.1.1 Soil Conditions

Borings located inside the building encountered approximately 1-foot of pea gravel (fill) overlying dense silty sand that graded to sandy silt below a depth of 6 feet bgs.

5.1.2 Groundwater Conditions

Groundwater was encountered in monitoring well MW-1 at a depth of 11.3 to 11.4 feet bgs in July 2003. A site specific groundwater flow direction could not be determined during this investigation. Northeasterly groundwater flow has been reported in the site vicinity.

5.2 *Soil and Groundwater Analytical Testing Results*

Soil analytical testing results from the March 2003 direct push explorations are presented in Table 1. Groundwater analytical testing results from the temporary well sampled in March 2003 and the permanent well sampled in July 2003, located inside the building, are presented in Table 2. Laboratory analytical testing reports are presented in **Appendix B**. The following sections discuss testing results for each set of parameters tested.

5.2.1 Volatile Organic Compounds

No VOCs were detected in any of the soil or groundwater samples submitted for chemical analysis. Method reporting limits for each analyte are listed in **Appendix B**.

5.2.2 Total Petroleum Hydrocarbons

Soil - Diesel range organics (DRO) were detected in two of the soil samples (S-1-4' and S-2-2') collected below the floor of the Maintenance Room near the Trap Tank at concentrations of 6.4 and 5.5 milligrams per kilogram (mg/kg), respectively. These values are only slightly above the Method Reporting Limit (MRL) of 5 mg/kg. Motor oil and diesel range organics were detected at concentrations of 29 and 19 mg/kg, respectively, in the drill cuttings composite sample (comp-1) from well boring MW-1. These petroleum hydrocarbon detections are well below the MTCA Method A soil cleanup goal for unrestricted land use of 2,000 mg/kg (Table 1).

Groundwater - Motor oil and diesel range organics were detected in the groundwater grab sample collected from the temporary well casing in boring S-3 in March 2003 at concentrations of 420 and 580 micrograms per liter (ug/L), respectively. Motor oil and diesel range organics were also detected at concentrations of 320 and 430 ug/L, respectively, in the groundwater sample collected from monitoring well MW-1 which was completed by over-drilling boring S-3. The diesel concentration in the groundwater sample from the temporary well casing at S-3 was slightly above the MTCA Method A cleanup level of 500 ug/L (Table 1). However, both the motor oil and diesel concentrations in the permanent well, MW-1, installed at that location are below the Method A cleanup level. Because MW-1 was completed with a sand filter pack, and developed to remove fine-grained materials and improve hydraulic contact with the surrounding water-bearing zone, it is thought to provide data more representative of local groundwater quality than the temporary well casing S-3.

5.2.3 Metals

Soil - Seventeen (17) metals were tested in each of the soil samples. Of the 17 metals, antimony, arsenic, cadmium, lead, selenium, and thallium were not detected in any of the soil samples submitted for metals analysis above their respective method reporting limits, including the background sample. Concentrations of barium, beryllium, chromium, cobalt, copper, molybdenum, nickel, vanadium and zinc were either consistent with the background sample and/or were significantly less than their respective MTCA Method A or Method B cleanup levels or EPA Region 9 unrestricted residential and industrial soil Preliminary Remediation Goals (PRGs). Note, MTCA Method B direct contact cleanup levels were identified in Tables 1 and 2 for constituents for which Method A have not been established.

Silver concentrations ranged from non-detect at a method reporting limit of 0.5 mg/kg to 27 mg/kg in the soil samples collected from the interior of the building (S-series). Silver was not detected in the background soil sample. Although these results indicate some impact from silver usage at the site, even the highest concentration of silver meets the MTCA Method B cleanup goal of 400 mg/kg and the residential and industrial PRGs of 390 mg/kg and 5100 mg/kg, respectively.

Groundwater - Seventeen (17) metals were tested in the groundwater samples from the temporary well installed in borehole S-3 and permanent monitoring well MW-1 at the

same location inside the building. Additionally, to evaluate redox conditions in groundwater beneath the site, the groundwater sample from well MW-1 was analyzed for dissolved iron and manganese. Arsenic, barium, cobalt, nickel, selenium, vanadium, and zinc were detected in the groundwater grab sample from borehole S-3. Arsenic, barium, chromium (total), mercury, selenium, vanadium, iron, manganese, and zinc were detected in the groundwater sample from well MW-1. Concentrations of arsenic, barium, nickel, selenium, vanadium, and zinc were lower in the sample from the filter-packed well. The analytical laboratory obtained a lower detection limit for total chromium (2.7 ug/L) in the sample from MW-1 compared to the detection limit for the borehole sample and thus reported chromium at a concentration of 2.9 ug/L in the well sample only. Detection limits for arsenic and selenium increased from 5 to 100 ug/L between the S-3 and MW-1 samples. Consequently, we requested that the laboratory reanalyze the samples with lower detection limits (reported under column heading "Reanalysis" in Table 2).

Only arsenic, detected at concentrations of 97 and 23 ug/L, respectively, in groundwater samples from S-3 and MW-1, consistently exceeds MTCA Method A or B cleanup levels. The nickel concentration in the borehole S-3 grab sample (230 ug/L) exceeded the Washington state Board of Health Primary Maximum Contaminant Level (MCL) of 100 ug/L. The nickel concentration in the MW-1 sample (24 ug/L) was below the state Primary MCL. Selenium concentrations in the S-3 and reanalyzed MW-1 sample slightly exceed the EPA MCL of 50 ug/L. Iron and manganese were detected in the groundwater sample from MW-1 at concentrations of 63,000 and 2,300 ug/L, respectively. The iron concentration exceeds the Federal Secondary MCL of 300 ug/L based on esthetic qualities.

Nitrates and Sulfates - Nitrates and sulfates are common components of photofinishing chemicals. Nitrates were detected in two soil samples, including a detection at the method reporting limit of 2 mg/kg (S-1-4) and 160 mg/kg (S-2-2). Sulfate was detected at concentrations ranging from 24 to 670 mg/kg from all soil samples collected inside of the building. Sulfates were not detected above the method reporting limit in the outside boring. The nitrate concentrations in soil are well below the MTCA Method B direct contact value of 8,000 mg/kg. No Washington state cleanup levels were identified for sulfate in soil. There are no PRGs for nitrates and sulfates. Sulfate and nitrate were not detected above method reporting limits in the groundwater samples from boring S-3 or well MW-1.

Cyanide - Cyanide can be component of photofinishing chemicals although it was reportedly never used at this facility. Total cyanide was not detected in any of the soil or groundwater samples submitted for chemical analysis.

pH - The pH measurement was 7.48 in the soil sample collected outside of the building, and ranged from 6.58 to 8.37 in the soil samples collected from inside the building. The lower pH in some of these soil samples is consistent with those samples having a higher sulfate concentration.

5.3 Investigation-Derived Waste Management

Laboratory analytical testing results for a composite sample (Comp-1) of drill cuttings produced from well boring MW-1 are listed in Table 1. The chemical testing results were all well below Ecology cleanup levels indicating that the soil can be managed as a non-regulated waste. Groundwater purge water developed at the site may contain trace concentrations of several metals and petroleum hydrocarbons. The purge water may be suitable for discharge to the sanitary sewer.

6 Summary and Conclusions

This Phase II soil and groundwater sampling and analytical investigation indicated the presence of relatively low levels of silver and sulfate, and slightly lowered pH in soil beneath the site. Where possible, concentrations of constituents detected in soil and groundwater were compared to Washington state regulatory criteria and/or the federal EPA Region 9 PRGs to evaluate their significance.

- None of the soil sample chemical testing results exceeded state or federal cleanup levels.
- Lower concentrations of most analytes detected in groundwater were observed in the monitoring well MW-1 sample compared to the borehole grab sample S-3. This may be the result of better hydraulic contact with the surrounding formation afforded by the monitoring well sand pack and development, and/or natural seasonal variability between the March and July 2003 sampling events.
- Petroleum hydrocarbons were detected in groundwater samples at concentrations below MTCA Method A levels. The analytical laboratory quantified the hydrocarbons using diesel and motor oil standards. This may be related to discharge of oil containing compressor condensate to the sewer line and Trap Tank, where leakage was documented.
- Arsenic was detected in groundwater samples at concentrations of 23 to 97 ug/L, above the MTCA Method A cleanup level of 5 ug/L. Arsenic is not thought to have been handled on the site as part of photofinishing operations. However, arsenic naturally present in soil at low concentrations can be solubilized under reducing conditions. Iron and manganese are relatively insoluble in groundwater at the near neutral pH (6.57) observed at the site unless an oxygen deficient, reducing condition prevails. The presence of elevated concentrations of dissolved iron (63,000 ug/L) and manganese (2,300 ug/L) in the MW-1 sample indicates that site groundwater is strongly reducing. The presence of low concentrations of petroleum hydrocarbons in groundwater near MW-1 may contribute to creation of this reducing condition by providing "food" for microorganisms. Consequently, the arsenic concentrations observed in groundwater samples collected at the site most likely are the result of dissolution of natural soil arsenic. The soil-water partitioning coefficient of arsenic, 29 liter/kg (WAC 173-340-90, Table 747-3), is high enough that low concentrations of arsenic are unlikely to migrate with groundwater. A review of maps maintained by

the King County GIS Center indicated that no drinking water supply wells are located within ¼ mile of the site. The nearest surface water body, the Green River, is more than ½ mile west of the site. Therefore, the arsenic detection does not appear to be a significant risk to human health or the environment.

- Selenium was detected in both the S-3 and MW-1 groundwater samples. The selenium concentration in the monitoring well sample, 54 ug/L, is slightly above the EPA MCL of 50 ug/L. The selenium detection does not appear to be a significant risk to human health or the environment.

Soil sampling results indicated only trace concentrations of photofinishing chemical residuals in soil. Because photofinishing operations have been discontinued, no additional release of potential contaminants is expected. The two constituents of potential concern identified in groundwater at the site during the sampling and analysis program, arsenic and selenium, are most likely present as a result of natural conditions.

7 References

Environ, 1991, *Environmental Due Diligence Review*.

GEOLOGICA, 2003, *Report, Phase I Environmental Site Assessment, Kodak Processing Lab (KPL), 21249 72nd Avenue South, Kent, Washington*, prepared for NPEC, Inc., May 29, 2003.

Appendix A – Construction Log of Monitoring Well MW-1

Appendix B – Laboratory Analytical Testing Reports

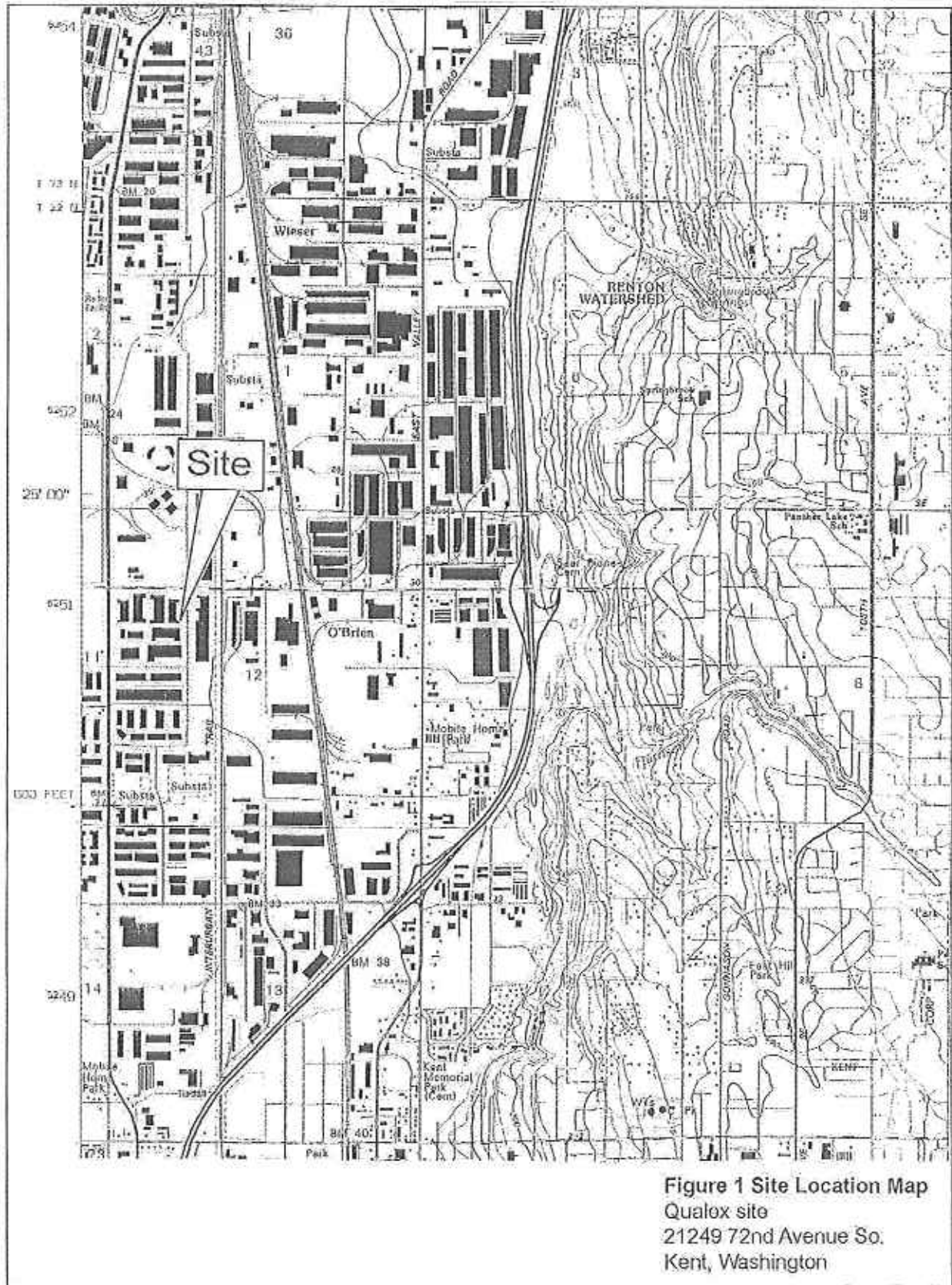


TABLE I

Summary of Soil Chemical Test Results March 2003

Laboratory Analytical Testing Method	Analyte	Units	Method Reporting Limit (MRL)	Back ground Boring Outside Building	Inside Qualex Building under trap tank (S-1, S-2, S-3) and Compressor Room (S-4)				MW-1 Auger Cuttings Sample	MTCA Cleanup Levels (1)	PRG's ²	
					S-1-4'	S-2-2'	S-3-8'	S-4-3			Residential	Industrial
8260B	VOCs	ug/kg	Various	-	*	*	*	*	*	Various	Various	Various
EPA 8015B	Motor Oil (C16-C36)	mg/kg	10	-	*	*	*	*	29	2000	-	-
	Diesel Range Organics	mg/kg	5	-	6.4	5.5	*	*	19	2000	-	-
	Gas Range Organics	mg/kg	1	-	*	*	*	*	*	30	-	-
EPA 6010-7000	Antimony	mg/kg	5.7	*	*	*	*	*	*	32(B)	31	820
	Arsenic	mg/kg	9.4	*	*	*	*	*	*	20	0.39	2.7
	Barium	mg/kg	0.9	38	56	38	43	41	160	5600(B)	5400	10000
	Beryllium	mg/kg	0.1	0.25	0.3	0.22	0.26	0.23	0.71	2	150	2200
	Cadmium	mg/kg	0.9	*	*	*	*	*	*	40(B)	37	810
	Chromium (Total)	mg/kg	0.9	16	13	21	9.6	17	15	1972000(6)	210	450
	Cobalt	mg/kg	0.7	4.6	5.5	4.1	4.1	3	1.9	-	4700	10000
	Copper	mg/kg	1.9	10	21	13	15	57	7.7	2900(B)	2900	76000
	Lead	mg/kg	7.1	*	*	*	*	*	7.8	250	400	750
	Mercury	mg/kg	0.02	0.021	0.027	0.033	0.035	0.034	0.027	2	23	610
	Molybdenum	mg/kg	2.4	3.8	*	*	7.1	8.5	*	400(B)	390	10000
	Nickel	mg/kg	2.8	17	12	18	10	18	4.8	*	1800	41000
	Selenium	mg/kg	9.4	*	*	*	*	*	*	400(B)	390	10000
	Silver	mg/kg	0.7	*	*	3.6	*	27	0.97	400(B)	390	10000
	Thallium	mg/kg	9.4	*	*	*	*	*	*	5.6(B)	5.2	130
	Vanadium	mg/kg	0.9	31	36	27	34	29	22	5600(B)	550	14000
	Zinc	mg/kg	1.9	23	29	21	28	20	27	24000(B)	23000	100000
EPA 500.0	Nitrate as N	ug/kg	2.0	*	2	160	*	*	6.8	8000(B)	*	*
EPA 500.0	Sulfate as SO4	ug/kg	10.0	*	120	670	24	210	240	*	*	*
EPA 9045C	pH	S.U.	7.48	8.23	7.26	6.58	8.37	8.05	*	*	*	*
EPA 535.2	Total Cyanide	mg/kg	0.5	*	*	*	*	*	*	1600(B)	11	35

Notes

- 1) Model Toxics Control Act (MTCA) Cleanup Regulation Chapter 173-340 WAC Method A Cleanup Levels for unrestricted land use, Washington State Department of Ecology Toxics Cleanup Program (2001).
- 2) EPA (2000) Region IX Preliminary Remediation Goals (PRGs).
- 3) B = Method A cleanup level not identified, MTCA Method B cleanup level for protection from direct contact.
- 4) * = Not detected at the MRL.
- 5) - = not analyzed or not available.
- 6) Regulatory standards for total chromium not established. Numbers shown are for Chromium VI/Chromium II.
- 7) Free Cyanide value. Total cyanide may not be representative of free cyanide.

Table 2

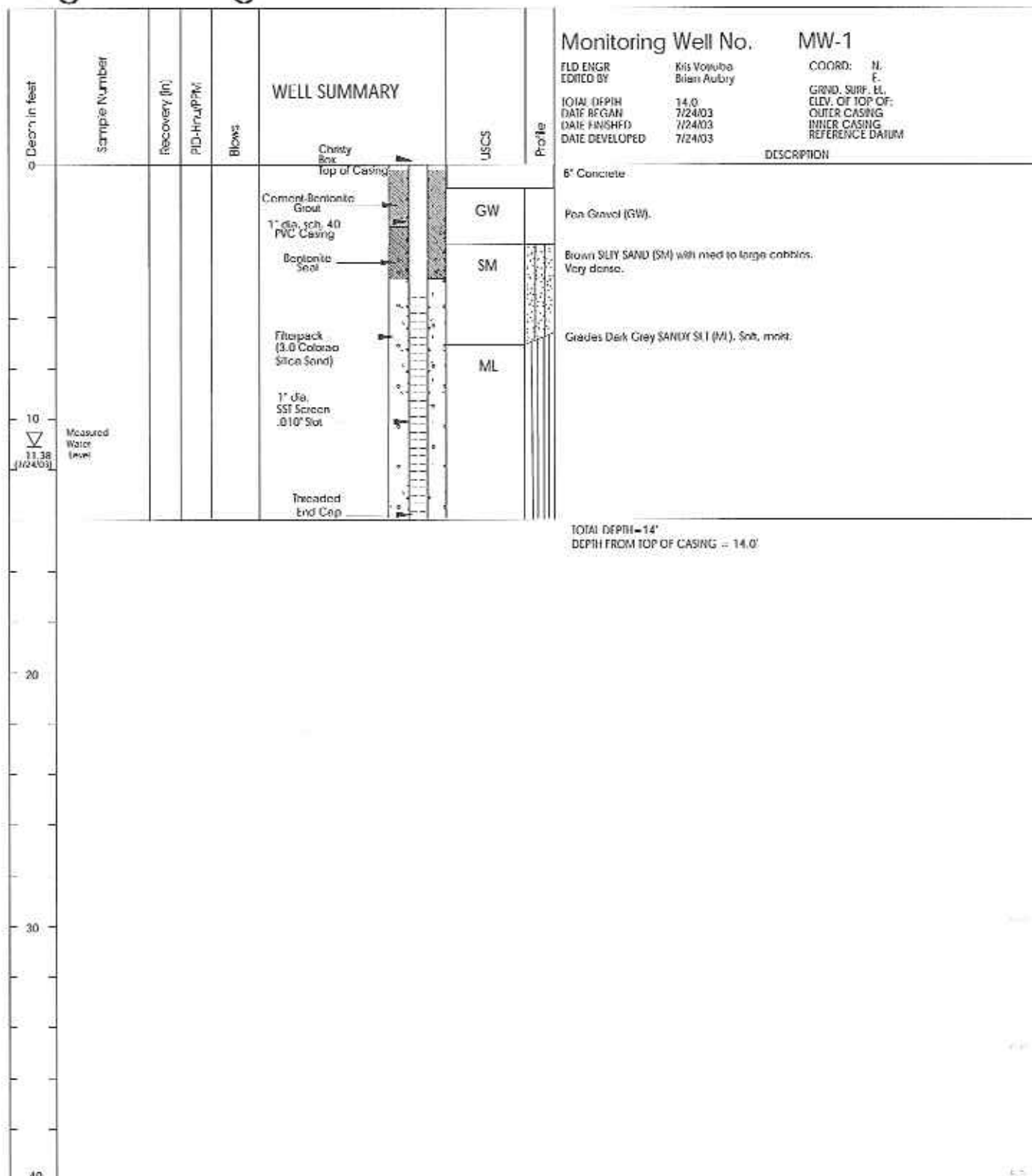
Summary of Groundwater Chemical Test Results March 2003

Method Sample Date	Analyte	Units	Method Reporting Limit (MRL)	Trap Tank Area			MTCA Cleanup Levels (1)	EPA Drinking Water MCL ²⁰
				S-3	MW-1-072-403	Remediation		
82160B	VOCs	ug/l	Various	*	*	-	Various	-
EPA 801.5	Motor Oil Range Organics	ug/l	250	420	320	-	500	-
	Diesel Range Organics	ug/l	50	580	430	-	500	-
	Gasoline Range Organics	ug/l	50	*	*	-	800	-
EPA 601.0/7000	Antimony	ug/l	5.0	*	*	-	6.4(B)	6
	Arsenic	ug/l	5 - 9.6	97	21(R)	23	5	50
	Barium	ug/l	10	86	39	-	112(B)	2000
	Beryllium	ug/l	4.0	*	*	-	32(B)	4
	Cadmium	ug/l	1.0	4.9	*	-	5	5
	Chromium (Total)	ug/l	10	*	2.9	-	50	100
	Cobalt	ug/l	7.0	7.1	*	-	-	-
	Copper	ug/l	10	*	*	-	592(B)	1300
	Iron	ug/L	51	-	63,000	-	-	300(7)
	Lead	ug/l	3.0	*	*	-	15	15
	Manganese	ug/L	0.7	-	2,300	-	224(B)	50(7)
	Mercury	ug/l	0.2	*	0.22	-	2	2
	Molybdenum	ug/l	20	*	*	-	80(B)	-
	Nickel	ug/l	10	230	24	-	100(B)	-
	Selenium	ug/l	5 - 9.6	170	*(R)	54	80(B)	50
	Silver	ug/l	1.0	*	*	-	80(B)	100(7)
	Thallium	ug/l	1.0	*	*	-	1.12(B)	2
	Vanadium	ug/l	10	39	15	-	112(B)	-
	Zinc	ug/l	20	34	14	-	4800(B)	5000(7)
EPA 330.0	Nitrate as N	mg/l	1.0	*	*	-	1600(B)	10000
EPA 330.0	Sulfate as SO4	mg/l	1.0	*	*	-	-	250,000(7)
EPA 335.4	Total Cyanide	mg/l	0.005	*	*	-	320(B)	200 (9)
EPA 150.1	pH	mg/l	-	6.57	-	-	-	6.5 - 8.5(7)

Notes:

- 1) Model Toxics Control Act (MTCA) Cleanup Regulation Chapter 173-340 WAC Method A Cleanup Levels for unrestricted land use, Washington State Department of Ecology Toxics Cleanup Program (2001).
- 2) EPA (2001) Maximum Contaminant Levels (MCLs) National Primary Drinking Water Standards, March 2001.
- 3) * = Not detected at the Method Reporting Limit.
- 4) B = Method A cleanup level not identified, MTCA Method B cleanup level for protection from direct contact.
- 5) R = Reporting Limits Raised. The sample Detection and Reporting Limit were raised due to sample foaming.
- 6) - = not analyzed or not available.
- 7) National Secondary Drinking Water Regulation for cosmetic and/or aesthetic effects.
- 8) Washington State Department of Health, Board of Health, Primary Maximum Contaminant Level.
- 9) Value is for Free cyanide. Total cyanide may not be representative of free cyanide.

Log of Boring/Well Construction



DRILLING Co.: Bortech, Inc.
 DRILL METHOD: 5" Hollow Stem Auger
 CLIENT: NPEC, Inc.

Phase II Environmental Site Assessment
 Former Kodak Processing Lab (KPL)
 21249 72nd Avenue South
 Kent, Washington

geologica

Figure A-1



**Sequoia
Analytical**

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

10 April, 2003

Brian Aubry
Geologica Inc.
703 Market St., Ste 609
San Francisco, CA 94103

RE: Qualox Kent, WA
Sequoia Work Order: P303395

Enclosed are the results of analyses for samples received by the laboratory on 03/25/03 10:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angelee Cari
Project Manager

CA ELAP Certificate #2374



Geologica Inc.
703 Market St., Ste 609
San Francisco CA, 94103

Project: Qualcx Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P303395
Reported:
04/10/03 18:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-3	P303395-01	Water	03/24/03 12:00	03/25/03 10:00
B-1-3'	P303395-02	Soil	03/24/03 12:00	03/25/03 10:00
B-1-6'	P303395-03	Soil	03/24/03 12:00	03/25/03 10:00
S-1-2'	P303395-04	Soil	03/24/03 12:00	03/25/03 10:00
S-1-4'	P303395-05	Soil	03/24/03 12:00	03/25/03 10:00
S-2-2'	P303395-06	Soil	03/24/03 12:00	03/25/03 10:00
S-3-2'	P303395-07	Soil	03/24/03 12:00	03/25/03 10:00
S-3-4'	P303395-08	Soil	03/24/03 12:00	03/25/03 10:00
S-3-8'	P303395-09	Soil	03/24/03 12:00	03/25/03 10:00
S-4-3'	P303395-10	Soil	03/24/03 12:00	03/25/03 10:00
S-4-6'	P303395-11	Soil	03/24/03 12:00	03/25/03 10:00



Geologica Inc.
703 Market St., Ste 609
San Francisco CA, 94103

Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P303395
Reported:
04/10/03 18:47

Total Petroleum Hydrocarbons as Gasoline by EPA 8015B

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-3 (P303395-01) Water Sampled: 03/24/03 12:00 Received: 03/25/03 10:00									
Gasoline Range Organics	ND	50	ug/l	1	3030542	03/26/03	03/26/03	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		98 %	65-135		"	"	"	"	
S-1-4' (P303395-05) Soil Sampled: 03/24/03 12:00 Received: 03/25/03 10:00									
Gasoline Range Organics	ND	1000	ug/kg	1	3040083	04/03/03	04/03/03	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		113 %	65-135		"	"	"	"	
S-2-2' (P303395-06) Soil Sampled: 03/24/03 12:00 Received: 03/25/03 10:00									
Gasoline Range Organics	ND	1000	ug/kg	1	3040083	04/03/03	04/03/03	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		111 %	65-135		"	"	"	"	
S-3-8' (P303395-09) Soil Sampled: 03/24/03 12:00 Received: 03/25/03 10:00									
Gasoline Range Organics	ND	1000	ug/kg	1	3040083	04/03/03	04/03/03	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		106 %	65-135		"	"	"	"	
S-4-3' (P303395-10) Soil Sampled: 03/24/03 12:00 Received: 03/25/03 10:00									
Gasoline Range Organics	ND	1000	ug/kg	1	3040083	04/03/03	04/03/03	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		110 %	65-135		"	"	"	"	

Geologica Inc.
703 Market St., Ste 609
San Francisco CA, 94103

Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P303395
Reported:
04/10/03 18:47

Total Petroleum Hydrocarbons as Diesel & others by EPA 8015B
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-3 (P303395-01) Water Sampled: 03/24/03 12:00 Received: 03/25/03 10:00									HT-03
Diesel Range Organics (C10-C28)	0.58	0.050	mg/l	1	3040013	04/02/03	04/07/03	EPA 8015B-SVOA	
Motor Oil Range Organics (C24-C36)	0.42	0.25	"	"	"	"	"	"	
Surrogate: Octacosane		57 %	50-150		"	"	"	"	
S-1-4' (P303395-05) Soil Sampled: 03/24/03 12:00 Received: 03/25/03 10:00									
Diesel Range Organics (C10-C28)	6.4	5.0	mg/kg	1	3030625	04/02/03	04/03/03	EPA 8015B-SVOA	
Motor Oil Range Organics (C24-C36)	ND	10	"	"	"	"	"	"	
Surrogate: Octacosane		104 %	50-150		"	"	"	"	
S-2-2' (P303395-06) Soil Sampled: 03/24/03 12:00 Received: 03/25/03 10:00									
Diesel Range Organics (C10-C28)	5.5	5.0	mg/kg	1	3030625	04/02/03	04/03/03	EPA 8015B-SVOA	
Motor Oil Range Organics (C24-C36)	ND	10	"	"	"	"	"	"	
Surrogate: Octacosane		97 %	50-150		"	"	"	"	
S-3-8' (P303395-09) Soil Sampled: 03/24/03 12:00 Received: 03/25/03 10:00									
Diesel Range Organics (C10-C28)	ND	5.0	mg/kg	1	3030625	04/02/03	04/03/03	EPA 8015B-SVOA	
Motor Oil Range Organics (C24-C36)	ND	10	"	"	"	"	"	"	
Surrogate: Octacosane		96 %	50-150		"	"	"	"	
S-4-3' (P303395-10) Soil Sampled: 03/24/03 12:00 Received: 03/25/03 10:00									
Diesel Range Organics (C10-C28)	ND	5.0	mg/kg	1	3030625	04/02/03	04/03/03	EPA 8015B-SVOA	
Motor Oil Range Organics (C24-C36)	ND	10	"	"	"	"	"	"	
Surrogate: Octacosane		90 %	50-150		"	"	"	"	



Geologica Inc.
703 Market St., Ste 609
San Francisco CA, 94103

Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P303395
Reported:
04/10/03 18:47

Total Metals by EPA 6000/7000 Series Methods

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-1-6' (P303395-03) Soil Sampled: 03/24/03 12:00 Received: 03/25/03 10:00									
Mercury	0.021	0.019	mg/kg	1	3030546	04/02/03	04/03/03	EPA 7471A	
Antimony	ND	5.6	"	"	3030562	03/26/03	04/04/03	EPA 6010B	
Arsenic	ND	9.3	"	"	"	"	"	"	
Barium	38	0.93	"	"	"	"	"	"	
Beryllium	0.23	0.093	"	"	"	"	"	"	
Cadmium	ND	0.93	"	"	"	"	"	"	
Chromium	16	0.93	"	"	"	"	"	"	
Cobalt	4.6	0.65	"	"	"	"	"	"	
Copper	10	1.9	"	"	"	"	"	"	
Lead	ND	6.9	"	"	"	"	"	"	
Molybdenum	3.8	2.3	"	"	"	"	"	"	
Nickel	17	2.8	"	"	"	"	"	"	
Selenium	ND	9.3	"	"	"	"	"	"	
Silver	ND	0.65	"	"	"	"	"	"	
Thallium	ND	9.3	"	"	"	"	"	"	
Vanadium	31	0.93	"	"	"	"	"	"	
Zinc	23	1.9	"	"	"	"	"	"	
S-1-4' (P303395-05) Soil Sampled: 03/24/03 12:00 Received: 03/25/03 10:00									
Mercury	0.027	0.019	mg/kg	1	3030546	04/02/03	04/03/03	EPA 7471A	
Antimony	ND	5.7	"	"	3030562	03/26/03	04/04/03	EPA 6010B	
Arsenic	ND	9.4	"	"	"	"	"	"	
Barium	56	0.94	"	"	"	"	"	"	
Beryllium	0.30	0.094	"	"	"	"	"	"	
Cadmium	ND	0.94	"	"	"	"	"	"	
Chromium	13	0.94	"	"	"	"	"	"	
Cobalt	5.5	0.66	"	"	"	"	"	"	
Copper	21	1.9	"	"	"	"	"	"	
Lead	ND	7.1	"	"	"	"	"	"	
Molybdenum	ND	2.4	"	"	"	"	"	"	
Nickel	12	2.8	"	"	"	"	"	"	
Selenium	ND	9.4	"	"	"	"	"	"	
Silver	ND	0.66	"	"	"	"	"	"	
Thallium	ND	9.4	"	"	"	"	"	"	
Vanadium	36	0.94	"	"	"	"	"	"	
Zinc	29	1.9	"	"	"	"	"	"	



Geologica Inc.
703 Market St., Ste 609
San Francisco CA, 94103

Project: Quinlex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P303395
Reported:
04/10/03 18:47

**Total Metals by EPA 6000/7000 Series Methods
Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-2-2' (P303395-06) Soil Sampled: 03/24/03 12:00 Received: 03/25/03 10:00									
Mercury	0.033	0.020	mg/kg	1	3030546	04/02/03	04/03/03	EPA 7471A	
Antimony	ND	5.2	"	"	3030562	03/26/03	04/04/03	EPA 6010B	
Arsenic	ND	8.6	"	"	"	"	"	"	
Barium	38	0.86	"	"	"	"	"	"	
Beryllium	0.22	0.086	"	"	"	"	"	"	
Cadmium	ND	0.86	"	"	"	"	"	"	
Chromium	21	0.86	"	"	"	"	"	"	
Cobalt	4.1	0.60	"	"	"	"	"	"	
Copper	13	1.7	"	"	"	"	"	"	
Lead	ND	6.5	"	"	"	"	"	"	
Molybdenum	ND	2.2	"	"	"	"	"	"	
Nickel	18	2.6	"	"	"	"	"	"	
Selenium	ND	8.6	"	"	"	"	"	"	
Silver	3.6	0.60	"	"	"	"	"	"	
Thallium	ND	8.6	"	"	"	"	"	"	
Vanadium	27	0.86	"	"	"	"	"	"	
Zinc	21	1.7	"	"	"	"	"	"	
S-3-8' (P303395-09) Soil Sampled: 03/24/03 12:00 Received: 03/25/03 10:00									
Mercury	0.055	0.018	mg/kg	1	3030546	04/02/03	04/03/03	EPA 7471A	
Antimony	ND	5.3	"	"	3030562	03/26/03	04/04/03	EPA 6010B	
Arsenic	ND	8.8	"	"	"	"	"	"	
Barium	43	0.88	"	"	"	"	"	"	
Beryllium	0.26	0.088	"	"	"	"	"	"	
Cadmium	ND	0.88	"	"	"	"	"	"	
Chromium	9.6	0.88	"	"	"	"	"	"	
Cobalt	4.1	0.61	"	"	"	"	"	"	
Copper	15	1.8	"	"	"	"	"	"	
Lead	ND	6.6	"	"	"	"	"	"	
Molybdenum	7.1	2.2	"	"	"	"	"	"	
Nickel	10	2.6	"	"	"	"	"	"	
Selenium	ND	8.8	"	"	"	"	"	"	
Silver	ND	0.61	"	"	"	"	"	"	
Thallium	ND	8.8	"	"	"	"	"	"	
Vanadium	34	0.88	"	"	"	"	"	"	
Zinc	28	1.8	"	"	"	"	"	"	



Geologica Inc.
703 Market St., Ste 609
San Francisco CA, 94103

Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P303395
Reported:
04/10/03 18:47

Total Metals by EPA 6000/7000 Series Methods
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-4-3' (P303395-10) Soil Sampled: 03/24/03 12:00 Received: 03/25/03 10:00									
Mercury	0.024	0.020	mg/kg	1	3030546	04/02/03	04/03/03	EPA 7471A	
Antimony	ND	5.8	"	"	3030562	03/26/03	04/04/03	EPA 6010B	
Arsenic	ND	9.6	"	"	"	"	"	"	
Barium	41	0.96	"	"	"	"	"	"	
Beryllium	0.23	0.096	"	"	"	"	"	"	
Cadmium	ND	0.96	"	"	"	"	"	"	
Chromium	17	0.96	"	"	"	"	"	"	
Cobalt	3.0	0.67	"	"	"	"	"	"	
Copper	57	1.9	"	"	"	"	"	"	
Lead	ND	7.2	"	"	"	"	"	"	
Molybdenum	8.5	2.4	"	"	"	"	"	"	
Nickel	18	2.9	"	"	"	"	"	"	
Selenium	ND	9.6	"	"	"	"	"	"	
Silver	27	0.67	"	"	"	"	"	"	
Thallium	ND	9.6	"	"	"	"	"	"	
Vanadium	29	0.96	"	"	"	"	"	"	
Zinc	20	1.9	"	"	"	"	"	"	



Geologica Inc.
703 Market St., Ste 609
San Francisco CA, 94103

Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P303395
Reported:
04/10/03 18:47

**Dissolved Metals by EPA 6000/7000 Series Methods
Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-3 (P303395-01) Water Sampled: 03/24/03 12:00 Received: 03/25/03 10:00									
Mercury	ND	0.20	ug/l	1	3030583	04/04/03	04/07/03	EPA 7470A	
Antimony	ND	5.0	"	"	3030561	04/02/03	04/03/03	EPA 6020	
Arsenic	97	5.0	"	"	"	"	"	"	
Barium	86	10	"	"	"	"	"	"	
Beryllium	ND	4.0	"	"	"	"	"	"	
Cadmium	4.9	1.0	"	"	"	"	"	"	
Chromium	ND	10	"	"	"	"	"	"	
Cobalt	7.1	7.0	"	"	"	"	"	"	
Copper	ND	10	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	20	"	"	"	"	"	"	
Nickel	230	10	"	"	"	"	"	"	
Selenium	170	5.0	"	"	"	"	"	"	
Silver	ND	1.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	39	10	"	"	"	"	"	"	
Zinc	34	20	"	"	"	"	"	"	

Geologica Inc.
703 Market St., Ste 609
San Francisco CA, 94103

Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P303395
Reported:
04/10/03 18:47

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-3 (P303395-01) Water Sampled: 03/24/03 12:00 Received: 03/25/03 10:00									R-04
Acetone	ND	100	ug/l	10	3040132	04/04/03	04/04/03	EPA 8260B	
Benzene	ND	10	"	"	"	"	"	"	
Bromobenzene	ND	10	"	"	"	"	"	"	
Bromochloromethane	ND	10	"	"	"	"	"	"	
Bromodichloromethane	ND	10	"	"	"	"	"	"	
Bromoform	ND	10	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
n-Butylbenzene	ND	10	"	"	"	"	"	"	
sec-Butylbenzene	ND	10	"	"	"	"	"	"	
tert-Butylbenzene	ND	10	"	"	"	"	"	"	
Carbon disulfide	ND	100	"	"	"	"	"	"	
Carbon tetrachloride	ND	10	"	"	"	"	"	"	
Chlorobenzene	ND	10	"	"	"	"	"	"	
Chloroethane	ND	10	"	"	"	"	"	"	
Chloroform	ND	10	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
2-Chlorotoluene	ND	10	"	"	"	"	"	"	
4-Chlorotoluene	ND	10	"	"	"	"	"	"	
Dibromochloromethane	ND	10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	10	"	"	"	"	"	"	
Dibromomethane	ND	10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	10	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	10	"	"	"	"	"	"	
1,2-Dichloroethane	ND	10	"	"	"	"	"	"	
1,1-Dichloroethene	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
1,3-Dichloropropane	ND	10	"	"	"	"	"	"	
2,2-Dichloropropane	ND	10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	10	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Freon 113	ND	10	"	"	"	"	"	"	

Sequoia Analytical - Petaluma

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Geologica Inc.
703 Market St., Ste 609
San Francisco CA, 94103

Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P303395
Reported:
04/10/03 18:47

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-3 (P303395-01) Water Sampled: 03/24/03 12:00 Received: 03/25/03 10:00									R-04
Hexachlorobutadiene	ND	10	ug/l	10	3040132	04/04/03	04/04/03	EPA 8260B	
2-Hexanone	ND	100	"	"	"	"	"	"	
Isopropylbenzene	ND	10	"	"	"	"	"	"	
p-Isopropyltoluene	ND	10	"	"	"	"	"	"	
Methylene chloride	ND	10	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	10	"	"	"	"	"	"	
Naphthalene	ND	10	"	"	"	"	"	"	
n-Propylbenzene	ND	10	"	"	"	"	"	"	
Styrene	ND	10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	10	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	10	"	"	"	"	"	"	
Tetrachloroethene	ND	10	"	"	"	"	"	"	
Toluene	ND	10	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	10	"	"	"	"	"	"	
Trichloroethene	ND	10	"	"	"	"	"	"	
Trichlorofluoromethane	ND	10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	10	"	"	"	"	"	"	
Vinyl acetate	ND	200	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	10	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		98 %	84-122		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		105 %	74-135		"	"	"	"	
Surrogate: Toluene-d8		104 %	84-119		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99 %	86-119		"	"	"	"	



Geologica Inc.
703 Market St., Ste 609
San Francisco CA, 94103

Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P303395
Reported:
04/10/03 18:47

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-1-4' (P303395-05) Soil Sampled: 03/24/03 12:00 Received: 03/25/03 10:00									
Acetone	ND	50	ug/kg	1	3040167	04/07/03	04/07/03	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	10	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon disulfide	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
2-Chloroethylvinyl ether	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	

Sequoia Analytical - Petaluma

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Geologica Inc.
703 Market St., Ste 609
San Francisco CA, 94103

Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P303395
Reported:
04/10/03 18:47

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-1-4' (P303395-05) Soil Sampled: 03/24/03 12:00 Received: 03/25/03 10:00									
Freon 113	ND	5.0	ug/kg	1	3040167	04/07/03	04/07/03	EPA 8260B	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
2-Hexanone	ND	10	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	10	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	10	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		91 %	81-126	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		92 %	73-131	"	"	"	"	"	
Surrogate: Toluene-d8		95 %	82-129	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94 %	74-131	"	"	"	"	"	

Geologica Inc.
703 Market St., Ste 609
San Francisco CA, 94103

Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P303395
Reported:
04/10/03 18:47

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-2-2' (P303395-06) Soil Sampled: 03/24/03 12:00 Received: 03/25/03 10:00									
Acetone	ND	50	ug/kg	1	3040167	04/07/03	04/07/03	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	10	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon disulfide	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
2-Chloroethylvinyl ether	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	

Sequoia Analytical - Petaluma

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Geologica Inc.
703 Market St., Ste 609
San Francisco CA, 94103

Project: Qualox Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P303395
Reported:
04/10/03 18:47

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-2-2' (P303395-06) Soil Sampled: 03/24/03 12:00 Received: 03/25/03 10:00									
Freon 113	ND	5.0	ug/kg	1	3040167	04/07/03	04/07/03	EPA 8260B	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
2-Hexanone	ND	10	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	10	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	10	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		95 %	81-126	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		95 %	73-131	"	"	"	"	"	
Surrogate: Toluene-d8		106 %	82-129	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91 %	74-131	"	"	"	"	"	



Geologica Inc.
703 Market St., Ste 609
San Francisco CA, 94103

Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P303395
Reported:
04/10/03 18:47

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-3-8' (P303395-09) Soil Sampled: 03/24/03 12:00 Received: 03/25/03 10:00									
Acetone	ND	50	ug/kg	1	30-10167	04/07/03	04/07/03	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	10	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon disulfide	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
2-Chloroethylvinyl ether	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	

Sequoia Analytical - Petaluma

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Geologica Inc.
703 Market St., Ste 609
San Francisco CA, 94103

Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P303395
Reported:
04/10/03 18:47

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-3-8' (P303395-09) Soil Sampled: 03/24/03 12:00 Received: 03/25/03 10:00									
Freon 113	ND	5.0	ug/kg	1	3040167	04/07/03	04/07/03	EPA 8260B	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
2-Hexanone	ND	10	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	10	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	10	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		90 %	81-126	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		91 %	73-131	"	"	"	"	"	
Surrogate: Toluene-d8		96 %	82-129	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92 %	74-131	"	"	"	"	"	



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Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-4-3' (P303395-10) Soil Sampled: 03/24/03 12:00 Received: 03/25/03 10:00									
Acetone	ND	50	ug/kg	1	3040167	04/07/03	04/07/03	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	10	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon disulfide	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
2-Chloroethylvinyl ether	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromochloroethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	

Sequoia Analytical - Petaluma

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San Francisco CA, 94103

Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P303395
Reported:
04/10/03 18:47

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-4-3' (P303395-10) Soil Sampled: 03/24/03 12:00 Received: 03/25/03 10:00									
Freon 113	ND	5.0	ug/kg	1	3040167	04/07/03	04/07/03	EPA 8260B	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
2-Hexanone	ND	10	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	10	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	10	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		91 %	81-126	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		91 %	73-131	"	"	"	"	"	
Surrogate: Toluene-d8		93 %	82-129	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94 %	74-131	"	"	"	"	"	

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P303395
Reported:
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Conventional Chemistry Parameters by APHA/EPA Methods

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-3 (P303395-01) Water Sampled: 03/24/03 12:00 Received: 03/25/03 10:00									
Cyanide (total)	ND	0.0050	mg/l	1	3040118	04/04/03	04/04/03	EPA 335.2	
pH	6.57	2.00	pH Units	"	3030555	03/25/03	03/25/03	EPA 150.1	HT-01
B-1-6' (P303395-03) Soil Sampled: 03/24/03 12:00 Received: 03/25/03 10:00									
Cyanide (total)	ND	0.49	mg/kg	1	3040146	04/07/03	04/07/03	EPA 335.2	
pH	7.48	2.00	pH Units	"	3030554	03/25/03	03/25/03	EPA 9045C	HT-01
S-1-4' (P303395-05) Soil Sampled: 03/24/03 12:00 Received: 03/25/03 10:00									
Cyanide (total)	ND	0.43	mg/kg	1	3040146	04/07/03	04/07/03	EPA 335.2	
pH	8.23	2.00	pH Units	"	3030554	03/25/03	03/25/03	EPA 9045C	HT-01
S-2-2' (P303395-06) Soil Sampled: 03/24/03 12:00 Received: 03/25/03 10:00									
Cyanide (total)	ND	0.41	mg/kg	1	3040146	04/07/03	04/07/03	EPA 335.2	
pH	7.26	2.00	pH Units	"	3030554	03/25/03	03/25/03	EPA 9045C	HT-01
S-3-8' (P303395-09) Soil Sampled: 03/24/03 12:00 Received: 03/25/03 10:00									
Cyanide (total)	ND	0.44	mg/kg	1	3040146	04/07/03	04/07/03	EPA 335.2	
pH	6.58	2.00	pH Units	"	3030554	03/25/03	03/25/03	EPA 9045C	HT-01
S-4-3' (P303395-10) Soil Sampled: 03/24/03 12:00 Received: 03/25/03 10:00									
Cyanide (total)	ND	0.40	mg/kg	1	3040146	04/07/03	04/07/03	EPA 335.2	
pH	8.37	2.00	pH Units	"	3030554	03/25/03	03/25/03	EPA 9045C	HT-01

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P303395
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Anions by EPA Method 300.0

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-3 (P303395-01) Water Sampled: 03/24/03 12:00 Received: 03/25/03 10:00									
Nitrate as N	ND	1.0	mg/l	5	3040196	03/25/03	03/25/03	EPA 300.0	
Sulfate as SO4	ND	1.0	"	1	3040199	04/09/03	04/09/03	"	
B-1-6' (P303395-03) Soil Sampled: 03/24/03 12:00 Received: 03/25/03 10:00									
Nitrate as N	ND	2.0	mg/kg	1	3040197	03/25/03	03/25/03	EPA 300.0	
Sulfate as SO4	ND	10	"	"	3040200	04/08/03	04/08/03	"	
S-1-4' (P303395-05) Soil Sampled: 03/24/03 12:00 Received: 03/25/03 10:00									
Nitrate as N	2.0	2.0	mg/kg	1	3040197	03/25/03	03/25/03	EPA 300.0	
Sulfate as SO4	120	10	"	"	3040200	04/08/03	04/08/03	"	
S-2-2' (P303395-06) Soil Sampled: 03/24/03 12:00 Received: 03/25/03 10:00									
Nitrate as N	160	2.0	mg/kg	1	3040197	03/25/03	03/25/03	EPA 300.0	
Sulfate as SO4	670	500	"	50	3040200	04/08/03	04/08/03	"	
S-3-8' (P303395-09) Soil Sampled: 03/24/03 12:00 Received: 03/25/03 10:00									
Nitrate as N	ND	2.0	mg/kg	1	3040197	03/25/03	03/25/03	EPA 300.0	
Sulfate as SO4	24	10	"	"	3040200	04/08/03	04/08/03	"	
S-4-3' (P303395-10) Soil Sampled: 03/24/03 12:00 Received: 03/25/03 10:00									
Nitrate as N	ND	2.0	mg/kg	1	3040197	03/25/03	03/25/03	EPA 300.0	
Sulfate as SO4	210	10	"	"	3040200	04/08/03	04/08/03	"	



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Total Petroleum Hydrocarbons as Gasoline by EPA 8015B - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3030542 - EPA 5030, waters										
Blank (3030542-BLK1)				Prepared & Analyzed: 03/26/03						
Gasoline Range Organics	ND	50	ug/l							
Surrogate: 4-Bromofluorobenzene	303		"	300		101	65-135			
Laboratory Control Sample (3030542-BS1)				Prepared & Analyzed: 03/26/03						
Gasoline Range Organics	2550	50	ug/l	2750		93	65-135			
Surrogate: 4-Bromofluorobenzene	321		"	300		107	65-135			
Matrix Spike (3030542-MS1)				Source: P303387-01		Prepared & Analyzed: 03/26/03				
Gasoline Range Organics	2470	50	ug/l	2750	18	89	65-135			
Surrogate: 4-Bromofluorobenzene	311		"	300		104	65-135			
Matrix Spike Dup (3030542-MSD1)				Source: P303387-01		Prepared & Analyzed: 03/26/03				
Gasoline Range Organics	2480	50	ug/l	2750	18	90	65-135	0.4	20	
Surrogate: 4-Bromofluorobenzene	312		"	300		104	65-135			
Batch 3040083 - EPA 5030, soils										
Blank (3040083-BLK1)				Prepared & Analyzed: 04/03/03						
Gasoline Range Organics	ND	1000	ug/kg							
Surrogate: 4-Bromofluorobenzene	308		"	279		110	65-135			
Laboratory Control Sample (3040083-BS1)				Prepared & Analyzed: 04/03/03						
Gasoline Range Organics	2180	1000	ug/kg	2750		79	65-135			
Surrogate: 4-Bromofluorobenzene	331		"	279		119	65-135			
Matrix Spike (3040083-MS1)				Source: P304038-07		Prepared & Analyzed: 04/03/03				
Gasoline Range Organics	2180	1000	ug/kg	2750	25	78	65-135			

Sequoia Analytical - Petaluma

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Total Petroleum Hydrocarbons as Gasoline by EPA 8015B - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3040083 - EPA 5030, soils										
Matrix Spike (3040083-MS1)		Source: P304038-07			Prepared & Analyzed: 04/03/03					
Surrogate: 4-Bromofluorobenzene	328		ug/kg	279		118	65-135			
Matrix Spike Dup (3040083-MSD1)		Source: P304038-07			Prepared & Analyzed: 04/03/03					
Gasoline Range Organics	1980	1000	ug/kg	2750	25	71	65-135	10	20	
Surrogate: 4-Bromofluorobenzene	320		"	279		115	65-135			



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P303395
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04/10/03 18:47

Total Petroleum Hydrocarbons as Diesel & others by EPA 8015B - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3030625 - EPA 3550A										
Blank (3030625-BLK1)				Prepared: 04/02/03 Analyzed: 04/03/03						
Diesel Range Organics (C10-C28)	ND	5.0	mg/kg							
Motor Oil Range Organics (C24-C36)	ND	10	"							
Surrogate: Octacosane	1.49		"	1.67		89	50-150			
Laboratory Control Sample (3030625-BS1)				Prepared: 04/02/03 Analyzed: 04/03/03						
Diesel Range Organics (C10-C28)	28.0	5.0	mg/kg	33.3		84	50-150			
Surrogate: Octacosane	1.55		"	1.67		93	50-150			
Matrix Spike (3030625-MS1)				Source: P303427-01		Prepared: 04/02/03 Analyzed: 04/03/03				
Diesel Range Organics (C10-C28)	26.6	5.0	mg/kg	33.3	2.3	73	50-150			
Surrogate: Octacosane	1.50		"	1.67		90	50-150			
Matrix Spike Dup (3030625-MSD1)				Source: P303427-01		Prepared: 04/02/03 Analyzed: 04/03/03				
Diesel Range Organics (C10-C28)	26.7	5.0	mg/kg	33.3	2.3	73	50-150	0.4	35	
Surrogate: Octacosane	1.51		"	1.67		90	50-150			
Batch 3040013 - EPA 3510C										
Blank (3040013-BLK1)				Prepared: 04/02/03 Analyzed: 04/07/03						
Diesel Range Organics (C10-C28)	ND	0.050	mg/l							
Motor Oil Range Organics (C24-C36)	ND	0.25	"							
Surrogate: Octacosane	0.0438		"	0.0500		88	50-150			
Laboratory Control Sample (3040013-BS1)				Prepared: 04/02/03 Analyzed: 04/07/03						
Diesel Range Organics (C10-C28)	0.654	0.050	mg/l	1.00		65	50-150			
Surrogate: Octacosane	0.0407		"	0.0500		81	50-150			

Sequoia Analytical - Petaluma

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Total Petroleum Hydrocarbons as Diesel & others by EPA 8015B - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3040013 - EPA 3510C

Laboratory Control Sample Dup (3040013-BSD1)

Prepared: 04/02/03 Analyzed: 04/07/03

Diesel Range Organics (C10-C28)	0.704	0.050	mg/l	1.00	70	50-150	7	20	
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Surrogate: Octacosane	0.0414		"	0.0500	83	50-150			
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04/10/03 18:47

Total Metals by EPA 6000/7000 Series Methods - Quality Control Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3030546 - EPA 7471A

Blank (3030546-BLK1)

Prepared: 04/02/03 Analyzed: 04/03/03

Mercury	ND	0.020	mg/kg
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Laboratory Control Sample (3030546-BS1)

Prepared: 04/02/03 Analyzed: 04/03/03

Mercury	0.134	0.019	mg/kg	0.124		108	80-120
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Matrix Spike (3030546-MS1)

Source: P303395-03

Prepared: 04/02/03 Analyzed: 04/03/03

Mercury	0.160	0.020	mg/kg	0.132	0.021	105	80-120
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Matrix Spike Dup (3030546-MSD1)

Source: P303395-03

Prepared: 04/02/03 Analyzed: 04/03/03

Mercury	0.140	0.018	mg/kg	0.119	0.021	100	80-120	13	20
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Batch 3030562 - EPA 3050B

Blank (3030562-BLK1)

Prepared: 03/26/03 Analyzed: 04/04/03

Antimony	ND	6.0	mg/kg
Arsenic	ND	10	"
Barium	ND	1.0	"
Beryllium	ND	0.10	"
Cadmium	ND	1.0	"
Chromium	ND	1.0	"
Cobalt	ND	0.70	"
Copper	ND	2.0	"
Lead	ND	7.5	"
Molybdenum	ND	2.5	"
Nickel	ND	3.0	"
Selenium	ND	10	"
Silver	ND	0.70	"
Thallium	ND	10	"
Vanadium	ND	1.0	"
Zinc	ND	2.0	"

Sequoia Analytical - Petaluma

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Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P303395
Reported:
04/10/03 18:47

Total Metals by EPA 6000/7000 Series Methods - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%RHC	%RHC Limits	RPD	RPD Limit	Notes
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Batch 3030562 - EPA 3050B
Laboratory Control Sample (3030562-BS1)

Prepared: 03/26/03 Analyzed: 04/04/03

Antimony	43.2	6.0	mg/kg	50.0		86	80-120			
Arsenic	44.1	10	"	50.0		88	80-120			
Barium	46.5	1.0	"	50.0		93	80-120			
Beryllium	4.48	0.10	"	5.00		90	80-120			
Cadmium	4.78	1.0	"	5.00		96	80-120			
Chromium	45.8	1.0	"	50.0		92	80-120			
Cobalt	43.6	0.70	"	50.0		87	80-120			
Copper	45.3	2.0	"	50.0		91	80-120			
Lead	43.9	7.5	"	50.0		88	80-120			
Molybdenum	46.6	2.5	"	50.0		93	80-120			
Nickel	45.1	3.0	"	50.0		90	80-120			
Selenium	42.5	10	"	50.0		85	80-120			
Silver	4.34	0.70	"	5.00		87	80-120			
Thallium	45.4	10	"	50.0		91	80-120			
Vanadium	44.7	1.0	"	50.0		89	80-120			
Zinc	41.6	2.0	"	50.0		83	80-120			

Matrix Spike (3030562-MS1)

Source: P303395-03

Prepared: 03/26/03 Analyzed: 04/04/03

Antimony	26.2	5.5	mg/kg	45.5	ND	58	80-120			QM-07
Arsenic	41.4	9.1	"	45.5	3.3	84	80-120			
Barium	82.2	0.91	"	45.5	38	97	80-120			
Beryllium	4.25	0.091	"	4.55	0.23	88	80-120			
Cadmium	4.09	0.91	"	4.55	0.47	80	80-120			
Chromium	57.6	0.91	"	45.5	16	91	80-120			
Cobalt	42.7	0.64	"	45.5	4.6	84	80-120			
Copper	51.2	1.8	"	45.5	10	91	80-120			
Lead	39.3	6.8	"	45.5	ND	86	80-120			
Molybdenum	39.9	2.3	"	45.5	3.8	79	80-120			QM-07
Nickel	58.8	2.7	"	45.5	17	92	80-120			
Selenium	40.1	9.1	"	45.5	ND	88	80-120			
Silver	3.66	0.64	"	4.55	ND	80	80-120			
Thallium	36.2	9.1	"	45.5	ND	80	80-120			
Vanadium	72.4	0.91	"	45.5	31	91	80-120			
Zinc	58.2	1.8	"	45.5	23	77	80-120			QM-07

Sequoia Analytical - Petaluma

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Project Manager: Brian Aubry

P303395
Reported:
04/10/03 18:47

Total Metals by EPA 6000/7000 Series Methods - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3030562 - EPA 3050B										
Matrix Spike Dup (3030562-MSD1)		Source: P303395-03			Prepared: 03/26/03 Analyzed: 04/04/03					
Antimony	29.3	5.4	mg/kg	44.6	ND	66	80-120	11	20	QM-07
Arsenic	42.4	8.9	"	44.6	3.3	88	80-120	2	20	
Barium	67.9	0.89	"	44.6	38	67	80-120	19	20	QM-07
Beryllium	4.18	0.089	"	44.6	0.23	89	80-120	2	20	
Cadmium	4.16	0.89	"	44.6	0.47	83	80-120	2	20	
Chromium	54.9	0.89	"	44.6	16	87	80-120	5	20	
Cobalt	42.6	0.62	"	44.6	4.6	85	80-120	0.2	20	
Copper	47.0	1.8	"	44.6	10	83	80-120	9	20	
Lead	39.9	6.7	"	44.6	ND	89	80-120	2	20	
Molybdenum	40.0	2.2	"	44.6	3.8	81	80-120	0.3	20	
Nickel	55.3	2.7	"	44.6	17	86	80-120	6	20	
Selenium	38.3	8.9	"	44.6	ND	86	80-120	5	20	
Silver	3.73	0.62	"	44.6	ND	84	80-120	2	20	
Thallium	37.7	8.9	"	44.6	ND	85	80-120	4	20	
Vanadium	62.5	0.89	"	44.6	31	71	80-120	15	20	QM-07
Zinc	50.7	1.8	"	44.6	23	62	80-120	14	20	QM-07



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Project: Qualex Kent, WA
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P303395
Reported:
04/10/03 18:47

Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%RHC	%RHC Limits	RPD	RPD Limit	Notes
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Batch 3030561 - EPA 3005A

Blank (3030561-BLK1)

Prepared: 04/02/03 Analyzed: 04/03/03

Antimony	ND	5.0	ug/l
Arsenic	ND	5.0	"
Barium	ND	10	"
Beryllium	ND	4.0	"
Cadmium	ND	1.0	"
Chromium	ND	10	"
Cobalt	ND	7.0	"
Copper	ND	10	"
Lead	ND	3.0	"
Molybdenum	ND	20	"
Nickel	ND	10	"
Selenium	ND	5.0	"
Silver	ND	1.0	"
Thallium	ND	2.0	"
Vanadium	ND	10	"
Zinc	ND	20	"

Laboratory Control Sample (3030561-BS1)

Prepared: 04/02/03 Analyzed: 04/03/03

Antimony	531	5.0	ug/l	500	106	80-120
Arsenic	522	5.0	"	500	104	80-120
Barium	505	10	"	500	101	80-120
Beryllium	53.6	4.0	"	50.0	107	80-120
Cadmium	51.3	1.0	"	50.0	103	80-120
Chromium	498	10	"	500	100	80-120
Cobalt	501	7.0	"	500	100	80-120
Copper	473	10	"	500	95	80-120
Lead	539	3.0	"	500	108	80-120
Molybdenum	489	20	"	500	98	80-120
Nickel	501	10	"	500	100	80-120
Selenium	521	5.0	"	500	104	80-120
Silver	50.5	1.0	"	50.0	101	80-120
Thallium	539	2.0	"	500	108	80-120
Vanadium	502	10	"	500	100	80-120
Zinc	475	20	"	500	95	80-120

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P303395
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Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3030561 - EPA 3005A

Matrix Spike (3030561-MS1) Source: P303391-01 Prepared: 04/02/03 Analyzed: 04/03/03

Antimony	529	5.0	ug/l	500	0.24	106	80-120			
Arsenic	526	5.0	"	500	3.3	105	80-120			
Barium	531	10	"	500	30	100	80-120			
Beryllium	54.4	4.0	"	50.0	ND	109	80-120			
Cadmium	54.4	1.0	"	50.0	0.91	107	80-120			
Chromium	504	10	"	500	0.88	101	80-120			
Cobalt	501	7.0	"	500	0.76	100	80-120			
Copper	479	10	"	500	2.8	95	80-120			
Lead	539	3.0	"	500	1.1	108	80-120			
Molybdenum	487	20	"	500	ND	97	80-120			
Nickel	504	10	"	500	2.0	100	80-120			
Selenium	523	5.0	"	500	ND	105	80-120			
Silver	50.3	1.0	"	50.0	ND	101	80-120			
Thallium	542	2.0	"	500	ND	108	80-120			
Vanadium	509	10	"	500	2.3	101	80-120			
Zinc	670	20	"	500	220	90	80-120			

Matrix Spike Dup (3030561-MSD1) Source: P303391-01 Prepared: 04/02/03 Analyzed: 04/03/03

Antimony	532	5.0	ug/l	500	0.24	106	80-120	0.6	20	
Arsenic	524	5.0	"	500	3.3	104	80-120	0.4	20	
Barium	535	10	"	500	30	101	80-120	0.8	20	
Beryllium	54.6	4.0	"	50.0	ND	109	80-120	0.4	20	
Cadmium	53.5	1.0	"	50.0	0.91	105	80-120	2	20	
Chromium	501	10	"	500	0.88	100	80-120	0.6	20	
Cobalt	506	7.0	"	500	0.76	101	80-120	1	20	
Copper	682	10	"	500	2.8	136	80-120	35	20	QM-07
Lead	534	3.0	"	500	1.1	107	80-120	0.9	20	
Molybdenum	483	20	"	500	ND	97	80-120	0.8	20	
Nickel	509	10	"	500	2.0	101	80-120	1	20	
Selenium	518	5.0	"	500	ND	104	80-120	1	20	
Silver	49.7	1.0	"	50.0	ND	99	80-120	1	20	
Thallium	542	2.0	"	500	ND	108	80-120	0	20	
Vanadium	511	10	"	500	2.3	102	80-120	0.4	20	
Zinc	670	20	"	500	220	90	80-120	0	20	

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Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3030583 - EPA 7470A										
Blank (3030583-BLK1)				Prepared: 04/04/03 Analyzed: 04/07/03						
Mercury	ND	0.20	ug/l							
Laboratory Control Sample (3030583-BS1)				Prepared: 04/04/03 Analyzed: 04/07/03						
Mercury	1.84	0.20	ug/l	1.60		115	80-120			
Matrix Spike (3030583-MS1)				Source: P303395-01		Prepared: 04/04/03 Analyzed: 04/07/03				
Mercury	1.34	0.20	ug/l	1.60	0.15	74	80-120			QM-07
Matrix Spike (3030583-MS2)				Source: P304070-07		Prepared: 04/04/03 Analyzed: 04/07/03				
Mercury	ND	0.20	ug/l	1.60	ND		80-120			QM-07
Matrix Spike Dup (3030583-MSD1)				Source: P303395-01		Prepared: 04/04/03 Analyzed: 04/07/03				
Mercury	1.36	0.20	ug/l	1.60	0.15	76	80-120	1	20	QM-07
Matrix Spike Dup (3030583-MSD2)				Source: P304070-07		Prepared: 04/04/03 Analyzed: 04/07/03				
Mercury	ND	0.20	ug/l	1.60	ND		80-120		20	QM-07



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Project Number: [none]
Project Manager: Brian Aubry

P303395
Reported:
04/10/03 18:47

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%RRC	%RRC Limits	RPD	RPD Limit	Notes
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Batch 3040132 - EPA 5030 waters

Blank (3040132-BL.K1)

Prepared & Analyzed: 04/04/03

Acetone	ND	10	ug/l
Benzene	ND	1.0	"
Bromobenzene	ND	1.0	"
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
2-Butanone	ND	10	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon disulfide	ND	10	"
Carbon tetrachloride	ND	1.0	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	1.0	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	1.0	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"

Sequoia Analytical - Petaluma

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703 Market St., Ste 609
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Project: Qualcx Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P303395
Reported:
04/10/03 18:47

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3040132 - EPA 5030 waters

Blank (3040132-BLK1)

Prepared & Analyzed: 04/04/03

cis-1,3-Dichloropropene	ND	1.0	ug/l
trans-1,3-Dichloropropene	ND	1.0	"
Ethylbenzene	ND	1.0	"
Freon 113	ND	1.0	"
Hexachlorobutadiene	ND	1.0	"
2-Hexanone	ND	10	"
Isopropylbenzene	ND	1.0	"
p-Isopropyltoluene	ND	1.0	"
Methylene chloride	ND	1.0	"
4-Methyl-2-pentanone	ND	10	"
Methyl tert-butyl ether	ND	1.0	"
Naphthalene	ND	1.0	"
n-Propylbenzene	ND	1.0	"
Styrene	ND	1.0	"
1,1,2,2-Tetrachloroethane	ND	1.0	"
1,1,1,2-Tetrachloroethane	ND	1.0	"
Tetrachloroethene	ND	1.0	"
Toluene	ND	1.0	"
1,2,3-Trichlorobenzene	ND	1.0	"
1,2,4-Trichlorobenzene	ND	1.0	"
1,1,2-Trichloroethane	ND	1.0	"
1,1,1-Trichloroethane	ND	1.0	"
Trichloroethene	ND	1.0	"
Trichlorofluoromethane	ND	1.0	"
1,2,3-Trichloropropane	ND	1.0	"
1,3,5-Trimethylbenzene	ND	1.0	"
1,2,4-Trimethylbenzene	ND	1.0	"
Vinyl acetate	ND	20	"
Vinyl chloride	ND	1.0	"
m,p-Xylene	ND	1.0	"
o-Xylene	ND	1.0	"

Surrogate: Dibromofluoromethane	4.48	"	4.50	100	84-122
Surrogate: 1,2-Dichloroethane-d4	4.83	"	4.50	107	74-135
Surrogate: Toluene-d8	4.78	"	4.50	106	84-119
Surrogate: 4-Bromofluorobenzene	4.43	"	4.50	98	86-119

Sequoia Analytical - Petaluma

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3040132 - EPA 5030 waters

Blank (3040132-BLK1)

Prepared & Analyzed: 04/04/03

Laboratory Control Sample (3040132-BS1)

Prepared & Analyzed: 04/04/03

Benzene	4.68	1.0	ug/l	5.00		94	81-118			
Chlorobenzene	5.41	1.0	"	5.00		108	88-119			
1,1-Dichloroethene	5.33	1.0	"	5.00		107	77-121			
Toluene	5.27	1.0	"	5.00		105	84-119			
Trichloroethene	6.03	1.0	"	5.00		121	83-126			

Surrogate: Dibromofluoromethane	4.42		"	4.50		98	84-122			
Surrogate: 1,2-Dichloroethane-d4	4.85		"	4.50		108	74-135			
Surrogate: Toluene-d8	4.89		"	4.50		109	84-119			
Surrogate: 4-Bromofluorobenzene	5.26		"	4.50		117	86-119			

Laboratory Control Sample Dup (3040132-BSD1)

Prepared & Analyzed: 04/04/03

Benzene	4.29	1.0	ug/l	5.00		86	81-118	9	20	
Chlorobenzene	4.80	1.0	"	5.00		96	88-119	12	20	
1,1-Dichloroethene	4.88	1.0	"	5.00		98	77-121	9	20	
Toluene	4.81	1.0	"	5.00		96	84-119	9	20	
Trichloroethene	5.85	1.0	"	5.00		117	83-126	3	20	

Surrogate: Dibromofluoromethane	4.54		"	4.50		101	84-122			
Surrogate: 1,2-Dichloroethane-d4	4.90		"	4.50		109	74-135			
Surrogate: Toluene-d8	5.05		"	4.50		112	84-119			
Surrogate: 4-Bromofluorobenzene	4.85		"	4.50		108	86-119			

Batch 3040167 - EPA 5030 soils

Blank (3040167-BLK1)

Prepared & Analyzed: 04/07/03

Acetone	ND	50	ug/kg							
Benzene	ND	5.0	"							
Bromobenzene	ND	5.0	"							
Bromochloromethane	ND	5.0	"							
Bromodichloromethane	ND	5.0	"							
Bromoform	ND	5.0	"							
Bromomethane	ND	5.0	"							
2-Butanone	ND	10	"							

Sequoia Analytical - Petaluma

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Project: Quinlex Kent, WA
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Project Manager: Brian Aubry

P303395
Reported:
04/10/03 18:47

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3040167 - EPA 5030 soils

Blank (3040167-BLK1)

Prepared & Analyzed: 04/07/03

n-Butylbenzene	ND	5.0	ug/kg
sec-Butylbenzene	ND	5.0	"
tert-Butylbenzene	ND	5.0	"
Carbon disulfide	ND	10	"
Carbon tetrachloride	ND	5.0	"
Chlorobenzene	ND	5.0	"
Chloroethane	ND	5.0	"
2-Chloroethylvinyl ether	ND	5.0	"
Chloroform	ND	5.0	"
Chloromethane	ND	5.0	"
2-Chlorotoluene	ND	5.0	"
4-Chlorotoluene	ND	5.0	"
Dibromochloromethane	ND	5.0	"
1,2-Dibromo-3-chloropropane	ND	5.0	"
1,2-Dibromochloroethane (EDB)	ND	5.0	"
Dibromomethane	ND	5.0	"
1,2-Dichlorobenzene	ND	5.0	"
1,3-Dichlorobenzene	ND	5.0	"
1,4-Dichlorobenzene	ND	5.0	"
Dichlorodifluoromethane	ND	5.0	"
1,1-Dichloroethane	ND	5.0	"
1,2-Dichloroethane	ND	5.0	"
1,1-Dichloroethene	ND	5.0	"
cis-1,2-Dichloroethene	ND	5.0	"
trans-1,2-Dichloroethene	ND	5.0	"
1,2-Dichloropropane	ND	5.0	"
1,3-Dichloropropane	ND	5.0	"
2,2-Dichloropropane	ND	5.0	"
1,1-Dichloropropene	ND	5.0	"
cis-1,3-Dichloropropene	ND	5.0	"
trans-1,3-Dichloropropene	ND	5.0	"
Ethylbenzene	ND	5.0	"
Freon 113	ND	5.0	"
Hexachlorobutadiene	ND	5.0	"
2-Hexanone	ND	10	"
Isopropylbenzene	ND	5.0	"

Sequoia Analytical - Petaluma

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FAX (707) 792-0342
www.sequoialabs.com

Geologica Inc.
703 Market St., Ste 609
San Francisco CA, 94103

Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P303395
Reported:
04/10/03 18:47

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3040167 - EPA 5030 soils

Blank (3040167-BLK1)

Prepared & Analyzed: 04/07/03

p-Isopropyltoluene	ND	5.0	ug/kg
Methylene chloride	ND	5.0	"
4-Methyl-2-pentanone	ND	10	"
Methyl tert-butyl ether	ND	5.0	"
Naphthalene	ND	5.0	"
n-Propylbenzene	ND	5.0	"
Styrene	ND	5.0	"
1,1,2,2-Tetrachloroethane	ND	5.0	"
1,1,1,2-Tetrachloroethane	ND	5.0	"
Tetrachloroethene	ND	5.0	"
Toluene	ND	5.0	"
1,2,3-Trichlorobenzene	ND	5.0	"
1,2,4-Trichlorobenzene	ND	5.0	"
1,1,2-Trichloroethane	ND	5.0	"
1,1,1-Trichloroethane	ND	5.0	"
Trichloroethene	ND	5.0	"
Trichlorofluoromethane	ND	5.0	"
1,2,3-Trichloropropane	ND	5.0	"
1,3,5-Trimethylbenzene	ND	5.0	"
1,2,4-Trimethylbenzene	ND	5.0	"
Vinyl acetate	ND	10	"
Vinyl chloride	ND	5.0	"
m,p-Xylene	ND	5.0	"
o-Xylene	ND	5.0	"

Surrogate: Dibromofluoromethane	39.7	"	45.0	88	81-126
Surrogate: 1,2-Dichloroethane-d4	40.6	"	45.0	90	73-131
Surrogate: Toluene-d8	42.8	"	45.0	95	82-129
Surrogate: 4-Bromofluorobenzene	42.8	"	45.0	95	74-131

Sequoia Analytical - Petaluma

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Geologica Inc.
703 Market St., Ste 609
San Francisco CA, 94103

Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P303395
Reported:
04/10/03 18:47

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3040167 - EPA 5030 soils										
Laboratory Control Sample (3040167-BS1)				Prepared & Analyzed: 04/07/03						
Benzene	44.6	5.0	ug/kg	50.0		89	75-123			
Chlorobenzene	49.1	5.0	"	50.0		98	79-123			
1,1-Dichloroethene	45.0	5.0	"	50.0		90	77-128			
Toluene	51.3	5.0	"	50.0		103	76-123			
Trichloroethene	56.5	5.0	"	50.0		113	72-119			
Surrogate: Dibromofluoromethane	40.1		"	45.0		89	81-126			
Surrogate: 1,2-Dichloroethane-d4	39.3		"	45.0		87	73-131			
Surrogate: Toluene-d8	43.1		"	45.0		96	82-129			
Surrogate: 4-Bromofluorobenzene	40.3		"	45.0		90	74-131			
Matrix Spike (3040167-MS1)				Source: P303474-03	Prepared & Analyzed: 04/07/03					
Benzene	43.2	5.0	ug/kg	50.0	ND	86	75-123			
Chlorobenzene	39.8	5.0	"	50.0	ND	80	79-123			
1,1-Dichloroethene	42.1	5.0	"	50.0	ND	84	77-128			
Toluene	42.8	5.0	"	50.0	ND	86	76-123			
Trichloroethene	52.1	5.0	"	50.0	ND	104	72-119			
Surrogate: Dibromofluoromethane	42.0		"	45.0		93	81-126			
Surrogate: 1,2-Dichloroethane-d4	42.1		"	45.0		94	73-131			
Surrogate: Toluene-d8	42.3		"	45.0		94	82-129			
Surrogate: 4-Bromofluorobenzene	38.0		"	45.0		84	74-131			
Matrix Spike Dup (3040167-MSD1)				Source: P303474-03	Prepared & Analyzed: 04/07/03					
Benzene	39.9	5.0	ug/kg	50.0	ND	80	75-123	8	35	Q-LIM
Chlorobenzene	38.9	5.0	"	50.0	ND	78	79-123	2	35	
1,1-Dichloroethene	43.1	5.0	"	50.0	ND	86	77-128	2	35	
Toluene	41.5	5.0	"	50.0	ND	83	76-123	3	35	
Trichloroethene	49.9	5.0	"	50.0	ND	100	72-119	4	35	
Surrogate: Dibromofluoromethane	40.8		"	45.0		91	81-126			
Surrogate: 1,2-Dichloroethane-d4	41.0		"	45.0		91	73-131			
Surrogate: Toluene-d8	43.7		"	45.0		97	82-129			
Surrogate: 4-Bromofluorobenzene	40.9		"	45.0		91	74-131			

Sequoia Analytical - Petaluma

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.



Geologica Inc.
703 Market St., Ste 609
San Francisco CA, 94103

Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P303395
Reported:
04/10/03 18:47

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3030554 - General Preparation

Duplicate (3030554-DUP1)		Source: P303395-05		Prepared & Analyzed: 03/25/03						
pH	8.21	2.00	pH Units		8.23			0.2	20	

Batch 3030555 - General Preparation

Duplicate (3030555-DUP1)		Source: P303395-01		Prepared & Analyzed: 03/25/03						
pH	6.64	2.00	pH Units		6.57			1	20	

Batch 3040118 - General Preparation

Blank (3040118-BLK1)		Prepared & Analyzed: 04/04/03								
Cyanide (total)	ND	0.0050	mg/l							

Laboratory Control Sample (3040118-RS1)		Prepared & Analyzed: 04/04/03								
Cyanide (total)	0.199	0.0050	mg/l	0.200		100	80-120			

Matrix Spike (3040118-MS1)		Source: P303475-01		Prepared & Analyzed: 04/04/03						
Cyanide (total)	0.186	0.0050	mg/l	0.204	ND	91	75-125			

Matrix Spike Dup (3040118-MSD1)		Source: P303475-01		Prepared & Analyzed: 04/04/03						
Cyanide (total)	0.164	0.0050	mg/l	0.204	ND	80	75-125	13	20	

Batch 3040146 - General Preparation

Blank (3040146-BLK1)		Prepared & Analyzed: 04/07/03								
Cyanide (total)	ND	0.50	mg/kg							



Geologica Inc.
703 Market St., Ste 609
San Francisco CA, 94103

Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P303395
Reported:
04/10/03 18:47

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3040146 - General Preparation										
Laboratory Control Sample (3040146-BS1)					Prepared & Analyzed: 04/07/03					
Cyanide (total)	5.25	0.50	mg/kg	5.00		105	80-120			
Duplicate (3040146-DUP1)					Source: P303395-10 Prepared & Analyzed: 04/07/03					
Cyanide (total)	ND	0.46	mg/kg		ND				200	
Matrix Spike (3040146-MS1)					Source: P303395-03 Prepared & Analyzed: 04/07/03					
Cyanide (total)	1.60	0.46	mg/kg	4.59	ND	35	75-125			QM-07
Matrix Spike Dup (3040146-MSD1)					Source: P303395-03 Prepared & Analyzed: 04/07/03					
Cyanide (total)	3.19	0.47	mg/kg	4.69	ND	68	75-125	66	20	QM-07



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Geologica Inc.
703 Market St., Ste 609
San Francisco CA, 94103

Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P303395
Reported:
04/10/03 18:47

Anions by EPA Method 300.0 - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3040196 - General Preparation										
Blank (3040196-BLK1)				Prepared & Analyzed: 03/25/03						
Nitrate as N	ND	0.20	mg/l							
Laboratory Control Sample (3040196-BS1)				Prepared & Analyzed: 03/25/03						
Nitrate as N	10.2	0.20	mg/l	10.0		102	90-110			
Matrix Spike (3040196-MS1)				Source: P303395-01		Prepared & Analyzed: 03/25/03				
Nitrate as N	26.5	1.0	mg/l	25.0	ND	106	80-120			
Matrix Spike Dup (3040196-MSD1)				Source: P303395-01		Prepared & Analyzed: 03/25/03				
Nitrate as N	25.7	1.0	mg/l	25.0	ND	103	80-120	3	20	
Batch 3040197 - General Preparation										
Blank (3040197-BLK1)				Prepared & Analyzed: 03/25/03						
Nitrate as N	ND	2.0	mg/kg							
Laboratory Control Sample (3040197-BS1)				Prepared & Analyzed: 03/25/03						
Nitrate as N	101	2.0	mg/kg	100		101	90-110			
Matrix Spike (3040197-MS1)				Source: P303395-03		Prepared & Analyzed: 03/25/03				
Nitrate as N	102	4.0	mg/kg	100	1.9	100	80-120			
Matrix Spike Dup (3040197-MSD1)				Source: P303395-03		Prepared & Analyzed: 03/25/03				
Nitrate as N	101	4.0	mg/kg	100	1.9	99	80-120	1	20	
Batch 3040199 - General Preparation										
Blank (3040199-BLK1)				Prepared & Analyzed: 04/09/03						
Sulfate as SO ₄	ND	1.0	mg/l							

Sequoia Analytical - Petaluma

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Geologica Inc.
703 Market St., Ste 609
San Francisco CA, 94103

Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P303395
Reported:
04/10/03 18:47

**Anions by EPA Method 300.0 - Quality Control
Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3040199 - General Preparation										
Laboratory Control Sample (3040199-BS1)					Prepared & Analyzed: 04/09/03					
Sulfate as SO4	10.9	1.0	mg/l	10.0		109	90-110			
Matrix Spike (3040199-MS1)					Source: P303483-05 Prepared & Analyzed: 04/09/03					
Sulfate as SO4	49.8	5.0	mg/l	25.0	23	107	80-120			
Matrix Spike Dup (3040199-MSD1)					Source: P303483-05 Prepared & Analyzed: 04/09/03					
Sulfate as SO4	50.4	5.0	mg/l	25.0	23	110	80-120	1	20	
Batch 3040200 - General Preparation										
Blank (3040200-BLK1)					Prepared & Analyzed: 04/08/03					
Sulfate as SO4	ND	10	mg/kg							
Laboratory Control Sample (3040200-BS1)					Prepared & Analyzed: 04/08/03					
Sulfate as SO4	110	10	mg/kg	100		110	90-110			
Matrix Spike (3040200-MS1)					Source: P303395-03 Prepared & Analyzed: 04/08/03					
Sulfate as SO4	138	20	mg/kg	100	8.8	129	80-120			QM-07
Matrix Spike Dup (3040200-MSD1)					Source: P303395-03 Prepared & Analyzed: 04/08/03					
Sulfate as SO4	139	20	mg/kg	100	8.8	130	80-120	0.7	20	QM-07



Geologica Inc.
703 Market St., Ste 609
San Francisco CA, 94103

Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P303395
Reported:
04/10/03 18:47

Notes and Definitions

HIT-01 This sample was received beyond the EPA recommended holding time. The results may still be useful for their intended purpose.

HIT-03 This sample was extracted beyond the EPA recommended holding time. The results may still be useful for their intended purpose.

Q-LIM The percent recovery was outside of the control limits. The samples results may still be useful for their intended purpose.

QM-07 The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

R-04 The Reporting Limits for this analysis are elevated due to sample foaming.

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

RPD Relative Percent Difference



Page 1 of 2 SEQUOIA ANALYTICAL CHAIN OF CUSTODY

☐ 885 Jarvis Drive • Morgan Hill, CA 95037 • (408) 776-9600 • FAX (408) 782-6308
☒ 1455 McDowell Blvd, Suite D • Petaluma, CA 94954 • (707) 792-1865 • FAX (707) 792-0342
☐ 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 • FAX (916) 921-0100
☐ 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 • FAX (650) 232-9612
☐ 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 • FAX (925) 988-9673

Company Name: <u>GEOLGICA INC</u>		Project: <u>Quaker-Kent, WA</u>	
Mailing Address: <u>703 MARKET STREET 609</u>		Billing Address (if different):	
City: <u>San Francisco</u>	State: <u>CA</u>	Zip Code: <u>94103</u>	P.O. #:
Telephone: <u>415-597-2883</u>	Fax #: <u>415-597-1880</u>	QC Data: ☒ Level II (standard) ☐ Level III ☐ Level IV	
Report To: <u>B. AUBRY</u>	E-mail Address: <u>b.aubry@geologica.net</u>	Sequoia's Work Order # <u>3</u>	
Sampler: <u>B. AUBRY</u>	Date / Time Results Required:		

Client Sample I.D.	Date / Time Sampled	Matrix Desc.	# of Cont.	Container Type	Sequoia's Sample #	ANALYSES REQUESTED (Please provide method)				Comments/Temp. (if required)
						MANDATORY:	SDWA (Drinking Water)	CWA (Waste Water)	RCRA (Hazardous Waste)	
						☐ 72 Hours ☐ 48 Hours ☐ 24 Hours ☐ 5 Working Days	☐ 10-15 Working Days (Standard TAT)	☐ 7 Working Days ☐ 5 Working Days		
1. S-3	3-24	GW	2	1L amber	4303395-011					
2. S-3	3-24	GW	1	100 ml						
3. S-3	3-24	GW	1	100 NaOH						
4. S-3	3-24	GW	1	100 NaOH						
5. S-3	3-24	GW	6	40ml NaOH						
6. B-1-3'	3-24	S	2	glar						HOLD
7. B-1-6'	3-24	S	2	glar						
8. S-1-2'	3-24	S	2	glar						HOLD
9. S-1-4'	3-24	S	2	glar						
10.										

Relinquished By: <u>B. Aubry</u>	Received By: <u>Phil Thompson</u>	Date / Time: <u>3/24/03</u>
Relinquished By:	Received By:	Date / Time:
Relinquished By:	Received By:	Date / Time:
Relinquished By:	Received By:	Date / Time:

Were Samples Received in Good Condition? ☐ Yes ☐ No Samples on Ice? ☐ Yes ☐ No Method of Shipment: _____ Page _____ of _____

White: Sequoia

Yellow: Sequoia

Pink: Client



page 201
SEQUIA ANALYTICAL
CHAIN OF CUSTODY

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 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 • FAX (925) 988-9673

Company Name: Geologica Inc Project: Qualex Kent, WA
 Mailing Address: 7030 Market St Billing Address (if different):
 City: SF State: CA Zip Code: 94103 P.O. #:
 Telephone: 415-597-7883 Fax #: 415-597-7880
 Report To: B. F. Fisher E-mail Address: bfisher@geologica.net QC Data: ☒ Level II (standard) ☐ Level III ☐ Level IV
 Sampler: BFK Date / Time Results Required: Sequoia's Work Order #

MANDATORY:				ANALYSES REQUESTED (Please provide method)				Comments/ Temp. (if required)
Client Sample I.D.	Date / Time Sampled	Matrix Desc.	# of Cont.	Container Type	Sequoia's Sample #	SDWA (Drinking Water)	CWA (Waste Water)	
1. S-2-2'	3/24	S	2	glass	000015	☒	☒	✓
2. S-3-2'		S	2		000016	☒	☒	✓
3. S-3-4'		S	2		000017	☒	☒	✓
4. S-3-8'		S	2		000018	☒	☒	✓
5. S-4-3'		S	2		000019	☒	☒	✓
6. S-4-6'		S	2		000020	☒	☒	✓
7.								
8.								
9.								
10.								

Relinquished By: B. F. Fisher 3/24/03 Received By: Gale Hymen Date / Time: 3/24
 Relinquished By: _____ Date / Time: _____
 Relinquished By: _____ Date / Time: _____
 Relinquished By: _____ Date / Time: _____

Were Samples Received in Good Condition? ☐ Yes ☐ No Samples on Ice? ☐ Yes ☐ No Method of Shipment: _____
 White: Sequoia Yellow: Sequoia Pink: C



**Sequoia
Analytical**

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
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4 August, 2003

Brian Aubry
Geologica Inc.
594 Howard St., Suite 400
San Francisco, CA 94105

RE: Qualex Kent, WA
Work Order: P307466

Enclosed are the results of analyses for samples received by the laboratory on 07/25/03 10:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angelee Cari
Project Manager

CA ELAP Certificate #2374



Geologica Inc.
594 Howard St., Suite 400
San Francisco CA, 94105

Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P307466
Reported:
08/04/03 13:00

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1-072403	P307466-01	Water	07/24/03 09:40	07/25/03 10:30
Comp-1	P307466-02	Soil	07/24/03 09:50	07/25/03 10:30



Geologica Inc.
594 Howard St., Suite 400
San Francisco CA, 94105

Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P307466
Reported:
08/04/03 13:00

**Total Petroleum Hydrocarbons as Gasoline by EPA 8015B
Sequoia Analytical - Petaluma**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1-072403 (P307466-01) Water Sampled: 07/24/03 09:40 Received: 07/25/03 10:30										
Gasoline Range Organics	ND		50	ug/l	1	3070646	07/30/03	07/30/03	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		93 %	65-135			"	"	"	"	
Comp-1 (P307466-02) Soil Sampled: 07/24/03 09:50 Received: 07/25/03 10:30										
Gasoline Range Organics	ND		1000	ug/kg	1	3070609	07/29/03	07/29/03	RPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		72 %	65-135			"	"	"	"	



Geologica Inc.
594 Howard St., Suite 400
San Francisco CA, 94105

Project: Qualcx Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P307466
Reported:
08/04/03 13:00

Total Petroleum Hydrocarbons as Diesel & others by EPA 8015B
Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1-072403 (P307466-01) Water Sampled: 07/24/03 09:40 Received: 07/25/03 10:30										
Diesel Range Organics (C10-C28)	0.43		0.054	mg/l	1	3070602	07/29/03	07/30/03	EPA 8015B-SVOA	
Motor Oil Range Organics (C24-C36)	0.32		0.27	"	"	"	"	"	"	
Surrogate: Octacosane		111 %	50-150			"	"	"	"	
Comp-1 (P307466-02) Soil Sampled: 07/24/03 09:50 Received: 07/25/03 10:30										
Diesel Range Organics (C10-C28)	19		5.0	mg/kg	1	3070576	07/28/03	07/29/03	EPA 8015B-SVOA	
Motor Oil Range Organics (C24-C36)	29		10	"	"	"	"	"	"	
Surrogate: Octacosane		207 %	50-150			"	"	"	"	S-02



Geologica Inc.
594 Howard St., Suite 400
San Francisco CA, 94105

Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P307466
Reported:
08/04/03 13:00

**Total Metals by EPA 6000/7000 Series Methods
Sequoia Analytical - Petaluma**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Comp-1 (P307466-02) Soil Sampled: 07/24/03 09:50 Received: 07/25/03 10:30										
Mercury	0.027		0.019	mg/kg	1	3070509	07/28/03	07/29/03	EPA 7471A	
Antimony	ND		5.8	"	"	3070630	07/30/03	07/30/03	EPA 6010B	
Arsenic	ND		9.6	"	"	"	"	"	"	
Barium	160		0.96	"	"	"	"	"	"	
Beryllium	0.71		0.096	"	"	"	"	"	"	
Cadmium	ND		0.96	"	"	"	"	"	"	
Chromium	15		0.96	"	"	"	"	"	"	
Cobalt	1.9		0.67	"	"	"	"	"	"	
Copper	7.7		1.9	"	"	"	"	"	"	
Lead	7.8		7.2	"	"	"	"	"	"	
Molybdenum	ND		1.9	"	"	"	"	"	"	
Nickel	4.8		2.9	"	"	"	"	"	"	
Selenium	ND		9.6	"	"	"	"	"	"	
Silver	0.97		0.67	"	"	"	"	"	"	
Thallium	ND		9.6	"	"	"	"	"	"	
Vanadium	22		0.96	"	"	"	"	"	"	
Zinc	27		1.9	"	"	"	"	"	"	

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594 Howard St., Suite 400
San Francisco CA, 94105

Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P307466
Reported:
08/04/03 13:00

Dissolved Metals by EPA 6000/7000 Series Methods Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1-072403 (P307466-01) Water Sampled: 07/24/03 09:40 Received: 07/25/03 10:30										
Iron	63000	51	300	ug/l	1	3070635	07/30/03	07/31/03	EPA 6010B	
Mercury	0.22	0.032	0.20	"	"	3070461	07/30/03	07/31/03	EPA 7470A	
Antimony	ND	24	60	"	"	3070635	07/30/03	07/31/03	EPA 6010B	
Arsenic	21	21	100	"	"	"	"	"	"	J
Barium	39	0.84	10	"	"	"	"	"	"	
Beryllium	ND	0.16	1.0	"	"	"	"	"	"	
Cadmium	ND	2.1	10	"	"	"	"	"	"	
Chromium	2.9	2.7	10	"	"	"	"	"	"	J
Cobalt	ND	2.8	7.0	"	"	"	"	"	"	
Copper	ND	2.6	10	"	"	"	"	"	"	
Lead	ND	18	75	"	"	"	"	"	"	
Molybdenum	ND	7.8	20	"	"	"	"	"	"	
Nickel	24	12	30	"	"	"	"	"	"	J
Selenium	ND	16	100	"	"	"	"	"	"	
Silver	ND	2.8	7.0	"	"	"	"	"	"	
Thallium	ND	16	100	"	"	"	"	"	"	
Vanadium	15	1.8	10	"	"	"	"	"	"	
Zinc	14	5.5	20	"	"	"	"	"	"	J
Manganese	2300	0.66	10	"	"	"	"	"	"	



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Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P307466
Reported:
08/04/03 13:00

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1-072403 (P307466-01) Water Sampled: 07/24/03 09:40 Received: 07/25/03 10:30										R-04
Acetone	ND		50	ug/l	5	3070681	07/31/03	07/31/03	EPA 8260B	
Benzene	ND		5.0	"	"	"	"	"	"	
Bromobenzene	ND		5.0	"	"	"	"	"	"	
Bromochloromethane	ND		5.0	"	"	"	"	"	"	
Bromodichloromethane	ND		5.0	"	"	"	"	"	"	
Bromoform	ND		5.0	"	"	"	"	"	"	
Bromomethane	ND		5.0	"	"	"	"	"	"	
2-Butanone	ND		50	"	"	"	"	"	"	
n-Butylbenzene	ND		5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND		5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND		5.0	"	"	"	"	"	"	
Carbon disulfide	ND		50	"	"	"	"	"	"	
Carbon tetrachloride	ND		5.0	"	"	"	"	"	"	
Chlorobenzene	ND		5.0	"	"	"	"	"	"	
Chloroethane	ND		5.0	"	"	"	"	"	"	
Chloroform	ND		5.0	"	"	"	"	"	"	
Chloromethane	ND		5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND		5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND		5.0	"	"	"	"	"	"	
Dibromochloromethane	ND		5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND		5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND		5.0	"	"	"	"	"	"	
Dibromomethane	ND		5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND		5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND		5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND		5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND		5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND		5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND		5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND		5.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND		5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND		5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND		5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND		5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND		5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND		5.0	"	"	"	"	"	"	

Sequoia Analytical - Petaluma

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

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Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P307466
Reported:
08/04/03 13:00

Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1-072403 (P307466-01) Water Sampled: 07/24/03 09:40 Received: 07/25/03 10:30										R-04
cis-1,3-Dichloropropene	ND		5.0	ug/l	5	3070681	07/31/03	07/31/03	EPA 8260B	
trans-1,3-Dichloropropene	ND		5.0	"	"	"	"	"	"	
Ethylbenzene	ND		5.0	"	"	"	"	"	"	
Freon 113	ND		5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND		5.0	"	"	"	"	"	"	
2-Hexanone	ND		50	"	"	"	"	"	"	
Isopropylbenzene	ND		5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND		5.0	"	"	"	"	"	"	
Methylene chloride	ND		5.0	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND		50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND		5.0	"	"	"	"	"	"	
Naphthalene	ND		5.0	"	"	"	"	"	"	
n-Propylbenzene	ND		5.0	"	"	"	"	"	"	
Styrene	ND		5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND		5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND		5.0	"	"	"	"	"	"	
Tetrachloroethene	ND		5.0	"	"	"	"	"	"	
Toluene	ND		5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND		5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND		5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND		5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND		5.0	"	"	"	"	"	"	
Trichloroethene	ND		5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND		5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND		5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND		5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND		5.0	"	"	"	"	"	"	
Vinyl acetate	ND		100	"	"	"	"	"	"	
Vinyl chloride	ND		5.0	"	"	"	"	"	"	
m,p-Xylene	ND		5.0	"	"	"	"	"	"	
o-Xylene	ND		5.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		114 %	84-122			"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		106 %	74-135			"	"	"	"	
Surrogate: Toluene-d8		103 %	84-119			"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92 %	86-119			"	"	"	"	

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San Francisco CA, 94105

Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P307466
Reported:
08/04/03 13:00

Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Comp-1 (P307466-02) Soil Sampled: 07/24/03 09:50 Received: 07/25/03 10:30										
Acetone	ND		50	ug/kg	1	3070577	07/28/03	07/28/03	EPA 8260B	
Benzene	ND		5.0	"	"	"	"	"	"	
Bromobenzene	ND		5.0	"	"	"	"	"	"	
Bromochloromethane	ND		5.0	"	"	"	"	"	"	
Bromodichloromethane	ND		5.0	"	"	"	"	"	"	
Bromoform	ND		5.0	"	"	"	"	"	"	
Bromomethane	ND		10	"	"	"	"	"	"	
2-Butanone	ND		10	"	"	"	"	"	"	
n-Butylbenzene	ND		5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND		5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND		5.0	"	"	"	"	"	"	
Carbon disulfide	ND		10	"	"	"	"	"	"	
Carbon tetrachloride	ND		5.0	"	"	"	"	"	"	
Chlorobenzene	ND		5.0	"	"	"	"	"	"	
Chloroethane	ND		5.0	"	"	"	"	"	"	
2-Chloroethylvinyl ether	ND		5.0	"	"	"	"	"	"	
Chloroform	ND		5.0	"	"	"	"	"	"	
Chloromethane	ND		5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND		5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND		5.0	"	"	"	"	"	"	
Dibromochloromethane	ND		5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND		5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND		5.0	"	"	"	"	"	"	
Dibromomethane	ND		5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND		5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND		5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND		5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND		5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND		5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND		5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND		5.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND		5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND		5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND		5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND		5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND		5.0	"	"	"	"	"	"	



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Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P307466
Reported:
08/04/03 13:00

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Comp-1 (P307466-02) Soil Sampled: 07/24/03 09:50 Received: 07/25/03 10:30										
1,1-Dichloropropene	ND		5.0	ug/kg	1	3070577	07/28/03	07/28/03	EPA 8260B	
cis-1,3-Dichloropropene	ND		5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND		5.0	"	"	"	"	"	"	
Ethylbenzene	ND		5.0	"	"	"	"	"	"	
Freon 113	ND		5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND		5.0	"	"	"	"	"	"	
2-Hexanone	ND		10	"	"	"	"	"	"	
Isopropylbenzene	ND		5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND		5.0	"	"	"	"	"	"	
Methylene chloride	ND		5.0	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND		10	"	"	"	"	"	"	
Methyl tert-butyl ether	ND		5.0	"	"	"	"	"	"	
Naphthalene	ND		5.0	"	"	"	"	"	"	
n-Propylbenzene	ND		5.0	"	"	"	"	"	"	
Styrene	ND		5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND		5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND		5.0	"	"	"	"	"	"	
Tetrachloroethene	ND		5.0	"	"	"	"	"	"	
Toluene	ND		5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND		5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND		5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND		5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND		5.0	"	"	"	"	"	"	
Trichloroethene	ND		5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND		5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND		5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND		5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND		5.0	"	"	"	"	"	"	
Vinyl acetate	ND		10	"	"	"	"	"	"	
Vinyl chloride	ND		5.0	"	"	"	"	"	"	
m,p-Xylene	ND		5.0	"	"	"	"	"	"	
o-Xylene	ND		5.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	92 %		81-126			"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	96 %		73-131			"	"	"	"	
Surrogate: Toluene-d8	95 %		82-129			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %		74-131			"	"	"	"	

Sequoia Analytical - Petaluma

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Project: Quilex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P307466
Reported:
08/04/03 13:00

Conventional Chemistry Parameters by APHA/EPA Methods Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1-072403 (P307466-01) Water Sampled: 07/24/03 09:40 Received: 07/25/03 10:30										
Cyanide (total)	ND		0.0050	mg/l	1	3070665	07/31/03	08/01/03	EPA 335.2	
pH	6.57		2.00	pH Units	"	3070562	07/25/03	07/25/03	EPA 150.1	IIT-01
Comp-1 (P307466-02) Soil Sampled: 07/24/03 09:50 Received: 07/25/03 10:30										
Cyanide (total)	ND		0.50	mg/kg	1	3070666	07/31/03	08/01/03	EPA 335.2	
pH	8.05		2.00	pH Units	"	3070618	07/25/03	07/25/03	EPA 9045C	IIT-01

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Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P307466
Reported:
08/04/03 13:00

Anions by EPA Method 300.0 Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1-072403 (P307466-01) Water Sampled: 07/24/03 09:40 Received: 07/25/03 10:30										
Nitrate as N	ND		1.0	mg/l	5	3070560	07/25/03	07/25/03	EPA 300.0	
Sulfate as SO4	ND		5.0	"	"	"	"	"	"	
Comp-1 (P307466-02) Soil Sampled: 07/24/03 09:50 Received: 07/25/03 10:30										
Nitrate as N	6.8		2.0	mg/kg	1	3070590	07/25/03	07/25/03	EPA 300.0	
Sulfate as SO4	240		10	"	"	"	"	"	"	

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Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P307466
Reported:
08/04/03 13:00

Total Petroleum Hydrocarbons as Gasoline by EPA 8015B - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 3070609 - EPA 5030, soils										
Blank (3070609-BLK1)					Prepared & Analyzed: 07/29/03					
Gasoline Range Organics	ND		1000	ug/kg						
Surrogate: 4-Bromofluorobenzene	317			"	300		106	65-135		
Laboratory Control Sample (3070609-BS1)					Prepared & Analyzed: 07/29/03					
Gasoline Range Organics	2270		1000	ug/kg	2750		83	65-135		
Surrogate: 4-Bromofluorobenzene	302			"	300		101	65-135		
Matrix Spike (3070609-MS1)					Source: P307420-01		Prepared & Analyzed: 07/29/03			
Gasoline Range Organics	2090		1000	ug/kg	2750	28	75	65-135		
Surrogate: 4-Bromofluorobenzene	287			"	300		96	65-135		
Matrix Spike Dup (3070609-MSD1)					Source: P307420-01		Prepared & Analyzed: 07/29/03			
Gasoline Range Organics	1950		1000	ug/kg	2750	28	70	65-135	7	20
Surrogate: 4-Bromofluorobenzene	271			"	300		90	65-135		
Batch 3070646 - EPA 5030, waters										
Blank (3070646-BLK1)					Prepared & Analyzed: 07/30/03					
Gasoline Range Organics	ND		50	ug/l						
Surrogate: 4-Bromofluorobenzene	270			"	300		90	65-135		
Laboratory Control Sample (3070646-BS1)					Prepared & Analyzed: 07/30/03					
Gasoline Range Organics	2210		50	ug/l	2750		80	65-135		
Surrogate: 4-Bromofluorobenzene	292			"	300		97	65-135		
Matrix Spike (3070646-MS1)					Source: P307491-04		Prepared & Analyzed: 07/30/03			
Gasoline Range Organics	2120		50	ug/l	2750	ND	77	65-135		
Surrogate: 4-Bromofluorobenzene	281			"	300		94	65-135		



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Project Manager: Brian Aubry

P307466
Reported:
08/04/03 13:00

Total Petroleum Hydrocarbons as Gasoline by EPA 8015B - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3070646 - EPA 5030, waters

Matrix Spike Dup (3070646-MSD1)

Source: P307491-04

Prepared & Analyzed: 07/30/03

Gasoline Range Organics	2100		50	ug/l	2750	NID	76	65-135	0.9	20	
Surrogate: 4-Bromofluorobenzene	289			"	300		96	65-135			

Geologica Inc.
594 Howard St., Suite 400
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Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P307466
Reported:
08/04/03 13:00

Total Petroleum Hydrocarbons as Diesel & others by EPA 8015B - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 3070576 - CA LUFT - orb shaker										
Blank (3070576-BLK1) Prepared: 07/28/03 Analyzed: 07/29/03										
Diesel Range Organics (C10-C28)	ND		5.0	mg/kg						
Motor Oil Range Organics (C24-C36)	ND		10	"						
Surrogate: Octacosane	1.56			"	1.67		93	50-150		
Laboratory Control Sample (3070576-BS1) Prepared: 07/28/03 Analyzed: 07/29/03										
Diesel Range Organics (C10-C28)	32.4		5.0	mg/kg	33.3		97	62-103		
Surrogate: Octacosane	1.79			"	1.67		107	50-150		
Matrix Spike (3070576-MS1) Source: P307334-01 Prepared: 07/28/03 Analyzed: 07/29/03										
Diesel Range Organics (C10-C28)	28.3		5.0	mg/kg	33.3	ND	85	62-103		
Surrogate: Octacosane	1.74			"	1.67		104	50-150		
Matrix Spike Dup (3070576-MSD1) Source: P307334-01 Prepared: 07/28/03 Analyzed: 07/29/03										
Diesel Range Organics (C10-C28)	29.5		5.0	mg/kg	33.3	ND	89	62-103	4	35
Surrogate: Octacosane	1.67			"	1.67		100	50-150		
Batch 3070602 - EPA 3510C										
Blank (3070602-BLK1) Prepared: 07/29/03 Analyzed: 07/30/03										
Diesel Range Organics (C10-C28)	ND		0.050	mg/l						
Motor Oil Range Organics (C24-C36)	ND		0.25	"						
Surrogate: Octacosane	0.0525			"	0.0500		105	50-150		
Laboratory Control Sample (3070602-BS1) Prepared: 07/29/03 Analyzed: 07/30/03										
Diesel Range Organics (C10-C28)	0.924		0.050	mg/l	1.00		92	49-102		
Surrogate: Octacosane	0.0528			"	0.0500		106	50-150		



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Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P307466
Reported:
08/04/03 13:00

Total Petroleum Hydrocarbons as Diesel & others by EPA 8015B - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 3070602 - EPA 3510C

Laboratory Control Sample Dup (3070602-BSD1)

Prepared: 07/29/03 Analyzed: 07/30/03

Diesel Range Organics (C10-C28)	0.911		0.050	mg/l	1.00		91	49-102	1	20
Surrogate: Octacosane	0.0522			"	0.0500		104	50-150		



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Total Metals by EPA 6000/7000 Series Methods - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 3070509 - EPA 7471A										
Blank (3070509-BLK1)					Prepared & Analyzed: 07/28/03					
Mercury	ND		0.018	mg/kg						
Laboratory Control Sample (3070509-BS1)					Prepared & Analyzed: 07/28/03					
Mercury	0.110		0.019	mg/kg	0.126		87	80-120		
Matrix Spike (3070509-MS1)					Source: P307318-01 Prepared & Analyzed: 07/28/03					
Mercury	0.206		0.015	mg/kg	0.101	0.10	105	80-120		
Matrix Spike Dup (3070509-MSD1)					Source: P307318-01 Prepared & Analyzed: 07/28/03					
Mercury	0.238		0.018	mg/kg	0.118	0.10	117	80-120	14	20
Batch 3070630 - EPA 3050B										
Blank (3070630-BLK1)					Prepared & Analyzed: 07/30/03					
Antimony	ND		6.0	mg/kg						
Arsenic	ND		10	"						
Barium	ND		1.0	"						
Beryllium	ND		0.10	"						
Cadmium	ND		1.0	"						
Chromium	ND		1.0	"						
Cobalt	ND		0.70	"						
Copper	ND		2.0	"						
Lead	ND		7.5	"						
Molybdenum	ND		2.0	"						
Nickel	ND		3.0	"						
Selenium	ND		10	"						
Silver	ND		0.70	"						
Thallium	ND		10	"						
Vanadium	ND		1.0	"						
Zinc	ND		2.0	"						

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Total Metals by EPA 6000/7000 Series Methods - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 3070630 - EPA 3050B										
Laboratory Control Sample (3070630-BS1)					Prepared & Analyzed: 07/30/03					
Antimony	44.1		6.0	mg/kg	50.0		88	80-120		
Arsenic	48.9		10	"	50.0		98	80-120		
Barium	49.5		1.0	"	50.0		99	80-120		
Beryllium	4.87		0.10	"	5.00		97	80-120		
Cadmium	4.88		1.0	"	5.00		98	80-120		
Chromium	48.6		1.0	"	50.0		97	80-120		
Cobalt	47.5		0.70	"	50.0		95	80-120		
Copper	49.1		2.0	"	50.0		98	80-120		
Lead	48.1		7.5	"	50.0		96	80-120		
Molybdenum	47.4		2.0	"	50.0		95	80-120		
Nickel	45.9		3.0	"	50.0		92	80-120		
Selenium	45.6		10	"	50.0		91	80-120		
Silver	4.56		0.70	"	5.00		91	80-120		
Thallium	47.9		10	"	50.0		96	80-120		
Vanadium	48.8		1.0	"	50.0		98	80-120		
Zinc	48.0		2.0	"	50.0		96	80-120		
Matrix Spike (3070630-MS1)					Source: P307466-02		Prepared & Analyzed: 07/30/03			
Antimony	13.7		4.7	mg/kg	39.1	ND	35	80-120		QM-07
Arsenic	36.8		7.8	"	39.1	ND	94	80-120		
Barium	101		0.78	"	39.1	160	NR	80-120		QM-07
Beryllium	3.67		0.078	"	3.91	0.71	76	80-120		QM-07
Cadmium	3.75		0.78	"	3.91	ND	96	80-120		
Chromium	92.7		0.78	"	39.1	15	199	80-120		QM-07
Cobalt	36.9		0.55	"	39.1	1.9	90	80-120		
Copper	52.8		1.6	"	39.1	7.7	115	80-120		
Lead	36.4		5.9	"	39.1	7.8	73	80-120		QM-07
Molybdenum	34.0		1.6	"	39.1	ND	87	80-120		
Nickel	44.6		2.3	"	39.1	4.8	102	80-120		
Selenium	33.2		7.8	"	39.1	ND	85	80-120		
Silver	4.51		0.55	"	3.91	0.97	91	80-120		
Thallium	30.2		7.8	"	39.1	ND	77	80-120		QM-07
Vanadium	71.1		0.78	"	39.1	22	126	80-120		QM-07
Zinc	67.5		1.6	"	39.1	27	104	80-120		

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Total Metals by EPA 6000/7000 Series Methods - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3070630 - EPA 3050B											
Matrix Spike Dup (3070630-MSD1)			Source: P307466-02			Prepared & Analyzed: 07/30/03					
Antimony	12.9		5.4	mg/kg	44.6	ND	29	80-120	6	20	QM-07
Arsenic	39.1		8.9	"	44.6	ND	88	80-120	6	20	
Barium	254		0.89	"	44.6	160	211	80-120	86	20	QM-07, QR-07
Beryllium	4.49		0.089	"	4.46	0.71	85	80-120	20	20	
Cadmium	3.81		0.89	"	4.46	ND	85	80-120	2	20	
Chromium	66.4		0.89	"	44.6	15	115	80-120	33	20	QR-07
Cobalt	42.2		0.62	"	44.6	1.9	90	80-120	13	20	
Copper	55.4		1.8	"	44.6	7.7	107	80-120	5	20	
Lead	42.9		6.7	"	44.6	7.8	79	80-120	16	20	QM-07
Molybdenum	39.5		1.8	"	44.6	ND	89	80-120	15	20	
Nickel	49.2		2.7	"	44.6	4.8	100	80-120	10	20	
Selenium	34.6		8.9	"	44.6	ND	78	80-120	4	20	QM-07
Silver	5.74		0.62	"	4.46	0.97	107	80-120	24	20	QR-07
Thallium	36.8		8.9	"	44.6	ND	83	80-120	20	20	
Vanadium	68.1		0.89	"	44.6	22	103	80-120	4	20	
Zinc	73.9		1.8	"	44.6	27	105	80-120	9	20	



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Project: Qualex Kent, WA
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08/04/03 13:00

Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 3070461 - EPA 245/7470A										
Blank (3070461-BLK1)					Prepared: 07/30/03 Analyzed: 07/31/03					
Mercury	ND	0.032	0.20	ug/l						
Laboratory Control Sample (3070461-BS1)					Prepared: 07/30/03 Analyzed: 07/31/03					
Mercury	1.50	0.032	0.20	ug/l	1.59	94	80-120			
Matrix Spike (3070461-MS1)					Source: P307372-01 Prepared: 07/30/03 Analyzed: 07/31/03					
Mercury	1.37	0.032	0.20	ug/l	1.59	ND	86	80-120		
Matrix Spike Dup (3070461-MSD1)					Source: P307372-01 Prepared: 07/30/03 Analyzed: 07/31/03					
Mercury	1.33	0.032	0.20	ug/l	1.59	ND	84	80-120	3	20
Batch 3070635 - EPA 3010A										
Blank (3070635-BLK1)					Prepared: 07/30/03 Analyzed: 07/31/03					
Antimony	27.7	24	60	ug/l						J
Iron	ND	51	300	"						
Manganese	ND	0.66	10	"						
Arsenic	ND	21	100	"						
Barium	ND	0.84	10	"						
Beryllium	ND	0.16	1.0	"						
Cadmium	ND	2.1	10	"						
Chromium	ND	2.7	10	"						
Cobalt	ND	2.8	7.0	"						
Copper	ND	2.6	10	"						
Lead	ND	18	75	"						
Molybdenum	ND	7.8	20	"						
Nickel	ND	12	30	"						
Selenium	ND	16	100	"						
Silver	ND	2.8	7.0	"						
Thallium	ND	16	100	"						
Vanadium	ND	1.8	10	"						
Zinc	ND	5.5	20	"						

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Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3070635 - EPA 3010A
Laboratory Control Sample (3070635-BS1)

Prepared: 07/30/03 Analyzed: 07/31/03

Antimony	520	24	60	ug/l	500		104	80-120			
Iron	5470	51	300	"	5000		109	80-120			
Manganese	511	0.66	10	"	500		102	80-120			
Arsenic	535	21	100	"	500		107	80-120			
Barium	523	0.84	10	"	500		105	80-120			
Beryllium	52.3	0.16	1.0	"	50.0		105	80-120			
Cadmium	54.4	2.1	10	"	50.0		109	80-120			
Chromium	520	2.7	10	"	500		104	80-120			
Cobalt	507	2.8	7.0	"	500		101	80-120			
Copper	517	2.6	10	"	500		103	80-120			
Lead	499	18	75	"	500		100	80-120			
Molybdenum	520	7.8	20	"	500		104	80-120			
Nickel	519	12	30	"	500		104	80-120			
Selenium	487	16	100	"	500		97	80-120			
Silver	50.9	2.8	7.0	"	50.0		102	80-120			
Thallium	514	16	100	"	500		103	80-120			
Vanadium	523	1.8	10	"	500		105	80-120			
Zinc	500	5.5	20	"	500		100	80-120			

Matrix Spike (3070635-MS1)

Source: P307372-01

Prepared: 07/30/03 Analyzed: 07/31/03

Antimony	517	24	60	ug/l	500	ND	103	80-120			
Iron	5340	51	300	"	5000	84	105	80-120			
Manganese	507	0.66	10	"	500	13	99	80-120			
Arsenic	520	21	100	"	500	ND	104	80-120			
Barium	546	0.84	10	"	500	47	100	80-120			
Beryllium	50.4	0.16	1.0	"	50.0	0.54	100	80-120			
Cadmium	50.8	2.1	10	"	50.0	ND	102	80-120			
Chromium	514	2.7	10	"	500	10	101	80-120			
Cobalt	490	2.8	7.0	"	500	4.0	97	80-120			
Copper	499	2.6	10	"	500	11	98	80-120			
Lead	506	18	75	"	500	ND	101	80-120			
Molybdenum	509	7.8	20	"	500	ND	102	80-120			
Nickel	506	12	30	"	500	ND	101	80-120			
Selenium	501	16	100	"	500	ND	100	80-120			

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08/04/03 13:00

Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 3070635 - EPA 3010A										
Matrix Spike (3070635-MS1)		Source: P307372-01			Prepared: 07/30/03		Analyzed: 07/31/03			
Silver	49.4	2.8	7.0	ug/l	50.0	ND	99	80-120		
Thallium	482	16	100	"	500	ND	96	80-120		
Vanadium	510	1.8	10	"	500	3.0	101	80-120		
Zinc	505	5.5	20	"	500	43	92	80-120		
Matrix Spike Dup (3070635-MSD1)		Source: P307372-01			Prepared: 07/30/03		Analyzed: 07/31/03			
Antimony	496	24	60	ug/l	500	ND	99	80-120	4	20
Iron	5140	51	300	"	5000	84	101	80-120	4	20
Manganese	491	0.66	10	"	500	13	96	80-120	3	20
Arsenic	505	21	100	"	500	ND	101	80-120	3	20
Barium	544	0.84	10	"	500	47	99	80-120	0.4	20
Beryllium	49.1	0.16	1.0	"	50.0	0.54	97	80-120	3	20
Cadmium	48.0	2.1	10	"	50.0	ND	96	80-120	6	20
Chromium	499	2.7	10	"	500	10	98	80-120	3	20
Cobalt	470	2.8	7.0	"	500	4.0	93	80-120	4	20
Copper	497	2.6	10	"	500	11	97	80-120	0.4	20
Lead	478	18	75	"	500	ND	96	80-120	6	20
Molybdenum	498	7.8	20	"	500	ND	100	80-120	2	20
Nickel	494	12	30	"	500	ND	99	80-120	2	20
Selenium	481	16	100	"	500	ND	96	80-120	4	20
Silver	49.6	2.8	7.0	"	50.0	ND	99	80-120	0.4	20
Thallium	499	16	100	"	500	ND	100	80-120	3	20
Vanadium	496	1.8	10	"	500	3.0	99	80-120	3	20
Zinc	496	5.5	20	"	500	43	91	80-120	2	20

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Project: Qualtex Kent, WA
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08/04/03 13:00

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Batch 3070577 - EPA 5030 soils									
Blank (3070577-BL.K1)					Prepared & Analyzed: 07/28/03				
Acetone	ND		50	ug/kg					
Benzene	ND		5.0	"					
Bromobenzene	ND		5.0	"					
Bromochloromethane	ND		5.0	"					
Bromodichloromethane	ND		5.0	"					
Bromoform	ND		5.0	"					
Bromomethane	ND		10	"					
2-Butanone	ND		10	"					
n-Butylbenzene	ND		5.0	"					
sec-Butylbenzene	ND		5.0	"					
tert-Butylbenzene	ND		5.0	"					
Carbon disulfide	ND		10	"					
Carbon tetrachloride	ND		5.0	"					
Chlorobenzene	ND		5.0	"					
Chloroethane	ND		5.0	"					
2-Chloroethylvinyl ether	ND		5.0	"					
Chloroform	ND		5.0	"					
Chloromethane	ND		5.0	"					
2-Chlorotoluene	ND		5.0	"					
4-Chlorotoluene	ND		5.0	"					
Dibromochloromethane	ND		5.0	"					
1,2-Dibromo-3-chloropropane	ND		5.0	"					
1,2-Dibromoethane (EDB)	ND		5.0	"					
Dibromomethane	ND		5.0	"					
1,2-Dichlorobenzene	ND		5.0	"					
1,3-Dichlorobenzene	ND		5.0	"					
1,4-Dichlorobenzene	ND		5.0	"					
Dichlorodifluoromethane	ND		5.0	"					
1,1-Dichloroethane	ND		5.0	"					
1,2-Dichloroethane	ND		5.0	"					
1,1-Dichloroethene	ND		5.0	"					
cis-1,2-Dichloroethene	ND		5.0	"					
trans-1,2-Dichloroethene	ND		5.0	"					
1,2-Dichloropropane	ND		5.0	"					

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Project: Qualex Kent, WA
Project Number: [none]
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08/04/03 13:00

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3070577 - EPA 5030 soils											
Blank (3070577-BLK1)						Prepared & Analyzed: 07/28/03					
1,3-Dichloropropane	ND		5.0	ug/kg							
2,2-Dichloropropane	ND		5.0	"							
1,1-Dichloropropane	ND		5.0	"							
cis-1,3-Dichloropropene	ND		5.0	"							
trans-1,3-Dichloropropene	ND		5.0	"							
Ethylbenzene	ND		5.0	"							
Freon 113	ND		5.0	"							
Hexachlorobutadiene	ND		5.0	"							
2-Hexanone	ND		10	"							
Isopropylbenzene	ND		5.0	"							
p-Isopropyltoluene	ND		5.0	"							
Methylene chloride	ND		5.0	"							
4-Methyl-2-pentanone	ND		10	"							
Methyl tert-butyl ether	ND		5.0	"							
Naphthalene	ND		5.0	"							
n-Propylbenzene	ND		5.0	"							
Styrene	ND		5.0	"							
1,1,2,2-Tetrachloroethane	ND		5.0	"							
1,1,1,2-Tetrachloroethane	ND		5.0	"							
Tetrachloroethene	ND		5.0	"							
Toluene	ND		5.0	"							
1,2,3-Trichlorobenzene	ND		5.0	"							
1,2,4-Trichlorobenzene	ND		5.0	"							
1,1,2-Trichloroethane	ND		5.0	"							
1,1,1-Trichloroethane	ND		5.0	"							
Trichloroethene	ND		5.0	"							
Trichlorofluoromethane	ND		5.0	"							
1,2,3-Trichloropropane	ND		5.0	"							
1,3,5-Trimethylbenzene	ND		5.0	"							
1,2,4-Trimethylbenzene	ND		5.0	"							
Vinyl acetate	ND		10	"							
Vinyl chloride	ND		5.0	"							
m,p-Xylene	ND		5.0	"							
o-Xylene	ND		5.0	"							

Sequoia Analytical - Petaluma

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

Geologica Inc.
594 Howard St., Suite 400
San Francisco CA, 94105

Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P307466
Reported:
08/04/03 13:00

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3070577 - EPA 5030 soils											
Blank (3070577-BLK1)						Prepared & Analyzed: 07/28/03					
Surrogate: Dibromofluoromethane	40.9			ug/kg	45.0		91	81-126			
Surrogate: 1,2-Dichloroethane-d4	41.1			"	45.0		91	73-131			
Surrogate: Toluene-d8	42.9			"	45.0		95	82-129			
Surrogate: 4-Bromofluorobenzene	45.0			"	45.0		100	74-131			
Laboratory Control Sample (3070577-BS1)						Prepared & Analyzed: 07/28/03					
Benzene	41.2		5.0	ug/kg	50.0		82	75-123			
Chlorobenzene	41.3		5.0	"	50.0		83	79-123			
1,1-Dichloroethene	41.3		5.0	"	50.0		83	77-128			
Toluene	38.4		5.0	"	50.0		77	76-123			
Trichloroethene	38.7		5.0	"	50.0		77	72-119			
Surrogate: Dibromofluoromethane	41.2			"	45.0		92	81-126			
Surrogate: 1,2-Dichloroethane-d4	40.9			"	45.0		91	73-131			
Surrogate: Toluene-d8	43.3			"	45.0		96	82-129			
Surrogate: 4-Bromofluorobenzene	45.7			"	45.0		102	74-131			
Matrix Spike (3070577-MS1)						Source: P307420-01	Prepared & Analyzed: 07/28/03				
Benzene	45.4		5.0	ug/kg	50.0	ND	91	75-123			
Chlorobenzene	45.6		5.0	"	50.0	ND	91	79-123			
1,1-Dichloroethene	44.4		5.0	"	50.0	ND	89	77-128			
Toluene	42.7		5.0	"	50.0	1.9	82	76-123			
Trichloroethene	48.2		5.0	"	50.0	ND	96	72-119			
Surrogate: Dibromofluoromethane	40.7			"	45.0		90	81-126			
Surrogate: 1,2-Dichloroethane-d4	40.2			"	45.0		89	73-131			
Surrogate: Toluene-d8	42.9			"	45.0		95	82-129			
Surrogate: 4-Bromofluorobenzene	44.5			"	45.0		99	74-131			
Matrix Spike Dup (3070577-MSD1)						Source: P307420-01	Prepared & Analyzed: 07/28/03				
Benzene	46.4		5.0	ug/kg	50.0	ND	93	75-123	2	35	
Chlorobenzene	45.7		5.0	"	50.0	ND	91	79-123	0.2	35	
1,1-Dichloroethene	44.8		5.0	"	50.0	ND	90	77-128	0.9	35	
Toluene	42.9		5.0	"	50.0	1.9	82	76-123	0.5	35	
Trichloroethene	49.6		5.0	"	50.0	ND	99	72-119	3	35	
Surrogate: Dibromofluoromethane	40.8			"	45.0		91	81-126			
Surrogate: 1,2-Dichloroethane-d4	39.8			"	45.0		88	73-131			
Surrogate: Toluene-d8	43.0			"	45.0		96	82-129			

Sequoia Analytical - Petaluma

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Geologica Inc.
594 Howard St., Suite 400
San Francisco CA, 94105

Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P307466
Reported:
08/04/03 13:00

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%RHC Limits	RPD	RPD Limit	Notes
Batch 3070577 - EPA 5030 soils											
Matrix Spike Dup (3070577-MSD1)			Source: P307420-01			Prepared & Analyzed: 07/28/03					
Surrogate: 4-Bromofluorobenzene	44.8			ug/kg	45.0		100	74-131			
Batch 3070681 - EPA 5030 waters											
Blank (3070681-BLK1)			Prepared & Analyzed: 07/31/03								
Acetone	ND		10	ug/l							
Benzene	ND		1.0	"							
Bromobenzene	ND		1.0	"							
Bromochloromethane	ND		1.0	"							
Bromodichloromethane	ND		1.0	"							
Bromoform	ND		1.0	"							
Bromomethane	ND		1.0	"							
2-Butanone	ND		10	"							
n-Butylbenzene	ND		1.0	"							
sec-Butylbenzene	ND		1.0	"							
tert-Butylbenzene	ND		1.0	"							
Carbon disulfide	ND		10	"							
Carbon tetrachloride	ND		1.0	"							
Chlorobenzene	ND		1.0	"							
Chloroethane	ND		1.0	"							
Chloroform	ND		1.0	"							
Chloromethane	ND		1.0	"							
2-Chlorotoluene	ND		1.0	"							
4-Chlorotoluene	ND		1.0	"							
Dibromochloromethane	ND		1.0	"							
1,2-Dibromo-3-chloropropane	ND		1.0	"							
1,2-Dibromoethane (EDB)	ND		1.0	"							
Dibromomethane	ND		1.0	"							
1,2-Dichlorobenzene	ND		1.0	"							
1,3-Dichlorobenzene	ND		1.0	"							
1,4-Dichlorobenzene	ND		1.0	"							
Dichlorodifluoromethane	ND		1.0	"							
1,1-Dichloroethane	ND		1.0	"							
1,2-Dichloroethane	ND		1.0	"							
1,1-Dichloroethene	ND		1.0	"							

Sequoia Analytical - Petaluma

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Geologica Inc.
594 Howard St., Suite 400
San Francisco CA, 94105

Project: Qualix Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P307466
Reported:
08/04/03 13:00

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Batch 3070681 - EPA 5030 waters									
Blank (3070681-BL.K1)					Prepared & Analyzed: 07/31/03				
cis-1,2-Dichloroethene	ND		1.0	ug/l					
trans-1,2-Dichloroethene	ND		1.0	"					
1,2-Dichloropropane	ND		1.0	"					
1,3-Dichloropropane	ND		1.0	"					
2,2-Dichloropropane	ND		1.0	"					
1,1-Dichloropropene	ND		1.0	"					
cis-1,3-Dichloropropene	ND		1.0	"					
trans-1,3-Dichloropropene	ND		1.0	"					
Ethylbenzene	ND		1.0	"					
Freon 113	ND		1.0	"					
Hexachlorobutadiene	ND		1.0	"					
2-Hexanone	ND		10	"					
Isopropylbenzene	ND		1.0	"					
p-Isopropyltoluene	ND		1.0	"					
Methylene chloride	ND		1.0	"					
4-Methyl-2-pentanone	ND		10	"					
Methyl tert-butyl ether	ND		1.0	"					
Naphthalene	ND		1.0	"					
n-Propylbenzene	ND		1.0	"					
Styrene	ND		1.0	"					
1,1,2,2-Tetrachloroethane	ND		1.0	"					
1,1,1,2-Tetrachloroethane	ND		1.0	"					
Tetrachloroethene	ND		1.0	"					
Toluene	ND		1.0	"					
1,2,3-Trichlorobenzene	ND		1.0	"					
1,2,4-Trichlorobenzene	ND		1.0	"					
1,1,2-Trichloroethane	ND		1.0	"					
1,1,1-Trichloroethane	ND		1.0	"					
Trichloroethene	ND		1.0	"					
Trichlorofluoromethane	ND		1.0	"					
1,2,3-Trichloropropane	ND		1.0	"					
1,3,5-Trimethylbenzene	ND		1.0	"					
1,2,4-Trimethylbenzene	ND		1.0	"					
Vinyl acetate	ND		20	"					

Sequoia Analytical - Petaluma

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Petaluma, CA 94954
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Geologica Inc.
594 Howard St., Suite 400
San Francisco CA, 94105

Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P307466
Reported:
08/04/03 13:00

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3070681 - EPA 5030 waters											
Blank (3070681-BL.K1)						Prepared & Analyzed: 07/31/03					
Vinyl chloride	ND		1.0	ug/l							
m,p-Xylene	ND		1.0	"							
o-Xylene	ND		1.0	"							
Surrogate: Dibromofluoromethane	5.11			"	4.50		114	84-122			
Surrogate: 1,2-Dichloroethane-d4	4.63			"	4.50		103	74-135			
Surrogate: Toluene-d8	4.46			"	4.50		99	84-119			
Surrogate: 4-Bromofluorobenzene	3.81			"	4.50		85	86-119			S-LIM
Laboratory Control Sample (3070681-BS1)						Prepared & Analyzed: 07/31/03					
Benzene	5.48		1.0	ug/l	5.00		110	81-118			
Chlorobenzene	5.96		1.0	"	5.00		119	88-119			
1,1-Dichloroethene	5.82		1.0	"	5.00		116	77-121			
Toluene	5.74		1.0	"	5.00		115	84-119			
Trichloroethene	5.59		1.0	"	5.00		112	83-126			
Surrogate: Dibromofluoromethane	5.28			"	4.50		117	84-122			
Surrogate: 1,2-Dichloroethane-d4	4.81			"	4.50		107	74-135			
Surrogate: Toluene-d8	4.52			"	4.50		100	84-119			
Surrogate: 4-Bromofluorobenzene	4.58			"	4.50		102	86-119			
Laboratory Control Sample Dup (3070681-BSD1)						Prepared & Analyzed: 07/31/03					
Benzene	5.30		1.0	ug/l	5.00		106	81-118	3	20	
Chlorobenzene	5.67		1.0	"	5.00		113	88-119	5	20	
1,1-Dichloroethene	5.31		1.0	"	5.00		106	77-121	9	20	
Toluene	5.54		1.0	"	5.00		111	84-119	4	20	
Trichloroethene	5.26		1.0	"	5.00		105	83-126	6	20	
Surrogate: Dibromofluoromethane	5.00			"	4.50		111	84-122			
Surrogate: 1,2-Dichloroethane-d4	4.48			"	4.50		100	74-135			
Surrogate: Toluene-d8	4.50			"	4.50		100	84-119			
Surrogate: 4-Bromofluorobenzene	4.60			"	4.50		102	86-119			

Sequoia Analytical - Petaluma

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Geologica Inc.
594 Howard St., Suite 400
San Francisco CA, 94105

Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P307466
Reported:
08/04/03 13:00

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3070562 - General Preparation											
Duplicate (3070562-DUP1)			Source: P307373-01			Prepared & Analyzed: 07/25/03					
pH	7.45		2.00	pH Units		7.41			0.5	20	
Duplicate (3070562-DUP2)			Source: P307466-01			Prepared & Analyzed: 07/25/03					
pH	6.51		2.00	pH Units		6.57			0.9	20	
Batch 3070618 - General Preparation											
Duplicate (3070618-DUP1)			Source: P307466-02			Prepared & Analyzed: 07/25/03					
pH	8.09		2.00	pH Units		8.05			0.5	20	
Batch 3070665 - General Preparation											
Blank (3070665-BLK1)			Prepared: 07/31/03 Analyzed: 08/01/03								
Cyanide (total)	ND		0.0050	mg/l							
Laboratory Control Sample (3070665-BS1)			Prepared: 07/31/03 Analyzed: 08/01/03								
Cyanide (total)	0.214		0.0050	mg/l	0.200		107	80-120			
Matrix Spike (3070665-MS1)			Source: P307369-01			Prepared: 07/31/03 Analyzed: 08/01/03					
Cyanide (total)	0.152		0.0050	mg/l	0.200	ND	76	75-125			
Matrix Spike Dup (3070665-MSD1)			Source: P307369-01			Prepared: 07/31/03 Analyzed: 08/01/03					
Cyanide (total)	0.153		0.0050	mg/l	0.200	ND	76	75-125	0.7	20	
Batch 3070666 - General Preparation											
Blank (3070666-BLK1)			Prepared: 07/31/03 Analyzed: 08/01/03								
Cyanide (total)	ND		0.50	mg/kg							

Geologica Inc.
594 Howard St., Suite 400
San Francisco CA, 94105

Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P307466
Reported:
08/04/03 13:00

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 3070666 - General Preparation										
Laboratory Control Sample (3070666-BS1)					Prepared: 07/31/03 Analyzed: 08/01/03					
Cyanide (total)	5.37		0.50	mg/kg	5.00		107	80-120		
Matrix Spike (3070666-MS1)					Source: P307466-02 Prepared: 07/31/03 Analyzed: 08/01/03					
Cyanide (total)	5.37		0.50	mg/kg	5.00	ND	107	75-125		
Matrix Spike Dup (3070666-MSD1)					Source: P307466-02 Prepared: 07/31/03 Analyzed: 08/01/03					
Cyanide (total)	5.31		0.50	mg/kg	5.00	ND	106	75-125	1	20

Geologica Inc.
594 Howard St., Suite 400
San Francisco CA, 94105

Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P307466
Reported:
08/04/03 13:00

Anions by EPA Method 300.0 - Quality Control Sequoia Analytical - Petaluma

Analytic	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3070560 - General Preparation											
Blank (3070560-BLK1)						Prepared & Analyzed: 07/25/03					
Nitrate as N	ND		0.20	mg/l							
Sulfate as SO ₄	ND		1.0	"							
Laboratory Control Sample (3070560-BS1)						Prepared & Analyzed: 07/25/03					
Nitrate as N	9.90		0.20	mg/l	10.0		99	90-110			
Sulfate as SO ₄	10.1		1.0	"	10.0		101	90-110			
Matrix Spike (3070560-MS1)						Source: P307475-01 Prepared & Analyzed: 07/25/03					
Nitrate as N	245		10	mg/l	250	1.8	97	80-120			
Sulfate as SO ₄	415		50	"	250	140	110	80-120			
Matrix Spike Dup (3070560-MSD1)						Source: P307475-01 Prepared & Analyzed: 07/25/03					
Nitrate as N	246		10	mg/l	250	1.8	98	80-120	0.4	20	
Sulfate as SO ₄	403		50	"	250	140	105	80-120	3	20	
Batch 3070590 - General Preparation											
Blank (3070590-BLK1)						Prepared & Analyzed: 07/25/03					
Nitrate as N	ND		2.0	mg/kg							
Sulfate as SO ₄	ND		10	"							
Laboratory Control Sample (3070590-BS1)						Prepared & Analyzed: 07/25/03					
Nitrate as N	99.8		2.0	mg/kg	100		100	90-110			
Sulfate as SO ₄	103		10	"	100		103	90-110			
Matrix Spike (3070590-MS1)						Source: P307482-01 Prepared & Analyzed: 07/25/03					
Nitrate as N	95.8		4.0	mg/kg	100	0.58	95	80-120			
Sulfate as SO ₄	105		20	"	100	12	93	80-120			

Geologica Inc.
594 Howard St., Suite 400
San Francisco CA, 94105

Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P307466
Reported:
08/04/03 13:00

Anions by EPA Method 300.0 - Quality Control Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3070590 - General Preparation

Matrix Spike Dup (3070590-MSD1)		Source: P307482-01			Prepared & Analyzed: 07/25/03						
Nitrate as N	97.0	4.0	mg/kg	100	0.58	96	80-120	1	20		
Sulfate as SO ₄	110	20	"	100	12	98	80-120	5	20		



Geologica Inc.
594 Howard St., Suite 400
San Francisco CA, 94105

Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P307466
Reported:
08/04/03 13:00

Notes and Definitions

HT-01 This sample was received beyond the EPA recommended holding time. The results may still be useful for their intended purpose.

J Estimated value.

QM-07 The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

QR-07 The RPD was outside control limits. The results may still be useful for their intended purpose.

R-04 The Reporting Limits for this analysis are elevated due to sample foaming.

S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

S-LIM The surrogate recovery was outside control limits. The result may still be useful for its intended purpose.

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

RPD Relative Percent Difference



SEQUOIA ANALYTICAL CHAIN OF CUSTODY

- ☐ 885 Jarvis Drive • Morgan Hill, CA 95037 • (408) 775-9600 • FAX (408) 782-5308
- ☐ 1455 McDowell Blvd., Suite D. • Petaluma, CA 94954 • (707) 792-1865 • FAX (707) 792-0342
- ☐ 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 • FAX (916) 921-0700
- ☐ 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 • FAX (650) 232-9612
- ☐ 404 N. Wigel Lane • Walnut Creek, CA 94598 • (925) 938-8600 • FAX (925) 938-9673

REVISAL

Company Name: Sequoia Analytical

Mailing Address: 754 Alameda St.

City: SE State: CA Zip Code: 94105

Telephone: 415 577-7817 Fax #: 415 577-7870

Report To: B. Auger E-mail Address: B.auger@sequoia-anal.com P.O. #:

Sampler: Keyhole

Turnaround: 10-15 Working Days Date / Time Results Required:

Time: 7 Working Days

☐ 72 Hours ☐ 48 Hours ☐ 24 Hours ☐ 2-8 Hours

MANDATORY: ☐ SDWA (Drinking Water) ☐ CWA (Public Water) ☐ RCRA (Hazardous Waste) ☐ Other

ANALYSES REQUESTED (Please provide method):

PH-240 (pH) PH-240 (pH) VOC (240) ANALYST 5-15 (240) CHLORIDE (240) BORON (240) Fe-Mn Discolor

Client: Sample ID: Date / Time Sampled: 7/24/03 0940 Matrix Desc: W # of Cont: 7 Container Type: 2.0L glass Sequoia's Sample #:

1. 1.1M-1-072403 2. Comp-1 3. 2/24/03 0950 4. 5 5. 1 6. 2.0L glass 7. X 8. X 9. X 10. X 11. X 12. X 13. X 14. X 15. X 16. X 17. X 18. X 19. X 20. X 21. X 22. X 23. X 24. X 25. X 26. X 27. X 28. X 29. X 30. X 31. X 32. X 33. X 34. X 35. X 36. X 37. X 38. X 39. X 40. X 41. X 42. X 43. X 44. X 45. X 46. X 47. X 48. X 49. X 50. X 51. X 52. X 53. X 54. X 55. X 56. X 57. X 58. X 59. X 60. X 61. X 62. X 63. X 64. X 65. X 66. X 67. X 68. X 69. X 70. X 71. X 72. X 73. X 74. X 75. X 76. X 77. X 78. X 79. X 80. X 81. X 82. X 83. X 84. X 85. X 86. X 87. X 88. X 89. X 90. X 91. X 92. X 93. X 94. X 95. X 96. X 97. X 98. X 99. X 100. X

Comments (If required):

COPIES OF CHAIN OF CUSTODY: ☐ SEALS INTACT ☐ NOT INTACT ☐ OTHER: TEMPERATURE 5.2

Received By: [Signature] Date / Time: 7/25/03 1630

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Received By: [Signature] Date / Time: 7/25/03 1630

Where Sequoia

Yes/No: Sequoia

Print Name

Page 1 of 1



SEQUOIA ANALYTICAL

CHAIN OF CUSTODY

- ☐ 885 Jarvis Drive • Morgan Hill, CA 95037 • (408) 776-9600 • FAX (408) 782-6308
- ☐ 1455 McDowell Blvd, Suite D. • Petaluma, CA 94954 • (707) 792-1865 • FAX (707) 792-0342
- ☐ 819 Stiker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 • FAX (916) 921-0100
- ☐ 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 • FAX (650) 232-9612
- ☐ 404 N. Wigel Lane • Walnut Creek, CA 94598 • (925) 988-9600 • FAX (925) 988-9673

Company Name: Galileo, Inc.

Project: Quartz-Kent

Mailing Address: 7594 Howard St. Ste 400

Billing Address (if different):

City: SF State: CA Zip Code: 94105

Telephone: 415 572 7883 Fax #: 415 572 7870 P.O. #:

Report To: B. Avery E-mail Address: B.Avery@Galileo.net QC Data: ☐ Level II (standard) ☐ Level III ☐ Level IV

Sampler: K. Varnum Date / Time Results Required: Sequoia's Work Order #

Turnaround: 10-15 Working Days ☐ 72 Hours ☐ 48 Hours ☐ 24 Hours ☐ 2-8 Hours

Time: ☐ (Standard TAT) ☐ 7 Working Days ☐ 5 Working Days

MANDATORY: ☐ SDWA (Drinking Water) ☐ CWA (Waste Water) ☐ RCRA (Hazardous Waste) ☐ Other

ANALYSES REQUESTED (Please provide method)

☐ PH-D/100 (8015) ☐ PH-B (8015) ☐ VOCs (8260) ☐ Nitrate-Sulfates (750) ☐ Cyanide (3552/3500) ☐ CAM17 (6010/400) ☐ PH

Comments/Temp. (if required)

Client Sample I.D.	Date / Time Sampled	Matrix Desc.	# of Cont.	Container Type	Sequoia's Sample #	PH-D/100 (8015)	PH-B (8015)	VOCs (8260)	Nitrate-Sulfates (750)	Cyanide (3552/3500)	CAM17 (6010/400)	PH	Comments/Temp. (if required)
1. Mw-1-072403	7/24/03 0840	W	7	3-Lb. 2-Lb. Sample	P307466-01	x	x	x	x	x	x		
2. Comp-1	7/24/03 0950	S	1	4-8oz glass	-02	x	x	x	x	x	x		
3.													
4.													
5.													
6.													
7.													
8.													
9.													
10.													

COOLER CUSTODY SEALS INTACT

NOT INTACT

COOLER TEMPERATURE: 5.2

Relinquished By: Received By: Abolruz Date / Time: 7/25/03 1030

Relinquished By: Received By: Date / Time:

Relinquished By: Received By: Date / Time:

Relinquished By: Received By: Date / Time:

Were Samples Received in Good Condition? ☐ Yes ☐ No Samples on Ice? ☐ Yes ☐ No Method of Shipment: Page ___ of ___

White: Sequoia

Yellow: Sequoia

Pink: Client

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: Geoborgia
 REC. BY (PRINT) HC1
 WORKORDER: P301466

DATE Received at Lab: 7/25/03
 TIME Received at Lab: 11:03
 LOG IN DATE: 7/25/03

(Drinking water) for regulatory purposes: YES/NO
 (Wastewater) for regulatory purposes: YES/NO

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	#	CLIENT ID	DESCRIPTION	SAMPLE MATRIX	DATE SAMPLED	CONDITION (ETC.)
1. Custody Seal(s)	Present / <u>Absent</u> Intact / Broken*			MU-1-072403	SXP 120 2500 H ₂ O 2X14	W	7/24	
2. Chain-of-Custody	<u>Present</u> / Absent*			CONF-1	802	↓	↓	+1250 NAOH
3. Traffic Reports or Packing List:	Present / <u>Absent</u> <u>Airbill</u> / Sticker							
4. Airbill:	<u>Present</u> / Absent							
5. Airbill #:	<u>83969632</u> 8407							
6. Sample Labels:	<u>Present</u> / Absent							
7. Sample IDs:	<u>Asid</u> / Not Listed							
8. Sample Condition:	<u>Intact</u> / Broken* / Leaking*							
9. Does information on custody reports, traffic reports and sample labels agree?	<u>Yes</u> / No*							
10. Sample received within hold time:	<u>Yes</u> / No*							
11. Proper Preservatives used:	<u>Yes</u> / No*							
12. Temp Rec. at Lab:	<u>Yes</u> / No*							
(Acceptance range for samples requiring thermal pres.: +4/-2°C)								

*If Circled, contact Project Manager and attach record of resolution.



**Sequoia
Analytical**

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

5 August, 2003

Brian Aubry
Geologica Inc.
594 Howard St., Suite 400
San Francisco, CA 94105

RE: Qualex Kent, WA
Work Order: P308033

Enclosed are the results of analyses for samples received by the laboratory on 08/04/03 15:41. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angelee Carl
Project Manager

CA ELAP Certificate #2374



Geologica Inc.
594 Howard St., Suite 400
San Francisco CA, 94105

Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P308033
Reported:
08/05/03 15:14

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1-072403	P308033-01	Water	07/24/03 09:40	08/04/03 15:41



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Petaluma, CA 94954
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FAX (707) 792-0342
www.sequoialabs.com

Geologica Inc.
594 Howard St., Suite 400
San Francisco CA, 94105

Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P308033
Reported:
08/05/03 15:14

Dissolved Metals by EPA 200 Series Methods

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1-072403 (P308033-01) Water Sampled: 07/24/03 09:40 Received: 08/04/03 15:41									
Arsenic	23	5.0	ug/l	1	3070635	07/30/03	08/05/03	EPA 200.8	
Selenium	54	5.0	"	"	"	"	"	"	



Geologica Inc.
594 Howard St., Suite 400
San Francisco CA, 94105

Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P308033
Reported:
08/05/03 15:14

Dissolved Metals by EPA 200 Series Methods - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3070635 - EPA 3010A

Blank (3070635-BLK1)

Prepared: 07/30/03 Analyzed: 08/05/03

Arsenic	ND	5.0	ug/l
Selenium	ND	5.0	"

Laboratory Control Sample (3070635-BS1)

Prepared: 07/30/03 Analyzed: 08/05/03

Arsenic	518	5.0	ug/l	500	104	80-120
Selenium	494	5.0	"	500	99	80-120



Geologica Inc.
594 Howard St., Suite 400
San Francisco CA, 94105

Project: Qualex Kent, WA
Project Number: [none]
Project Manager: Brian Aubry

P308033
Reported:
08/05/03 15:14

Notes and Definitions

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
RPD Relative Percent Difference



SEQUOIA ANALYTICAL CHAIN OF CUSTODY

- ☐ 885 Jarvis Drive • Morgan Hill, CA 95037 • (408) 776-9600 • FAX (408) 782-6308
☐ 1455 McDowell Blvd, Suite D • Petaluma, CA 94954 • (707) 792-1865 • FAX (707) 792-0342
☐ 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 • FAX (916) 921-0100
☐ 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 • FAX (650) 232-9612
☐ 404 N. Wigel Lane • Walnut Creek, CA 94598 • (925) 988-9600 • FAX (925) 988-9673

Company Name: Galbreath, Inc.

Project: Black-Kent

Mailing Address: # 574 Howard St. Ste 400

Billing Address (if different):

City: SF State: CA Zip Code: 94105

Telephone: 415 572 7887 Fax #: 415 572 7890 P.O. #:

Report To: B. Aubrey E-mail Address: Baube@Galbreath.net QC Data: ☐ Level II (standard) ☐ Level III ☐ Level IV

Sampler: K. Venzago Date / Time Results Required: Sequoia's Work Order #

Turnaround: 10-15 Working Days ☐ 72 Hours ☐ 48 Hours ☐ 24 Hours ☐ 7 Working Days ☐ 5 Working Days

MANDATORY: ☐ SDWA (Drinking Water) ☐ CWA (Waste Water) ☐ RCRA (Hazardous Waste) ☐ Other

ANALYSES REQUESTED (Please provide method)

PH-0/10 (801)	PH-8 (801)	VOCs (826)	NITRATE SULFATES (826)	CYNIDE (826)	AMV7 (601/801)	PH
---------------	------------	------------	------------------------	--------------	----------------	----

Client Sample I.D.	Date / Time Sampled	Matrix Desc.	# of Cont.	Container Type	Sequoia's Sample #	PH-0/10 (801)	PH-8 (801)	VOCs (826)	NITRATE SULFATES (826)	CYNIDE (826)	AMV7 (601/801)	PH	Comments/Temp. (if required)
1. MW-1-072403	7/24/03 0940	W	7	3-lb 3.1-lb 2.1-lb Amber	P3074166 01	X	X	X	X	X	X		
2. Comp-1	7/24/03 0950	S	1	1-8oz glass	-02 X	X	X	X	X	X	X		
3.													
4.													
5.													
6.													
7.													
8.													
9.													
10.													

Relinquished By: _____ Received By: Abokunzi Date / Time: 7/25/03 1030

Relinquished By: _____ Received By: _____ Date / Time: _____

Relinquished By: _____ Received By: _____ Date / Time: _____

Were Samples Received in Good Condition? ☐ Yes ☐ No Samples on Ice? ☐ Yes ☐ No Method of Shipment: _____ Page _____ of _____

White: Sequoia

Yellow: Sequoia

Pink: Client

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: Freeborn
 REC. BY (PRINT) ACI
 WORKORDER: 9301466

DATE Received at Lab: 7/25/03
 TIME Received at Lab: 11:03
 LOG IN DATE: 7/25/03

(Drinking water) for regulatory purposes: YES/NO
 (Wastewater) for regulatory purposes: YES/NO

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	#	CLIENT ID	DESCRIPTION	SAMPLE MATRIX	DATE SAMPLED	CONDITION (ETC.)
1. Custody Seal(s)	Present / Absent Intact / Broken*			MM-1-072403	3x4x120 250p H ₂ O	W	7/24	
2. Chain-of-Custody	Present / Absent*			CONF-1	2x14 802	↓	↓	+130p NADH
3. Traffic Reports or Packing List:	Present / Absent Airbill / Sticker Present / Absent							
4. Airbill:	Present / Absent							
5. Airbill #:	8396 0632 8407							
6. Sample Labels:	Present / Absent Used / Not Listed							
7. Sample IDs:	on Chain-of-Custody Under / Broken* / Leaking*							
8. Sample Condition:								
9. Does information on custody reports, traffic reports and sample labels agree?								
10. Sample received within hold time:	Yes / No*							
11. Proper Preservatives used:	Yes / No*							
12. Temp Rec. at Lab:	5.7							
(Acceptance range for samples requiring thermal pres.: 4+-2°C)								

*If Circled, contact Project Manager and attach record of resolution.