



## Phase II Environmental Investigation

Bridgeside Shopping Center  
Alameda, California

ENVIRONMENTAL MANAGEMENT, INC.  
July 14, 2003  
ALAMEDA COUNTY

*Prepared For:*

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1999 Harrison Street, Suite 1300  
Oakland, CA

*Prepared By:*

Northgate Environmental Management, Incorporated  
3629 Grand Avenue  
Oakland, California 94610

July 18, 2003



**northgate  
environmental  
management, inc.**

**LETTER OF TRANSMITTAL**

May 21, 2004

**Ms. Donna Drogos  
Alameda County Department of Environmental Health  
1131 Harbor Way Parkway  
Alameda, CA 94502**

*Alameda County  
MAY 25 2004  
Environmental Health*

Re: **Bridgeside Shopping Center, Alameda, California**

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**Comments: At the request of Ms. Debbie Stott of URS, we are providing a copy of the Title Page from our July 18, 2003 report for the Bridgeside Shopping Center that includes my professional license stamp.**

Sincerely,  
Northgate Environmental Management, Inc.

  
\_\_\_\_\_  
Dennis Laduzinsky, C.E.G.

**Phase II Environmental Investigation  
Bridgeside Shopping Center  
Alameda, California**


July 18, 2003

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Associate





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LETTER OF TRANSMITTAL

July 18, 2003

Gerald J. Ramiza  
McDonough, Holland & Allen  
1999 Harrison Street, Suite 1300  
Oakland, CA 94612

Re: Phase II Environmental Investigation, Bridgestone Shopping Center

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Sincerely,

Dennis Laduzinsky, C.E.G./R.E.A.

Associate.

**Phase II Environmental Investigation  
Bridgeside Shopping Center  
Alameda, California**

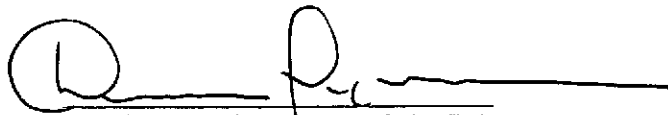
July 18, 2002

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## TABLE OF CONTENTS

1.0	INTRODUCTION AND SCOPE OF SERVICES .....	1
2.0	SITE SETTING.....	1
2.1	SITE LOCATION .....	1
2.2	GEOLOGIC SETTING .....	2
3.0	SITE HISTORY.....	2
3.1	PREVIOUS REPORTS .....	2
3.2	REGULATORY UPDATE AND AGENCY FILE REVIEW.....	3
3.3	SITE HISTORY UPDATE .....	4
3.3.1	<i>Aerial Photograph Review</i> .....	4
3.3.2	<i>Sanborn Fire Insurance Maps</i> .....	4
3.3.3	<i>Regional Environmental Conditions</i> .....	5
4.0	SOIL AND GROUNDWATER QUALITY INVESTIGATION .....	5
4.1	INVESTIGATION PROCEDURES .....	5
4.1.1	<i>Subsurface Investigation</i> .....	5
4.1.2	<i>Monitoring Well Sampling</i> .....	6
4.2	INVESTIGATION RESULTS.....	7
4.2.1	SITE-WIDE ASSESSMENT .....	7
4.2.2	DRY CLEANER EVALUATION .....	7
4.2.3	UST AREA EVALUATION.....	8
5.0	ASBESTOS INVESTIGATION .....	9
6.0	CONCLUSIONS .....	9
6.1	SITE-WIDE EVALUATION .....	10
6.2	DRY CLEANER INVESTIGATION.....	10
6.3	UST INVESTIGATION .....	11
7.0	LIMITATIONS.....	12



**TABLES**

- 1 Site-Wide Groundwater Sample Analytical Results
- 2 Dry Cleaner Area Soil Analytical Results
- 3 Dry Cleaner Area Groundwater Analytical Results
- 4 Former UST Area Soil Analytical Results
- 5 Former UST Area Groundwater Analytical Results

**FIGURES**

- 1 Site Location Map
- 2 Site Plan
- 3 Dry Cleaning Area

**APPENDIX A**

Boring Logs

**APPENDIX B**

Well Sampling Logs

**APPENDIX C**

Laboratory Analytical Reports

**APPENDIX D**

Asbestos Investigation Report



## 1.0 INTRODUCTION AND SCOPE OF SERVICES

This report presents the results of Phase II environmental investigation performed at the Bridgeside Shopping Center in Alameda, California (the "site"). The site consists of an approximate 8.5-acre parcel developed as a neighborhood shopping center. Addresses at the site range from 2523 to 2691 Blanding Avenue. A Site Location Map is shown on Figure 1 and a Site Plan is shown on Figure 2.

The purpose of the investigation has been to provide additional evaluation of environmental conditions at the site, based on our review of a Phase I environmental assessment performed at the site in 1995. It is understood that the City of Alameda is considering purchasing the shopping center. The existing buildings would be demolished and a new commercial development constructed at the site.

The scope of work for the investigation included the following services:

- Performing a supplementary site history review by reviewing historic aerial photographs and Sanborn Fire Insurance Maps;
- Updating the current regulatory status of the site by reviewing available regulatory agency publications and files;
- Reviewing government agency listings of known contaminated sites to identify off-site contamination sources that could potentially impact the site;
- Collecting and analyzing soil and groundwater samples to evaluate the potential presence of soil or groundwater contamination at the site;
- Performing an evaluation of asbestos containing materials in vacant tenant spaces at the site; and
- Preparing this report.

## 2.0 SITE SETTING

### 2.1 Site Location

The site consists of an approximate 8.5-acre parcel developed as a neighborhood shopping center. The site contains three single-story buildings that range in size from about 12,300 to 49,980 square feet. Current and former businesses at the site include a grocery store, a drug store, a dry cleaner and laundry, a photo-processing shop, and other small shops.





The site includes the street addresses 2523 to 2691 Blanding Avenue. Blanding Avenue borders the site on the west. The site is bordered on the north by a dry dock and boat repair yard (the Stone Boat Yard), and on the east by the Oakland Estuary Tidal Canal. An easement and rail line for the Southern Pacific Transportation Company borders the site on the south. The site is located in an area of general commercial land use, although some residences are located nearby to the south and west.

## 2.2 Geologic Setting

Information from unpublished geotechnical engineering reports indicates the site is underlain by unconsolidated deposits of sand, silt, and clay belonging to the Merritt Sand, of Pleistocene age. Portions of the site, especially along the Oakland Estuary, are locally underlain by artificial fill, reportedly derived from local dredging along the shore of Alameda. Fill material has been identified at the site to depths of seven feet or more.

According to the U.S. Geological Survey topographic map of the Oakland East Quadrangle, the site is relatively flat, with an elevation of approximately 10 feet above mean sea level. On a regional basis, topography slopes gently to the north or northeast.

Groundwater has been previously encountered at depths of four to 13 feet below ground surface (bgs) at the site. Borings advanced during the present investigation encountered groundwater at a depth of about 13 feet bgs. Groundwater rose in the boreholes to a depth of about seven feet bgs within about 10 minutes. On a regional basis, groundwater flow in the vicinity of the site is generally toward the north. However, groundwater flow direction can be locally variable, and is locally influenced by the Oakland Estuary Tidal Canal that borders the site on the east.

## 3.0 SITE HISTORY

Information on the history of the site is primarily derived from a Phase I Environmental Site Assessment prepared for the site in 1995 by E<sub>2</sub>C, Incorporated of San Jose, California. The information contained in that report was updated and supplemented by additional historic review performed as part of the present investigation. Summaries of the previous Phase I investigation and the supplemental investigation work are presented in the following sections.

### 3.1 Previous Reports

Information presented in a report titled *Phase I Environmental Site Assessment, Bridgeside Shopping Center, 2500-2691 Blanding Avenue, Alameda, California*, prepared on April 10, 1995 by E<sub>2</sub>C, Incorporated of San Jose, California, indicates that the existing shopping center, originally named the Ferndale Shopping Center, was constructed in 1974. Prior to that time, the site was reportedly occupied by a lumberyard and a concrete batch plant. Appended to the E<sub>2</sub>C report are a series of reports for geotechnical and environmental investigations performed at the site between 1987 and 1990 by Kaldveer Associates of Oakland, California. These reports indicate that petroleum hydrocarbons were present in soil at the south corner of the existing grocery store, most likely related to an old underground fuel storage tank (UST) that was



reportedly removed from the site in 1974 during development of the existing shopping center. A 1988 report by Kaldveer (*Additonal Soil Testing and Preliminary Investigation of Groundwater Quality, Alpha Beta #541, Alameda, California*) cites unconfirmed reports from several sources that waste hydrocarbons may have periodically been dumped on the site.

Soil samples collected during the Kaldveer investigations contained up to 1,200 parts per million (ppm) total petroleum hydrocarbons (TPH) as diesel fuel, and up to 46 ppm TPH as gasoline. Benzene and toluene were detected in a single soil sample at concentrations of 0.12 ppm and 0.08 ppm, respectively. Groundwater samples collected from three monitoring wells installed at the site by Kaldveer did not contain petroleum hydrocarbons above the laboratory method reporting limits (MRLs). However, our review indicates that these wells are not located in areas that would be likely to detect the presence of groundwater contamination associated with the UST if it were present. An August 9, 1990 letter issued by Kaldveer recommended that soils containing greater than 100 ppm TPH be excavated and removed from the site.

According to the previous Phase I report, the subject site is listed as a fuel leak site by the Alameda County Health Services Agency (ACHSA). However, according to the report, no remedial action was considered necessary, because groundwater samples collected from the three groundwater-monitoring wells installed at the site by Kaldveer did not contain hydrocarbon constituents. According to the previous Phase I report, the fuel leak case is currently closed.

The previous Phase I report also identified the presence of a dry cleaning shop that operated on the site between 1974 and 1993. No specific investigation of soil and groundwater quality was recommended in the Phase I report, as no staining, discoloration, or evidence of chemical spills were observed at the dry cleaner at that time.

In summary, the previous Phase I report concluded that there was no evidence to suggest that the subject site has been adversely impacted by past or present on-site land uses, or by known off-site contamination sources, and no additional investigation was recommended.

### 3.2 Regulatory Update and Agency File Review

As part of our investigation, we reviewed regulatory agency listings of known contaminated sites and other sites in the area registered to use or store hazardous materials, prepared by Environmental Data Resources (EDR), a regulatory database search firm. According to the EDR report, 2691 Blanding Avenue (the abandoned grocery store) is listed on the Cortese Hazardous Waste and Substances Sites list, related to an underground fuel tank leak. The Cortese list is a general listing for sites designated by the State Water Resources Control Board's Leaking Underground Storage Tank list, the Integrated Water Board's landfill list, and the California Department of Toxic Substances Control's Cal-Sites list.

The EDR report also indicates that Classic Cleaners, located on-site at 2631 Blanding Avenue, is listed as a Small-Quantity Generator of hazardous waste on the Federal EPA's Facility Index System (FINDS) list, and the California EPA's HAZNET list. The former photo-processing



shop, Fugi Trucolor Incorporated, located at 2639 Blanding Avenue, is also listed on the State's HAZNET list.

We reviewed available regulatory files for the 2631 and 2691 Blanding Avenue at the ACHSA. The file for Classic Cleaners (2631 Blanding Avenue) contained records dating back to 1986 indicating that the facility stored tetrachloroethene (PCE) on-site in quantities of less than 55 gallons. No hazardous materials storage violations or reports of chemical spills or releases were contained in the file. The facility appears to have ceased operation by March 1998.

The ACHSA file for 2691 Blanding Avenue, identified as Alpha Beta #541, contained chemical test results for three groundwater-monitoring wells sampled for petroleum hydrocarbons on April 22, 1988 and May 19, 1988. The laboratory analytical reports indicate that none of the samples contained petroleum hydrocarbons above the laboratory method reporting limits. The only other information in the file is a County hazardous materials billing adjustment form from January 23, 2001 that indicates that the site was no longer active at that time.

Although the ACHSA file for 2691 Blanding Avenue did not contain a formal "closure letter" or other regulatory correspondence, our review of the current California Department of Toxic Substances Control's Cortese database and the State Water Resources Control Board's Leaking Underground Storage Tank (LUST) list did not indicate a current listing for the site. Based on the lack of a current listing, it appears that the site has been closed by the ACHSA.

### **3.3 Site History Update**

#### **3.3.1 Aerial Photograph Review**

We reviewed historic aerial photographs of the site at approximate five-year intervals dating back to 1947, at Pacific Aerial Surveys in Oakland. The photographs indicate that the northern 2/3 of the site was developed as a lumberyard and mill, and the southern 1/3 of the site developed as a concrete batch plant from at least 1947 until sometime between 1971 and 1975. The photographs did not indicate the obvious presence of fuel storage tanks or other specific indications of chemical spills or releases at the site. Several large aboveground storage tanks were present on a triangular piece of property to the south of the site across Tilden Way in the photographs from 1947 through 1975. The materials stored in the tanks cannot be determined from the photographs. However, the site is potentially located in a general upgradient location from the subject site.

#### **3.3.2 Sanborn Fire Insurance Maps**

We reviewed Sanborn Fire Insurance Maps for the site available for the years 1897, 1948, 1950, and 1987. The 1897 maps show the subject site as mostly vacant parcels of land, with a few scattered buildings. The 1948 and 1950 maps show the northern portion of the site developed as a lumberyard and the southern portion of the site developed as a concrete mixing plant. The maps do not identify fuel tanks or other chemical storage on the site. These maps do identify the



large aboveground storage tanks located to the south across Tilden Way as tanks for gasoline and kerosene storage. The maps from 1987 show the existing shopping center buildings at the site.

### **3.3.3 Regional Environmental Conditions**

The regulatory agency database report provided by EDR indicates the presence of several former leaking underground fuel tank sites within a distance of about ¼ mile of the Bridgeside Shopping Center. However, based on our review of information in the EDR report, all of the sites located in reasonable upgradient proximity to the subject site have been formally closed by the local regulatory agencies. In our opinion, none of these sites are likely to significantly impact soil or groundwater quality at the subject site.

The EDR report indicates the presence of an Exxon USA Bulk Plant at 2001-A Versailles, as a Small-Quantity Generator on the FINDS list, but indicated that no hazardous material violations have been reported for the site. The report also indicates the presence of a closed leaking underground fuel tank site at 2001 Versailles. This listing may represent the large aboveground fuel storage tanks identified in the aerial photographs and Sanborn Fire Insurance Maps. In our opinion, a facility of this nature at this location has a reasonable potential to impact groundwater quality at the subject site.

## **4.0 SOIL AND GROUNDWATER QUALITY INVESTIGATION**

A soil and groundwater quality investigation was performed at the site to provide additional information on existing environmental conditions. The investigation evaluated soil and groundwater quality in three general areas of the site based on our review of the previous Phase I report and the additional site history review performed as described above. The three aspects of Northgate's investigation were: 1) a general assessment of groundwater quality across the entire site to evaluate potential impacts from unknown on-site or off-site contamination sources; 2) an evaluation of soil and groundwater quality at the former dry cleaners; and 3) an additional evaluation of soil and groundwater quality in the vicinity of the former UST at the south corner of the former grocery store. This latter aspect of investigation included sampling the three existing monitoring wells at the site as well as collecting additional soil and groundwater samples.

### **4.1 Investigation Procedures**

#### **4.1.1 Subsurface Investigation**

Soil and groundwater samples were collected from 17 GeoProbe borings advanced to depths of up to 16 feet bgs at the approximate locations shown on Figure 2. Borings were logged in the field in accordance with the Unified Soils Classification System. For borings located outside the buildings, continuous cores of the subsurface materials were collected using a truck-mounted GeoProbe sampler equipped with acetate liners. Upon removing the sampler from the borehole, the acetate liner containing the samples was opened at various intervals, and the soils screened for odors or other indications of the possible presence of contamination. Sample intervals



selected for chemical analysis were sealed with Teflon-lined end caps, labeled, and stored on ice in a cooler for transport to the laboratory under chain-of-custody control. Borings located inside the buildings were advanced using a limited-access GeoProbe sampling apparatus. Soil samples were collected only from discrete intervals in these borings.

Groundwater was encountered at a depth of about 13 feet bgs, and generally rose to a depth of about seven feet bgs within about 10 minutes. Groundwater samples were collected from the open boreholes using a Hydropunch-type sampling device or by inserting a temporary PVC well screen into the borehole. Samples were collected using clean plastic bailers, decanted into laboratory-supplied sample bottles, and stored on ice in a cooler for transport to the laboratory under chain-of custody control.

Soil and groundwater samples were analyzed at Torrent Laboratory, Inc., of Milpitas, California. Torrent Laboratory is certified by the California EPA for the analyses performed.

All drilling and sampling equipment was washed between borings using a non-phosphate detergent, followed by a tap water rinse. All borings were backfilled with neat cement upon completion. Soil cuttings generated during drilling were removed from the site in 5-gallon buckets and temporarily stored at Northgate's office.

#### *4.1.2 Monitoring Well Sampling*

Three existing groundwater monitoring wells installed at the site in 1988 by Kaldveer Associates were sampled during the present investigation. Prior to sampling, each well was purged of a minimum of three well casing volumes of water using disposable plastic bailers. During purging, the groundwater temperature, pH, and specific conductance were measured at regular intervals to ensure that steady-state sampling conditions were achieved prior to collecting samples. Specific conductance measurements made during this investigation indicate the water in monitoring well MW-2, located near the Oakland Estuary Tidal Canal, is likely saline. The measured specific conductance in the well was greater than 4,000 microsiemens per centimeter, which is the upper limit of the instrument used. Water in this well, and elsewhere along the western portion of the site, is likely to be in direct contact with water in the Oakland Estuary Tidal Canal. Groundwater in wells MW-1 and MW-3 had specific conductance measurements of 500 to 600 microsiemens per centimeter, indicating the water in these wells is generally fresh water. Monitoring well sampling logs are attached in Appendix B.

Groundwater samples were placed into laboratory-supplied bottles, labeled, and stored on ice in a cooler for transport to the analytical laboratory under chain of custody control. Monitoring well purge water generated during this investigation was poured back into the wells following sampling.



## 4.2 Investigation Results

The investigation results for each area of concern are presented in the following sections.

### 4.2.1 Site-Wide Assessment

A general site-wide assessment of groundwater quality was performed to evaluate potential unknown impacts related to the historic use of the site as a lumberyard and a concrete batch plant, and to evaluate possible impacts related to potential off-site contamination sources such as the former aboveground storage tank area located to the south of the site. This investigation consisted of collecting and analyzing groundwater samples from borings located in the general northern, central, and southern portions of the site (GP-1, GP-2, and GP-3, respectively on Figure 2). Groundwater samples from each boring (with the exception of GP-2) were analyzed for TPH as gasoline and diesel using EPA Method 8015B, and for volatile organic compounds (VOCs), including purgeable aromatic compounds (benzene, toluene, ethylbenzene, and xylenes, or BTEX), and methyl tert-butyl ether (MTBE), using EPA Method 8260B. It should be noted that the sample from boring GP-2 was not analyzed for TPH as diesel, as a sufficient volume of water could not be obtained from the boring. However, the water sample from boring GP-4 was analyzed for diesel to provide coverage in the central portion of the site.

Chemical test results are presented on Table 1, and the laboratory analytical reports are attached as Appendix C. As shown on the table, none of the samples contained TPH as gasoline or diesel, or VOCs above the laboratory MRLs, with the exception of the sample from GP-2, which contained 2.2 micrograms per liter ( $\mu\text{g/L}$ : parts per billion, or ppb) of MTBE.

### 4.2.2 Dry Cleaner Evaluation

The previous Phase I report indicates that a dry cleaner has operated at the site for at least 20 years. It has been our experience that soil and groundwater contamination is often associated with old dry cleaning establishments, even in the absence of direct evidence of a release. Soil and groundwater samples were collected from seven borings located in and around the dry cleaner space to evaluate potential impacts.

Boring GP-4 was located in the parking lot on the west side of the facility. Borings GP-5 and GP-6 were located south and north of the sanitary sewer line as it exits the east side of the building. Boring GP-15 was located adjacent to the rear (east) wall of the facility. Borings GP-14, GP-16, and GP-17 were located inside the facility, around the dry cleaning machinery and a small room containing a utility sink and a floor drain. Soil samples were collected for chemical analysis between the depths of 1 and 11.5 feet bgs in each boring. One groundwater sample was collected from each boring except GP-6. All soil and groundwater samples were analyzed for VOCs using EPA Method 8260B.

The soil sample analytical results are presented on Table 2, and groundwater sample test results are presented on Table 3. The laboratory analytical reports are attached in Appendix C. As



shown on the tables, VOCs were detected in the soil and water samples from all borings except GP-4 and GP-6. In general, the highest concentrations of VOCs were measured in samples collected at a depth of 1-foot bgs in borings located inside the building. Lower levels of VOCs were measured in samples collected at depths of about 5 feet bgs and deeper. Tetrachloroethene (PCE) was measured at maximum concentrations of 120 and 130 ppb in the 1 and 5 foot samples collected from boring GP-15. Trichloroethene (TCE) was measured at maximum concentrations of 84 and 150 ppb in the 5-foot samples from GP-15 and GP-17. Cis-1,2-dichloroethene (cis-1,2-DCE), a degradation product of PCE and TCE was measured at maximum concentrations of 7,900 ppb and 2,900 ppb in samples collected at a depth of 1-foot bgs in borings GP-16 and GP-17, respectively. However, the concentration of cis-1,2-DCE dropped to 94 ppb and 52 ppb in the samples collected from a depth of 5 feet bgs in these borings. VOCs were not detected above the laboratory MRLs in the soil samples collected from GP-4 and GP-6.

Cis-1,2-DCE was measured at a maximum concentration of 510 ppb in the groundwater sample collected from boring GP-14, and at concentrations of 270 and 98 ppb in samples from borings GP-15 and GP-5, respectively (Table 3). Cis-1,2-DCE was not detected above the MRL in the samples collected from boring GP-4, GP-6, and GP-17.

PCE was measured at 1.7 ppb in the groundwater sample from GP-17, and TCE was measured at 37 ppb in the sample from GP-15. Other VOCs were not detected above the laboratory MRLs in groundwater samples collected at the dry cleaners

#### 4.2.3 UST Area Evaluation

Seven borings were drilled around the former grocery store to evaluate the extent and magnitude of impact related to the former UST. Six borings (GP-7, 8, 9, 10, 12, and 13) were drilled around the south corner of the building, in the area reported to have contained the former UST. Two of these borings (GP-12 and 13) were drilled inside the grocery store. One boring (GP-11) was drilled on the eastern side of the building, between the building and the adjacent Tidal Canal. The three existing groundwater monitoring wells were also sampled.

Two soil samples (except at GP-11) and one groundwater sample (except at GP-8) from each boring were selectively analyzed for petroleum hydrocarbon compounds as gasoline and diesel using EPA Method 8015B, and BTEX compounds and MTBE using EPA Method 8021B. Soil sample analytical results are presented on Table 4, and groundwater analytical results are presented on Table 5. Laboratory analytical reports are presented in Appendix C.

As shown on Table 4, six of the 12 soil samples analyzed contained TPH as gasoline. TPH as diesel was not reported in any of the soil samples analyzed for diesel. TPH as gasoline was measured at maximum concentrations of 1,120 ppm and 263 ppm in the samples from 7.5 feet bgs and 11.5 feet bgs, respectively, at boring GP-9. Samples from depths of 7.5 and 11.5 feet in boring GP-10 contained TPH as gasoline at concentrations of 170 ppm and 32 ppm, respectively. Gasoline hydrocarbons were measured at a concentration of 214 ppm and 53.4 ppm in the 7.5 foot deep samples from GP-7 and GP-13, but gasoline was not present above the laboratory



MRL in the 11.5 foot samples from these borings. Gasoline hydrocarbons were not reported above the laboratory MRL in the soil samples collected from GP-8, and GP-12.

Benzene and MTBE were not detected above the laboratory MRL in any of the soil samples analyzed. Toluene was measured in two samples, with a maximum concentration of 1,300 ppb reported in the sample from 11.5 feet bgs in boring GP-9. Ethyl benzene was present in five samples, with a maximum concentration of 7,400 ppb in the 7.5 foot sample from GP-9. Finally, xylenes were reported in five samples, with a maximum concentration of 3,700 ppb in the 7.5 foot sample from GP-7. Due to the presence of TPH in the samples, MRLs were raised for the 7.5 foot samples from GP-7 and GP-13, and for both samples from GP-9 and GP-10, preventing detection of purgeable aromatic compounds at concentrations less than 1,000 ppb.

Groundwater sample analytical results are presented on Table 5. As shown on the table, none of the samples collected from the three existing groundwater monitoring wells at the site contained petroleum hydrocarbon compounds above the laboratory MRLs. TPH as gasoline was reported present in the water samples collected from GP-7 (0.323 ppm), GP-9 (3.13 ppm), and GP-10 (1.47 ppm). Gasoline hydrocarbons were not detected in the samples from GP-11 (the far downgradient sample), or GP-12 and GP-13. TPH as diesel was not measured in any of the samples analyzed for diesel.

Benzene was reported present at concentrations of 7.3 ppb and 2.2 ppb in the samples from GP-9 and GP-10, respectively. Benzene was not reported present in any other sample. Toluene, ethylbenzene, and xylenes were reported in the samples from GP-7, GP-9, and GP-10, at maximum concentrations of 3.4 ppb, 45 ppb, and 6.5 ppb, respectively.

The sample from GP-9 was also analyzed for VOCs using EPA 8260B. As shown on Table 5, this sample contained 7.5 ppb of 1,3,5-trimethylbenzene, 9.4 ppb of isopropyl benzene, 57 ppb of naphthalene, and 17 ppb of n-propylbenzene; all common gasoline components. Other VOCs were not detected above the laboratory MRLs.

## 5.0 ASBESTOS INVESTIGATION

An evaluation of the presence of asbestos containing materials (ACMs) was performed in vacant tenant spaces at the site by Acumen Industrial Hygiene of South San Francisco, California. The results indicate that ACMs are present at several locations at the site, including flooring, sheet-rock, and roofing materials. A complete copy of the investigation report, along with conclusions and recommendations concerning asbestos removal, is attached to this report as Appendix D.

## 6.0 CONCLUSIONS

The purpose of this investigation has been to provide additional evaluation of environmental conditions at the site, based on our review of a Phase I environmental assessment performed at the site in 1995. The investigation consisted of updating portions of the site history information contained in the previous report, and conducting a soil and groundwater quality investigation to provide additional information on existing environmental conditions at the site.





The site history update identified three general areas of environmental concern at the site: 1) a general site-wide potential for soil or groundwater contamination related to historic uses of the site as a lumber mill and concrete batch plant, and unknown off-site contamination sources; 2) a potential for soil and groundwater quality impacts at a dry cleaning facility that operated on the site for over 20 years; and 3) soil and groundwater contamination impacts related to a former UST at the site. A soil and groundwater quality investigation was performed to evaluate these potential concerns. The results of the investigation for each area of concern are summarized in the following sections.

## 6.1 Site-wide Evaluation

Groundwater samples collected from three widely spaced locations across the site did not contain petroleum hydrocarbons or VOCs, with the exception of a low level (2.2 ppb) of MTBE detected in one sample collected from the central portion of the site. Based on these results, the investigation did not indicate the presence of a significant potential for the presence of undiscovered soil or groundwater contamination at the site.

## 6.2 Dry Cleaner Investigation

Low to moderately high levels of VOCs (PCE, TCE, and cis-1,2-DCE) were measured in soil samples collected in and around the rear of the former dry cleaning facility at the site. The measured concentration of VOCs is shown on Table 2. One soil sample, collected at a depth of 1-foot below the foundation slab in the former dry cleaning operations area, contained cis-1,2-DCE at a concentration that exceeds the Risk Based Screening Level (RBSL) for impacts to indoor air quality for commercial land uses promulgated by the California Regional Water Quality Control Board (RWQCB). The test results for three samples (GP14-4.5, GP16-1.5, and GP17-1) exceed the RBSL for groundwater protection, a screening level based on the assumption that groundwater at the site is classified as a drinking water source. However, based on the high specific conductance of the water measured in groundwater monitoring well MW-2, located adjacent to the Oakland Estuary Tidal Canal, groundwater in the area of boring GP-14 is too salty to likely be considered a drinking water source. As such, it is our opinion that the RBSLs for indoor air quality and direct exposure are more appropriate standards in this instance.

Cis-1,2-DCE was measured in groundwater at 510, 270, and 98 ppb in water samples collected in and around the dry cleaning shop. These results exceed the primary drinking water standard (the Maximum Contaminant Level, or MCL) for cis-1,2-DCE of 6 ppb. TCE was measured at 37 ppb in one sample, which exceeds the MCL of 5 ppb for TCE. PCE was measured in one sample, but at a concentration below the MCL. However, as discussed above, the drinking water standard may not be directly applicable to this area of the site. The measured concentrations of cis-1,2-DCE, PCE, and TCE in groundwater are below other RBSLs, such as the RBSLs for protection of indoor air quality in commercial land use settings, RBSLs for protection of aquatic life, and the general ceiling value RBSLs that are based on the potential for general nuisance taste or odor thresholds.



Based on the concentrations of VOCs measured in soil and groundwater during this investigation, it is our opinion, that the presence of the VOCs should be reported to the ACHSA and the RWQCB. Although it seems unlikely that an active groundwater cleanup would be required by these agencies based on the findings of this investigation, the agencies may require that soils containing VOCs above the baseline RBSLs be excavated and removed from the site. The agencies may also require that additional investigation and monitoring be performed to confirm the chemical test results presented in this report. The additional investigation could consist of collecting additional soil and groundwater samples, installing groundwater monitoring wells, and monitoring the wells over a period of one year or more. There is a low probability that the additional investigation could reveal conditions that might require some additional form of cleanup.

We estimate that costs for future investigation and possible soil remediation activities associated with the VOCs observed in soil and groundwater samples at the dry cleaners could be approximately \$30,000 to \$40,000 for additional investigation (including regulatory oversight costs), and approximately \$30,000 to \$60,000 for soil remediation.

Based on the concentration of VOCs measured in groundwater during this investigation, it is our opinion that groundwater cleanup is unlikely to be required by the regulatory agencies. However, we could not rule out the possibility that some form of remediation may ultimately be required. Based on the information collected to date, it appears that groundwater remediation, if required, could effectively be performed using direct chemical oxidation in the former dry cleaning operations area. We estimate that the costs associated with a limited remediation program of this type could be up to \$150,000.

### 6.3 UST Investigation

Petroleum hydrocarbons as gasoline were detected over a relatively small area around the south corner of the former grocery store at the site. TPH as gasoline was measured at a maximum concentration of 1,120 ppm at a depth of 7.5 feet in a boring located right at the building corner. TPH as diesel, benzene, and MTBE was not reported present in any of the soil samples analyzed. Toluene, ethylbenzene, and xylenes were measured at maximum concentrations of 1,300 ppb, 7,400 ppb, and 3,700 ppb, respectively. The maximum concentrations of hydrocarbon constituents measured at the site are well below most applicable RBSLs such as RBSLs to protect indoor air quality, RBSL for direct contact exposure, and the general ceiling value RBSL for commercial land use. However, the maximum test results exceed the RBSLs for protection of groundwater supplies, assuming that groundwater at the site is classified as a potential drinking water source.

Three of the nine groundwater-samples collected around the grocery store area contained gasoline constituents. TPH as gasoline was measured at concentrations of 3.13, 1.47, and 0.323 ppm in water samples collected outside the south corner of the building. These results exceed the RBSLs of protection of aquatic life and the general ceiling value RBSL for taste and odor (considering the water as a drinking water source). However, it should be noted that samples collected at the east end of the building (GP-11 and MW-2) did not contain gasoline constituents,



indicating that contamination does not appear to be migrating to the Oakland Estuary Tidal Channel. As such, the aquatic life protection RBSL does not appear to be an appropriate standard. It should also be noted that water samples collected from open boreholes are qualitative in nature, and are likely to represent worst-case conditions at each location. In our opinion, test samples collected from properly installed and developed monitoring wells could potentially be lower.

Benzene was detected in two water samples at concentrations modestly above the MCL, but below other applicable RBSLs. Toluene, ethylbenzene, and xylenes were measured in three samples at levels well below the MCLs and applicable RBSLs, except for ethylbenzene, which slightly exceeds the ceiling value RBSL.

Although the concentrations of gasoline hydrocarbons measured in soil and groundwater in the vicinity of the former UST locally exceed certain RBSLs or the primary drinking water standards, the general area of impact appears to be relatively limited. In addition, hydrocarbons do not appear to be migrating to the Oakland Estuary Tidal Canal. However, because benzene was measured at concentrations above the primary drinking water standard, it is our opinion, that the presence of the hydrocarbons in groundwater should be reported to the ACHSA and the RWQCB. In our opinion, these agencies would be unlikely to require any active soil or groundwater cleanup at the site under current conditions based on the information collected during this investigation. However, these agencies may require that any contaminated soil encountered during redevelopment of the site be excavated and removed from the site. Based on the results of the investigations performed to date, it is our opinion that groundwater remediation is not likely to be required.

We estimate that the volume of impacted soil likely to be encountered during redevelopment could be in the range of about 750 cubic yards of soil. We estimate that excavation and disposal of this soil could cost in the range of \$50,000 to \$75,000.

## 7.0 LIMITATIONS

The purpose of an environmental assessment is to reasonably evaluate the potential for or actual impact of past practices on a given site area. In performing an environmental assessment, it is understood that a balance must be struck between a reasonable inquiry into the environmental issues and an exhaustive analysis of each conceivable issue of potential concern. The following paragraphs discuss the assumptions and parameters under which such an assessment (which may include professional opinions) is conducted.

No investigation is thorough enough to absolutely rule out the presence of hazardous materials at a given site. If hazardous conditions have not been identified during the assessment, such a finding should not therefore be construed as a guarantee of the absence of such materials on the site, but rather as the result of the services performed within the scope, limitations, and cost of the work performed.



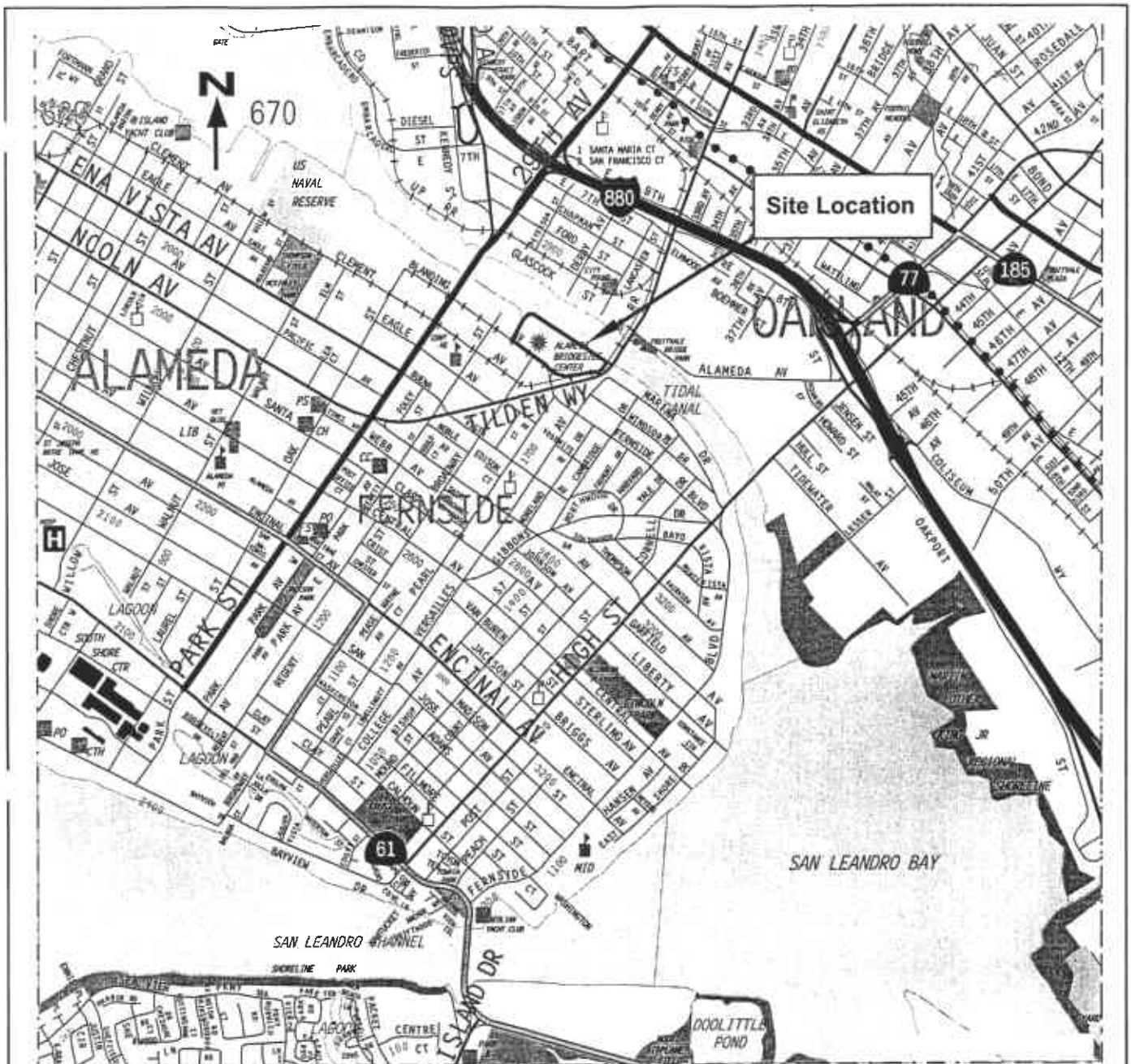
Environmental conditions may exist at the site that cannot be identified by visual observation. Where subsurface work was performed, our professional opinions are based in part on interpretation of data from discrete sampling locations that may not represent actual conditions at unsampled locations.

Except where there is express concern of our client, or where specific environmental contaminants have been previously reported by others, naturally occurring toxic substances, potential environmental contaminants inside buildings, or contaminant concentrations that are not of current environmental concern may not be reflected in this document.

Where the scope of services is limited to interview and/or review of readily available reports and literature, any conclusions, and/or recommendations are necessarily based largely on information supplied by others, the accuracy or sufficiency of which may not be independently reviewed by us.

Any opinions and/or recommendations presented apply to site conditions existing at the time of performance of services. We are unable to report on, or accurately predict, generally unforeseeable events that may impact the site following performance of services, whether occurring naturally or caused by external forces. Therefore, we cannot assume responsibility of such events or their impact. We also cannot assume responsibility for changes in environmental standards, practices, or regulations.





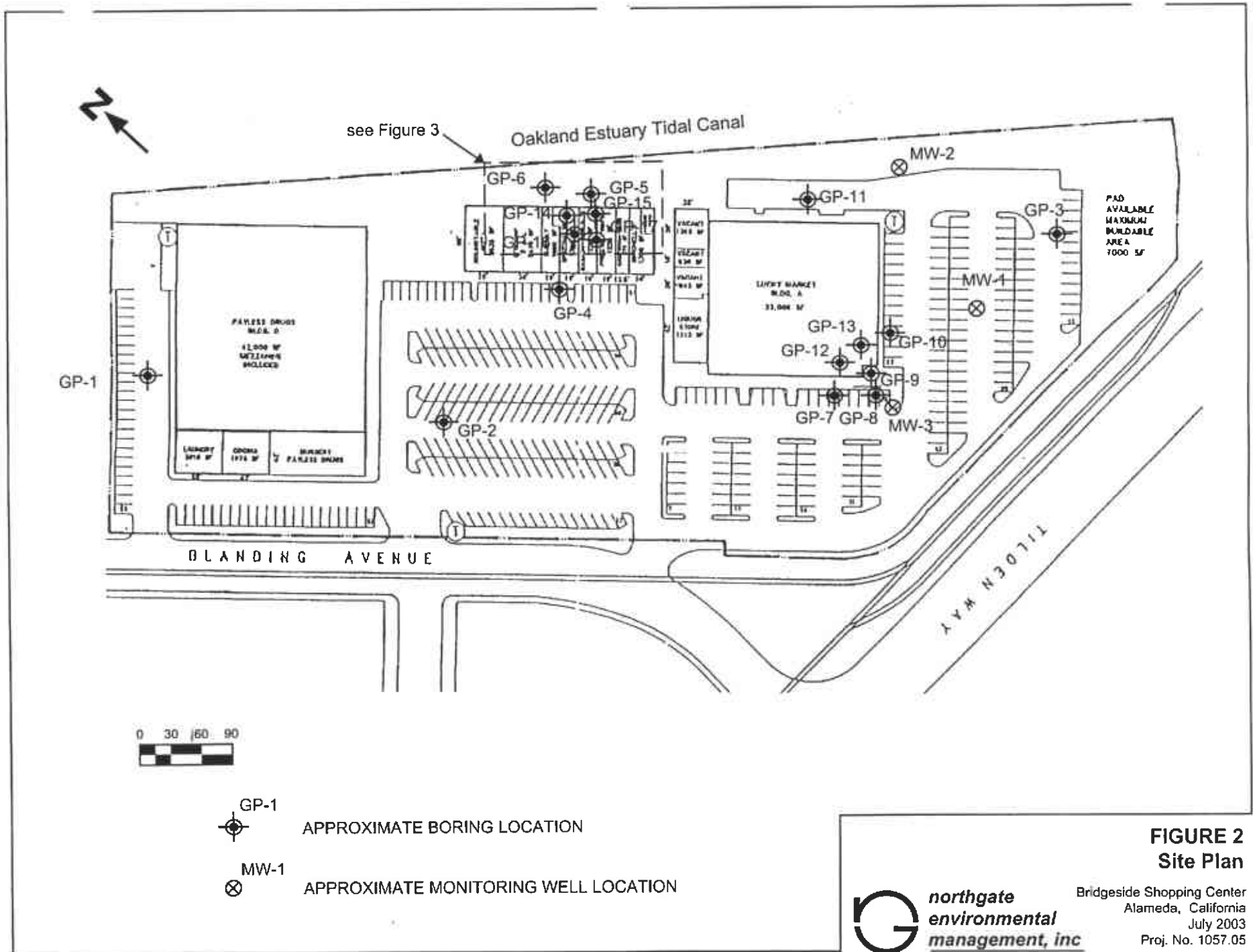
Base map from Thomas Bros. Maps: Alameda, California, 1999



**northgate  
environmental  
management, inc**

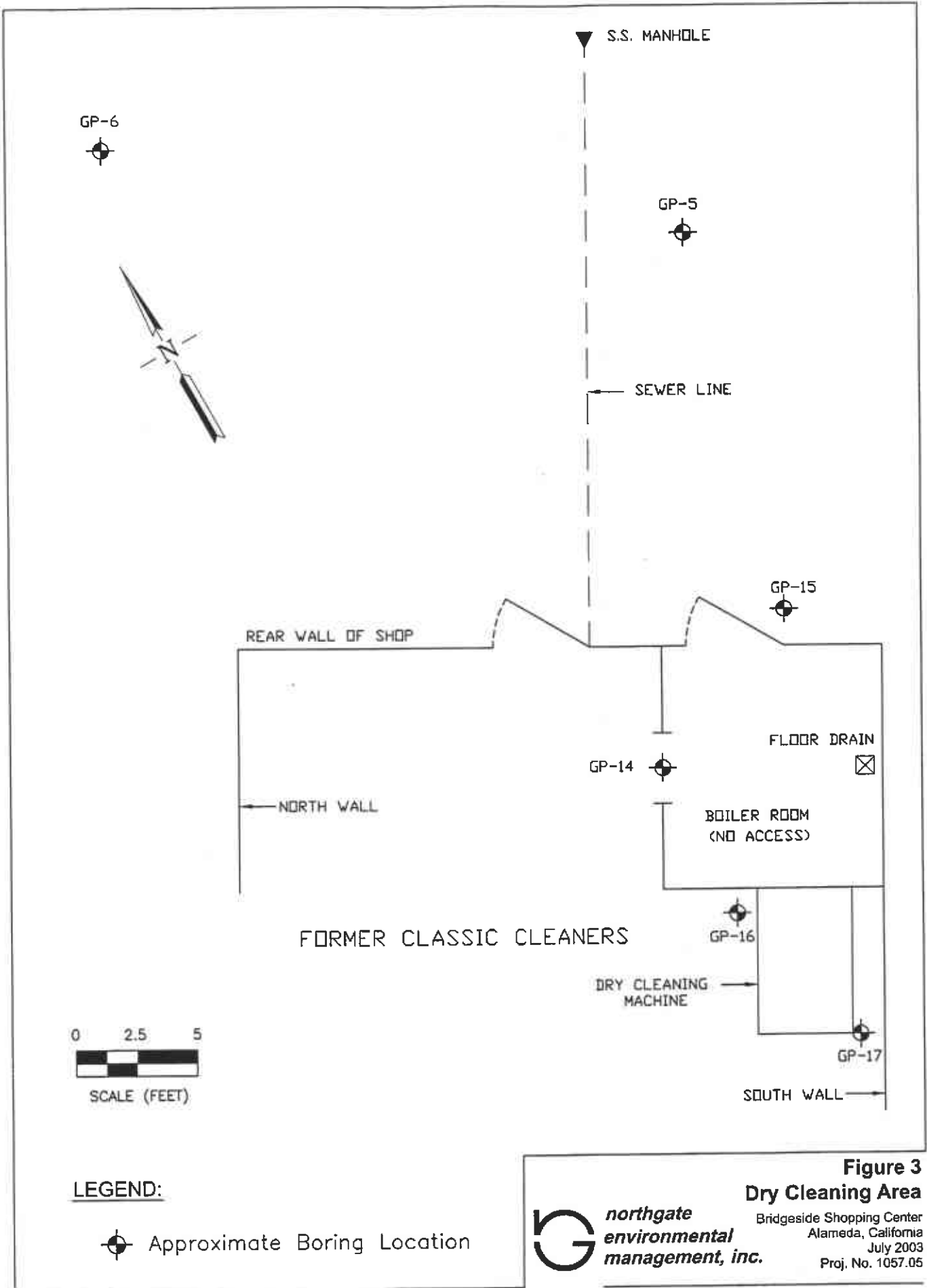
**FIGURE 1  
Site Location Map**

Bridgeside Shopping Center,  
Alameda, California  
July 2003  
Proj. No. 1057.05



**FIGURE 2**  
**Site Plan**

# Estuary



GP-6

GP-5

GP-15

GP-14

GP-16

GP-17

S.S. MANHOLE

SEWER LINE

REAR WALL OF SHOP

NORTH WALL

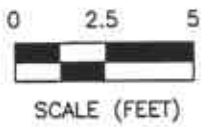
FLOOR DRAIN

BOILER ROOM  
(NO ACCESS)

FORMER CLASSIC CLEANERS

DRY CLEANING  
MACHINE

SOUTH WALL



### LEGEND:

⊕ Approximate Boring Location

**Figure 3**

### Dry Cleaning Area

**northgate**  
**environmental**  
**management, inc.**

Bridgeside Shopping Center  
Alameda, California  
July 2003  
Proj. No. 1057.05

**TABLE 1**  
**Site-Wide Groundwater Sample Analytical Results**  
**Bridgeside Shopping Center**  
**Alameda, California**

Analyte	Units	GP-1	GP-2	GP-3	GP-4	MCL	RBSL for Indoor Air Quality	RBSL for Aquatic Life Protection	RBSL for Ceiling Value (Taste and Odor)
TPH as Diesel - EPA 8015B	mg/L	<0.1	--	<0.189	<0.169	NA	NA	0.64	0.1
TPH as Gasoline - EPA 8015B	mg/L	<0.1	<0.1	<0.1	--	NA	NA	0.50	0.1
Purgeable Aromatics - EPA 8260B									
Benzene	µg/L	<1	<1	<1	<1	1	84	46	170
Toluene	µg/L	<1	<1	<1	<1	150	76,000	130	40
Ethylbenzene	µg/L	<1	<1	<1	<1	700	170,000	290	30
Xylenes	µg/L	<1	<1	<1	<1	1,750	150,000	13	20
Methyl tert-Butyl Ether - EPA 8260B	µg/L	<1	<b>2.2</b>	<1	<1	5	50,000	8,000	5
Volatile Organic Compounds - EPA 8260B	µg/L	ND	ND	ND	ND	NA	NA	NA	NA

**NOTES**

Results reported in mg/L (parts per million) or ug/L (parts per billion) as indicated

<: Not detected at or above the indicated laboratory method reporting limit

ND: Not detected at or above laboratory method reporting limit; limits vary with compound

--: Not analyzed

NA: Not applicable

MCL: Maximum Contaminant Level, primary drinking water standard

RBSL: Risk Based Screening Levels for groundwater; groundwater is considered to be a potential drinking water source



**TABLE 2**  
**Dry Cleaner Area Soil Analytical Results**  
 Bridgeside Shopping Center  
 Alameda, California

Analyte	Units	Sample Location and Depth													RBSL for Indoor Air Quality	RBSL for Direct Exposure	RBSL for Groundwater Protection
		GP4-7	GP5-5	GP5-10	GP6-7.5	GP6-11.5	GP14-4.5	GP14-8.5	GP15-1	GP15-5	GP16-1.5	GP16-5	GP17-1	GP17-5			
Volatile Organic Compounds - EPA 8260B																	
cis-1,2-DCE	µg/kg	<10	<10	<10	<10	<10	270	17	<10	140	7,900	94	2,900	52	7,700	29,000	190
Tetrachloroethene	µg/kg	<10	21	<10	<10	<10	<50	<10	120	130	<1000	13	<1000	37	530	2,100	800
Trichloroethene	µg/kg	<10	14	<10	<10	<10	<50	<10	46	84	<1000	<10	<1000	150	1,500	3,700	400
Other VOCs	µg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA

**NOTES**

Results reported in ug/kg (parts per billion)

<: Not detected at or above the indicated laboratory method reporting limit

ND: Not detected at or above the laboratory method reporting limit; limits vary with compound

NA: Not applicable

RBSL: Risk Based Screening Level for commercial land use surface soils; groundwater is considered to be a potential drinking water source

**TABLE 3**  
**Dry Cleaner Area Groundwater Analytical Results**  
**Bridgeside Shopping Center**  
**Alameda, California**

Analyte	Units	GP-4	GP-5	GP-6	GP-14	GP-15	GP-17	MCL	RBSL for Indoor Air Quality	RBSL for Aquatic Life Protection	RBSL for Ceiling Value (Taste and Odor)
Volatile Organic Compounds - EPA 8260B											
cis-1,2-DCE	ug/L	<1	98	<1	510	270	<2	6	11,000	590	50,000
Tetrachloroethene	ug/L	<1	<5	<1	<10	<10	1.7	5	170	120	170
Trichloroethene	ug/L	<2	<5	<2	<21	37	<1	5	750	360	310
Other VOCs	ug/L	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA

**NOTES**

Results reported in mg/L (parts per million) or ug/L (parts per billion) as indicated

<: Not detected at or above the indicated laboratory method reporting limit

ND: Not detected at or above laboratory method reporting limit; limits vary with compound

--: Not analyzed

NA: Not applicable

MCL: Maximum Contaminant Level, primary drinking water standard

RBSL: Risk Based Screening Levels for groundwater; groundwater is considered to be a potential drinking water source

**TABLE 4**  
**Former UST Area Soil Analytical Results**  
**Bridgeside Shopping Center**  
**Alameda, California**

Analyte	Units	Sample Location and Depth												RBSL for Indoor Air Quality	RBSL for Direct Exposure	RBSL for Groundwater Protection	RBSL for Ceiling Value
		GP7-7.5	GP7-11.5	GP8-7.5	GP8-11.5	GP9-7.5	GP9-11.5	GP10-7.5	GP10-11.5	GP12-7.5	GP12-11.5	GP13-7.5	GP13-11.5				
TPH as Diesel - EPA 8015B	mg/kg	<63	<2	<2	<2	<5.4	<2	<2.8	<2	--	--	--	--	NA	11,000	100	1,000
TPH as Gasoline - EPA 8015B	mg/kg	214	<0.1	<0.1	<0.1	1,120	263	170	32	<0.1	<0.1	53.4	<0.1	NA	11,000	100	1,000
Purgeable Aromatics - EPA 8021B																	
Benzene	µg/kg	<1000	<10	<10	<10	<1000	<1000	<1000	<1000	<10	<10	<500	<10	390	390	45	1,000
Toluene	µg/kg	<1000	<10	<10	<10	<1000	1,300	1,000	<1000	<10	<10	<500	<10	89,000	400,000	2,600	520,000
Ethylbenzene	µg/kg	4,400	<10	<10	<10	7,400	2,500	2,600	<1000	<10	<10	1,000	<10	220,000	230,000	2,500	230,000
Xylenes	µg/kg	3,700	<10	<10	<10	2,500	1,200	1,400	<1000	<10	<10	1,800	<10	210,000	210,000	1,000	210,000
Methyl tert-Butyl Ether - EPA 8201B	µg/kg	<1000	<10	<10	<10	<1000	<1000	<1000	<1000	<10	<10	<500	<10	12,000	79,000	28	500,000

**NOTES**

- Results reported in mg/kg (parts per million) or µg/kg (parts per billion) as indicated
- <: Not detected at or above the indicated laboratory method reporting limit
- ND: Not detected at or above the laboratory method reporting limit; limits vary with compound
- NA: Not applicable
- : Not analyzed
- RBSL: Risk Based Screening Level for commercial land use surface soils; groundwater is considered to be a potential drinking water source

**TABLE 5**  
**Former UST Area Groundwater Analytical Results**  
**Bridgeside Shopping Center**  
**Alameda, California**

Analyte	Units	MW-1	MW-2	MW-3	GP-7	GP-8	GP-9	GP-10	GP-11	GP-12	GP-13	MCL	RBSL for Indoor Air Quality	RBSL for Aquatic Life Protection	RBSL for Ceiling Value (Taste and Odor)
TPH as Diesel - EPA 8015B	mg/L	<0.1	<0.1	<0.1	<0.2	--	<0.45	<0.2	<0.143	--	--	NA	NA	0.64	0.1
TPH as Gasoline - EPA 8015B	mg/L	<0.1	<0.1	<0.1	<b>0.323</b>	--	<b>3.13</b>	<b>1.47</b>	<0.1	<0.1	<0.1	NA	NA	0.50	0.1
Purgeable Aromatics - EPA 8260B															
Benzene	µg/L	<1	<1	<1	<1	--	<b>7.3</b>	<b>2.2</b>	<1	<1	<1	1	84	46	170
Toluene	µg/L	<1	<1	<1	<b>3.4</b>	--	<5	<1	<1	<1	<1	150	76,000	130	40
Ethylbenzene	µg/L	<1	<1	<1	<b>1.8</b>	--	<b>45</b>	<b>8.8</b>	<1	<1	<1	700	170,000	290	30
Xylenes	µg/L	<1	<1	<1	<b>2.2</b>	--	<b>6.5</b>	<b>1.5</b>	<1	<1	<1	1,750	150,000	13	20
Methyl tert-Butyl Ether - EPA 8260B	µg/L	<1	<1	<1	<1	--	<1	<1	<1	<1	<1	5	50,000	8,000	5
Volatile Organic Compounds - EPA 8260B															
1,3,5-Trimethylbenzene	µg/L	--	--	--	--	--	<b>7.5</b>	--	--	--	--	NA	NA	NA	NA
Isopropylbenzene	µg/L	--	--	--	--	--	<b>9.4</b>	--	--	--	--	NA	NA	NA	NA
Naphthalene	µg/L	--	--	--	--	--	<b>57</b>	--	--	--	--	NA	9,200	24	21
n-Propylbenzene	µg/L	--	--	--	--	--	<b>17</b>	--	--	--	--	NA	NA	NA	NA
Other VOCs	µg/L	--	--	--	--	--	ND	--	--	--	--	NA	NA	NA	NA

**NOTES**

Results reported in µg/L (parts per billion) or ug/L (parts per billion) as indicated

<: Not detected at or above the indicated laboratory method reporting limit

ND: Not detected at or above laboratory method reporting limit; limits vary with compound

--: Not analyzed (no groundwater sample collected at GP-8)

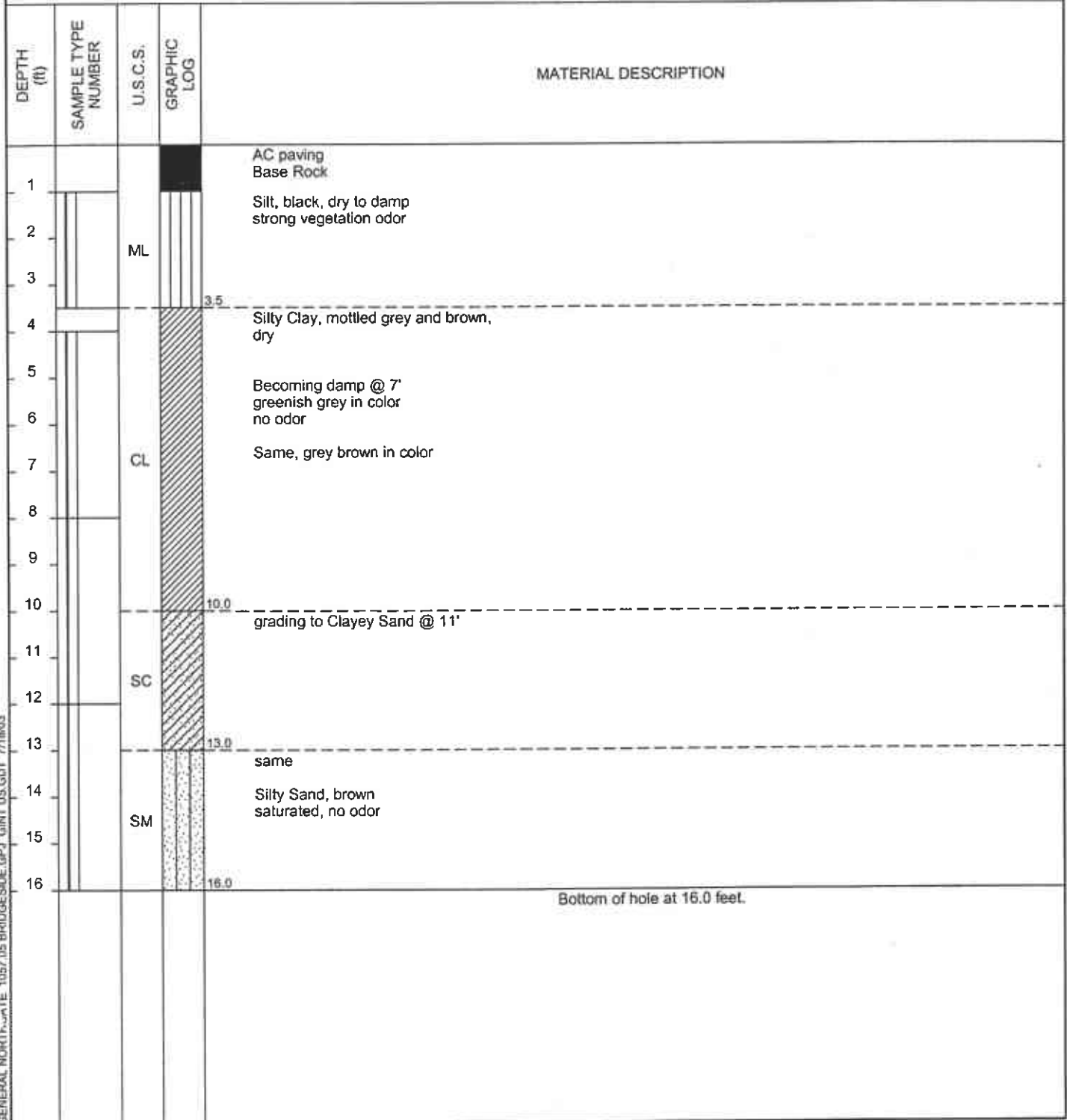
NA: Not applicable

MCL: Maximum Contaminant Level, primary drinking water standard

RBSL: Risk Based Screening Levels for groundwater; groundwater is considered to be a potential drinking water source



PROJECT NAME <u>Bridgeside</u>	BORING LOCATION <u>West side Rite Aid Bldg.- Parking lot</u>
PROJECT NUMBER <u>1057.05</u>	PROJECT LOCATION <u>Alameda, CA</u>
DATE STARTED <u>6/5/03</u>	COMPLETED <u>6/5/03</u>
DRILLING CONTRACTOR _____	AGENCY _____
DRILLING METHOD <u>Geoprobe</u>	GROUND ELEVATION _____ HOLE SIZE <u>3"</u>
LOGGED BY <u>DML</u>	CHECKED BY _____
SURFACE CONDITIONS <u>AC</u>	GROUND WATER LEVELS:
	AT TIME OF DRILLING <u>---</u>
	AT END OF DRILLING <u>---</u>
	AFTER DRILLING <u>---</u>



GENERAL NORTH...TE 1057.05 BRIDGESIDE.GPJ GINT US.GDT 7/18/03



PROJECT NAME Bridgeside BORING LOCATION Parking lot near Ride Aid  
 PROJECT NUMBER 1057.05 PROJECT LOCATION Alameda, CA  
 DATE STARTED 6/5/03 COMPLETED 6/5/03 GROUND ELEVATION \_\_\_\_\_ HOLE SIZE 3"  
 DRILLING CONTRACTOR \_\_\_\_\_ AGENCY \_\_\_\_\_ GROUND WATER LEVELS:  
 DRILLING METHOD Geoprobe AT TIME OF DRILLING ---  
 LOGGED BY DML CHECKED BY \_\_\_\_\_ AT END OF DRILLING ---  
 SURFACE CONDITIONS AC AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	GRAPHIC LOG	MATERIAL DESCRIPTION
1		1.0	AC paving 7:15 A.M. start
2			Drill direct push to 16' insert slotted PVC to 10'
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16		16.0	Bottom of hole at 16.0 feet.

GENERAL NORTHGATE 1057 05 BRIDGESIDE.GPJ GINT US.GDT 7/18/03



PROJECT NAME Bridgeside BORING LOCATION Parking lot south side  
 PROJECT NUMBER 1057.05 PROJECT LOCATION Alameda, CA  
 DATE STARTED 6/5/03 COMPLETED 6/5/03 GROUND ELEVATION \_\_\_\_\_ HOLE SIZE 3"  
 DRILLING CONTRACTOR \_\_\_\_\_ AGENCY \_\_\_\_\_ GROUND WATER LEVELS:  
 DRILLING METHOD Geoprobe AT TIME OF DRILLING ---  
 LOGGED BY DML CHECKED BY \_\_\_\_\_ AT END OF DRILLING ---  
 SURFACE CONDITIONS AC AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	GRAPHIC LOG	MATERIAL DESCRIPTION
1			AC paving
2			1.0 direct push insert slotted PVC for water sample
3			no soil samples
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			16.0 Bottom of hole at 16.0 feet.

GENERAL NORTH...TE 1057.05 BRIDGESIDE.GPJ QINT US.GDT 7/18/03



PROJECT NAME Bridgeside BORING LOCATION Parking area in front of dry cleaner  
 PROJECT NUMBER 1057.05 PROJECT LOCATION Alameda, CA  
 DATE STARTED 6/5/03 COMPLETED 6/5/03 GROUND ELEVATION \_\_\_\_\_ HOLE SIZE 3"  
 DRILLING CONTRACTOR \_\_\_\_\_ AGENCY \_\_\_\_\_ GROUND WATER LEVELS:  
 DRILLING METHOD Geoprobe AT TIME OF DRILLING ---  
 LOGGED BY DML CHECKED BY \_\_\_\_\_ AT END OF DRILLING ---  
 SURFACE CONDITIONS \_\_\_\_\_ AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
1				AC paving
2				Fill mixed sand clay (dark brown) angular gravelly sand dry damp
3				Sandy Clay (CL) dark brown damp, medium grained sand no odor
4				
5				
6				
7				
7.5	GP4-7	CL		
8				
9				
10				casing stuck inside sampler no recovery
11				
12				possible slough clayey sand, light grey brown, moist
13				
13.5				
14				Silty sand, greenish brown fine-medium grained wet, no odor
15		SM		
16				
				Bottom of hole at 16.0 feet.

GENERAL NORTH ALTE 1057 05 BRIDGESIDE GPJ GINT US GDT 7/18/03





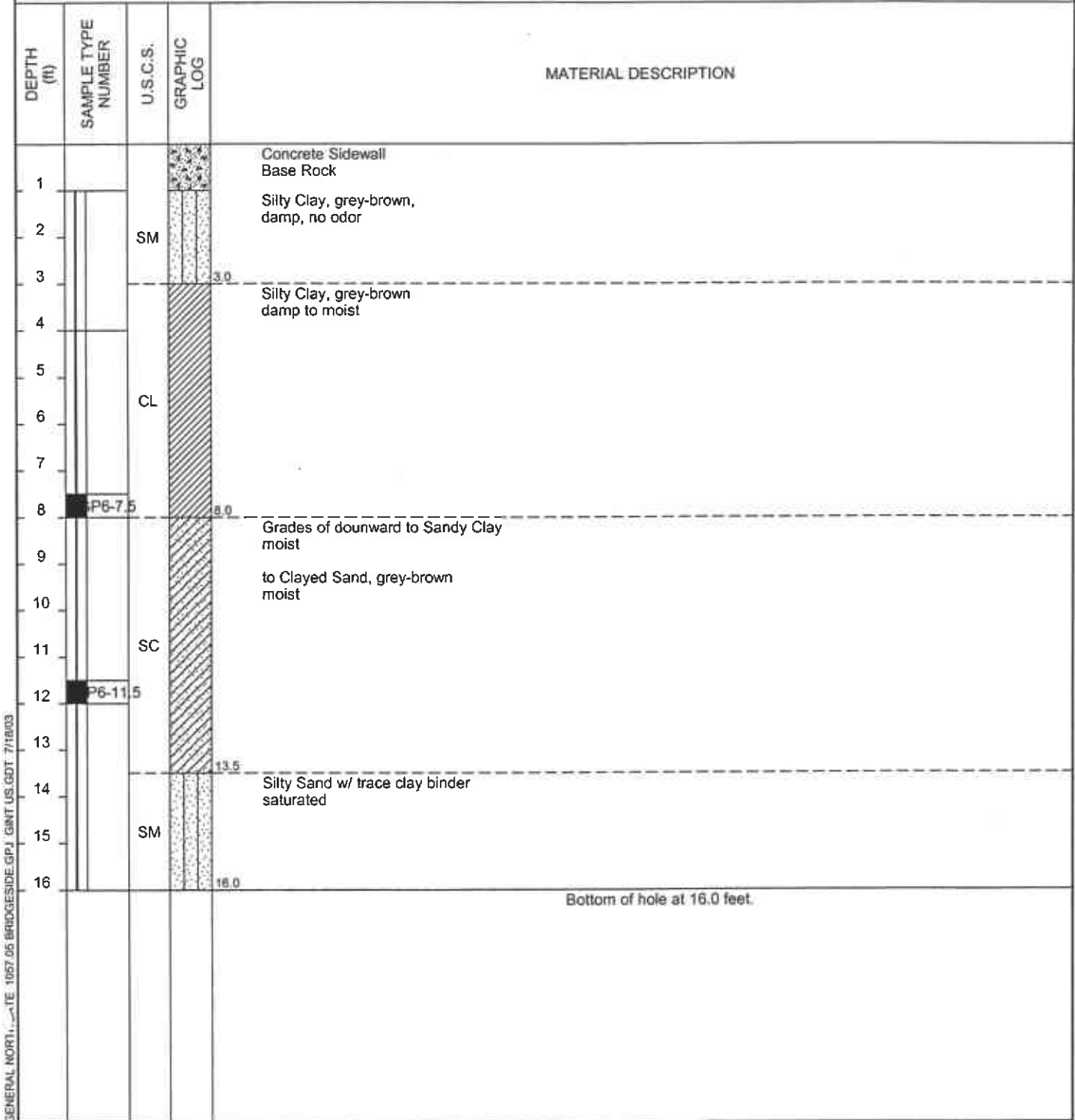
PROJECT NAME <u>Bridgeside</u>	BORING LOCATION <u>West side, Dry Cleaner</u>		
PROJECT NUMBER <u>1057.05</u>	PROJECT LOCATION <u>Alameda, CA</u>		
DATE STARTED <u>6/5/03</u>	COMPLETED <u>6/5/03</u>	GROUND ELEVATION _____	HOLE SIZE <u>3"</u>
DRILLING CONTRACTOR _____	AGENCY _____	GROUND WATER LEVELS:	
DRILLING METHOD <u>Geoprobe</u>	AT TIME OF DRILLING <u>---</u>		
LOGGED BY <u>DML</u>	CHECKED BY _____	AT END OF DRILLING <u>---</u>	
SURFACE CONDITIONS <u>Concrete sidewalk</u>		AFTER DRILLING <u>---</u>	

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
1				Concrete Base Rock
2				Silt, yellow-brownish black streaks v. moist, no odor
3		ML		
4				Silty Clay, black, moist organic (vegetation) odor
5	GP5-5	CL		
6				Silty Clay, grey brown damp, to moist
7				
8				
9				
10	GP5-10	CL		
11				
12				grading to clayey sand, grading to green, increasing sand w/ depth
13		SC		
14				Silty Sand, brown, saturated
15		SM		
16				Bottom of hole at 16.0 feet.

GENERAL NORTH PLATE 1057.05 BRIDGESIDE GPJ.GINT US.GDT 7/16/03



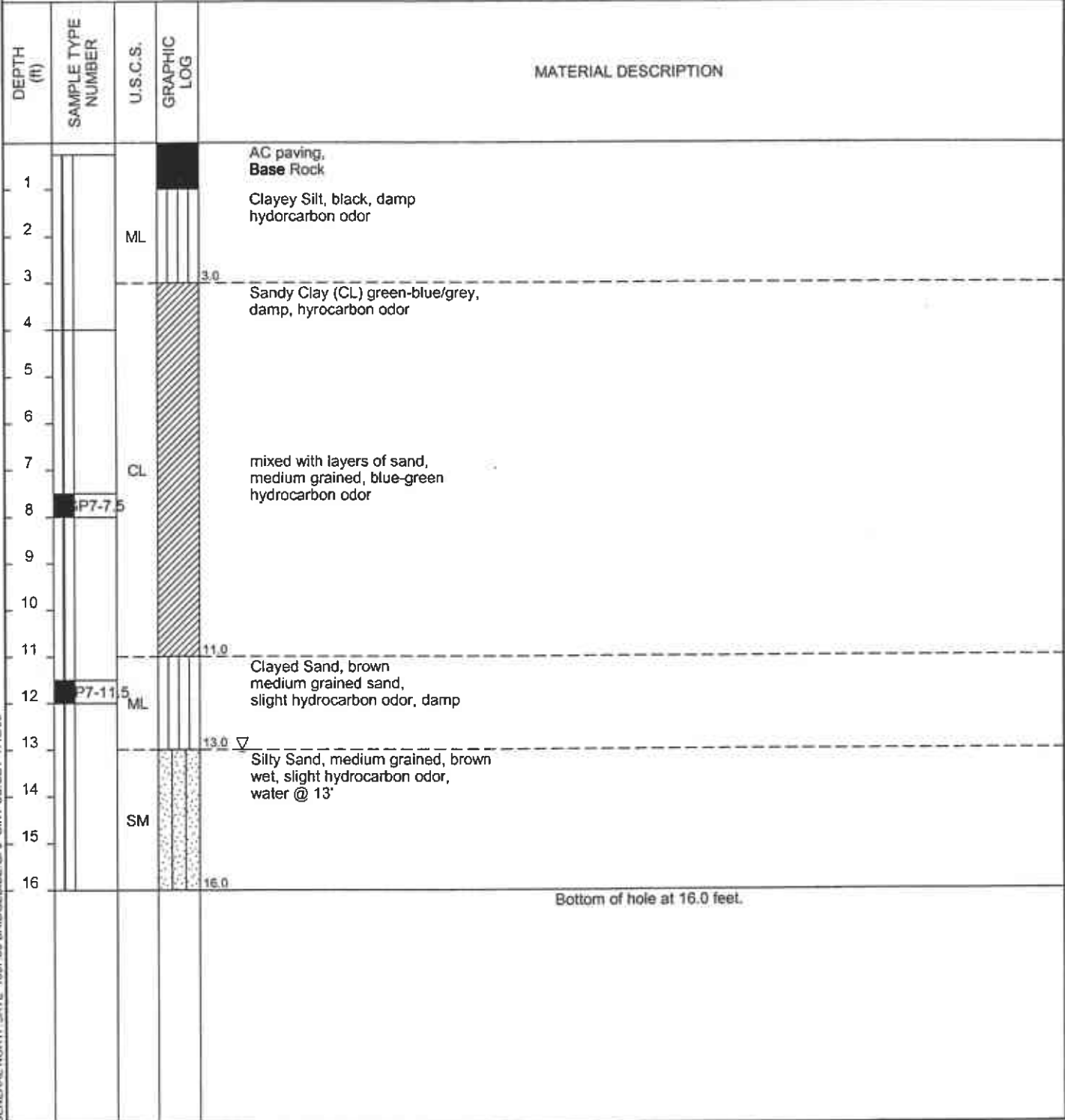
PROJECT NAME <u>Bridgeside</u>	BORING LOCATION <u>Behind cleaner, to west of sewer manhole</u>		
PROJECT NUMBER <u>1057.05</u>	PROJECT LOCATION <u>Alameda, CA</u>		
DATE STARTED <u>6/5/03</u>	COMPLETED <u>6/5/03</u>	GROUND ELEVATION _____	HOLE SIZE <u>3"</u>
DRILLING CONTRACTOR _____	AGENCY _____	GROUND WATER LEVELS:	
DRILLING METHOD <u>Geoprobe</u>		AT TIME OF DRILLING <u>---</u>	
LOGGED BY <u>DML</u>	CHECKED BY _____	AT END OF DRILLING <u>---</u>	
SURFACE CONDITIONS <u>Concrete</u>		AFTER DRILLING <u>---</u>	



GENERAL NORTHGATE 1057.05 BRIDGESIDE.GPJ GINT US.GDT 7/18/03



PROJECT NAME <u>Bridgeside</u>	BORING LOCATION <u>At grocery store</u>		
PROJECT NUMBER <u>1057.05</u>	PROJECT LOCATION <u>Alameda, CA</u>		
DATE STARTED <u>6/5/03</u>	COMPLETED <u>6/5/03</u>	GROUND ELEVATION _____	HOLE SIZE <u>3"</u>
DRILLING CONTRACTOR _____	AGENCY _____	GROUND WATER LEVELS:	
DRILLING METHOD <u>Geoprobe</u>		▽ AT TIME OF DRILLING <u>13.0 ft</u>	
LOGGED BY <u>DML</u>	CHECKED BY _____	AT END OF DRILLING <u>---</u>	
SURFACE CONDITIONS <u>AC</u>		AFTER DRILLING <u>---</u>	



GENERAL NORTH ALameda BRIDGESIDE GP7 GINT US GDT 7/16/03



**northgate  
environmental  
management, inc.**

3629 Grand Ave  
Oakland CA 94610  
Telephone: (510) 839 0688  
Fax: (510) 839 4350

**BORING NUMBER GP-8**

PAGE 1 OF 1

PROJECT NAME Bridgeside BORING LOCATION At grocery corner 30' E of GP-7  
 PROJECT NUMBER 1057.05 PROJECT LOCATION Alameda, CA  
 DATE STARTED 6/5/03 COMPLETED 6/5/03 GROUND ELEVATION \_\_\_\_\_ HOLE SIZE 3"  
 DRILLING CONTRACTOR \_\_\_\_\_ AGENCY \_\_\_\_\_ GROUND WATER LEVELS:  
 DRILLING METHOD Geoprobe AT TIME OF DRILLING ---  
 LOGGED BY DML CHECKED BY \_\_\_\_\_ AT END OF DRILLING ---  
 SURFACE CONDITIONS AC AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
1			AC paving Base Rock	
2		ML	Clayed Silt, black, damp, moderate organic (vegetation) odor	
3			3.0	
4			Sandy Clay w/ layers of clayey sand (SC), light grey brown, damp to moist, possible slight hydrocarbon odor	
5				
6				
7				
8	GP8-7.5	CL		
9				
10				Same to 12' damp, to moist, no hydrocarbon odor
11				
12	GP8-11.5		12.0	Bottom of hole at 12.0 feet.

GENERAL NORTHGATE 1057.05 BRIDGESIDE.GPJ GINT US.GDT 7/18/03



PROJECT NAME Bridgeside BORING LOCATION At grocery corner on sidewalk  
 PROJECT NUMBER 1057.05 PROJECT LOCATION Alameda, CA  
 DATE STARTED 6/5/03 COMPLETED 6/5/03 GROUND ELEVATION \_\_\_\_\_ HOLE SIZE 3"  
 DRILLING CONTRACTOR \_\_\_\_\_ AGENCY \_\_\_\_\_ GROUND WATER LEVELS:  
 DRILLING METHOD Geoprobe AT TIME OF DRILLING —  
 LOGGED BY DML CHECKED BY \_\_\_\_\_ AT END OF DRILLING —  
 SURFACE CONDITIONS AC AFTER DRILLING —

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
1				Concrete Base Rock
2		ML		Clayey Silt, black, damp, slight hydrocarbon odor
3			3.0	grading to Silty Clay, black
4				same, becoming dark green-black @ 5' hydrocarbon odor
5		CL		
6				
7				
8	GP-7.5			
9				
10			10.0	Silty Clay, Clayey Sand green, damp to moist, hydrocarbon odor
11				
12	GP-11.5	SC		
13			13.0	Sand with silt, green, grading to brown w/ depth saturated, hydrocarbon odor
14				
15		SM		
16			16.0	Bottom of hole at 16.0 feet.

GENERAL NOTE: SITE 1057.05 BRIDGESIDE.GPJ GINT US.GDT 7/18/03



PROJECT NAME <u>Bridgeside</u>	BORING LOCATION <u>At grocery corner, sidewalk</u>		
PROJECT NUMBER <u>1057.05</u>	PROJECT LOCATION <u>Alameda, CA</u>		
DATE STARTED <u>6/5/03</u>	COMPLETED <u>6/5/03</u>	GROUND ELEVATION _____	HOLE SIZE <u>3"</u>
DRILLING CONTRACTOR _____	AGENCY _____	GROUND WATER LEVELS:	
DRILLING METHOD <u>Geoprobe</u>	▽ AT TIME OF DRILLING <u>13.0 ft</u>		AT END OF DRILLING <u>---</u>
LOGGED BY <u>DML</u>	CHECKED BY _____	AFTER DRILLING <u>---</u>	
SURFACE CONDITIONS _____			

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
1				Asphalt
2				Base Rock
3		MH		Clayey Silt, black, damp, slight hydrocarbon odor to 4'
4				4.0
5				Silty Clay, green, w/ brown, mottling damp, hydrocarbon odor
6				
7				
8	P10-7.5			
9		CL		Silty Clay (CL) to Sandy Caly (SC), green damp, hydrocarbon odor
10				
11				
12	P10-11.5			
13				13.0 ▽
14		SM		Silty Sand, greenish-brown, medium grained, saturated, hydrocarbon odor
15				
16				16.0
Bottom of hole at 16.0 feet.				

GENERAL NORTHGATE 1057 05 BRIDGESIDE.GPJ GINT US.GDT 7/18/03







PROJECT NAME Bridgeside BORING LOCATION In delivery ramp behind grocery, 60' west of bldg edge  
 PROJECT NUMBER 1057.05 PROJECT LOCATION Alameda, CA  
 DATE STARTED 6/5/03 COMPLETED 6/5/03 GROUND ELEVATION \_\_\_\_\_ HOLE SIZE 3"  
 DRILLING CONTRACTOR \_\_\_\_\_ AGENCY \_\_\_\_\_ GROUND WATER LEVELS:  
 DRILLING METHOD Geoprobe AT TIME OF DRILLING ---  
 LOGGED BY DML CHECKED BY \_\_\_\_\_ AT END OF DRILLING ---  
 SURFACE CONDITIONS Concrete AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
1				Concrete, Base Rock
2				Silty Clay, black, grading downward to grey, damp, no odor
3		CL		
4				
5				Sandy Clay, grey/brown mottled, damp, no odor
6				
7				
8				
9		CL		
10				
11				
12				12.0
				Bottom of hole at 12.0 feet.

GENERAL NORTHGATE 1057.05 BRIDGESIDE GPJ GINT US GDT 7/16/03



PROJECT NAME <u>Bridgeside</u>	BORING LOCATION <u>Inside grocery store - south corner</u>
PROJECT NUMBER <u>1057.05</u>	PROJECT LOCATION <u>Alameda, CA</u>
DATE STARTED _____ COMPLETED _____	GROUND ELEVATION _____ HOLE SIZE <u>3"</u>
DRILLING CONTRACTOR <u>ECA</u> AGENCY _____	GROUND WATER LEVELS:
DRILLING METHOD <u>Geoprobe</u>	AT TIME OF DRILLING <u>--</u>
LOGGED BY <u>JWO</u> CHECKED BY _____	AT END OF DRILLING <u>--</u>
SURFACE CONDITIONS <u>AC</u>	AFTER DRILLING <u>--</u>

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
1				Direct push to 6' very hard layer @ 4' difficult to push through
2				
3				
4				
5				
6				
7		CL		Silty Clay, mix of green & black, damp, no odor
8	P12-7.5			
9				Direct push to 10'
10				10.0
11		SM		Silty Sand, fine grained, brown grading to green, damp, no odor
12	P12-11.5			
13				Direct push to 16'
14				
15				
16				16.0
Bottom of hole at 16.0 feet.				

GENERAL NORTHGATE 1057.05 BRIDGESIDE.GPJ GINT US.GDT 7/18/03





PROJECT NAME Bridgeside BORING LOCATION Inside south corner of grocery store  
 PROJECT NUMBER 1057.05 PROJECT LOCATION Alameda, CA  
 DATE STARTED \_\_\_\_\_ COMPLETED \_\_\_\_\_ GROUND ELEVATION \_\_\_\_\_ HOLE SIZE 3"  
 DRILLING CONTRACTOR ECA AGENCY \_\_\_\_\_ GROUND WATER LEVELS:  
 DRILLING METHOD Geoprobe AT TIME OF DRILLING ---  
 LOGGED BY JWO CHECKED BY \_\_\_\_\_ AT END OF DRILLING ---  
 SURFACE CONDITIONS Concrete AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
1				Direct push to 6' rejected @ 3-4' first try, moved away ~ 10'
2				
3				
4				
5				
6				
7		SM		Silty Clay, light green w/ two black zones (2" thick) dry to damp, hydrocarbon odor @ 8'
8	P13-7.5			
9				Direct push to 10'
10				
11				
12	P13-11.5	SM		Silty Clay, mix of green & brown, damp, no odor
13				Direct push to 16' collected water samples
14				
15				
16			16.0	Bottom of hole at 16.0 feet.

GENERAL NOTE: SITE 1057.05 BRIDGESIDE.GPJ GINT U.S. GDT 7/18/03



PROJECT NAME Bridgeside BORING LOCATION Inside rear, dry cleaner  
 PROJECT NUMBER 1057.05 PROJECT LOCATION Alameda, CA  
 DATE STARTED \_\_\_\_\_ COMPLETED \_\_\_\_\_ GROUND ELEVATION \_\_\_\_\_ HOLE SIZE 3"  
 DRILLING CONTRACTOR ECA AGENCY \_\_\_\_\_ GROUND WATER LEVELS:  
 DRILLING METHOD Geoprobe AT TIME OF DRILLING ---  
 LOGGED BY JWO CHECKED BY \_\_\_\_\_ AT END OF DRILLING ---  
 SURFACE CONDITIONS Tile floor AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
1				Direct push to 3'
2				
3				
4		ML		Silt, green, dry to damp @ 5'
5	P14-4.5			Silt, black, slight vegetation odor, damp
6				Direct Push to 5-8'
7				
8				
9	P14-8.5	CL		Silty Clay, light green, dry to damp, no odor
10				grading to
11				Silty/ Clayey Sand, fine grained grey-brown, moist no odor
12				Hydropunch to 16'
13				
14				
15				
16			16.0	Bottom of hole at 16.0 feet.

GENERAL NOTE: 1057.05 BRIDGESIDE.GPJ GINT US.GDT 7/18/03






PROJECT NAME <u>Bridgeside</u>	BORING LOCATION <u>Rear, dry cleaner</u>		
PROJECT NUMBER <u>1057.05</u>	PROJECT LOCATION <u>Alameda, CA</u>		
DATE STARTED <u>7/7/03</u>	COMPLETED <u>7/7/03</u>	GROUND ELEVATION _____	HOLE SIZE <u>3"</u>
DRILLING CONTRACTOR <u>ECA</u>	AGENCY _____	GROUND WATER LEVELS:	
DRILLING METHOD <u>Direct Push</u>		∇ AT TIME OF DRILLING <u>8.9 ft</u>	
LOGGED BY <u>THB</u>	CHECKED BY _____	AT END OF DRILLING <u>—</u>	
SURFACE CONDITIONS _____		AFTER DRILLING <u>—</u>	

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
1	GP15-1			Concrete, Base Rock
2		ML		Gravelly silt (ML) greyish brown, dry, gravel up to 1/2" diameter, possible slough in 1-2' portion of sample interval
3				
4	P15-3.5			3.5 Clay (CL-CH) v. dark greyish brown (10y r3/2) moist, soft, medium plasticity
5	GP15-5			5.5 color changes to black, same as above
6				
7				
8				
9				∇
10				
11				Direct push to 16'
12				
13				
14				
15				
16				16.0 Bottom of hole at 16.0 feet.

GENERAL NORTH: FE 1057.05 BRIDGESIDE.GPJ GINT US.GDT 7/18/03



PROJECT NAME <u>Bridgeside</u>	BORING LOCATION <u>Inside, rear of Dry Cleaner</u>		
PROJECT NUMBER <u>1057.05</u>	PROJECT LOCATION <u>Alameda, CA</u>		
DATE STARTED <u>7/7/03</u>	COMPLETED <u>7/7/03</u>	GROUND ELEVATION _____	HOLE SIZE <u>3"</u>
DRILLING CONTRACTOR <u>ECA</u>	AGENCY _____	GROUND WATER LEVELS:	
DRILLING METHOD <u>Direct Push</u>	AT TIME OF DRILLING <u>---</u>		
LOGGED BY <u>THB</u>	CHECKED BY _____	AT END OF DRILLING <u>---</u>	
SURFACE CONDITIONS _____	AFTER DRILLING <u>---</u>		

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
1				Concrete, Base Rock
2	SP16-1	ML		Gravelly silt (ML) dark greyish brown, dry to damp, fine gravel to 1/4" diameter, slough no odor
3		CL-ML		Silty Clay (CL) black, slight moist, medium stiff, no odor
4				
5	SP16-5	CL		Grades to Clay (CL) black (10yr 2/1) moist, soft, medium plasticity, slight organic odor
Bottom of hole at 5.5 feet.				

GENERAL NORTH... (E 1057.05 BRIDGESIDE.GPJ) GINT US.GDT 7/18/03



PROJECT NAME <u>Bridgeside</u>	BORING LOCATION <u>Inside of Dry Cleaner, south wall</u>
PROJECT NUMBER <u>1057.05</u>	PROJECT LOCATION <u>Alameda, CA</u>
DATE STARTED <u>7/7/03</u>	COMPLETED <u>7/7/03</u>
DRILLING CONTRACTOR <u>ECA</u>	AGENCY _____
DRILLING METHOD <u>Direct Push</u>	GROUND ELEVATION _____ HOLE SIZE <u>3"</u>
LOGGED BY <u>THB</u>	CHECKED BY _____
SURFACE CONDITIONS <u>Concrete</u>	GROUND WATER LEVELS:
	∇ AT TIME OF DRILLING <u>9.2 ft</u>
	AT END OF DRILLING <u>---</u>
	AFTER DRILLING <u>---</u>

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
1				Concrete, Base Rock (medium brown sand)
2	GP17-1			Gravelly silt (ML) greyish brown, dry
	GP17-1.5			
3	GP17-2 ML			
	GP17-2.5			
4		ML		Silt (ML) brown, dry, grades to Clay (CL) black, soft to medium stiff, med plasticity, no odor
5	GP17-5			
6				
7				
8				
9				∇
10				
11				
12				
13				
14				
15				Direct push to 16'
16				Bottom of hole at 16.0 feet.

GENERAL NORTHGATE 1057.05 BRIDGESIDE.GPJ GINT US.GDT 7/18/03



# GROUNDWATER SAMPLING FIELD DATA SHEET

PROJECT: 1057.05  
 PURGED BY: JWC  
 SAMPLED BY: JWC

SAMPLE ID: MW-1  
 TYPE:  Groundwater Well  Leachate  
 Surface Water Sample

CASING DIAMETER (inches): 2 X 3 \_\_\_\_\_ 4 \_\_\_\_\_ 4.5 \_\_\_\_\_ 6 \_\_\_\_\_ Other \_\_\_\_\_

CASING ELEVATION (feet/MSL): \_\_\_\_\_ PURGE METHOD:  
 DEPTH OF WELL (feet): 21.26'  Low-Flow Purge  No Purge  
 DEPTH TO WATER (feet): 5.82'  3+ Casing Volumes  
 Minimum Purge Volume (gals): 8.52

DATE PURGED: 6/20/03 END PURGE: 1041  
 DATE SAMPLED: 6/20/03 SAMPLING TIME: 1044

TIME (2400HR)	D.T.W. (ft)	pH (units)	E.C. (uS/cm)	Temp. (°C)	Dis. O <sub>2</sub> (mg/l)	Turbidity (NTU)	O.R.P. (mV)	Flow Rate (ml/min)
1026		7.08	609	24.7				
1028		6.99	612	23.7				
1032		7.00	620	22.5				
1036		6.96	623	22.6				
1039		7.01	622	22.5				

OTHER: \_\_\_\_\_ COLOR (Cobalt, 0-100): \_\_\_\_\_ ODOR: \_\_\_\_\_  
 FIELD SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): \_\_\_\_\_  
 PURGING/SAMPLING EQUIPMENT:  Dedicated Bladder Pump  Electric Submersible Pump  
 Disposable Bailer  Dipper

WELL INTEGRITY: cracked well plate cover, ~~the~~ b-w screws also LOCK: \_\_\_\_\_  
 REMARKS: collected 3 JOAs, 1 L

FIELD METER MODEL NUMBER(S):  Horiba U-10  Hanna 991300 CALIBRATION DATE(S): 6/20/03  
 pH: 4 7 X 10 X EC: 1000 X O.R.P.: \_\_\_\_\_ Turbidity: \_\_\_\_\_  
 D.O.: \_\_\_\_\_

SIGNATURE: JWC PAGE \_\_\_\_\_ OF \_\_\_\_\_



# GROUNDWATER SAMPLING FIELD DATA SHEET

PROJECT: 1057.05  
 PURGED BY: JWO  
 SAMPLED BY: JWO

SAMPLE ID: MW-2  
 TYPE:  Groundwater Well  Leachate  
 Surface Water Sample

CASING DIAMETER (inches): 2 + 3 \_\_\_\_\_ 4 \_\_\_\_\_ 4.5 \_\_\_\_\_ 6 \_\_\_\_\_ Other \_\_\_\_\_

CASING ELEVATION (feet/MSL): \_\_\_\_\_ PURGE METHOD:  
 DEPTH OF WELL (feet): 23.72'  Low-Flow Purge  No Purge  
 DEPTH TO WATER (feet): 7.90'  3+ Casing Volumes  
 Minimum Purge Volume (gals): 7.74

DATE PURGED: 6/20/03 END PURGE: 1140  
 DATE SAMPLED: 6/20/03 SAMPLING TIME: 1145

TIME (2400HR)	D.T.W. (ft)	pH (units)	E.C. (uS/cm)	Temp. (°C)	Dis. O <sub>2</sub> (mg/l)	Turbidity (NTU)	O.R.P. (mV)	Flow Rate (ml/min)
1:24		7.02	3999+	21.6				
11:28		7.08	3999+	20.2				
11:32		7.12	3999+	19.7				
1:36		7.15	3999+	19.5				
11:40		7.16	3999+	19.5				

OTHER: \_\_\_\_\_ COLOR (Cobalt, 0-100): \_\_\_\_\_ ODOR: \_\_\_\_\_  
 FIELD SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): \_\_\_\_\_  
 PURGING/SAMPLING EQUIPMENT:  Dedicated Bladder Pump  Electric Submersible Pump  
 Disposable Bailer  Dipper

WELL INTEGRITY: good LOCK: \_\_\_\_\_  
 REMARKS: sampled 3 VOAs, 1 L  
turbid, var/ high f.c.

FIELD METER MODEL NUMBER(S):  Horiba U-10  Hanna 991300 CALIBRATION DATE(S): \_\_\_\_\_  
 pH: 4 7 10 EC 1000 O.R.P.: \_\_\_\_\_ Turbidity: \_\_\_\_\_  
 D.O.: \_\_\_\_\_  
 SIGNATURE: JWO PAGE \_\_\_\_\_ OF \_\_\_\_\_



# GROUNDWATER SAMPLING FIELD DATA SHEET

PROJECT: 1057.05  
 PURGED BY: JWO  
 SAMPLED BY: JWO

SAMPLE ID: MW-3  
 TYPE:  Groundwater Well  Leachate  
 Surface Water Sample

CASING DIAMETER (inches): 2  3 \_\_\_\_\_ 4 \_\_\_\_\_ 4.5 \_\_\_\_\_ 6 \_\_\_\_\_ Other \_\_\_\_\_

CASING ELEVATION (feet/MSL): \_\_\_\_\_ PURGE METHOD:  
 DEPTH OF WELL (feet): 22.77'  Low-Flow Purge  No Purge  
 DEPTH TO WATER (feet): 5.08'  3+ Casing Volumes  
 Minimum Purge Volume (gals): 8.65

DATE PURGED: 6/20/03 END PURGE: 0950  
 DATE SAMPLED: 6/20/03 SAMPLING TIME: 0955

TIME (2400HR)	D.T.W. (ft)	pH (units)	E.C. (uS/cm)	Temp. (°C)	Dis. O <sub>2</sub> (mg/l)	Turbidity (NTU)	O.R.P. (mV)	Flow Rate (ml/min)
0929		6.76	485	18.9				
0932		6.76	480	19.5				
0935		7.00	477	19.6				
0937		7.21	473	19.6				
0944		7.34	470	19.6				
0949		7.37	468	19.5				

OTHER: \_\_\_\_\_ COLOR (Cobalt, 0-100): \_\_\_\_\_ ODOR: \_\_\_\_\_  
 FIELD SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): \_\_\_\_\_  
 PURGING/SAMPLING EQUIPMENT:  Dedicated Bladder Pump  Electric Submersible Pump  
 Disposable Bailer  Dipper

WELL INTEGRITY: good LOCK: \_\_\_\_\_  
 REMARKS: sampled 3 VOAs, 1 L

FIELD METER MODEL NUMBER(S):  Horiba U-10  Hanna 991300 CALIBRATION DATE(S): 6/20/03  
 pH: 7.3 EC: 1000 O.R.P.: \_\_\_\_\_ Turbidity: \_\_\_\_\_  
 D.O.: \_\_\_\_\_  
 SIGNATURE: [Signature] PAGE \_\_\_\_\_ OF \_\_\_\_\_



June 25, 2003

Dennis Laduzinsky  
Northgate Environmental Management, Inc.  
3629 Grand Avenue  
Oakland, CA 94610

TEL: 510-839-0688

FAX 510-839-4350

RE:

Order No.: 0306075

Dear Dennis Laduzinsky:

Torrent Laboratory, Inc. received 3 samples on 6/20/2003 for the analyses presented in the following report.

All data for associated QC met EPA or Laboratory specification except where noted in the case narrative.

Torrent laboratory Inc. is certified by the State of California, ELAP #1991. If you have any question regarding these tests results, please feel free to contact Environmental Coordinator, Ms. Anu Patel at (408)263-5258;ext: 204.

Sincerely,

\_\_\_\_\_  
Laboratory Director

\_\_\_\_\_  
Date

**Certified Analytical Report of**  
**Petroleum Hydrocarbons**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/20/2003  
Date Reported: 6/25/2003

Client Sample ID: MW-1	Lab Sample ID: 0306075-001A
Sample Location: Alameda	Date Prepared: 6/24/2003
Sample Matrix: WATER	
Date/Time Sampled 6/20/2003 10:44:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
TPH (Diesel)	SW8015B	6/24/2003	0.1	1	0.100	ND	mg/L
TPH (Gasoline)	SW8015B	6/23/2003	0.1	1	0.100	ND	mg/L
Surr: Pentacosane	SW8015B	6/24/2003	0	1	50-150	51.0	%REC
Surr: Trifluorotoluene	SW8015B	6/23/2003	0	1	65-135	105	%REC

Certified Analytical Report of  
Purgeable Volatile Organics

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/20/2003  
Date Reported: 6/25/2003

Client Sample ID: MW-1	Lab Sample ID: 0306075-001A
Sample Location: Alameda	Date Prepared: 6/23/2003
Sample Matrix: WATER	
Date/Time Sampled: 6/20/2003 10:44:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Benzene	SW8260B	6/23/2003	1	1	1.0	ND	µg/L
Ethylbenzene	SW8260B	6/23/2003	1	1	1.0	ND	µg/L
Methyl tert-butyl ether (MTBE)	SW8260B	6/23/2003	1	1	1.0	ND	µg/L
Toluene	SW8260B	6/23/2003	1	1	1.0	ND	µg/L
Xylenes, Total	SW8260B	6/23/2003	1	1	1.0	ND	µg/L
Surr: 4-Bromofluorobenzene	SW8260B	6/23/2003	0	1	75-125	95.7	%REC
Surr: Dibromofluoromethane	SW8260B	6/23/2003	0	1	75-125	108	%REC
Surr: Toluene-d8	SW8260B	6/23/2003	0	1	75-125	113	%REC

**Certified Analytical Report of**  
**Petroleum Hydrocarbons**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/20/2003  
Date Reported: 6/25/2003

<b>Client Sample ID:</b> MW-2	<b>Lab Sample ID:</b> 0306075-002A
<b>Sample Location:</b> Alameda	<b>Date Prepared:</b> 6/23/2003-6/24/2003
<b>Sample Matrix:</b> WATER	
<b>Date/Time Sampled</b> 6/20/2003 11:45:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
TPH (Diesel)	SW8015B	6/24/2003	0.1	1	0.100	ND	mg/L
TPH (Gasoline)	SW8015B	6/23/2003	0.1	1	0.100	ND	mg/L
Surr: Pentacosane	SW8015B	6/24/2003	0	1	50-150	80.0	%REC
Surr: Trifluorotoluene	SW8015B	6/23/2003	0	1	65-135	78.0	%REC

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/20/2003  
Date Reported: 6/25/2003

Client Sample ID: MW-2	Lab Sample ID: 0306075-002A
Sample Location: Alameda	Date Prepared: 6/23/2003
Sample Matrix: WATER	
Date/Time Sampled 6/20/2003 11:45:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Benzene	SW8260B	6/23/2003	1	1	1.0	ND	µg/L
Ethylbenzene	SW8260B	6/23/2003	1	1	1.0	ND	µg/L
Methyl tert-butyl ether (MTBE)	SW8260B	6/23/2003	1	1	1.0	ND	µg/L
Toluene	SW8260B	6/23/2003	1	1	1.0	ND	µg/L
Xylenes, Total	SW8260B	6/23/2003	1	1	1.0	ND	µg/L
Surr: 4-Bromofluorobenzene	SW8260B	6/23/2003	0	1	75-125	101	%REC
Surr: Dibromofluoromethane	SW8260B	6/23/2003	0	1	75-125	103	%REC
Surr: Toluene-d8	SW8260B	6/23/2003	0	1	75-125	112	%REC

**Certified Analytical Report of**  
**Petroleum Hydrocarbons**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/20/2003  
Date Reported: 6/25/2003

Client Sample ID: MW-3	Lab Sample ID: 0306075-003A
Sample Location: Alameda	Date Prepared: 6/23/2003-6/24/2003
Sample Matrix: WATER	
Date/Time Sampled 6/20/2003 9:55:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
TPH (Diesel)	SW8015B	6/24/2003	0.1	1	0.100	ND	mg/L
TPH (Gasoline)	SW8015B	6/23/2003	0.1	1	0.100	ND	mg/L
Surr: Pentacosane	SW8015B	6/24/2003	0	1	50-150	74.0	%REC
Surr: Trifluorotoluene	SW8015B	6/23/2003	0	1	65-135	100	%REC

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
 Northgate Environmental Management, Inc.

Date Received: 6/20/2003  
 Date Reported: 6/25/2003

Client Sample ID: MW-3	Lab Sample ID: 0306075-003A
Sample Location: Alameda	Date Prepared: 6/23/2003
Sample Matrix: WATER	
Date/Time Sampled 6/20/2003 9:55:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Benzene	SW8260B	6/23/2003	1	1	1.0	ND	µg/L
Ethylbenzene	SW8260B	6/23/2003	1	1	1.0	ND	µg/L
Methyl tert-butyl ether (MTBE)	SW8260B	6/23/2003	1	1	1.0	ND	µg/L
Toluene	SW8260B	6/23/2003	1	1	1.0	ND	µg/L
Xylenes, Total	SW8260B	6/23/2003	1	1	1.0	ND	µg/L
Surr: 4-Bromofluorobenzene	SW8260B	6/23/2003	0	1	75-125	97.7	%REC
Surr: Dibromofluoromethane	SW8260B	6/23/2003	0	1	75-125	99.7	%REC
Surr: Toluene-d8	SW8260B	6/23/2003	0	1	75-125	101	%REC

**Definitions, legends and Notes**

Note	Description
ug/kg	Microgram per kilogram (ppb, part per billion).
ug/L	Microgram per liter (ppb, part per billion).
mg/kg	Milligram per kilogram (ppm, part per million).
mg/L	Milligram per liter (ppm, part per million).
LCS/LCSD	Laboratory control sample/laboratory control sample duplicate.
MDL	Method detection limit.
MRL	Modified reporting limit. When sample is subject to dilution, reporting limit times dilution factor yields MRL.
MS/MSD	Matrix spike/matrix spike duplicate.
N/A	Not applicable.
ND	Not detected at or above detection limit.
NR	Not reported.
QC	Quality Control.
RL	Reporting limit.
% RPD	Percent relative difference.
a	pH was measured immediately upon the receipt of the sample, but it was still done outside the holding time.
sub	Analyzed by subcontracting laboratory, Lab Certificate #





CLIENT:   
 Work Order:   
 Project:

**ANALYTICAL QC SUMMARY REPORT**

TestCode: 8260\_W

Sample ID	0306080-010AMS	SampType:	MS	TestCode:	8260_W	Units:	µg/L	Prep Date:	6/23/2003	Run ID:	VOCGCMS1_030623A
Client ID:	ZZZZZ	Batch ID:	R1616	TestNo:	SW8260B	Analysis Date:	6/24/2003	SeqNo:	27240		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.45	1.0	17.86	0	115	75	125	0	0		
Toluene	19.29	1.0	17.86	0	108	75	125	0	0		
Surr: 4-Bromofluorobenzene	18.33	0	17.86	0	103	75	125	0	0		
Surr: Dibromofluoromethane	18.54	0	17.86	0	104	75	125	0	0		
Surr: Toluene-d8	20.02	0	17.86	0	112	75	125	0	0		

Sample ID	0306080-010AMSD	SampType:	MSD	TestCode:	8260_W	Units:	µg/L	Prep Date:	6/23/2003	Run ID:	VOCGCMS1_030623A
Client ID:	ZZZZZ	Batch ID:	R1616	TestNo:	SW8260B	Analysis Date:	6/24/2003	SeqNo:	27241		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.23	1.0	17.86	0	119	75	125	20.45	3.72	30	
Toluene	18.61	1.0	17.86	0	104	75	125	19.29	3.58	30	
Surr: 4-Bromofluorobenzene	17.6	0	17.86	0	98.5	75	125	0	0	0	
Surr: Dibromofluoromethane	17.25	0	17.86	0	96.6	75	125	0	0	0	
Surr: Toluene-d8	19.36	0	17.86	0	108	75	125	0	0	0	

CLIENT: [REDACTED]

Work Order: [REDACTED]

Project:

### ANALYTICAL QC SUMMARY REPORT

TestCode: TPH\_DSL\_W\_8015B

Sample ID	SD030624A-MB	SampType	MBLK	TestCode	TPH_DSL_W	Units	mg/L	Prep Date	6/24/2003	Run ID	SVOCGC1_030624A	
Client ID	ZZZZ	Batch ID	R1619	TestNo	SW8015B			Analysis Date	6/24/2003	SeqNo	27285	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Diesel)	ND	0.100										
Surr: Pentacosane	0.06	0	0.1	0	60	50	150	0	0			

Sample ID	SD030624A-LCS	SampType	LCS	TestCode	TPH_DSL_W	Units	mg/L	Prep Date	6/24/2003	Run ID	SVOCGC1_030624A	
Client ID	ZZZZ	Batch ID	R1619	TestNo	SW8015B			Analysis Date	6/24/2003	SeqNo	27286	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Diesel)	0.72	0.100	1	0	72	50	150	0	0			
Surr: Pentacosane	0.062	0	0.1	0	62	50	150	0	0			

Sample ID	SD030624A-LCSD	SampType	LCSD	TestCode	TPH_DSL_W	Units	mg/L	Prep Date	6/24/2003	Run ID	SVOCGC1_030624A	
Client ID	ZZZZ	Batch ID	R1619	TestNo	SW8015B			Analysis Date	6/24/2003	SeqNo	27287	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Diesel)	0.855	0.100	1	0	85.5	50	150	0.72	17.1	30		
Surr: Pentacosane	0.075	0	0.1	0	75	50	150	0	0	0		

Qualifiers: [REDACTED]

CLIENT: [REDACTED]

Work Order: [REDACTED]

Project: [REDACTED]

### ANALYTICAL QC SUMMARY REPORT

TestCode: TPH\_GAS\_W\_8015B

Sample ID	Blank-1	SampType	MBLK	TestCode	TPH_GAS_W	Units	mg/L	Prep Date	6/23/2003	Run ID	VOCGC1_030623B												
Client ID	ZZZZZ	Batch ID	R1629	TestNo	SW8015B			Analysis Date	6/23/2003	SeqNo	27329												
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual	

TPH (Gasoline)	ND	0.100																				
Surr: Trifluorotoluene	0.088	0	0.1	0	88	65	135	0	0													

Sample ID	LCS-1, 238.10 ppb	SampType	LCS	TestCode	TPH_GAS_W	Units	mg/L	Prep Date	6/23/2003	Run ID	VOCGC1_030623B												
Client ID	ZZZZZ	Batch ID	R1629	TestNo	SW8015B			Analysis Date	6/23/2003	SeqNo	27330												
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual	

TPH (Gasoline)	0.252	0.100	0.238	0	106	65	135	0	0												
Surr: Trifluorotoluene	0.083	0	0.1	0	83	65	135	0	0												

Sample ID	LCS-1, 238.10 ppb	SampType	LCS	TestCode	TPH_GAS_W	Units	mg/L	Prep Date	6/23/2003	Run ID	VOCGC1_030623B												
Client ID	ZZZZZ	Batch ID	R1629	TestNo	SW8015B			Analysis Date	6/23/2003	SeqNo	27331												
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual	

TPH (Gasoline)	0.25	0.100	0.2381	0	105	65	135	0.252	0.797	30											
Surr: Trifluorotoluene	0.091	0	0.1	0	91	65	135	0	0	0											

Sample ID	0306066-001AMS	SampType	MS	TestCode	TPH_GAS_W	Units	mg/L	Prep Date	6/23/2003	Run ID	VOCGC1_030623B												
Client ID	ZZZZZ	Batch ID	R1629	TestNo	SW8015B			Analysis Date	6/23/2003	SeqNo	27332												
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual	

TPH (Gasoline)	0.245	0.100	0.2381	0	103	65	135	0	0												
Surr: Trifluorotoluene	0.087	0	0.1	0	87	65	135	0	0												

Sample ID	0306066-001AMSD	SampType	MSD	TestCode	TPH_GAS_W	Units	mg/L	Prep Date	6/23/2003	Run ID	VOCGC1_030623B												
Client ID	ZZZZZ	Batch ID	R1629	TestNo	SW8015B			Analysis Date	6/23/2003	SeqNo	27333												
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual	

TPH (Gasoline)	0.261	0.100	0.2381	0	110	65	135	0.245	6.32	30											
Surr: Trifluorotoluene	0.088	0	0.1	0	88	65	135	0	0	0											

Qualifiers: [REDACTED]

[REDACTED]

[REDACTED]



northgate  
environmental  
management, inc.

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

030675

Project No.: 1057.05		Project Location: ALAMEDA				Date: 6/20/03		Serial No.:			
Project Name:		Field Logbook No.:				ANALYSES		Samplers: JWO			
Sampler (Signature): <i>[Signature]</i>		Samples						REMARKS			
Sample No.	Date	Time	Lab Sample No.	No. of Containers	Sample Type	TPHS	BTEX	TPH	HOLD	RUSH	
0018 MW-1	6/20	10:44		4	WATER	X	X	X		X	3-4 day rush
0020 MW-2	6/20	11:45		4	I	X	X	X		X	
0022 MW-3	6/20	09:55		4	I	X	X	X		X	
Relinquished by: <i>[Signature]</i>		Date: 6/20/03	Time:	Received By: <i>[Signature]</i>		Date: 6/20/03	Time: 2:40				
Relinquished by:		Date:	Time:	Received By:		Date:	Time:				
Relinquished by:		Date:	Time:	Received By:		Date:	Time:				
Method of Shipment:		Date:	Time:	Lab Comments:							
Sample Collector: Northgate Environmental Management, Inc. 3629 Grand Avenue Oakland, California 94610 (510) 839 0688				Analytical Laboratory: <i>Torrent Labs</i>							

June 13, 2003

David Laduzinsley  
Northgate Environmental Management, Inc.  
3629 Grand Avenue  
Oakland, CA 94610  
TEL: 510-839-0688  
FAX 510-839-4350

RE:

Order No.: 0306029

Dear David Laduzinsley:

Torrent Laboratory, Inc. received 23 samples on 6/6/2003 for the analyses presented in the following report.

All data for associated QC met EPA or Laboratory specification except where noted in the case narrative.

Torrent laboratory Inc. is certified by the State of California, ELAP #1991. If you have any question regarding these tests results, please feel free to contact Environmental Coordinator, Ms. Anu Patel at (408)263-5258;ext: 204.

Sincerely,

\_\_\_\_\_  
Laboratory Director

\_\_\_\_\_  
Date

**Certified Analytical Report of**  
**Petroleum Hydrocarbons**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

Client Sample ID: GP-1	Lab Sample ID: 0306029-001A
Sample Location: Alameda	Date Prepared: 6/9/2003
Sample Matrix: WATER	
Date/Time Sampled 6/5/2003 2:45:00 PM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
TPH (Diesel)	SW8015B	6/11/2003	0.1	1	0.100	ND	mg/L
TPH (Gasoline)	SW8015B	6/10/2003	0.1	1	0.100	ND	mg/L
Surr: Pentacosane	SW8015B	6/11/2003	0	1	50-150	82.0	%REC
Surr: Trifluorotoluene	SW8015B	6/10/2003	0	1	60-130	64.1	%REC

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

<b>Client Sample ID:</b> GP-1	<b>Lab Sample ID:</b> 0306029-001A
<b>Sample Location:</b> Alameda	<b>Date Prepared:</b> 6/11/2003
<b>Sample Matrix:</b> WATER	
<b>Date/Time Sampled:</b> 6/5/2003 2:45:00 PM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
1,1,1,2-Tetrachloroethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,1,1-Trichloroethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,1,2,2-Tetrachloroethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,1,2-Trichloroethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,1-Dichloroethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,1-Dichloroethene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,1-Dichloropropene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,2,3-Trichlorobenzene	SW8260B	6/12/2003	5.95	1	6.0	ND	µg/L
1,2,3-Trichloropropane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,2,4-Trichlorobenzene	SW8260B	6/12/2003	5.95	1	6.0	ND	µg/L
1,2,4-Trimethylbenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,2-Dibromo-3-chloropropane	SW8260B	6/12/2003	5.95	1	6.0	ND	µg/L
1,2-Dibromoethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,2-Dichlorobenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,2-Dichloroethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,2-Dichloropropane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,3,5-Trimethylbenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,3-Dichlorobenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,3-Dichloropropane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,4-Dichlorobenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
2,2-Dichloropropane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
2-Chloroethyl vinyl ether	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
2-Chlorotoluene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
4-Chlorotoluene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
4-Isopropyltoluene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Benzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Bromobenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Bromochloromethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Bromodichloromethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Bromoform	SW8260B	6/12/2003	2	1	2.0	ND	µg/L
Bromomethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Carbon tetrachloride	SW8260B	6/12/2003	1	1	1.0	ND	µg/L

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991



**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

Client Sample ID: GP-1	Lab Sample ID: 0306029-001A
Sample Location: Alameda	Date Prepared: 6/11/2003
Sample Matrix: WATER	
Date/Time Sampled 6/5/2003 2:45:00 PM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Chlorobenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Chloroform	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Chloromethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
cis-1,2-Dichloroethene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Dibromochloromethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Dibromomethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Dichlorodifluoromethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Ethyl tert-butyl ether (ETBE)	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Ethylbenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Freon-113	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Hexachlorobutadiene	SW8260B	6/12/2003	5.95	1	6.0	ND	µg/L
Isopropyl ether (IPE)	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Isopropylbenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Methyl tert-butyl ether (MTBE)	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Methylene chloride	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Naphthalene	SW8260B	6/12/2003	5.95	1	6.0	ND	µg/L
n-Butylbenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
n-Propylbenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
sec-Butylbenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Styrene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
t-Butyl alcohol (t-Butanol)	SW8260B	6/12/2003	29.76	1	30	ND	µg/L
tert-Amyl methyl ether (TAME)	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
tert-Butylbenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Tetrachloroethene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Toluene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
trans-1,2-Dichloroethene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
trans-1,3-Dichloropropene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Trichloroethene	SW8260B	6/12/2003	2	1	2.0	ND	µg/L
Trichlorofluoromethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Vinyl chloride	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Xylenes, Total	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Surr: 4-Bromofluorobenzene	SW8260B	6/12/2003	0	1	75-125	85.9	%REC

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

Client Sample ID: GP-1	Lab Sample ID: 0306029-001A
Sample Location: Alameda	Date Prepared: 6/11/2003
Sample Matrix: WATER	
Date/Time Sampled 6/5/2003 2:45:00 PM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Surr: Dibromofluoromethane	SW8260B	6/12/2003	0	1	75-125	141	%REC
Surr: Toluene-d8	SW8260B	6/12/2003	0	1	75-125	101	%REC

Note: Surrogate outside the control limit due to possible matrix interference.

**Certified Analytical Report of**  
**Petroleum Hydrocarbons**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

Client Sample ID: GP-2	Lab Sample ID: 0306029-002A
Sample Location: Alameda	Date Prepared: 6/9/2003
Sample Matrix: WATER	
Date/Time Sampled 6/5/2003 7:30:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
TPH (Gasoline)	SW8015B	6/10/2003	0.1	1	0.100	ND	mg/L
Surr: Trifluorotoluene	SW8015B	6/10/2003	0	1	60-130	63.0	%REC

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

Client Sample ID: GP-2	Lab Sample ID: 0306029-002A
Sample Location: Alameda	Date Prepared: 6/11/2003
Sample Matrix: WATER	
Date/Time Sampled 6/5/2003 7:30:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
1,1,1,2-Tetrachloroethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,1,1-Trichloroethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,1,2,2-Tetrachloroethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,1,2-Trichloroethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,1-Dichloroethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,1-Dichloroethene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,1-Dichloropropene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,2,3-Trichlorobenzene	SW8260B	6/12/2003	5.95	1	6.0	ND	µg/L
1,2,3-Trichloropropane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,2,4-Trichlorobenzene	SW8260B	6/12/2003	5.95	1	6.0	ND	µg/L
1,2,4-Trimethylbenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,2-Dibromo-3-chloropropane	SW8260B	6/12/2003	5.95	1	6.0	ND	µg/L
1,2-Dibromoethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,2-Dichlorobenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,2-Dichloroethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,2-Dichloropropane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,3,5-Trimethylbenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,3-Dichlorobenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,3-Dichloropropane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,4-Dichlorobenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
2,2-Dichloropropane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
2-Chloroethyl vinyl ether	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
2-Chlorotoluene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
4-Chlorotoluene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
4-Isopropyltoluene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Benzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Bromobenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Bromochloromethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Bromodichloromethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Bromoform	SW8260B	6/12/2003	2	1	2.0	ND	µg/L
Bromomethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Carbon tetrachloride	SW8260B	6/12/2003	1	1	1.0	ND	µg/L

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

Client Sample ID: GP-2	Lab Sample ID: 0306029-002A
Sample Location: Alameda	Date Prepared: 6/11/2003
Sample Matrix: WATER	
Date/Time Sampled 6/5/2003 7:30:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Chlorobenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Chloroform	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Chloromethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
cis-1,2-Dichloroethene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Dibromochloromethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Dibromomethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Dichlorodifluoromethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Ethyl tert-butyl ether (ETBE)	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Ethylbenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Freon-113	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Hexachlorobutadiene	SW8260B	6/12/2003	5.95	1	6.0	ND	µg/L
Isopropyl ether (IPE)	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Isopropylbenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Methyl tert-butyl ether (MTBE)	SW8260B	6/12/2003	1	1	1.0	2.2	µg/L
Methylene chloride	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Naphthalene	SW8260B	6/12/2003	5.95	1	6.0	ND	µg/L
n-Butylbenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
n-Propylbenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
sec-Butylbenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Styrene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
t-Butyl alcohol (t-Butanol)	SW8260B	6/12/2003	29.76	1	30	ND	µg/L
tert-Amyl methyl ether (TAME)	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
tert-Butylbenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Tetrachloroethene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Toluene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
trans-1,2-Dichloroethene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
trans-1,3-Dichloropropene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Trichloroethene	SW8260B	6/12/2003	2	1	2.0	ND	µg/L
Trichlorofluoromethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Vinyl chloride	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Xylenes, Total	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Surr: 4-Bromofluorobenzene	SW8260B	6/12/2003	0	1	75-125	86.4	%REC

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Certified Analytical Report of  
Purgeable Volatile Organics

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

Client Sample ID: GP-2	Lab Sample ID: 0306029-002A
Sample Location: Alameda	Date Prepared: 6/11/2003
Sample Matrix: WATER	
Date/Time Sampled 6/5/2003 7:30:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Surr: Dibromofluoromethane	SW8260B	6/12/2003	0	1	75-125	142	%REC
Surr: Toluene-d8	SW8260B	6/12/2003	0	1	75-125	99.6	%REC

Note: Surrogate outside the control limit due to possible matrix interference.

**Certified Analytical Report of**  
**Petroleum Hydrocarbons**

Report prepared for: Dennis Laduzinsky  
 Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
 Date Reported: 6/13/2003

Client Sample ID: GP-3	Lab Sample ID: 0306029-003A
Sample Location: Alameda	Date Prepared: 6/9/2003
Sample Matrix: WATER	
Date/Time Sampled 6/5/2003 11:25:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
TPH (Diesel)	SW8015B	6/11/2003	0.1887	1	0.189	ND	mg/L
TPH (Gasoline)	SW8015B	6/10/2003	0.1	1	0.100	ND	mg/L
Surr: Pentacosane	SW8015B	6/11/2003	0	1	50-150	57.0	%REC
Surr: Trifluorotoluene	SW8015B	6/10/2003	0	1	60-130	59.7	%REC

Note: Surrogate outside the control limit due to possible matrix interference.

Note: Reporting limit increased due to limited sample volume provided.

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

Client Sample ID: GP-3	Lab Sample ID: 0306029-003A
Sample Location: Alameda	Date Prepared: 6/11/2003
Sample Matrix: WATER	
Date/Time Sampled 6/5/2003 11:25:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
1,1,1,2-Tetrachloroethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,1,1-Trichloroethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,1,2,2-Tetrachloroethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,1,2-Trichloroethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,1-Dichloroethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,1-Dichloroethene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,1-Dichloropropene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,2,3-Trichlorobenzene	SW8260B	6/12/2003	5.95	1	6.0	ND	µg/L
1,2,3-Trichloropropane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,2,4-Trichlorobenzene	SW8260B	6/12/2003	5.95	1	6.0	ND	µg/L
1,2,4-Trimethylbenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,2-Dibromo-3-chloropropane	SW8260B	6/12/2003	5.95	1	6.0	ND	µg/L
1,2-Dibromoethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,2-Dichlorobenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,2-Dichloroethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,2-Dichloropropane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,3,5-Trimethylbenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,3-Dichlorobenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,3-Dichloropropane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,4-Dichlorobenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
2,2-Dichloropropane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
2-Chloroethyl vinyl ether	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
2-Chlorotoluene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
4-Chlorotoluene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
4-Isopropyltoluene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Benzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Bromobenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Bromochloromethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Bromodichloromethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Bromoform	SW8260B	6/12/2003	2	1	2.0	ND	µg/L
Bromomethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Carbon tetrachloride	SW8260B	6/12/2003	1	1	1.0	ND	µg/L

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991



**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

Client Sample ID: GP-3	Lab Sample ID: 0306029-003A
Sample Location: Alameda	Date Prepared: 6/11/2003
Sample Matrix: WATER	
Date/Time Sampled 6/5/2003 11:25:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Chlorobenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Chloroform	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Chloromethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
cis-1,2-Dichloroethene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Dibromochloromethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Dibromomethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Dichlorodifluoromethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Ethyl tert-butyl ether (ETBE)	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Ethylbenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Freon-113	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Hexachlorobutadiene	SW8260B	6/12/2003	5.95	1	6.0	ND	µg/L
Isopropyl ether (IPE)	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Isopropylbenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Methyl tert-butyl ether (MTBE)	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Methylene chloride	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Naphthalene	SW8260B	6/12/2003	5.95	1	6.0	ND	µg/L
n-Butylbenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
n-Propylbenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
sec-Butylbenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Styrene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
t-Butyl alcohol (t-Butanol)	SW8260B	6/12/2003	29.76	1	30	ND	µg/L
tert-Amyl methyl ether (TAME)	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
tert-Butylbenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Tetrachloroethene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Toluene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
trans-1,2-Dichloroethene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
trans-1,3-Dichloropropene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Trichloroethene	SW8260B	6/12/2003	2	1	2.0	ND	µg/L
Trichlorofluoromethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Vinyl chloride	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Xylenes, Total	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Surr: 4-Bromofluorobenzene	SW8260B	6/12/2003	0	1	75-125	87.3	%REC

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Certified Analytical Report of  
Purgeable Volatile Organics

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

<b>Client Sample ID:</b> GP-3	<b>Lab Sample ID:</b> 0306029-003A
<b>Sample Location:</b> Alameda	<b>Date Prepared:</b> 6/11/2003
<b>Sample Matrix:</b> WATER	
<b>Date/Time Sampled:</b> 6/5/2003 11:25:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Surr: Dibromofluoromethane	SW8260B	6/12/2003	0	1	75-125	140	%REC
Surr: Toluene-d8	SW8260B	6/12/2003	0	1	75-125	104	%REC

Note: Surrogate outside the control limit due to possible matrix interference.

Certified Analytical Report of  
Petroleum Hydrocarbons

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

Client Sample ID: GP-4	Lab Sample ID: 0306029-004A
Sample Location: Alameda	Date Prepared: 6/9/2003
Sample Matrix: WATER	
Date/Time Sampled 6/5/2003 8:10:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
TPH (Diesel)	SW8015B	6/11/2003	0.169	1	0.169	ND	mg/L
Surr: Pentacosane	SW8015B	6/11/2003	0	1	50-150	67.0	%REC

Note: Reporting limit increased due to limited sample volume provided.

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

<b>Client Sample ID:</b> GP-4	<b>Lab Sample ID:</b> 0306029-004A
<b>Sample Location:</b> Alameda	<b>Date Prepared:</b> 6/11/2003
<b>Sample Matrix:</b> WATER	
<b>Date/Time Sampled:</b> 6/5/2003 8:10:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
1,1,1,2-Tetrachloroethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,1,1-Trichloroethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,1,2,2-Tetrachloroethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,1,2-Trichloroethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,1-Dichloroethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,1-Dichloroethene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,1-Dichloropropene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,2,3-Trichlorobenzene	SW8260B	6/12/2003	5.95	1	6.0	ND	µg/L
1,2,3-Trichloropropane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,2,4-Trichlorobenzene	SW8260B	6/12/2003	5.95	1	6.0	ND	µg/L
1,2,4-Trimethylbenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,2-Dibromo-3-chloropropane	SW8260B	6/12/2003	5.95	1	6.0	ND	µg/L
1,2-Dibromoethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,2-Dichlorobenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,2-Dichloroethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,2-Dichloropropane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,3,5-Trimethylbenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,3-Dichlorobenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,3-Dichloropropane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,4-Dichlorobenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
2,2-Dichloropropane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
2-Chloroethyl vinyl ether	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
2-Chlorotoluene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
4-Chlorotoluene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
4-Isopropyltoluene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Benzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Bromobenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Bromochloromethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Bromodichloromethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Bromoform	SW8260B	6/12/2003	2	1	2.0	ND	µg/L
Bromomethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Carbon tetrachloride	SW8260B	6/12/2003	1	1	1.0	ND	µg/L

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

Client Sample ID: GP-4	Lab Sample ID: 0306029-004A
Sample Location: Alameda	Date Prepared: 6/11/2003
Sample Matrix: WATER	
Date/Time Sampled 6/5/2003 8:10:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Chlorobenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Chloroform	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Chloromethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
cis-1,2-Dichloroethene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Dibromochloromethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Dibromomethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Dichlorodifluoromethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Ethyl tert-butyl ether (ETBE)	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Ethylbenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Freon-113	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Hexachlorobutadiene	SW8260B	6/12/2003	5.95	1	6.0	ND	µg/L
Isopropyl ether (IPE)	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Isopropylbenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Methyl tert-butyl ether (MTBE)	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Methylene chloride	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Naphthalene	SW8260B	6/12/2003	5.95	1	6.0	ND	µg/L
n-Butylbenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
n-Propylbenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
sec-Butylbenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Styrene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
t-Butyl alcohol (t-Butanol)	SW8260B	6/12/2003	29.76	1	30	ND	µg/L
tert-Amyl methyl ether (TAME)	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
tert-Butylbenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Tetrachloroethene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Toluene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
trans-1,2-Dichloroethene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
trans-1,3-Dichloropropene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Trichloroethene	SW8260B	6/12/2003	2	1	2.0	ND	µg/L
Trichlorofluoromethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Vinyl chloride	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Xylenes, Total	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Surr: 4-Bromofluorobenzene	SW8260B	6/12/2003	0	1	75-125	86.6	%REC

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Certified Analytical Report of  
Purgeable Volatile Organics

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

Client Sample ID: GP-4	Lab Sample ID: 0306029-004A
Sample Location: Alameda	Date Prepared: 6/11/2003
Sample Matrix: WATER	
Date/Time Sampled 6/5/2003 8:10:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Surr: Dibromofluoromethane	SW8260B	6/12/2003	0	1	75-125	138	%REC
Surr: Toluene-d8	SW8260B	6/12/2003	0	1	75-125	101	%REC

Note: Surrogate outside the control limit due to possible matrix interference.

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

Client Sample ID: GP-5	Lab Sample ID: 0306029-005A
Sample Location: Alameda	Date Prepared: 6/13/2003
Sample Matrix: WATER	
Date/Time Sampled 6/5/2003 1:30:00 PM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
1,1,1,2-Tetrachloroethane	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
1,1,1-Trichloroethane	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
1,1,2,2-Tetrachloroethane	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
1,1,2-Trichloroethane	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
1,1-Dichloroethane	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
1,1-Dichloroethene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
1,1-Dichloropropene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
1,2,3-Trichlorobenzene	SW8260B	6/13/2003	5.95	5	30	ND	µg/L
1,2,3-Trichloropropane	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
1,2,4-Trichlorobenzene	SW8260B	6/13/2003	5.95	5	30	ND	µg/L
1,2,4-Trimethylbenzene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
1,2-Dibromo-3-chloropropane	SW8260B	6/13/2003	5.95	5	30	ND	µg/L
1,2-Dibromoethane	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
1,2-Dichlorobenzene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
1,2-Dichloroethane	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
1,2-Dichloropropane	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
1,3,5-Trimethylbenzene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
1,3-Dichlorobenzene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
1,3-Dichloropropane	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
1,4-Dichlorobenzene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
2,2-Dichloropropane	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
2-Chloroethyl vinyl ether	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
2-Chlorotoluene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
4-Chlorotoluene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
4-Isopropyltoluene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Benzene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Bromobenzene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Bromochloromethane	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Bromodichloromethane	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Bromofom	SW8260B	6/13/2003	2	5	10	ND	µg/L
Bromomethane	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Carbon tetrachloride	SW8260B	6/13/2003	1	5	5.0	ND	µg/L

These analyses were performed according to State of California Environmental Laboratory  
Accreditation program, Certificate # 1991

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

<b>Client Sample ID:</b> GP-5	<b>Lab Sample ID:</b> 0306029-005A
<b>Sample Location:</b> Alameda	<b>Date Prepared:</b> 6/13/2003
<b>Sample Matrix:</b> WATER	
<b>Date/Time Sampled:</b> 6/5/2003 1:30:00 PM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Chlorobenzene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Chloroform	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Chloromethane	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
cis-1,2-Dichloroethene	SW8260B	6/13/2003	1	5	5.0	98	µg/L
Dibromochloromethane	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Dibromomethane	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Dichlorodifluoromethane	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Ethyl tert-butyl ether (ETBE)	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Ethylbenzene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Freon-113	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Hexachlorobutadiene	SW8260B	6/13/2003	5.95	5	30	ND	µg/L
Isopropyl ether (IPE)	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Isopropylbenzene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Methyl tert-butyl ether (MTBE)	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Methylene chloride	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Naphthalene	SW8260B	6/13/2003	5.95	5	30	ND	µg/L
n-Butylbenzene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
n-Propylbenzene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
sec-Butylbenzene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Styrene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
t-Butyl alcohol (t-Butanol)	SW8260B	6/13/2003	29.76	5	150	ND	µg/L
tert-Amyl methyl ether (TAME)	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
tert-Butylbenzene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Tetrachloroethene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Toluene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
trans-1,2-Dichloroethene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
trans-1,3-Dichloropropene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Trichloroethene	SW8260B	6/13/2003	2	5	10	ND	µg/L
Trichlorofluoromethane	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Vinyl chloride	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Xylenes, Total	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Surr: 4-Bromofluorobenzene	SW8260B	6/13/2003	0	5	75-125	87.3	%REC

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991



**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
 Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
 Date Reported: 6/13/2003

Client Sample ID: GP-5	Lab Sample ID: 0306029-005A
Sample Location: Alameda	Date Prepared: 6/13/2003
Sample Matrix: WATER	
Date/Time Sampled 6/5/2003 1:30:00 PM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Surr: Dibromofluoromethane	SW8260B	6/13/2003	0	5	75-125	143	%REC
Surr: Toluene-d8	SW8260B	6/13/2003	0	5	75-125	103	%REC

Note: Surrogate outside the control limit due to possible matrix interference.

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
 Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
 Date Reported: 6/13/2003

Client Sample ID: GP-6	Lab Sample ID: 0306029-006A
Sample Location: Alameda	Date Prepared: 6/11/2003
Sample Matrix: WATER	
Date/Time Sampled 6/5/2003 2:00:00 PM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
1,1,1,2-Tetrachloroethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,1,1-Trichloroethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,1,2,2-Tetrachloroethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,1,2-Trichloroethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,1-Dichloroethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,1-Dichloroethene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,1-Dichloropropene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,2,3-Trichlorobenzene	SW8260B	6/12/2003	5.95	1	6.0	ND	µg/L
1,2,3-Trichloropropane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,2,4-Trichlorobenzene	SW8260B	6/12/2003	5.95	1	6.0	ND	µg/L
1,2,4-Trimethylbenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,2-Dibromo-3-chloropropane	SW8260B	6/12/2003	5.95	1	6.0	ND	µg/L
1,2-Dibromoethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,2-Dichlorobenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,2-Dichloroethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,2-Dichloropropane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,3,5-Trimethylbenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,3-Dichlorobenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,3-Dichloropropane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
1,4-Dichlorobenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
2,2-Dichloropropane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
2-Chloroethyl vinyl ether	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
2-Chlorotoluene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
4-Chlorotoluene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
4-Isopropyltoluene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Benzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Bromobenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Bromochloromethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Bromodichloromethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Bromoform	SW8260B	6/12/2003	2	1	2.0	ND	µg/L
Bromomethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Carbon tetrachloride	SW8260B	6/12/2003	1	1	1.0	ND	µg/L

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

Client Sample ID: GP-6	Lab Sample ID: 0306029-006A
Sample Location: Alameda	Date Prepared: 6/11/2003
Sample Matrix: WATER	
Date/Time Sampled 6/5/2003 2:00:00 PM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Chlorobenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Chloroform	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Chloromethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
cis-1,2-Dichloroethene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Dibromochloromethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Dibromomethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Dichlorodifluoromethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Ethyl tert-butyl ether (ETBE)	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Ethylbenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Freon-113	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Hexachlorobutadiene	SW8260B	6/12/2003	5.95	1	6.0	ND	µg/L
Isopropyl ether (IPE)	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Isopropylbenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Methyl tert-butyl ether (MTBE)	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Methylene chloride	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Naphthalene	SW8260B	6/12/2003	5.95	1	6.0	ND	µg/L
n-Butylbenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
n-Propylbenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
sec-Butylbenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Styrene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
t-Butyl alcohol (t-Butanol)	SW8260B	6/12/2003	29.76	1	30	ND	µg/L
tert-Amyl methyl ether (TAME)	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
tert-Butylbenzene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Tetrachloroethene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Toluene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
trans-1,2-Dichloroethene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
trans-1,3-Dichloropropene	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Trichloroethene	SW8260B	6/12/2003	2	1	2.0	ND	µg/L
Trichlorofluoromethane	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Vinyl chloride	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Xylenes, Total	SW8260B	6/12/2003	1	1	1.0	ND	µg/L
Surr: 4-Bromofluorobenzene	SW8260B	6/12/2003	0	1	75-125	88.1	%REC

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Certified Analytical Report of  
Purgeable Volatile Organics

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

Client Sample ID: GP-6	Lab Sample ID: 0306029-006A
Sample Location: Alameda	Date Prepared: 6/11/2003
Sample Matrix: WATER	
Date/Time Sampled 6/5/2003 2:00:00 PM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
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Surr: Dibromofluoromethane	SW8260B	6/12/2003	0	1	75-125	142	%REC
Surr: Toluene-d8	SW8260B	6/12/2003	0	1	75-125	104	%REC

Note: Surrogate outside the control limit due to possible matrix interference.

**Certified Analytical Report of**  
**Petroleum Hydrocarbons**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

Client Sample ID: GP-7	Lab Sample ID: 0306029-007A
Sample Location: Alameda	Date Prepared: 6/9/2003
Sample Matrix: WATER	
Date/Time Sampled: 6/5/2003 9:10:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
TPH (Diesel)	SW8015B	6/11/2003	0.2	1	0.200	ND	mg/L
TPH (Gasoline)	SW8015B	6/10/2003	0.1	1	0.100	0.323	mg/L
Surr: Pentacosane	SW8015B	6/11/2003	0	1	50-150	79.0	%REC
Surr: Trifluorotoluene	SW8015B	6/10/2003	0	1	60-130	56.4	%REC

Note: Reporting limit increased due to matrix interference.

Note: Surrogate outside the control limit due to possible matrix interference.

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
 Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
 Date Reported: 6/13/2003

<b>Client Sample ID:</b> GP-7	<b>Lab Sample ID:</b> 0306029-007A
<b>Sample Location:</b> Alameda	<b>Date Prepared:</b> 6/13/2003
<b>Sample Matrix:</b> WATER	
<b>Date/Time Sampled</b> 6/5/2003 9:10:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Benzene	SW8260B	6/13/2003	1	1	1.0	ND	µg/L
Ethylbenzene	SW8260B	6/13/2003	1	1	1.0	1.8	µg/L
Methyl tert-butyl ether (MTBE)	SW8260B	6/13/2003	1	1	1.0	ND	µg/L
Toluene	SW8260B	6/13/2003	1	1	1.0	3.4	µg/L
Xylenes, Total	SW8260B	6/13/2003	1	1	1.0	2.2	µg/L
Surr: 4-Bromofluorobenzene	SW8260B	6/13/2003	0	1	75-125	80.6	%REC
Surr: Dibromofluoromethane	SW8260B	6/13/2003	0	1	75-125	141	%REC
Surr: Toluene-d8	SW8260B	6/13/2003	0	1	75-125	103	%REC

Note: Surrogate outside the control limit due to possible matrix interference.

**Certified Analytical Report of**  
**Petroleum Hydrocarbons**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

Client Sample ID: GP-9	Lab Sample ID: 0306029-008A
Sample Location: Alameda	Date Prepared: 6/9/2003-6/12/2003
Sample Matrix: WATER	
Date/Time Sampled 6/5/2003 10:15:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
TPH (Diesel)	SW8015B	6/11/2003	0.45	1	0.450	ND	mg/L
TPH (Gasoline)	SW8015B	6/12/2003	0.2	1	0.200	3.13	mg/L
Surr: Pentacosane	SW8015B	6/11/2003	0	1	50-150	78.0	%REC
Surr: Trifluorotoluene	SW8015B	6/12/2003	0	1	65-135	199	%REC

Note: Surrogate outside the control limit due to possible matrix interference.

Note: Reporting limit increased due to matrix interference.

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

Client Sample ID: GP-9	Lab Sample ID: 0306029-008A
Sample Location: Alameda	Date Prepared: 6/13/2003
Sample Matrix: WATER	
Date/Time Sampled 6/5/2003 10:15:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
1,1,1,2-Tetrachloroethane	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
1,1,1-Trichloroethane	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
1,1,2,2-Tetrachloroethane	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
1,1,2-Trichloroethane	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
1,1-Dichloroethane	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
1,1-Dichloroethene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
1,1-Dichloropropene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
1,2,3-Trichlorobenzene	SW8260B	6/13/2003	5.95	5	30	ND	µg/L
1,2,3-Trichloropropane	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
1,2,4-Trichlorobenzene	SW8260B	6/13/2003	5.95	5	30	ND	µg/L
1,2,4-Trimethylbenzene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
1,2-Dibromo-3-chloropropane	SW8260B	6/13/2003	5.95	5	30	ND	µg/L
1,2-Dibromoethane	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
1,2-Dichlorobenzene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
1,2-Dichloroethane	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
1,2-Dichloropropane	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
1,3,5-Trimethylbenzene	SW8260B	6/13/2003	1	5	5.0	7.5	µg/L
1,3-Dichlorobenzene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
1,3-Dichloropropane	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
1,4-Dichlorobenzene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
2,2-Dichloropropane	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
2-Chloroethyl vinyl ether	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
2-Chlorotoluene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
4-Chlorotoluene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
4-Isopropyltoluene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Benzene	SW8260B	6/13/2003	1	5	5.0	7.3	µg/L
Bromobenzene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Bromochloromethane	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Bromodichloromethane	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Bromoform	SW8260B	6/13/2003	2	5	10	ND	µg/L
Bromomethane	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Carbon tetrachloride	SW8260B	6/13/2003	1	5	5.0	ND	µg/L

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991



**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

Client Sample ID: GP-9	Lab Sample ID: 0306029-008A
Sample Location: Alameda	Date Prepared: 6/13/2003
Sample Matrix: WATER	
Date/Time Sampled 6/5/2003 10:15:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Chlorobenzene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Chloroform	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Chloromethane	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
cis-1,2-Dichloroethene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Dibromochloromethane	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Dibromomethane	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Dichlorodifluoromethane	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Ethyl tert-butyl ether (ETBE)	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Ethylbenzene	SW8260B	6/13/2003	1	5	5.0	45	µg/L
Freon-113	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Hexachlorobutadiene	SW8260B	6/13/2003	5.95	5	30	ND	µg/L
Isopropyl ether (IPE)	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Isopropylbenzene	SW8260B	6/13/2003	1	5	5.0	9.4	µg/L
Methyl tert-butyl ether (MTBE)	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Methylene chloride	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Naphthalene	SW8260B	6/13/2003	5.95	5	30	57	µg/L
n-Butylbenzene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
n-Propylbenzene	SW8260B	6/13/2003	1	5	5.0	17	µg/L
sec-Butylbenzene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Styrene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
t-Butyl alcohol (t-Butanol)	SW8260B	6/13/2003	29.76	5	150	ND	µg/L
tert-Amyl methyl ether (TAME)	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
tert-Butylbenzene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Tetrachloroethene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Toluene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
trans-1,2-Dichloroethene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
trans-1,3-Dichloropropene	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Trichloroethene	SW8260B	6/13/2003	2	5	10	ND	µg/L
Trichlorofluoromethane	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Vinyl chloride	SW8260B	6/13/2003	1	5	5.0	ND	µg/L
Xylenes, Total	SW8260B	6/13/2003	1	5	5.0	6.5	µg/L
Surr: 4-Bromofluorobenzene	SW8260B	6/13/2003	0	5	75-125	92.0	%REC

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

Client Sample ID: GP-10	Lab Sample ID: 0306029-009A
Sample Location: Alameda	Date Prepared: 6/13/2003
Sample Matrix: WATER	
Date/Time Sampled 6/5/2003 10:45:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Benzene	SW8260B	6/13/2003	1	1	1.0	2.2	µg/L
Ethylbenzene	SW8260B	6/13/2003	1	1	1.0	8.8	µg/L
Methyl tert-butyl ether (MTBE)	SW8260B	6/13/2003	1	1	1.0	ND	µg/L
Toluene	SW8260B	6/13/2003	1	1	1.0	ND	µg/L
Xylenes, Total	SW8260B	6/13/2003	1	1	1.0	1.5	µg/L
Surr: 4-Bromofluorobenzene	SW8260B	6/13/2003	0	1	75-125	79.9	%REC
Surr: Dibromofluoromethane	SW8260B	6/13/2003	0	1	75-125	164	%REC
Surr: Toluene-d8	SW8260B	6/13/2003	0	1	75-125	110	%REC

Note: Surrogate outside the control limit due to possible matrix interference.

**Certified Analytical Report of**  
**Petroleum Hydrocarbons**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

Client Sample ID: GP-11	Lab Sample ID: 0306029-010A
Sample Location: Alameda	Date Prepared: 6/9/2003
Sample Matrix: WATER	
Date/Time Sampled 6/5/2003 12:55:00 PM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
TPH (Diesel)	SW8015B	6/11/2003	0.143	1	0.143	ND	mg/L
TPH (Gasoline)	SW8015B	6/10/2003	0.1	1	0.100	ND	mg/L
Surr: Pentacosane	SW8015B	6/11/2003	0	1	50-150	110	%REC
Surr: Trifluorotoluene	SW8015B	6/10/2003	0	1	60-130	61.9	%REC

Note: Reporting limit increased due to limited sample volume provided.

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
 Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
 Date Reported: 6/13/2003

<b>Client Sample ID:</b> GP-11	<b>Lab Sample ID:</b> 0306029-010A
<b>Sample Location:</b> Alameda	<b>Date Prepared:</b> 6/13/2003
<b>Sample Matrix:</b> WATER	
<b>Date/Time Sampled</b> 6/5/2003 12:55:00 PM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Benzene	SW8260B	6/13/2003	1	1	1.0	ND	µg/L
Ethylbenzene	SW8260B	6/13/2003	1	1	1.0	ND	µg/L
Methyl tert-butyl ether (MTBE)	SW8260B	6/13/2003	1	1	1.0	ND	µg/L
Toluene	SW8260B	6/13/2003	1	1	1.0	ND	µg/L
Xylenes, Total	SW8260B	6/13/2003	1	1	1.0	ND	µg/L
Surr: 4-Bromofluorobenzene	SW8260B	6/13/2003	0	1	75-125	91.1	%REC
Surr: Dibromofluoromethane	SW8260B	6/13/2003	0	1	75-125	211	%REC
Surr: Toluene-d8	SW8260B	6/13/2003	0	1	75-125	107	%REC

Note: Surrogate outside the control limit due to possible matrix interference.

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

<b>Client Sample ID:</b> GP4-7	<b>Lab Sample ID:</b> 0306029-011A
<b>Sample Location:</b> Alameda	<b>Date Prepared:</b> 6/10/2003
<b>Sample Matrix:</b> SOIL	
<b>Date/Time Sampled</b> 6/5/2003 7:55:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
1,1,1,2-Tetrachloroethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,1,1-Trichloroethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,1,2,2-Tetrachloroethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,1,2-Trichloroethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,1-Dichloroethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,1-Dichloroethene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,1-Dichloropropene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2,3-Trichlorobenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2,3-Trichloropropane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2,4-Trichlorobenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2,4-Trimethylbenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2-Dibromo-3-chloropropane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2-Dibromoethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2-Dichlorobenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2-Dichloroethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2-Dichloropropane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,3,5-Trimethylbenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,3-Dichlorobenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,3-Dichloropropane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,4-Dichlorobenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
2,2-Dichloropropane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
2-Chloroethyl vinyl ether	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
2-Chlorotoluene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
4-Chlorotoluene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
4-Isopropyltoluene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Benzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Bromobenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Bromochloromethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Bromodichloromethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Bromoform	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Carbon tetrachloride	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Chlorobenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

Client Sample ID: GP4-7	Lab Sample ID: 0306029-011A
Sample Location: Alameda	Date Prepared: 6/10/2003
Sample Matrix: SOIL	
Date/Time Sampled 6/5/2003 7:55:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Chloroform	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Chloromethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
cis-1,2-Dichloroethene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Dibromochloromethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Dibromomethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Dichlorodifluoromethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Ethyl tert-butyl ether (ETBE)	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Ethylbenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Freon-113	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Hexachlorobutadiene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Isopropyl ether (IPE)	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Isopropylbenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Methyl tert-butyl ether (MTBE)	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Methylene chloride	SW8260B	6/10/2003	50	1	50	ND	µg/Kg
Naphthalene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
n-Butylbenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
n-Propylbenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
sec-Butylbenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Styrene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
t-Butyl alcohol (t-Butanol)	SW8260B	6/10/2003	50	1	50	ND	µg/Kg
tert-Amyl methyl ether (TAME)	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
tert-Butylbenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Tetrachloroethene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Toluene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
trans-1,2-Dichloroethene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
trans-1,3-Dichloropropene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Trichloroethene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Trichlorofluoromethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Vinyl chloride	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Xylenes, Total	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Surr: 4-Bromofluorobenzene	SW8260B	6/10/2003	0	1	65-135	83.9	%REC
Surr: Dibromofluoromethane	SW8260B	6/10/2003	0	1	65-135	144	%REC

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

Client Sample ID:	GP4-7	Lab Sample ID:	0306029-011A
Sample Location:	Alameda	Date Prepared:	6/10/2003
Sample Matrix:	SOIL		
Date/Time Sampled	6/5/2003 7:55:00 AM		

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
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Surr: Toluene-d8	SW8260B	6/10/2003	0	1	65-135	98.6	%REC
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Note: Surrogate outside the control limit due to possible matrix interference.

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

Client Sample ID:	GP5-5	Lab Sample ID:	0306029-012A
Sample Location:	Alameda	Date Prepared:	6/10/2003
Sample Matrix:	SOIL		
Date/Time Sampled	6/5/2003 1:25:00 PM		

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
1,1,1,2-Tetrachloroethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,1,1-Trichloroethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,1,2,2-Tetrachloroethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,1,2-Trichloroethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,1-Dichloroethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,1-Dichloroethene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,1-Dichloropropene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2,3-Trichlorobenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2,3-Trichloropropane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2,4-Trichlorobenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2,4-Trimethylbenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2-Dibromo-3-chloropropane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2-Dibromoethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2-Dichlorobenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2-Dichloroethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2-Dichloropropane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,3,5-Trimethylbenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,3-Dichlorobenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,3-Dichloropropane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,4-Dichlorobenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
2,2-Dichloropropane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
2-Chloroethyl vinyl ether	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
2-Chlorotoluene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
4-Chlorotoluene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
4-Isopropyltoluene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Benzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Bromobenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Bromochloromethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Bromodichloromethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Bromoform	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Carbon tetrachloride	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Chlorobenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991



**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

<b>Client Sample ID:</b> GP5-5	<b>Lab Sample ID:</b> 0306029-012A
<b>Sample Location:</b> Alameda	<b>Date Prepared:</b> 6/10/2003
<b>Sample Matrix:</b> SOIL	
<b>Date/Time Sampled</b> 6/5/2003 1:25:00 PM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Chloroform	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Chloromethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
cis-1,2-Dichloroethene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Dibromochloromethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Dibromomethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Dichlorodifluoromethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Ethyl tert-butyl ether (ETBE)	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Ethylbenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Freon-113	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Hexachlorobutadiene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Isopropyl ether (IPE)	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Isopropylbenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Methyl tert-butyl ether (MTBE)	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Methylene chloride	SW8260B	6/10/2003	50	1	50	ND	µg/Kg
Naphthalene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
n-Butylbenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
n-Propylbenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
sec-Butylbenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Styrene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
t-Butyl alcohol (t-Butanol)	SW8260B	6/10/2003	50	1	50	ND	µg/Kg
tert-Amyl methyl ether (TAME)	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
tert-Butylbenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Tetrachloroethene	SW8260B	6/10/2003	10	1	10	21	µg/Kg
Toluene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
trans-1,2-Dichloroethene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
trans-1,3-Dichloropropene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Trichloroethene	SW8260B	6/10/2003	10	1	10	14	µg/Kg
Trichlorofluoromethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Vinyl chloride	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Xylenes, Total	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Surr: 4-Bromofluorobenzene	SW8260B	6/10/2003	0	1	65-135	83.6	%REC
Surr: Dibromofluoromethane	SW8260B	6/10/2003	0	1	65-135	153	%REC

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

Client Sample ID: GP5-5	Lab Sample ID: 0306029-012A
Sample Location: Alameda	Date Prepared: 6/10/2003
Sample Matrix: SOIL	
Date/Time Sampled 6/5/2003 1:25:00 PM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Surr: Toluene-d8	SW8260B	6/10/2003	0	1	65-135	106	%REC

Note: Surrogate outside the control limit due to possible matrix interference.

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
 Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
 Date Reported: 6/13/2003

Client Sample ID: GP5-10	Lab Sample ID: 0306029-013A
Sample Location: Alameda	Date Prepared: 6/10/2003
Sample Matrix: SOIL	
Date/Time Sampled 6/5/2003 1:30:00 PM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
1,1,1,2-Tetrachloroethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,1,1-Trichloroethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,1,2,2-Tetrachloroethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,1,2-Trichloroethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,1-Dichloroethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,1-Dichloroethene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,1-Dichloropropene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2,3-Trichlorobenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2,3-Trichloropropane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2,4-Trichlorobenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2,4-Trimethylbenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2-Dibromo-3-chloropropane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2-Dibromoethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2-Dichlorobenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2-Dichloroethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2-Dichloropropane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,3,5-Trimethylbenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,3-Dichlorobenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,3-Dichloropropane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,4-Dichlorobenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
2,2-Dichloropropane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
2-Chloroethyl vinyl ether	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
2-Chlorotoluene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
4-Chlorotoluene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
4-Isopropyltoluene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Benzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Bromobenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Bromochloromethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Bromodichloromethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Bromoform	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Carbon tetrachloride	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Chlorobenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

Client Sample ID: GP5-10	Lab Sample ID: 0306029-013A
Sample Location: Alameda	Date Prepared: 6/10/2003
Sample Matrix: SOIL	
Date/Time Sampled 6/5/2003 1:30:00 PM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Chloroform	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Chloromethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
cis-1,2-Dichloroethene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Dibromochloromethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Dibromomethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Dichlorodifluoromethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Ethyl tert-butyl ether (ETBE)	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Ethylbenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Freon-113	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Hexachlorobutadiene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Isopropyl ether (IPE)	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Isopropylbenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Methyl tert-butyl ether (MTBE)	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Methylene chloride	SW8260B	6/10/2003	50	1	50	ND	µg/Kg
Naphthalene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
n-Butylbenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
n-Propylbenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
sec-Butylbenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Styrene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
t-Butyl alcohol (t-Butanol)	SW8260B	6/10/2003	50	1	50	ND	µg/Kg
tert-Amyl methyl ether (TAME)	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
tert-Butylbenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Tetrachloroethene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Toluene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
trans-1,2-Dichloroethene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
trans-1,3-Dichloropropene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Trichloroethene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Trichlorofluoromethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Vinyl chloride	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Xylenes, Total	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Surr: 4-Bromofluorobenzene	SW8260B	6/10/2003	0	1	65-135	77.2	%REC
Surr: Dibromofluoromethane	SW8260B	6/10/2003	0	1	65-135	131	%REC

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**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

Client Sample ID: GP5-10	Lab Sample ID: 0306029-013A
Sample Location: Alameda	Date Prepared: 6/10/2003
Sample Matrix: SOIL	
Date/Time Sampled 6/5/2003 1:30:00 PM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Surr: Toluene-d8	SW8260B	6/10/2003	0	1	65-135	94.6	%REC

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

<b>Client Sample ID:</b> GP6-7.5	<b>Lab Sample ID:</b> 0306029-014A
<b>Sample Location:</b> Alameda	<b>Date Prepared:</b> 6/10/2003
<b>Sample Matrix:</b> SOIL	
<b>Date/Time Sampled:</b> 6/5/2003 1:55:00 PM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
1,1,1,2-Tetrachloroethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,1,1-Trichloroethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,1,2,2-Tetrachloroethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,1,2-Trichloroethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,1-Dichloroethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,1-Dichloroethene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,1-Dichloropropene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2,3-Trichlorobenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2,3-Trichloropropane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2,4-Trichlorobenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2,4-Trimethylbenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2-Dibromo-3-chloropropane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2-Dibromoethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2-Dichlorobenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2-Dichloroethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2-Dichloropropane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,3,5-Trimethylbenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,3-Dichlorobenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,3-Dichloropropane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,4-Dichlorobenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
2,2-Dichloropropane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
2-Chloroethyl vinyl ether	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
2-Chlorotoluene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
4-Chlorotoluene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
4-Isopropyltoluene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Benzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Bromobenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Bromochloromethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Bromodichloromethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Bromoform	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Carbon tetrachloride	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Chlorobenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

<b>Client Sample ID:</b> GP6-7.5	<b>Lab Sample ID:</b> 0306029-014A
<b>Sample Location:</b> Alameda	<b>Date Prepared:</b> 6/10/2003
<b>Sample Matrix:</b> SOIL	
<b>Date/Time Sampled</b> 6/5/2003 1:55:00 PM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Chloroform	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Chloromethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
cis-1,2-Dichloroethene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Dibromochloromethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Dibromomethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Dichlorodifluoromethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Ethyl tert-butyl ether (ETBE)	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Ethylbenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Freon-113	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Hexachlorobutadiene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Isopropyl ether (IPE)	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Isopropylbenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Methyl tert-butyl ether (MTBE)	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Methylene chloride	SW8260B	6/10/2003	50	1	50	ND	µg/Kg
Naphthalene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
n-Butylbenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
n-Propylbenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
sec-Butylbenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Styrene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
t-Butyl alcohol (t-Butanol)	SW8260B	6/10/2003	50	1	50	ND	µg/Kg
tert-Amyl methyl ether (TAME)	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
tert-Butylbenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Tetrachloroethene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Toluene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
trans-1,2-Dichloroethene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
trans-1,3-Dichloropropene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Trichloroethene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Trichlorofluoromethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Vinyl chloride	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Xylenes, Total	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Surr: 4-Bromofluorobenzene	SW8260B	6/10/2003	0	1	65-135	84.5	%REC
Surr: Dibromofluoromethane	SW8260B	6/10/2003	0	1	65-135	150	%REC

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**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

Client Sample ID:	GP6-7.5	Lab Sample ID:	0306029-014A
Sample Location:	Alameda	Date Prepared:	6/10/2003
Sample Matrix:	SOIL		
Date/Time Sampled	6/5/2003 1:55:00 PM		

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Surr: Toluene-d8	SW8260B	6/10/2003	0	1	65-135	103	%REC

Note: Surrogate outside the control limit due to possible matrix interference.



**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

Client Sample ID: GP6-11.5	Lab Sample ID: 0306029-015A
Sample Location: Alameda	Date Prepared: 6/10/2003
Sample Matrix: SOIL	
Date/Time Sampled 6/5/2003 2:00:00 PM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
1,1,1,2-Tetrachloroethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,1,1-Trichloroethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,1,2,2-Tetrachloroethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,1,2-Trichloroethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,1-Dichloroethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,1-Dichloroethene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,1-Dichloropropene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2,3-Trichlorobenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2,3-Trichloropropane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2,4-Trichlorobenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2,4-Trimethylbenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2-Dibromo-3-chloropropane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2-Dibromoethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2-Dichlorobenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2-Dichloroethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,2-Dichloropropane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,3,5-Trimethylbenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,3-Dichlorobenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,3-Dichloropropane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
1,4-Dichlorobenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
2,2-Dichloropropane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
2-Chloroethyl vinyl ether	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
2-Chlorotoluene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
4-Chlorotoluene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
4-Isopropyltoluene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Benzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Bromobenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Bromochloromethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Bromodichloromethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Bromoform	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Carbon tetrachloride	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Chlorobenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

<b>Client Sample ID:</b> GP6-11.5	<b>Lab Sample ID:</b> 0306029-015A
<b>Sample Location:</b> Alameda	<b>Date Prepared:</b> 6/10/2003
<b>Sample Matrix:</b> SOIL	
<b>Date/Time Sampled:</b> 6/5/2003 2:00:00 PM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Chloroform	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Chloromethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
cis-1,2-Dichloroethene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Dibromochloromethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Dibromomethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Dichlorodifluoromethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Ethyl tert-butyl ether (ETBE)	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Ethylbenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Freon-113	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Hexachlorobutadiene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Isopropyl ether (IPE)	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Isopropylbenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Methyl tert-butyl ether (MTBE)	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Methylene chloride	SW8260B	6/10/2003	50	1	50	ND	µg/Kg
Naphthalene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
n-Butylbenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
n-Propylbenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
sec-Butylbenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Styrene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
t-Butyl alcohol (t-Butanol)	SW8260B	6/10/2003	50	1	50	ND	µg/Kg
tert-Amyl methyl ether (TAME)	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
tert-Butylbenzene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Tetrachloroethene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Toluene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
trans-1,2-Dichloroethene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
trans-1,3-Dichloropropene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Trichloroethene	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Trichlorofluoromethane	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Vinyl chloride	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Xylenes, Total	SW8260B	6/10/2003	10	1	10	ND	µg/Kg
Surr: 4-Bromofluorobenzene	SW8260B	6/10/2003	0	1	65-135	89.8	%REC
Surr: Dibromofluoromethane	SW8260B	6/10/2003	0	1	65-135	149	%REC

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

Client Sample ID: GP6-11.5	Lab Sample ID: 0306029-015A
Sample Location: Alameda	Date Prepared: 6/10/2003
Sample Matrix: SOIL	
Date/Time Sampled 6/5/2003 2:00:00 PM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Surr: Toluene-d8	SW8260B	6/10/2003	0	1	65-135	101	%REC

Note: Surrogate outside the control limit due to possible matrix interference.

**Certified Analytical Report of**  
**Nonhalogenated Volatiles**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

<b>Client Sample ID:</b> GP7-7.5	<b>Lab Sample ID:</b> 0306029-016A
<b>Sample Location:</b> Alameda	<b>Date Prepared:</b> 6/12/2003
<b>Sample Matrix:</b> SOIL	
<b>Date/Time Sampled:</b> 6/5/2003 9:00:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Benzene	SW8021B	6/12/2003	10	100	1000	ND	µg/Kg
Ethylbenzene	SW8021B	6/12/2003	10	100	1000	4400	µg/Kg
Methyl tert-butyl ether	SW8021B	6/12/2003	10	100	1000	ND	µg/Kg
Toluene	SW8021B	6/12/2003	10	100	1000	ND	µg/Kg
Xylenes, Total	SW8021B	6/12/2003	10	100	1000	3700	µg/Kg
Surr: Trifluorotoluene	SW8021B	6/12/2003	0	100	65-135	102	%REC

**Certified Analytical Report of**  
**Petroleum Hydrocarbons**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

Client Sample ID: GP7-7.5	Lab Sample ID: 0306029-016A
Sample Location: Alameda	Date Prepared: 6/9/2003-6/12/2003
Sample Matrix: SOIL	
Date/Time Sampled 6/5/2003 9:00:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
TPH (Diesel)	SW8015B	6/10/2003	63	1	63.0	ND	mg/Kg
TPH (Gasoline)	SW8015B	6/12/2003	0.1	100	10.0	214	mg/Kg
Surr: Pentacosane	SW8015B	6/10/2003	0	1	50-150	128	%REC
Surr: Trifluorotoluene	SW8015B	6/12/2003	0	100	65-135	89.8	%REC

Note: Reporting limit increased due to matrix interference.

**Certified Analytical Report of**  
**Nonhalogenated Volatiles**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

Client Sample ID: GP7-11.5	Lab Sample ID: 0306029-017A
Sample Location: Alameda	Date Prepared: 6/12/2003
Sample Matrix: SOIL	
Date/Time Sampled 6/5/2003 9:05:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Benzene	SW8021B	6/12/2003	10	1	10	ND	µg/Kg
Ethylbenzene	SW8021B	6/12/2003	10	1	10	ND	µg/Kg
Methyl tert-butyl ether	SW8021B	6/12/2003	10	1	10	ND	µg/Kg
Toluene	SW8021B	6/12/2003	10	1	10	ND	µg/Kg
Xylenes, Total	SW8021B	6/12/2003	10	1	10	ND	µg/Kg
Surr: Trifluorotoluene	SW8021B	6/12/2003	0	1	65-135	73.4	%REC

**Certified Analytical Report of**  
**Petroleum Hydrocarbons**

Report prepared for: Dennis Laduzinsky  
 Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
 Date Reported: 6/13/2003

Client Sample ID: GP7-11.5	Lab Sample ID: 0306029-017A
Sample Location: Alameda	Date Prepared: 6/9/2003-6/12/2003
Sample Matrix: SOIL	
Date/Time Sampled 6/5/2003 9:05:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
TPH (Diesel)	SW8015B	6/10/2003	2	1	2.00	ND	mg/Kg
TPH (Gasoline)	SW8015B	6/12/2003	0.1	1	0.100	ND	mg/Kg
Surr: Pentacosane	SW8015B	6/10/2003	0	1	50-150	104	%REC
Surr: Trifluorotoluene	SW8015B	6/12/2003	0	1	65-135	65.6	%REC

**Certified Analytical Report of**  
**Nonhalogenated Volatiles**

Report prepared for: Dennis Laduzinsky  
 Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
 Date Reported: 6/13/2003

Client Sample ID: GP8-7.5	Lab Sample ID: 0306029-018A
Sample Location: Alameda	Date Prepared: 6/12/2003
Sample Matrix: SOIL	
Date/Time Sampled 6/5/2003 9:40:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Benzene	SW8021B	6/12/2003	10	1	10	ND	µg/Kg
Ethylbenzene	SW8021B	6/12/2003	10	1	10	ND	µg/Kg
Methyl tert-butyl ether	SW8021B	6/12/2003	10	1	10	ND	µg/Kg
Toluene	SW8021B	6/12/2003	10	1	10	ND	µg/Kg
Xylenes, Total	SW8021B	6/12/2003	10	1	10	ND	µg/Kg
Surr: Trifluorotoluene	SW8021B	6/12/2003	0	1	65-135	94.8	%REC



**Certified Analytical Report of**  
**Petroleum Hydrocarbons**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

Client Sample ID: GP8-7.5	Lab Sample ID: 0306029-018A
Sample Location: Alameda	Date Prepared: 6/9/2003-6/12/2003
Sample Matrix: SOIL	
Date/Time Sampled 6/5/2003 9:40:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
TPH (Diesel)	SW8015B	6/10/2003	2	1	2.00	ND	mg/Kg
TPH (Gasoline)	SW8015B	6/12/2003	0.1	1	0.100	ND	mg/Kg
Surr: Pentacosane	SW8015B	6/10/2003	0	1	50-150	118	%REC
Surr: Trifluorotoluene	SW8015B	6/12/2003	0	1	65-135	83.6	%REC

**Certified Analytical Report of**  
**Nonhalogenated Volatiles**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

<b>Client Sample ID:</b> GP9-7.5	<b>Lab Sample ID:</b> 0306029-020A
<b>Sample Location:</b> Alameda	<b>Date Prepared:</b> 6/12/2003
<b>Sample Matrix:</b> SOIL	
<b>Date/Time Sampled</b> 6/5/2003 10:00:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Benzene	SW8021B	6/12/2003	10	100	1000	ND	µg/Kg
Ethylbenzene	SW8021B	6/12/2003	10	100	1000	7400	µg/Kg
Methyl tert-butyl ether	SW8021B	6/12/2003	10	100	1000	ND	µg/Kg
Toluene	SW8021B	6/12/2003	10	100	1000	ND	µg/Kg
Xylenes, Total	SW8021B	6/12/2003	10	100	1000	2500	µg/Kg
Surr: Trifluorotoluene	SW8021B	6/12/2003	0	100	65-135	205	%REC

Note: TFT Surr. Is outside the control limit due to possible matrix interference.

**Certified Analytical Report of**  
**Petroleum Hydrocarbons**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

Client Sample ID: GP9-7.5	Lab Sample ID: 0306029-020A
Sample Location: Alameda	Date Prepared: 6/9/2003-6/13/2003
Sample Matrix: SOIL	
Date/Time Sampled 6/5/2003 10:00:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
TPH (Diesel)	SW8015B	6/10/2003	5.4	1	5.40	ND	mg/Kg
TPH (Gasoline)	SW8015B	6/13/2003	0.1	400	40.0	1120	mg/Kg
Surr: Pentacosane	SW8015B	6/10/2003	0	1	50-150	113	%REC
Surr: Trifluorotoluene	SW8015B	6/13/2003	0	400	65-135	99.6	%REC

Note: Reporting limit increased due to matrix interference.

**Certified Analytical Report of**  
**Nonhalogenated Volatiles**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

Client Sample ID: GP9-11.5	Lab Sample ID: 0306029-021A
Sample Location: Alameda	Date Prepared: 6/12/2003
Sample Matrix: SOIL	
Date/Time Sampled 6/5/2003 10:05:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Benzene	SW8021B	6/12/2003	10	100	1000	ND	µg/Kg
Ethylbenzene	SW8021B	6/12/2003	10	100	1000	2500	µg/Kg
Methyl tert-butyl ether	SW8021B	6/12/2003	10	100	1000	ND	µg/Kg
Toluene	SW8021B	6/12/2003	10	100	1000	1300	µg/Kg
Xylenes, Total	SW8021B	6/12/2003	10	100	1000	1200	µg/Kg
Surr: Trifluorotoluene	SW8021B	6/12/2003	0	100	65-135	170	%REC

Note: TFT Surr. Is outside the control limit due to possible matrix interference.

**Certified Analytical Report of**  
**Petroleum Hydrocarbons**

Report prepared for: Dennis Laduzinsky  
 Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
 Date Reported: 6/13/2003

Client Sample ID: GP9-11.5	Lab Sample ID: 0306029-021A
Sample Location: Alameda	Date Prepared: 6/9/2003-6/12/2003
Sample Matrix: SOIL	
Date/Time Sampled 6/5/2003 10:05:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
TPH (Diesel)	SW8015B	6/10/2003	2	1	2.00	ND	mg/Kg
TPH (Gasoline)	SW8015B	6/12/2003	0.1	100	10.0	263	mg/Kg
Surr: Pentacosane	SW8015B	6/10/2003	0	1	50-150	106	%REC
Surr: Trifluorotoluene	SW8015B	6/12/2003	0	100	65-135	91.7	%REC

**Certified Analytical Report of**  
**Nonhalogenated Volatiles**

Report prepared for: Dennis Laduzinsky  
 Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
 Date Reported: 6/13/2003

<b>Client Sample ID:</b> GP10-7.5	<b>Lab Sample ID:</b> 0306029-022A
<b>Sample Location:</b> Alameda	<b>Date Prepared:</b> 6/12/2003
<b>Sample Matrix:</b> SOIL	
<b>Date/Time Sampled</b> 6/5/2003 10:20:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Benzene	SW8021B	6/12/2003	10	100	1000	ND	µg/Kg
Ethylbenzene	SW8021B	6/12/2003	10	100	1000	2600	µg/Kg
Methyl tert-butyl ether	SW8021B	6/12/2003	10	100	1000	ND	µg/Kg
Toluene	SW8021B	6/12/2003	10	100	1000	1000	µg/Kg
Xylenes, Total	SW8021B	6/12/2003	10	100	1000	1400	µg/Kg
Surr: Trifluorotoluene	SW8021B	6/12/2003	0	100	65-135	137	%REC

Note: TFT Surr. Is outside the control limit due to possible matrix interference.

Certified Analytical Report of  
Petroleum Hydrocarbons

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

Client Sample ID: GP10-7.5  
Sample Location: Alameda  
Sample Matrix: SOIL  
Date/Time Sampled 6/5/2003 10:20:00 AM

Lab Sample ID: 0306029-022A  
Date Prepared: 6/9/2003-6/12/2003

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
TPH (Diesel)	SW8015B	6/10/2003	2.8	1	2.80	ND	mg/Kg
TPH (Gasoline)	SW8015B	6/12/2003	0.1	100	10.0	170	mg/Kg
Surr: Pentacosane	SW8015B	6/10/2003	0	1	50-150	115	%REC
Surr: Trifluorotoluene	SW8015B	6/12/2003	0	100	65-135	91.6	%REC

Note: Reporting limit increased due to matrix interference.

**Certified Analytical Report of**  
**Nonhalogenated Volatiles**

Report prepared for: Dennis Laduzinsky  
 Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
 Date Reported: 6/13/2003

Client Sample ID: GP10-11.5	Lab Sample ID: 0306029-023A
Sample Location: Alameda	Date Prepared: 6/12/2003
Sample Matrix: SOIL	
Date/Time Sampled 6/5/2003 10:30:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Benzene	SW8021B	6/12/2003	10	100	1000	ND	µg/Kg
Ethylbenzene	SW8021B	6/12/2003	10	100	1000	ND	µg/Kg
Methyl tert-butyl ether	SW8021B	6/12/2003	10	100	1000	ND	µg/Kg
Toluene	SW8021B	6/12/2003	10	100	1000	ND	µg/Kg
Xylenes, Total	SW8021B	6/12/2003	10	100	1000	ND	µg/Kg
Surr: Trifluorotoluene	SW8021B	6/12/2003	0	100	65-135	110	%REC



**Certified Analytical Report of**  
**Petroleum Hydrocarbons**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/6/2003  
Date Reported: 6/13/2003

Client Sample ID: GP10-11.5	Lab Sample ID: 0306029-023A
Sample Location: Alameda	Date Prepared: 6/9/2003-6/12/2003
Sample Matrix: SOIL	
Date/Time Sampled 6/5/2003 10:30:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
TPH (Diesel)	SW8015B	6/11/2003	2	1	2.00	ND	mg/Kg
TPH (Gasoline)	SW8015B	6/12/2003	0.1	100	10.0	32.0	mg/Kg
Surr: Pentacosane	SW8015B	6/11/2003	0	1	50-150	113	%REC
Surr: Trifluorotoluene	SW8015B	6/12/2003	0	100	65-135	93.2	%REC

**Definitions, legends and Notes**

Note	Description
ug/kg	Microgram per kilogram (ppb, part per billion).
ug/L	Microgram per liter (ppb, part per billion).
mg/kg	Milligram per kilogram (ppm, part per million).
mg/L	Milligram per liter (ppm, part per million).
LCS/LCSD	Laboratory control sample/laboratory control sample duplicate.
MDL	Method detection limit.
MRL	Modified reporting limit. When sample is subject to dilution, reporting limit times dilution factor yields MRL.
MS/MSD	Matrix spike/matrix spike duplicate.
N/A	Not applicable.
ND	Not detected at or above detection limit.
NR	Not reported.
QC	Quality Control.
RL	Reporting limit.
% RPD	Percent relative difference.
a	pH was measured immediately upon the receipt of the sample, but it was still done outside the holding time.
sub	Analyzed by subcontracting laboratory, Lab Certificate #

**Torrent Laboratory, Inc.**

**Date:** 13-Jun-03

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**CLIENT:** Northgate Environmental Management, Inc.

**Project:**

**CASE NARRATIVE**

**Lab Order:** 0306029

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Note: Surrogate Dibromofluoromethane has Low recovery (15%) for MB, LCS & LCSD due to age of Surrogate mix. We rechanged the Surrogate mix if it would not solve the problem, we will recurve the instrument.

None of the compounds detected above reporting limit for this batch.

Torrent Laboratory, Inc.

Date: 13-Jun-03

CLIENT: Northgate Environmental Management, Inc.  
 Work Order: 0306029  
 Project:

**ANALYTICAL QC SUMMARY REPORT**

TestCode: 8021B\_S

Sample ID	BLANK-1D	SampType:	MBLK	TestCode:	8021B_S	Units:	µg/Kg	Prep Date:	6/12/2003	Run ID:	VOCGC1_030612A
Client ID:	ZZZZZ	Batch ID:	R1575	TestNo:	SW8021B	Analysis Date:	6/12/2003	SeqNo:	26893		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	10									
Ethylbenzene	ND	10									
Methyl tert-butyl ether	ND	10									
Toluene	ND	10									
Xylenes, Total	ND	10									
Surr: Trifluorotoluene	207.4	0	200	0	104	65	135	0	0		

Sample ID	LCS-1 MBTEX 50 P	SampType:	LCS	TestCode:	8021B_S	Units:	µg/Kg	Prep Date:	6/12/2003	Run ID:	VOCGC1_030612A
Client ID:	ZZZZZ	Batch ID:	R1575	TestNo:	SW8021B	Analysis Date:	6/12/2003	SeqNo:	26894		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	51.04	10	50	0	102	70	130	0	0		
Ethylbenzene	54.34	10	50	0	109	70	130	0	0		
Methyl tert-butyl ether	49.7	10	50	0	99.4	70	130	0	0		
Toluene	52.44	10	50	0	105	70	130	0	0		
Xylenes, Total	154.9	10	150	0	103	70	130	0	0		
Surr: Trifluorotoluene	218.3	0	200	0	109	65	135	0	0		

Sample ID	LCSD-1 MBTEX 50	SampType:	LCSD	TestCode:	8021B_S	Units:	µg/Kg	Prep Date:	6/12/2003	Run ID:	VOCGC1_030612A
Client ID:	ZZZZZ	Batch ID:	R1575	TestNo:	SW8021B	Analysis Date:	6/12/2003	SeqNo:	26895		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	49.64	10	50	0	99.3	70	130	51.04	2.79	30	
Ethylbenzene	52.58	10	50	0	105	70	130	54.34	3.29	30	
Methyl tert-butyl ether	48.18	10	50	0	96.4	70	130	49.7	3.11	30	
Toluene	50.69	10	50	0	101	70	130	52.44	3.40	30	
Xylenes, Total	156.1	10	150	0	104	70	130	154.9	0.752	30	
Surr: Trifluorotoluene	212.8	0	200	0	106	65	135	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits      B - Analyte detected in the associated Method Blank  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits

CLIENT: Northgate Environmental Management, Inc.  
 Work Order: 0306029  
 Project:

**ANALYTICAL QC SUMMARY REPORT**

TestCode: 8260\_S

Sample ID: BLANK-1D	SampType: MBLK	TestCode: 8260_S	Units: µg/Kg	Prep Date: 6/10/2003	Run ID: VOGGMS1_030610A
Client ID: ZZZZZ	Batch ID: R1573	TestNo: SW8260B		Analysis Date: 6/10/2003	SeqNo: 26869

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	10									
1,1,1-Trichloroethane	ND	10									
1,1,2,2-Tetrachloroethane	ND	10									
1,1,2-Trichloroethane	ND	10									
1,1-Dichloroethane	ND	10									
1,1-Dichloroethene	ND	10									
1,1-Dichloropropene	ND	10									
1,2,3-Trichlorobenzene	ND	10									
1,2,3-Trichloropropane	ND	10									
1,2,4-Trichlorobenzene	ND	10									
1,2,4-Trimethylbenzene	ND	10									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	10									
1,2-Dichlorobenzene	ND	10									
1,2-Dichloroethane	ND	10									
1,2-Dichloropropane	ND	10									
1,3,5-Trimethylbenzene	ND	10									
1,3-Dichlorobenzene	ND	10									
1,3-Dichloropropane	ND	10									
1,4-Dichlorobenzene	ND	10									
2,2-Dichloropropane	ND	10									
2-Chloroethyl vinyl ether	ND	10									
2-Chlorotoluene	ND	10									
4-Chlorotoluene	ND	10									
4-Isopropyltoluene	ND	10									
Benzene	ND	10									
Bromobenzene	ND	10									
Bromochloromethane	ND	10									
Bromodichloromethane	ND	10									
Bromoform	ND	10									
Carbon tetrachloride	ND	10									

Qualifiers: ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Northgate Environmental Management, Inc.  
 Work Order: 0306029  
 Project:

**ANALYTICAL QC SUMMARY REPORT**

TestCode: 8260\_S

Sample ID: BLANK-1D	SampType: MBLK	TestCode: 8260_S	Units: µg/Kg	Prep Date: 6/10/2003	Run ID: VOCCMS1_030610A						
Client ID: ZZZZZ	Batch ID: R1573	TestNo: SW8260B		Analysis Date: 6/10/2003	SeqNo: 26869						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	ND	10									
Chloroform	ND	10									
Chloromethane	ND	10									
cis-1,2-Dichloroethene	ND	10									
Dibromochloromethane	ND	10									
Dibromomethane	ND	10									
Dichlorodifluoromethane	ND	10									
Ethylbenzene	ND	10									
Freon-113	ND	10									
Hexachlorobutadiene	ND	10									
Isopropylbenzene	ND	10									
Methylene chloride	ND	50									
Naphthalene	ND	10									
n-Butylbenzene	ND	10									
n-Propylbenzene	ND	10									
sec-Butylbenzene	ND	10									
Styrene	ND	10									
tert-Butylbenzene	ND	10									
Tetrachloroethene	ND	10									
Toluene	ND	10									
trans-1,2-Dichloroethene	ND	10									
trans-1,3-Dichloropropene	ND	10									
Trichloroethene	ND	10									
Trichlorofluoromethane	ND	10									
Vinyl chloride	ND	10									
Xylenes, Total	ND	10									
Surr: 4-Bromofluorobenzene	43.18	0	50	0	86.4	65	135	0	0		
Surr: Dibromofluoromethane	66.29	0	50	0	133	65	135	0	0		
Surr: Toluene-d8	51.25	0	50	0	103	65	135	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit  
 I - Analyte detected below quantization limits

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Northgate Environmental Management, Inc.

Work Order: 0306029

Project:

**ANALYTICAL QC SUMMARY REPORT**

TestCode: 8260\_S

Sample ID	LCS-1 50 PPB	SampType	LCS	TestCode	8260_S	Units	µg/Kg	Prep Date	6/10/2003	Run ID	VOCGCMS1_030610A
Client ID	ZZZZZ	Batch ID	R1573	TestNo	SW8260B			Analysis Date	6/10/2003	SeqNo	26870

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	46.08	10	50	0	92.2	70	130	0	0		
Benzene	46.47	10	50	0	92.9	70	130	0	0		
Chlorobenzene	51.16	10	50	0	102	70	130	0	0		
Toluene	51.02	10	50	0	102	70	130	0	0		
Trichloroethene	51.48	10	50	0	103	70	130	0	0		
Surr: 4-Bromofluorobenzene	43.93	0	50	0	87.9	65	135	0	0		
Surr: Dibromofluoromethane	67.21	0	50	0	134	65	135	0	0		
Surr: Toluene-d8	50.48	0	50	0	101	65	135	0	0		

Sample ID	LCS-D-1 50 PPB	SampType	LCS-D	TestCode	8260_S	Units	µg/Kg	Prep Date	6/10/2003	Run ID	VOCGCMS1_030610A
Client ID	ZZZZZ	Batch ID	R1573	TestNo	SW8260B			Analysis Date	6/10/2003	SeqNo	26871

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	47.57	10	50	0	95.1	70	130	46.08	3.18	30	
Benzene	44.45	10	50	0	88.9	70	130	46.47	4.44	30	
Chlorobenzene	52.65	10	50	0	105	70	130	51.16	2.87	30	
Toluene	54.12	10	50	0	108	70	130	51.02	5.90	30	
Trichloroethene	49.69	10	50	0	99.4	70	130	51.48	3.54	30	
Surr: 4-Bromofluorobenzene	41.64	0	50	0	83.3	65	135	0	0	0	
Surr: Dibromofluoromethane	61.37	0	50	0	123	65	135	0	0	0	
Surr: Toluene-d8	48.51	0	50	0	97	65	135	0	0	0	

Sample ID	0306029-011AMS	SampType	MS	TestCode	8260_S	Units	µg/Kg	Prep Date	6/10/2003	Run ID	VOCGCMS1_030610A
Client ID	6P4-7	Batch ID	R1573	TestNo	SW8260B			Analysis Date	6/10/2003	SeqNo	26862

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	44.39	10	50	0	88.8	70	130	0	0		
Benzene	43.93	10	50	0	87.9	70	130	0	0		
Chlorobenzene	50.02	10	50	0	100	70	130	0	0		
Toluene	51.45	10	50	0	103	70	130	0	0		
Trichloroethene	49.83	10	50	0	99.7	70	130	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Northgate Environmental Management, Inc.  
 Work Order: 0306029  
 Project:

**ANALYTICAL QC SUMMARY REPORT**

TestCode: 8260\_S

Sample ID: 0306029-011AMS	SampType: MS	TestCode: 8260_S	Units: µg/Kg	Prep Date: 6/10/2003	Run ID: VOGCMS1_030610A						
Client ID: 6P4-7	Batch ID: R1573	TestNo: SW8260B		Analysis Date: 6/10/2003	SeqNo: 26862						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	44.27	0	50	0	88.5	65	135	0	0		
Surr: Dibromofluoromethane	58.41	0	50	0	137	65	135	0	0		S
Surr: Toluene-d8	50.45	0	50	0	101	65	135	0	0		

Sample ID: 0306029-011AMSD	SampType: MSD	TestCode: 8260_S	Units: µg/Kg	Prep Date: 6/10/2003	Run ID: VOGCMS1_030610A						
Client ID: 6P4-7	Batch ID: R1573	TestNo: SW8260B		Analysis Date: 6/10/2003	SeqNo: 26864						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	44.73	10	50	0	89.5	70	130	44.39	0.763		30
Benzene	43.38	10	50	0	86.8	70	130	43.93	1.26		30
Chlorobenzene	52.48	10	50	0	105	70	130	50.02	4.80		30
Toluene	52.74	10	50	0	105	70	130	51.45	2.48		30
Trichloroethene	50.96	10	50	0	102	70	130	49.83	2.24		30
Surr: 4-Bromofluorobenzene	42.37	0	50	0	84.7	65	135	0	0		0
Surr: Dibromofluoromethane	66.4	0	50	0	133	65	135	0	0		0
Surr: Toluene-d8	49.34	0	50	0	98.7	65	135	0	0		0

Qualifiers: ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank



CLIENT: Northgate Environmental Management, Inc.  
 Work Order: 0306029  
 Project:

**ANALYTICAL QC SUMMARY REPORT**

TestCode: 8260\_W

Sample ID	MBLK	TestCode	Units	Prep Date	Run ID						
BLANK-1	MBLK	8260_W	µg/L	6/13/2003	VOCGMS1_030613A						
Client ID: ZZZZZ	Batch ID: R1578	TestNo: 5W8260B		Analysis Date: 6/13/2003	SeqNo: 26912						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	1.0									
1,1,1-Trichloroethane	ND	1.0									
1,1,2,2-Tetrachloroethane	ND	1.0									
1,1,2-Trichloroethane	ND	1.0									
1,1-Dichloroethane	ND	1.0									
1,1-Dichloroethene	ND	1.0									
1,1-Dichloropropene	ND	1.0									
1,2,3-Trichlorobenzene	ND	6.0									
1,2,3-Trichloropropane	ND	1.0									
1,2,4-Trichlorobenzene	ND	6.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,2-Dibromo-3-chloropropane	ND	6.0									
1,2-Dibromoethane	ND	1.0									
1,2-Dichlorobenzene	ND	1.0									
1,2-Dichloroethane	ND	1.0									
1,2-Dichloropropane	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,3-Dichlorobenzene	ND	1.0									
1,3-Dichloropropane	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
2,2-Dichloropropane	ND	1.0									
2-Chloroethyl vinyl ether	ND	1.0									
2-Chlorotoluene	ND	1.0									
4-Chlorotoluene	ND	1.0									
4-Isopropyltoluene	ND	1.0									
Benzene	ND	1.0									
Bromobenzene	ND	1.0									
Bromochloromethane	ND	1.0									
Bromodichloromethane	ND	1.0									
Bromoform	ND	2.0									
Bromomethane	ND	1.0									

Qualifiers: ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Northgate Environmental Management, Inc.  
 Work Order: 0306029  
 Project:

**ANALYTICAL QC SUMMARY REPORT**

TestCode: 8260\_W

Sample ID: BLANK-1	SampType: MBLK	TestCode: 8260_W	Units: µg/L	Prep Date: 6/13/2003	Run ID: VOCCMS1_030613A						
Client ID: ZZZZ	Batch ID: R1578	TestNo: SW8260B		Analysis Date: 6/13/2003	SeqNo: 26912						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Carbon tetrachloride	ND	1.0									
Chlorobenzene	ND	1.0									
Chloroform	ND	1.0									
Chloromethane	ND	1.0									
cis-1,2-Dichloroethene	ND	1.0									
Dibromochloromethane	ND	1.0									
Dibromomethane	ND	1.0									
Dichlorodifluoromethane	ND	1.0									
Ethylbenzene	ND	1.0									
Freon-113	ND	1.0									
Hexachlorobutadiene	ND	6.0									
Isopropylbenzene	ND	1.0									
Methylene chloride	ND	1.0									
Naphthalene	ND	6.0									
n-Butylbenzene	ND	1.0									
n-Propylbenzene	ND	1.0									
sec-Butylbenzene	ND	1.0									
Styrene	ND	1.0									
tert-Butylbenzene	ND	1.0									
Tetrachloroethene	ND	1.0									
Toluene	ND	1.0									
trans-1,2-Dichloroethene	ND	1.0									
trans-1,3-Dichloropropene	ND	1.0									
Trichloroethene	ND	2.0									
Trichlorofluoromethane	ND	1.0									
Vinyl chloride	ND	1.0									
Xylenes, Total	ND	1.0									
Surr: 4-Bromofluorobenzene	15.77	0	17.86	0	88.3	75	125	0	0		
Surr: Dibromofluoromethane	13.09	0	17.86	0	73.3	75	125	0	0		S
Surr: Toluene-d8	18.97	0	17.86	0	106	75	125	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Northgate Environmental Management, Inc.  
 Work Order: 0306029  
 Project:

**ANALYTICAL QC SUMMARY REPORT**

TestCode: 8260\_W

Sample ID	SampType	TestCode	Units	Prep Date	Run ID						
LCS-1	LCS	8260_W	µg/L	6/11/2003	VOCGCMS1_030611A						
Client ID: ZZZZ	Batch ID: R1572	TestNo: SW8260B		Analysis Date: 6/11/2003	SeqNo: 26858						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	4.405	1.0	5.95	0	74	75	125	0	0		S
Benzene	5.719	1.0	5.95	0	98.1	75	125	0	0		
Chlorobenzene	5.709	1.0	5.95	0	95.9	75	125	0	0		
Toluene	6.315	1.0	5.95	0	106	75	125	0	0		
Trichloroethene	6.446	2.0	5.95	0	108	75	125	0	0		
Surr: 4-Bromofluorobenzene	15.61	0	17.86	0	87.4	75	125	0	0		
Surr: Dibromofluoromethane	9.808	0	17.86	0	54.9	75	125	0	0		S
Surr: Toluene-d8	18.57	0	17.86	0	104	75	125	0	0		

Sample ID	SampType	TestCode	Units	Prep Date	Run ID						
LCS-1	LCS	8260_W	µg/L	6/13/2003	VOCGCMS1_030611A						
Client ID: ZZZZ	Batch ID: R1578	TestNo: SW8260B		Analysis Date: 6/13/2003	SeqNo: 26913						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	16.64	1.0	17.86	0	93.2	75	125	0	0		
Benzene	18.72	1.0	17.86	0	105	75	125	0	0		
Chlorobenzene	14.72	1.0	17.86	0	82.4	75	125	0	0		
Toluene	17.18	1.0	17.86	0	96.2	75	125	0	0		
Trichloroethene	16.73	2.0	17.86	0	93.7	75	125	0	0		
Surr: 4-Bromofluorobenzene	15.4	0	17.86	0	86.2	75	125	0	0		
Surr: Dibromofluoromethane	12.07	0	17.86	0	67.6	75	125	0	0		S
Surr: Toluene-d8	18.56	0	17.86	0	104	75	125	0	0		

Sample ID	SampType	TestCode	Units	Prep Date	Run ID						
LCSD-1	LCSD	8260_W	µg/L	6/11/2003	VOCGCMS1_030611A						
Client ID: ZZZZ	Batch ID: R1572	TestNo: SW8260B		Analysis Date: 6/11/2003	SeqNo: 26859						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	4.44	1.0	5.95	0	74.6	75	125	4.405	0.791	30	S
Benzene	5.733	1.0	5.95	0	96.4	75	125	5.719	0.244	30	
Chlorobenzene	5.845	1.0	5.95	0	98.2	75	125	5.709	2.36	30	
Toluene	6.502	1.0	5.95	0	109	75	125	6.315	2.92	30	
Trichloroethene	6.657	2.0	5.95	0	112	75	125	6.446	3.22	30	

Qualifiers: ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits      B - Analyte detected in the associated Method Blank  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits

CLIENT: Northgate Environmental Management, Inc.  
 Work Order: 0306029  
 Project:

**ANALYTICAL QC SUMMARY REPORT**

TestCode: 8260\_W

Sample ID	LCSD-1	SampType: LCSD	TestCode: 8260_W	Units: µg/L	Prep Date: 6/11/2003	Run ID: VOGCMS1_030611A					
Client ID:	ZZZZZ	Batch ID: R1572	TestNo: SW8260B		Analysis Date: 6/11/2003	SeqNo: 26859					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	15.23	0	17.86	0	85.3	75	125	0	0	0	
Surr: Dibromofluoromethane	8.649	0	17.86	0	48.4	75	125	0	0	0	S
Surr: Toluene-d8	18.3	0	17.86	0	102	75	125	0	0	0	

Sample ID	LCSD-1	SampType: LCSD	TestCode: 8260_W	Units: µg/L	Prep Date: 6/13/2003	Run ID: VOGCMS1_030613A					
Client ID:	ZZZZZ	Batch ID: R1578	TestNo: SW8260B		Analysis Date: 6/13/2003	SeqNo: 26914					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	19.69	1.0	17.86	0	110	75	125	16.64	16.8	30	
Benzene	21.11	1.0	17.86	0	118	75	125	18.72	12.0	30	
Chlorobenzene	17.1	1.0	17.86	0	95.7	75	125	14.72	14.9	30	
Toluene	19.79	1.0	17.86	0	111	75	125	17.18	14.1	30	
Trichloroethene	19.44	2.0	17.86	0	109	75	125	16.73	15.0	30	
Surr: 4-Bromofluorobenzene	14.94	0	17.86	0	83.6	75	125	0	0	0	
Surr: Dibromofluoromethane	12.14	0	17.86	0	68	75	125	0	0	0	S
Surr: Toluene-d8	18.38	0	17.86	0	103	75	125	0	0	0	

Sample ID	0306035-001AMS	SampType: MS	TestCode: 8260_W	Units: µg/L	Prep Date: 6/11/2003	Run ID: VOGCMS1_030611A					
Client ID:	ZZZZZ	Batch ID: R1572	TestNo: SW8260B		Analysis Date: 6/11/2003	SeqNo: 26853					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	4.032	1.0	5.95	0	67.8	75	125	0	0	0	S
Benzene	5.694	1.0	5.95	0	95.7	75	125	0	0	0	
Chlorobenzene	5.679	1.0	5.95	0	95.4	75	125	0	0	0	
Toluene	6.387	1.0	5.95	0	107	75	125	0	0	0	
Trichloroethene	6.597	2.0	5.95	0	111	75	125	0	0	0	
Surr: 4-Bromofluorobenzene	14.87	0	17.86	0	83.3	75	125	0	0	0	
Surr: Dibromofluoromethane	22.62	0	17.86	0	127	75	125	0	0	0	S
Surr: Toluene-d8	18.76	0	17.86	0	106	75	125	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit  
 I - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Northgate Environmental Management, Inc.  
 Work Order: 0306029  
 Project:

**ANALYTICAL QC SUMMARY REPORT**

TestCode: 8260\_W

Sample ID	SampType	TestCode	Units	Prep Date	Run ID						
0306035-001AMSD	MSD	8260_W	µg/L	6/11/2003	VOCGCMS1_030611A						
Client ID: ZZZZ	Batch ID: R1572	TestNo: SW8260B		Analysis Date: 6/12/2003	SeqNo: 26854						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	3.952	1.0	5.95	0	66.4	75	125	4.032	2.00	30	S
Benzene	5.635	1.0	5.95	0	94.7	75	125	5.694	1.04	30	
Chlorobenzene	5.813	1.0	5.95	0	97.7	75	125	5.679	2.33	30	
Toluene	6.829	1.0	5.95	0	115	75	125	6.387	6.69	30	
Trichloroethene	6.796	2.0	5.95	0	114	75	125	6.597	2.97	30	
Surr: 4-Bromofluorobenzene	15.52	0	17.86	0	86.8	75	125	0	0	0	
Surr: Dibromofluoromethane	23.78	0	17.86	0	133	75	125	0	0	0	S
Surr: Toluene-d8	19.62	0	17.86	0	110	75	125	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits      B - Analyte detected in the associated Method Blank  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits

CLIENT: Northgate Environmental Management, Inc.  
 Work Order: 0306029  
 Project:

**ANALYTICAL QC SUMMARY REPORT**

TestCode: TPH\_DSL\_S\_8015B

Sample ID	SD030609A-MB	SampType: MBLK	TestCode: TPH_DSL_S_	Units: mg/Kg	Prep Date: 6/9/2003	Run ID: SVOCGC1_030609B					
Client ID:	ZZZZZ	Batch ID: R1559	TestNo: SW8015B	Analysis Date: 6/10/2003	SeqNo: 26764						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Diesel)	ND	2.00									
Surr: Pentacosane	3.789	0	3.3	0	115	50	150	0	0		

Sample ID	SD030609A-LCS	SampType: LCS	TestCode: TPH_DSL_S_	Units: mg/Kg	Prep Date: 6/9/2003	Run ID: SVOCGC1_030609B					
Client ID:	ZZZZZ	Batch ID: R1559	TestNo: SW8015B	Analysis Date: 6/10/2003	SeqNo: 26765						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Diesel)	21.8	2.00	33.33	0	65.4	50	150	0	0		
Surr: Pentacosane	3.771	0	3.3	0	114	50	150	0	0		

Sample ID	SD030609A-LCSD	SampType: LCSD	TestCode: TPH_DSL_S_	Units: mg/Kg	Prep Date: 6/9/2003	Run ID: SVOCGC1_030609B					
Client ID:	ZZZZZ	Batch ID: R1559	TestNo: SW8015B	Analysis Date: 6/10/2003	SeqNo: 26766						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Diesel)	28.9	2.00	33.33	0	66.7	50	150	21.8	28.0	30	
Surr: Pentacosane	3.799	0	3.3	0	115	50	150	0	0	0	

Sample ID	0306029-017AMS	SampType: MS	TestCode: TPH_DSL_S_	Units: mg/Kg	Prep Date: 6/9/2003	Run ID: SVOCGC1_030609B					
Client ID:	6P7-11.5	Batch ID: R1559	TestNo: SW8015B	Analysis Date: 6/11/2003	SeqNo: 26777						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Diesel)	31.08	2.00	33.33	0	93.2	50	150	0	0		
Surr: Pentacosane	3.867	0	3.3	0	117	50	150	0	0		

Sample ID	0306029-017AMSD	SampType: MSD	TestCode: TPH_DSL_S_	Units: mg/Kg	Prep Date: 6/9/2003	Run ID: SVOCGC1_030609B					
Client ID:	6P7-11.5	Batch ID: R1559	TestNo: SW8015B	Analysis Date: 6/11/2003	SeqNo: 26778						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Diesel)	28.05	2.00	33.33	0	84.2	50	150	31.08	10.2	30	
Surr: Pentacosane	3.874	0	3.3	0	117	50	150	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits      B - Analyte detected in the associated Method Blank  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits

CLIENT: Northgate Environmental Management, Inc.  
 Work Order: 0306029  
 Project:

**ANALYTICAL QC SUMMARY REPORT**

TestCode: TPH\_DSL\_W\_8015B

Sample ID	WD030609A-LCS	SampType	LCS	TestCode	TPH_DSL_W	Units	mg/L	Prep Date	6/9/2003	Run ID	SVOCGC1_030609A			
Client ID	ZZZZZ	Batch ID	R1558	TestNo	SW8015B			Analysis Date	6/10/2003	SeqNo	26754			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel)		0.806		0.100	1	0		80.6	50	150	0	0		
Surr: Pentacosane		0.108		0	0.1	0		108	50	150	0	0		

Sample ID	WD030609A-LCSD	SampType	LCSD	TestCode	TPH_DSL_W	Units	mg/L	Prep Date	6/9/2003	Run ID	SVOCGC1_030609A			
Client ID	ZZZZZ	Batch ID	R1558	TestNo	SW8015B			Analysis Date	6/10/2003	SeqNo	26755			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel)		0.719		0.100	1	0		71.9	50	150	0.806	11.4	30	
Surr: Pentacosane		0.107		0	0.1	0		107	50	150	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Northgate Environmental Management, Inc.  
 Work Order: 0306029  
 Project:

**ANALYTICAL QC SUMMARY REPORT**

TestCode: TPH\_GAS\_S\_8015B

Sample ID	BLANK-1D	SampType:	MBLK	TestCode:	TPH_GAS_S	Units:	mg/Kg	Prep Date:	6/12/2003	Run ID:	VOCGC1_030612B			
Client ID:	ZZZZ	Batch ID:	R1576	TestNo:	SW8015B			Analysis Date:	6/12/2003	SeqNo:	26904			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Gasoline)	0.0807	0.100												J
Surr: Trifluorotoluene	0.182	0	0.2	0	91	65	135	0	0					

Sample ID	LCS-2 GAS 500 PPB	SampType:	LCS	TestCode:	TPH_GAS_S	Units:	mg/Kg	Prep Date:	6/12/2003	Run ID:	VOCGC1_030612B			
Client ID:	ZZZZ	Batch ID:	R1576	TestNo:	SW8015B			Analysis Date:	6/12/2003	SeqNo:	26905			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Gasoline)	0.4867	0.100	0.5	0.0807	81.2	65	135	0	0					
Surr: Trifluorotoluene	0.1763	0	0.2	0	88.2	65	135	0	0					

Sample ID	LCS-D-2 GAS 500 PP	SampType:	LCS-D	TestCode:	TPH_GAS_S	Units:	mg/Kg	Prep Date:	6/12/2003	Run ID:	VOCGC1_030612B			
Client ID:	ZZZZ	Batch ID:	R1576	TestNo:	SW8015B			Analysis Date:	6/12/2003	SeqNo:	26906			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Gasoline)	0.5723	0.100	0.5	0.0807	98.3	65	135	0.4867	16.2	30				
Surr: Trifluorotoluene	0.1839	0	0.2	0	92	65	135	0	0	0				

Qualifiers: ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank



CLIENT: Northgate Environmental Management, Inc.  
 Work Order: 0306029  
 Project:

**ANALYTICAL QC SUMMARY REPORT**

TestCode: TPH\_GAS\_W\_8015B

Sample ID	SampType	TestCode	Units	Prep Date	Run ID						
Blank-1	MBLK	TPH_GAS_W	mg/L	6/9/2003	VOCGC1_030609A						
Client ID: ZZZZ	Batch ID: R1574	TestNo: SW8015B		Analysis Date: 6/9/2003	SeqNo: 26882						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	ND	0.100									
Surr: Trifluorotoluene	0.07622	0	0.119	0	64	60	130	0	0		

Sample ID	SampType	TestCode	Units	Prep Date	Run ID						
Blank-1	MBLK	TPH_GAS_W	mg/L	6/12/2003	VOCGC1_030612C						
Client ID: ZZZZ	Batch ID: R1577	TestNo: SW8015B		Analysis Date: 6/12/2003	SeqNo: 26908						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	ND	0.100	0	0	0	0	0	0	0	0	
Surr: Trifluorotoluene	0.1037	0	0.119	0	87.1	65	135	0	0		

Sample ID	SampType	TestCode	Units	Prep Date	Run ID						
LCS-1, 238.10 ppb	LCS	TPH_GAS_W	mg/L	6/9/2003	VOCGC1_030609A						
Client ID: ZZZZ	Batch ID: R1574	TestNo: SW8015B		Analysis Date: 6/9/2003	SeqNo: 26883						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	0.2404	0.100	0.2381	0	101	65	135	0	0		
Surr: Trifluorotoluene	0.07699	0	0.119	0	64.7	60	130	0	0		

Sample ID	SampType	TestCode	Units	Prep Date	Run ID						
LCS-1	LCS	TPH_GAS_W	mg/L	6/12/2003	VOCGC1_030612C						
Client ID: ZZZZ	Batch ID: R1577	TestNo: SW8015B		Analysis Date: 6/12/2003	SeqNo: 26909						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	0.2406	0.100	0.2381	0	101	65	135	0	0		
Surr: Trifluorotoluene	0.09746	0	0.119	0	81.9	65	135	0	0		

Sample ID	SampType	TestCode	Units	Prep Date	Run ID						
LCSD-1, 23810 ppb	LCSD	TPH_GAS_W	mg/L	6/9/2003	VOCGC1_030609A						
Client ID: ZZZZ	Batch ID: R1574	TestNo: SW8015B		Analysis Date: 6/9/2003	SeqNo: 26884						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	0.2509	0.100	0.2381	0	105	65	135	0.2404	4.28	30	
Surr: Trifluorotoluene	0.08497	0	0.119	0	71.4	60	130	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits      B - Analyte detected in the associated Method Blank  
 I - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits

CLIENT: Northgate Environmental Management, Inc.

Work Order: 0306029

Project:

### ANALYTICAL QC SUMMARY REPORT

TestCode: TPH\_GAS\_W\_8015B

Sample ID	LCSD-1	SampType: LCSD	TestCode: TPH_GAS_W	Units: mg/L	Prep Date: 6/12/2003	Run ID: VOCGC1_030612C					
Client ID:	ZZZZZ	Batch ID: R1577	TestNo: SW8015B		Analysis Date: 6/12/2003	SeqNo: 26910					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Gasoline)	0.2517	0.100	0.2381	0	106	65	135	0.2406	4.50	30
Surr: Trifluorotoluene	0.09939	0	0.119	0	83.5	65	135	0	0	0

Sample ID	0306036-001AMS	SampType: MS	TestCode: TPH_GAS_W	Units: mg/L	Prep Date: 6/9/2003	Run ID: VOCGC1_030609A					
Client ID:	ZZZZZ	Batch ID: R1574	TestNo: SW8015B		Analysis Date: 6/9/2003	SeqNo: 26879					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Gasoline)	0.2568	0.100	0.2381	0	108	65	135	0	0	
Surr: Trifluorotoluene	0.07937	0	0.119	0	66.7	60	130	0	0	

Sample ID	0306036-001AMS	SampType: MSD	TestCode: TPH_GAS_W	Units: mg/L	Prep Date: 6/9/2003	Run ID: VOCGC1_030609A					
Client ID:	ZZZZZ	Batch ID: R1574	TestNo: SW8015B		Analysis Date: 6/9/2003	SeqNo: 26880					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Gasoline)	0.2449	0.100	0.2381	0	103	65	135	0.2568	4.74	30
Surr: Trifluorotoluene	0.08122	0	0.119	0	68.2	60	130	0	0	0

Qualifiers: ND - Not Detected at the Reporting Limit  
I - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank



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management, inc.

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 057.05		Project Location: Alameda		Date: 6/5/03		Serial No.: 090										
Project Name:		Field Logbook No.:		ANALYSES		Samplers: D. Laduzinsky										
Sampler (Signature):		Samples		HOLD		RUSH										
Sample No.	Date	Time	Lab Sample No.	No. of Containers	Sample Type	TPH/gas	TPH/diesel	VOC	SO2/B							REMARKS
GP-1	6/5	14:45	6VOA, 1R	1	W	X	X	X								0306029-001A
GP-2	6/5	07:30	6VOA	1	W	X	X	X								" - 002A
GP-3	6/5	11:25	6VOA, 1R	1	W	X	X	X								" - 003A
GP-4	6/5	08:10	6VOA, 1R	1	W	X	X	X								" - 004A
GP-5	6/5	13:30	3VOA	3	W			X								" - 005A
GP-6	6/5	14:00	3VOA	3	W			X								" - 006A
GP-7	6/5	9:10	3VOA, 1R	1	W	X	X	X								" - 007A
<del>GP-8</del>	<del>6/5</del>															
GP-9	6/5	10:15	6VOA, 1R	1	W	X	X	X								" - 008A
GP-10	6/5	10:45	3VOA, 1R	1	W	X	X	X								" - 009A
GP-11	6/5	12:55	3VOA, 1R	1	W	X	X	X								" - 010A
Relinquished by:		Date	Time	Received By:		Date	Time									
(Signature)		6/5/03	16:55	(Signature)		6/6/03	11:15 AM									
Relinquished by:		Date	Time	Received By:		Date	Time									
(Signature)				(Signature)												
Relinquished by:		Date	Time	Received By:		Date	Time									
(Signature)				(Signature)												
Method of Shipment:		Date	Time	Lab Comments:												
Sample Collector: Northgate Environmental Management, Inc. 3629 Grand Avenue Oakland, California 94610 (510) 839 0688				Analytical Laboratory: Torrent Laboratory, Inc.												



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management, inc.

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 1057.05		Project Location: Alameda		Date: 6/5/03		Serial No.: 091											
Project Name:		Field Logbook No.:		ANALYSES		Samplers: Dr. Laduzinsky											
Sampler (Signature):		Samples		HOLD		RUSH											
Sample No.	Date	Time	Lab Sample No.	No. of Containers	Sample Type	TPH 845	BTEX 1/MTBE	TPH	Diesel	VOC	8021B						REMARKS
GP4-7	6/5	7:55		1	S					XXXX							0306029-011A
GP5-5	6/5	13:25		1	S					XXXX							11 - 012A
GP5-10	6/5	13:30		1	S					XXXX							11 - 013A
GP6-7.5	6/5	13:55		1	S					XXXX							11 - 014A
GP6-11.5	6/5	14:00		1	S					XXXX							11 - 015A
GP7-7.5	6/5	0900		1	S	XXXX	XXXX										11 - 016A
GP7-11.5	6/5	0905		1	S	XXXX	XXXX										11 - 017A
GP8-7.5	6/5	0940		1	S	XXXX	XXXX										11 - 018A
GP8-11.5	6/5	0945		1	S	XXXX	XXXX										11 - 019A
GP9-7.5	6/5	1000		1	S	XXXX	XXXX										11 - 020A
GP9-11.5	6/5	1005		1	S	XXXX	XXXX										11 - 021A
GP10-7.5	6/5	10120		1	S	XXXX	XXXX										11 - 022A
GP10-11.5	6/5	10130		1	S	XXXX	XXXX										11 - 023A
Relinquished by:		Date	Time	Received By:		Date	Time										
(Signature)		6/5/03	16:55	(Signature)		6/6/03	11:15										
Relinquished by:		Date	Time	Received By:		Date	Time										
(Signature)				(Signature)													
Relinquished by:		Date	Time	Received By:		Date	Time										
(Signature)				(Signature)													
Method of Shipment:		Date	Time	Lab Comments:													
Sample Collector: Northgate Environmental Management, Inc. 3629 Grand Avenue Oakland, California 94610 (510) 839 0688				Analytical Laboratory: To ment Laboratory, Inc.													

June 26, 2003

Dennis Laduzinsky  
Northgate Environmental Management, Inc.  
3629 Grand Avenue  
Oakland, CA 94610

TEL: 510-839-0688  
FAX 510-839-4350

RE:

Order No.: 0306087

Dear Dennis Laduzinsky:

Torrent Laboratory, Inc. received 9 samples on 6/24/2003 for the analyses presented in the following report.

All data for associated QC met EPA or Laboratory specification except where noted in the case narrative.

Torrent laboratory Inc. is certified by the State of California, ELAP #1991. If you have any question regarding these tests results, please feel free to contact Environmental Coordinator, Ms. Anu Patel at (408)263-5258;ext: 204.

Sincerely,

\_\_\_\_\_  
Laboratory Director

\_\_\_\_\_  
Date

**Certified Analytical Report of**  
**Petroleum Hydrocarbons**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/24/2003  
Date Reported: 6/26/2003

Client Sample ID: GP-12	Lab Sample ID: 0306087-001A
Sample Location: Alameda	Date Prepared: 6/25/2003
Sample Matrix: WATER	
Date/Time Sampled 6/24/2003 11:15:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
TPH (Gasoline)	SW8015B	6/26/2003	0.1	1	0.100	ND	mg/L
Surr: Trifluorotoluene	SW8015B	6/26/2003	0	1	65-135	127	%REC

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
 Northgate Environmental Management, Inc.

Date Received: 6/24/2003  
 Date Reported: 6/26/2003

Client Sample ID: GP-12	Lab Sample ID: 0306087-001A
Sample Location: Alameda	Date Prepared: 6/25/2003
Sample Matrix: WATER	
Date/Time Sampled: 6/24/2003 11:15:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Benzene	SW8260B	6/26/2003	1	1	1.0	ND	µg/L
Ethylbenzene	SW8260B	6/26/2003	1	1	1.0	ND	µg/L
Methyl tert-butyl ether (MTBE)	SW8260B	6/26/2003	1	1	1.0	ND	µg/L
Toluene	SW8260B	6/26/2003	1	1	1.0	ND	µg/L
Xylenes, Total	SW8260B	6/26/2003	1	1	1.0	ND	µg/L
Surr: 4-Bromofluorobenzene	SW8260B	6/26/2003	0	1	70-120	72.8	%REC
Surr: Dibromofluoromethane	SW8260B	6/26/2003	0	1	70-120	83.3	%REC
Surr: Toluene-d8	SW8260B	6/26/2003	0	1	70-120	81.1	%REC

**Certified Analytical Report of**  
**Petroleum Hydrocarbons**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/24/2003  
Date Reported: 6/26/2003

Client Sample ID: GP-13	Lab Sample ID: 0306087-002A
Sample Location: Alameda	Date Prepared: 6/25/2003
Sample Matrix: WATER	
Date/Time Sampled 6/24/2003 9:40:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
TPH (Gasoline)	SW8015B	6/26/2003	0.1	1	0.100	ND	mg/L
Surr: Trifluorotoluene	SW8015B	6/26/2003	0	1	65-135	128	%REC



**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
 Northgate Environmental Management, Inc.

Date Received: 6/24/2003  
 Date Reported: 6/26/2003

Client Sample ID: GP-13	Lab Sample ID: 0306087-002A
Sample Location: Alameda	Date Prepared: 6/25/2003
Sample Matrix: WATER	
Date/Time Sampled 6/24/2003 9:40:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Benzene	SW8260B	6/26/2003	1	1	1.0	ND	µg/L
Ethylbenzene	SW8260B	6/26/2003	1	1	1.0	ND	µg/L
Methyl tert-butyl ether (MTBE)	SW8260B	6/26/2003	1	1	1.0	ND	µg/L
Toluene	SW8260B	6/26/2003	1	1	1.0	ND	µg/L
Xylenes, Total	SW8260B	6/26/2003	1	1	1.0	ND	µg/L
Surr: 4-Bromofluorobenzene	SW8260B	6/26/2003	0	1	70-120	72.0	%REC
Surr: Dibromofluoromethane	SW8260B	6/26/2003	0	1	70-120	84.9	%REC
Surr: Toluene-d8	SW8260B	6/26/2003	0	1	70-120	81.7	%REC

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/24/2003  
Date Reported: 6/26/2003

Client Sample ID:	GP-14	Lab Sample ID:	0306087-003A
Sample Location:	Alameda	Date Prepared:	6/25/2003
Sample Matrix:	WATER		
Date/Time Sampled	6/24/2003 8:10:00 AM		

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
1,1,1,2-Tetrachloroethane	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
1,1,1-Trichloroethane	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
1,1,2,2-Tetrachloroethane	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
1,1,2-Trichloroethane	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
1,1-Dichloroethane	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
1,1-Dichloroethene	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
1,1-Dichloropropene	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
1,2,3-Trichlorobenzene	SW8260B	6/26/2003	5.95	10.5	62	ND	µg/L
1,2,3-Trichloropropane	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
1,2,4-Trichlorobenzene	SW8260B	6/26/2003	5.95	10.5	62	ND	µg/L
1,2,4-Trimethylbenzene	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
1,2-Dibromo-3-chloropropane	SW8260B	6/26/2003	5.95	10.5	62	ND	µg/L
1,2-Dibromoethane	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
1,2-Dichlorobenzene	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
1,2-Dichloroethane	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
1,2-Dichloropropane	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
1,3,5-Trimethylbenzene	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
1,3-Dichlorobenzene	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
1,3-Dichloropropane	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
1,4-Dichlorobenzene	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
2,2-Dichloropropane	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
2-Chloroethyl vinyl ether	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
2-Chlorotoluene	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
4-Chlorotoluene	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
4-Isopropyltoluene	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
Benzene	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
Bromobenzene	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
Bromochloromethane	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
Bromodichloromethane	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
Bromoform	SW8260B	6/26/2003	2	10.5	21	ND	µg/L
Bromomethane	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
Carbon tetrachloride	SW8260B	6/26/2003	1	10.5	10	ND	µg/L

These analyses were performed according to State of California Environmental Laboratory  
Accreditation program, Certificate # 1991

**Certified Analytical Report of  
Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/24/2003  
Date Reported: 6/26/2003

Client Sample ID:	GP-14	Lab Sample ID:	0306087-003A
Sample Location:	Alameda	Date Prepared:	6/25/2003
Sample Matrix:	WATER		
Date/Time Sampled	6/24/2003 8:10:00 AM		

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Chlorobenzene	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
Chloroform	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
Chloromethane	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
cis-1,2-Dichloroethene	SW8260B	6/26/2003	1	10.5	10	510	µg/L
Dibromochloromethane	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
Dibromomethane	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
Dichlorodifluoromethane	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
Ethyl tert-butyl ether (ETBE)	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
Ethylbenzene	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
Freon-113	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
Hexachlorobutadiene	SW8260B	6/26/2003	5.95	10.5	62	ND	µg/L
Isopropyl ether (IPE)	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
Isopropylbenzene	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
Methyl tert-butyl ether (MTBE)	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
Methylene chloride	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
Naphthalene	SW8260B	6/26/2003	5.95	10.5	62	ND	µg/L
n-Butylbenzene	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
n-Propylbenzene	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
sec-Butylbenzene	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
Styrene	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
t-Butyl alcohol (t-Butanol)	SW8260B	6/26/2003	29.76	10.5	310	ND	µg/L
tert-Amyl methyl ether (TAME)	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
tert-Butylbenzene	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
Tetrachloroethene	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
Toluene	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
trans-1,2-Dichloroethene	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
trans-1,3-Dichloropropene	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
Trichloroethene	SW8260B	6/26/2003	2	10.5	21	ND	µg/L
Trichlorofluoromethane	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
Vinyl chloride	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
Xylenes, Total	SW8260B	6/26/2003	1	10.5	10	ND	µg/L
Surr: 4-Bromofluorobenzene	SW8260B	6/26/2003	0	10.5	70-120	71.7	%REC

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/24/2003  
Date Reported: 6/26/2003

Client Sample ID: GP-14	Lab Sample ID: 0306087-003A
Sample Location: Alameda	Date Prepared: 6/25/2003
Sample Matrix: WATER	
Date/Time Sampled 6/24/2003 8:10:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Surr: Dibromofluoromethane	SW8260B	6/26/2003	0	10.5	70-120	87.2	%REC
Surr: Toluene-d8	SW8260B	6/26/2003	0	10.5	70-120	84.6	%REC

**Certified Analytical Report of**  
**Nonhalogenated Volatiles**

Report prepared for: Dennis Laduzinsky  
 Northgate Environmental Management, Inc.

Date Received: 6/24/2003  
 Date Reported: 6/26/2003

Client Sample ID: GP-12-7.5	Lab Sample ID: 0306087-004A
Sample Location: Alameda	Date Prepared: 6/24/2003
Sample Matrix: SOIL	
Date/Time Sampled 6/24/2003	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Benzene	SW8021B	6/24/2003	10	1	10	ND	µg/Kg
Ethylbenzene	SW8021B	6/24/2003	10	1	10	ND	µg/Kg
Methyl tert-butyl ether	SW8021B	6/24/2003	10	1	10	ND	µg/Kg
Toluene	SW8021B	6/24/2003	10	1	10	ND	µg/Kg
Xylenes, Total	SW8021B	6/24/2003	10	1	10	ND	µg/Kg
Surr: Trifluorotoluene	SW8021B	6/24/2003	0	1	65-135	96.0	%REC

**Certified Analytical Report of**  
**Petroleum Hydrocarbons**

Report prepared for: Dennis Laduzinsky  
 Northgate Environmental Management, Inc.

Date Received: 6/24/2003  
 Date Reported: 6/26/2003

Client Sample ID: GP-12-7.5	Lab Sample ID: 0306087-004A
Sample Location: Alameda	Date Prepared: 6/24/2003
Sample Matrix: SOIL	
Date/Time Sampled 6/24/2003	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
TPH (Gasoline)	SW8015B	6/24/2003	0.1	1	0.100	ND	mg/Kg
Surr: Trifluorotoluene	SW8015B	6/24/2003	0	1	65-135	100	%REC

**Certified Analytical Report of**  
**Nonhalogenated Volatiles**

Report prepared for: Dennis Laduzinsky  
 Northgate Environmental Management, Inc.

Date Received: 6/24/2003  
 Date Reported: 6/26/2003

Client Sample ID: GP-12-11.5	Lab Sample ID: 0306087-005A
Sample Location: Alameda	Date Prepared: 6/24/2003
Sample Matrix: SOIL	
Date/Time Sampled 6/24/2003	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Benzene	SW8021B	6/24/2003	10	1	10	ND	µg/Kg
Ethylbenzene	SW8021B	6/24/2003	10	1	10	ND	µg/Kg
Methyl tert-butyl ether	SW8021B	6/24/2003	10	1	10	ND	µg/Kg
Toluene	SW8021B	6/24/2003	10	1	10	ND	µg/Kg
Xylenes, Total	SW8021B	6/24/2003	10	1	10	ND	µg/Kg
Surr: Trifluorotoluene	SW8021B	6/24/2003	0	1	65-135	85.6	%REC

**Certified Analytical Report of**  
**Petroleum Hydrocarbons**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/24/2003  
Date Reported: 6/26/2003

Client Sample ID: GP-12-11.5	Lab Sample ID: 0306087-005A
Sample Location: Alameda	Date Prepared: 6/24/2003
Sample Matrix: SOIL	
Date/Time Sampled 6/24/2003	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
TPH (Gasoline)	SW8015B	6/24/2003	0.1	1	0.100	ND	mg/Kg
Surr: Trifluorotoluene	SW8015B	6/24/2003	0	1	65-135	93.0	%REC



Certified Analytical Report of  
Nonhalogenated Volatiles

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/24/2003  
Date Reported: 6/26/2003

Client Sample ID: GP-13-7.5  
Sample Location: Alameda  
Sample Matrix: SOIL  
Date/Time Sampled 6/24/2003

Lab Sample ID: 0306087-006A  
Date Prepared: 6/24/2003

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Benzene	SW8021B	6/25/2003	10	50	500	ND	µg/Kg
Ethylbenzene	SW8021B	6/25/2003	10	50	500	1000	µg/Kg
Methyl tert-butyl ether	SW8021B	6/25/2003	10	50	500	ND	µg/Kg
Toluene	SW8021B	6/25/2003	10	50	500	ND	µg/Kg
Xylenes, Total	SW8021B	6/25/2003	10	50	500	1800	µg/Kg
Surr: Trifluorotoluene	SW8021B	6/25/2003	0	50	65-135	127	%REC

**Certified Analytical Report of**  
**Petroleum Hydrocarbons**

Report prepared for: Dennis Laduzinsky  
 Northgate Environmental Management, Inc.

Date Received: 6/24/2003  
 Date Reported: 6/26/2003

Client Sample ID: GP-13-7.5	Lab Sample ID: 0306087-006A
Sample Location: Alameda	Date Prepared: 6/24/2003
Sample Matrix: SOIL	
Date/Time Sampled 6/24/2003	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
TPH (Gasoline)	SW8015B	6/25/2003	0.1	50	5.00	53.4	mg/Kg
Surr: Trifluorotoluene	SW8015B	6/25/2003	0	50	65-135	124	%REC

**Certified Analytical Report of**  
**Nonhalogenated Volatiles**

Report prepared for: Dennis Laduzinsky  
 Northgate Environmental Management, Inc.

Date Received: 6/24/2003  
 Date Reported: 6/26/2003

Client Sample ID: GP-13-11.5	Lab Sample ID: 0306087-007A
Sample Location: Alameda	Date Prepared: 6/24/2003
Sample Matrix: SOIL	
Date/Time Sampled 6/24/2003	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Benzene	SW8021B	6/24/2003	10	1	10	ND	µg/Kg
Ethylbenzene	SW8021B	6/24/2003	10	1	10	ND	µg/Kg
Methyl tert-butyl ether	SW8021B	6/24/2003	10	1	10	ND	µg/Kg
Toluene	SW8021B	6/24/2003	10	1	10	ND	µg/Kg
Xylenes, Total	SW8021B	6/24/2003	10	1	10	ND	µg/Kg
Surr: Trifluorotoluene	SW8021B	6/24/2003	0	1	65-135	73.5	%REC

**Certified Analytical Report of**  
**Petroleum Hydrocarbons**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/24/2003  
Date Reported: 6/26/2003

<b>Client Sample ID:</b> GP-13-11.5	<b>Lab Sample ID:</b> 0306087-007A
<b>Sample Location:</b> Alameda	<b>Date Prepared:</b> 6/24/2003
<b>Sample Matrix:</b> SOIL	
<b>Date/Time Sampled:</b> 6/24/2003	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
TPH (Gasoline)	SW8015B	6/24/2003	0.1	1	0.100	ND	mg/Kg
Surr: Trifluorotoluene	SW8015B	6/24/2003	0	1	65-135	75.6	%REC

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/24/2003  
Date Reported: 6/26/2003

Client Sample ID: GP-14-4.5  
Sample Location: Alameda  
Sample Matrix: SOIL  
Date/Time Sampled 6/24/2003

Lab Sample ID: 0306087-008A  
Date Prepared: 6/24/2003

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
1,1,1,2-Tetrachloroethane	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
1,1,1-Trichloroethane	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
1,1,2,2-Tetrachloroethane	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
1,1,2-Trichloroethane	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
1,1-Dichloroethane	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
1,1-Dichloroethene	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
1,1-Dichloropropene	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
1,2,3-Trichlorobenzene	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
1,2,3-Trichloropropane	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
1,2,4-Trichlorobenzene	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
1,2,4-Trimethylbenzene	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
1,2-Dibromo-3-chloropropane	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
1,2-Dibromoethane	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
1,2-Dichlorobenzene	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
1,2-Dichloroethane	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
1,2-Dichloropropane	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
1,3,5-Trimethylbenzene	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
1,3-Dichlorobenzene	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
1,3-Dichloropropane	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
1,4-Dichlorobenzene	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
2,2-Dichloropropane	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
2-Chloroethyl vinyl ether	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
2-Chlorotoluene	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
4-Chlorotoluene	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
4-Isopropyltoluene	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
Benzene	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
Bromobenzene	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
Bromochloromethane	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
Bromodichloromethane	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
Bromoform	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
Carbon tetrachloride	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
Chlorobenzene	SW8260B	6/25/2003	10	5	50	ND	µg/Kg

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/24/2003  
Date Reported: 6/26/2003

<b>Client Sample ID:</b> GP-14-4.5	<b>Lab Sample ID:</b> 0306087-008A
<b>Sample Location:</b> Alameda	<b>Date Prepared:</b> 6/24/2003
<b>Sample Matrix:</b> SOIL	
<b>Date/Time Sampled:</b> 6/24/2003	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Chloroform	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
Chloromethane	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
cis-1,2-Dichloroethene	SW8260B	6/25/2003	10	5	50	270	µg/Kg
Dibromochloromethane	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
Dibromomethane	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
Dichlorodifluoromethane	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
Ethyl tert-butyl ether (ETBE)	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
Ethylbenzene	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
Freon-113	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
Hexachlorobutadiene	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
Isopropyl ether (IPE)	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
Isopropylbenzene	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
Methyl tert-butyl ether (MTBE)	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
Methylene chloride	SW8260B	6/25/2003	50	5	250	ND	µg/Kg
Naphthalene	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
n-Butylbenzene	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
n-Propylbenzene	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
sec-Butylbenzene	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
Styrene	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
t-Butyl alcohol (t-Butanol)	SW8260B	6/25/2003	50	5	250	ND	µg/Kg
tert-Amyl methyl ether (TAME)	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
tert-Butylbenzene	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
Tetrachloroethene	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
Toluene	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
trans-1,2-Dichloroethene	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
trans-1,3-Dichloropropene	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
Trichloroethene	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
Trichlorofluoromethane	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
Vinyl chloride	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
Xylenes, Total	SW8260B	6/25/2003	10	5	50	ND	µg/Kg
Surr: 4-Bromofluorobenzene	SW8260B	6/25/2003	0	5	65-135	64.3	%REC
Surr: Dibromofluoromethane	SW8260B	6/25/2003	0	5	65-135	69.1	%REC

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/24/2003  
Date Reported: 6/26/2003

Client Sample ID:	GP-14-4.5	Lab Sample ID:	0306087-008A
Sample Location:	Alameda	Date Prepared:	6/24/2003
Sample Matrix:	SOIL		
Date/Time Sampled	6/24/2003		

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Surr: Toluene-d8	SW8260B	6/25/2003	0	5	65-135	73.4	%REC

Note: Surrogate outside the control limit due to possible matrix interference.

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/24/2003  
Date Reported: 6/26/2003

Client Sample ID: GP-14-8.5	Lab Sample ID: 0306087-009A
Sample Location: Alameda	Date Prepared: 6/24/2003
Sample Matrix: SOIL	
Date/Time Sampled 6/24/2003	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
1,1,1,2-Tetrachloroethane	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
1,1,1-Trichloroethane	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
1,1,2,2-Tetrachloroethane	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
1,1,2-Trichloroethane	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
1,1-Dichloroethane	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
1,1-Dichloroethene	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
1,1-Dichloropropene	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
1,2,3-Trichlorobenzene	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
1,2,3-Trichloropropane	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
1,2,4-Trichlorobenzene	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
1,2,4-Trimethylbenzene	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
1,2-Dibromo-3-chloropropane	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
1,2-Dibromoethane	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
1,2-Dichlorobenzene	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
1,2-Dichloroethane	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
1,2-Dichloropropane	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
1,3,5-Trimethylbenzene	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
1,3-Dichlorobenzene	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
1,3-Dichloropropane	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
1,4-Dichlorobenzene	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
2,2-Dichloropropane	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
2-Chloroethyl vinyl ether	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
2-Chlorotoluene	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
4-Chlorotoluene	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
4-Isopropyltoluene	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
Benzene	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
Bromobenzene	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
Bromochloromethane	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
Bromodichloromethane	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
Bromoform	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
Carbon tetrachloride	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
Chlorobenzene	SW8260B	6/24/2003	10	1	10	ND	µg/Kg

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991



**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/24/2003  
Date Reported: 6/26/2003

Client Sample ID: GP-14-8.5  
Sample Location: Alameda  
Sample Matrix: SOIL  
Date/Time Sampled 6/24/2003

Lab Sample ID: 0306087-009A  
Date Prepared: 6/24/2003

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Chloroform	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
Chloromethane	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
cis-1,2-Dichloroethene	SW8260B	6/24/2003	10	1	10	17	µg/Kg
Dibromochloromethane	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
Dibromomethane	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
Dichlorodifluoromethane	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
Ethyl tert-butyl ether (ETBE)	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
Ethylbenzene	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
Freon-113	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
Hexachlorobutadiene	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
Isopropyl ether (IPE)	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
Isopropylbenzene	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
Methyl tert-butyl ether (MTBE)	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
Methylene chloride	SW8260B	6/24/2003	50	1	50	ND	µg/Kg
Naphthalene	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
n-Butylbenzene	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
n-Propylbenzene	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
sec-Butylbenzene	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
Styrene	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
t-Butyl alcohol (t-Butanol)	SW8260B	6/24/2003	50	1	50	ND	µg/Kg
tert-Amyl methyl ether (TAME)	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
tert-Butylbenzene	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
Tetrachloroethene	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
Toluene	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
trans-1,2-Dichloroethene	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
trans-1,3-Dichloropropene	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
Trichloroethene	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
Trichlorofluoromethane	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
Vinyl chloride	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
Xylenes, Total	SW8260B	6/24/2003	10	1	10	ND	µg/Kg
Surr: 4-Bromofluorobenzene	SW8260B	6/24/2003	0	1	65-135	84.0	%REC
Surr: Dibromofluoromethane	SW8260B	6/24/2003	0	1	65-135	87.0	%REC

These analyses were performed according to State of California Environmental Laboratory  
Accreditation program, Certificate # 1991

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 6/24/2003  
Date Reported: 6/26/2003

Client Sample ID: GP-14-8.5	Lab Sample ID: 0306087-009A
Sample Location: Alameda	Date Prepared: 6/24/2003
Sample Matrix: SOIL	
Date/Time Sampled 6/24/2003	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Surr: Toluene-d8	SW8260B	6/24/2003	0	1	65-135	87.0	%REC

**Definitions, legends and Notes**

Note	Description
ug/kg	Microgram per kilogram (ppb, part per billion).
ug/L	Microgram per liter (ppb, part per billion).
mg/kg	Milligram per kilogram (ppm, part per million).
mg/L	Milligram per liter (ppm, part per million).
LCS/LCSD	Laboratory control sample/laboratory control sample duplicate.
MDL	Method detection limit.
MRL	Modified reporting limit. When sample is subject to dilution, reporting limit times dilution factor yields MRL.
MS/MSD	Matrix spike/matrix spike duplicate.
N/A	Not applicable.
ND	Not detected at or above detection limit.
NR	Not reported.
QC	Quality Control.
RL	Reporting limit.
% RPD	Percent relative difference.
a	pH was measured immediately upon the receipt of the sample, but it was still done outside the holding time.
sub	Analyzed by subcontracting laboratory, Lab Certificate #

Torrent Laboratory, Inc.

Date: 26-Jun-03

CLIENT: Northgate Environmental Management, Inc.  
 Work Order: 0306087  
 Project:

**ANALYTICAL QC SUMMARY REPORT**

TestCode: 8021B\_S

Sample ID: Blank-1	SampType: MBLK	TestCode: 8021B_S	Units: µg/Kg	Prep Date: 6/24/2003	Run ID: VOCGC1_030624A
Client ID: ZZZZZ	Batch ID: R1637	TestNo: SW8021B		Analysis Date: 6/24/2003	SeqNo: 27438

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	10									
Ethylbenzene	ND	10									
Methyl tert-butyl ether	ND	10									
Toluene	ND	10									
Xylenes, Total	ND	10									
Surr: Trifluorotoluene	46.86	0	50	0	97.7	65	135	0	0		

Sample ID: LCS-1,mbtex,50ppb	SampType: LCS	TestCode: 8021B_S	Units: µg/Kg	Prep Date: 6/24/2003	Run ID: VOCGC1_030624A
Client ID: ZZZZZ	Batch ID: R1637	TestNo: SW8021B		Analysis Date: 6/24/2003	SeqNo: 27439

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	47.54	10	50	0	95.1	70	130	0	0		
Ethylbenzene	49.85	10	50	0	99.7	70	130	0	0		
Methyl tert-butyl ether	49.55	10	50	0	99.1	70	130	0	0		
Toluene	49.41	10	50	0	98.8	70	130	0	0		
Xylenes, Total	150.3	10	150	0	100	70	130	0	0		
Surr: Trifluorotoluene	55.36	0	50	0	111	65	135	0	0		

Sample ID: LCSD-1,mbtex,50pp	SampType: LCSD	TestCode: 8021B_S	Units: µg/Kg	Prep Date: 6/24/2003	Run ID: VOCGC1_030624A
Client ID: ZZZZZ	Batch ID: R1637	TestNo: SW8021B		Analysis Date: 6/24/2003	SeqNo: 27440

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	50.16	10	50	0	100	70	130	47.54	5.38	30	
Ethylbenzene	51.71	10	50	0	103	70	130	49.85	3.66	30	
Methyl tert-butyl ether	55.76	10	50	0	112	70	130	49.55	11.8	30	
Toluene	51.16	10	50	0	102	70	130	49.41	3.49	30	
Xylenes, Total	155.4	10	150	0	104	70	130	150.3	3.30	30	
Surr: Trifluorotoluene	63.82	0	50	0	128	65	135	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits      B - Analyte detected in the associated Method Blank  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits

CLIENT: Northgate Environmental Management, Inc.  
 Work Order: 0306087  
 Project:

**ANALYTICAL QC SUMMARY REPORT**

TestCode: 8260\_S

Sample ID: Blank-1D	SampType: MBLK	TestCode: 8260_S	Units: µg/Kg	Prep Date: 6/24/2003	Run ID: VOGCMS1_030624A						
Client ID: ZZZZ	Batch ID: R1651	TestNo: SW8260B		Analysis Date: 6/24/2003	SeqNo: 27700						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1,2-Tetrachloroethane	ND	10									
1,1,1-Trichloroethane	ND	10									
1,1,2,2-Tetrachloroethane	ND	10									
1,1,2-Trichloroethane	ND	10									
1,1-Dichloroethane	ND	10									
1,1-Dichloroethene	ND	10									
1,1-Dichloropropene	ND	10									
1,2,3-Trichlorobenzene	ND	10									
1,2,3-Trichloropropane	ND	10									
1,2,4-Trichlorobenzene	ND	10									
1,2,4-Trimethylbenzene	ND	10									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	10									
1,2-Dichlorobenzene	ND	10									
1,2-Dichloroethane	ND	10									
1,2-Dichloropropane	ND	10									
1,3,5-Trimethylbenzene	ND	10									
1,3-Dichlorobenzene	ND	10									
1,3-Dichloropropane	ND	10									
1,4-Dichlorobenzene	ND	10									
2,2-Dichloropropane	ND	10									
2-Chloroethyl vinyl ether	ND	10									
2-Chlorotoluene	ND	10									
4-Chlorotoluene	ND	10									
4-Isopropyltoluene	ND	10									
Benzene	ND	10									
Bromobenzene	ND	10									
Bromochloromethane	ND	10									
Bromodichloromethane	ND	10									
Bromoform	ND	10									
Carbon tetrachloride	ND	10									

Qualifiers: ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

**CLIENT:** Northgate Environmental Management, Inc.  
**Work Order:** 0306087  
**Project:**

**ANALYTICAL QC SUMMARY REPORT**

**TestCode: 8260\_S**

Sample ID: Blank-1D	SampType: MBLK	TestCode: 8260_S	Units: µg/Kg	Prep Date: 6/24/2003	Run ID: VOGCMS1_030624A
Client ID: 22222	Batch ID: R1651	TestNo: SW8260B		Analysis Date: 6/24/2003	SeqNo: 27700

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	ND	10									
Chloroform	ND	10									
Chloromethane	ND	10									
cis-1,2-Dichloroethene	ND	10									
Dibromochloromethane	ND	10									
Dibromomethane	ND	10									
Dichlorodifluoromethane	ND	10									
Ethyl tert-butyl ether (ETBE)	ND	10									
Ethylbenzene	ND	10									
Freon-113	ND	10									
Hexachlorobutadiene	ND	10									
Isopropyl ether (IPE)	ND	10									
Isopropylbenzene	ND	10									
Methyl tert-butyl ether (MTBE)	ND	10									
Methylene chloride	ND	50									
Naphthalene	ND	10									
n-Butylbenzene	ND	10									
n-Propylbenzene	ND	10									
sec-Butylbenzene	ND	10									
Styrene	ND	10									
t-Butyl alcohol (t-Butanol)	ND	50									
tert-Amyl methyl ether (TAME)	ND	10									
tert-Butylbenzene	ND	10									
Tetrachloroethene	ND	10									
Toluene	ND	10									
trans-1,2-Dichloroethene	ND	10									
trans-1,3-Dichloropropene	ND	10									
Trichloroethene	ND	10									
Trichlorofluoromethane	ND	10									
Vinyl chloride	ND	10									
Xylenes, Total	ND	10									

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Northgate Environmental Management, Inc.  
 Work Order: 0306087  
 Project:

**ANALYTICAL QC SUMMARY REPORT**

TestCode: 8260\_S

Sample ID	Blank-1D	SampType:	MBLK	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	6/24/2003	Run ID:	VOCGCMS1_030624A
Client ID:	ZZZZZ	Batch ID:	R1651	TestNo:	SW8260B	Analysis Date:	6/24/2003	SeqNo:	27700		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	27.23	0	35.72	0	76.2	65	135	0	0		
Surr: Dibromofluoromethane	26.7	0	35.72	0	80.3	65	135	0	0		
Surr: Toluene-d8	30.15	0	35.72	0	84.4	65	135	0	0		

Sample ID	LCS-1, 50 ppb	SampType:	LCS	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	6/24/2003	Run ID:	VOCGCMS1_030624A
Client ID:	ZZZZZ	Batch ID:	R1651	TestNo:	SW8260B	Analysis Date:	6/24/2003	SeqNo:	27701		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	58.35	10	50	0	117	70	130	0	0		
Benzene	54.17	10	50	0	108	70	130	0	0		
Chlorobenzene	48.6	10	50	0	97.2	70	130	0	0		
Toluene	53.45	10	50	0	107	70	130	0	0		
Trichloroethene	57.78	10	50	0	116	70	130	0	0		
Surr: 4-Bromofluorobenzene	27.59	0	35.72	0	77.2	65	135	0	0		
Surr: Dibromofluoromethane	26.66	0	35.72	0	74.6	65	135	0	0		
Surr: Toluene-d8	29.45	0	35.72	0	82.4	65	135	0	0		

Sample ID	LCS-1, 50 ppb	SampType:	LCS	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	6/24/2003	Run ID:	VOCGCMS1_030624A
Client ID:	ZZZZZ	Batch ID:	R1651	TestNo:	SW8260B	Analysis Date:	6/24/2003	SeqNo:	27702		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	58.35	10	50	0	117	70	130	58.35	0	30	
Benzene	54.6	10	50	0	109	70	130	54.17	0.791	30	
Chlorobenzene	45.92	10	50	0	91.8	70	130	48.6	5.67	30	
Toluene	49.86	10	50	0	99.7	70	130	53.45	6.95	30	
Trichloroethene	57.9	10	50	0	116	70	130	57.78	0.207	30	
Surr: 4-Bromofluorobenzene	26.85	0	35.72	0	75.2	65	135	0	0	0	
Surr: Dibromofluoromethane	27.19	0	35.72	0	76.1	65	135	0	0	0	
Surr: Toluene-d8	28.83	0	35.72	0	80.7	65	135	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Northgate Environmental Management, Inc.  
 Work Order: 0306087  
 Project:

**ANALYTICAL QC SUMMARY REPORT**

TestCode: 8260\_S

Sample ID	0306081-006AMS	SampType: MS	TestCode: 8260_S	Units: µg/Kg	Prep Date: 6/24/2003	Run ID: VOGCMS1_030624A					
Client ID:	ZZZZZ	Batch ID: R1651	TestNo: SW8260B		Analysis Date: 6/24/2003	SeqNo: 27694					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	60.09	10	50	0	120	70	130	0	0		
Benzene	49.74	10	50	0	99.5	70	130	0	0		
Chlorobenzene	42.12	10	50	0	84.2	70	130	0	0		
Toluene	49.44	10	50	0	98.9	70	130	0	0		
Trichloroethene	52.87	10	50	0	106	70	130	0	0		
Surr: 4-Bromofluorobenzene	28.06	0	35.72	0	78.6	65	135	0	0		
Surr: Dibromofluoromethane	28.35	0	35.72	0	79.4	65	135	0	0		
Surr: Toluene-d8	31.19	0	35.72	0	87.3	65	135	0	0		

Sample ID	0306081-006AMSD	SampType: MSD	TestCode: 8260_S	Units: µg/Kg	Prep Date: 6/24/2003	Run ID: VOGCMS1_030624A					
Client ID:	ZZZZZ	Batch ID: R1651	TestNo: SW8260B		Analysis Date: 6/25/2003	SeqNo: 27695					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	64.6	10	50	0	129	70	130	60.09	7.23	30	
Benzene	54.05	10	50	0	108	70	130	49.74	8.31	30	
Chlorobenzene	46.14	10	50	0	92.3	70	130	42.12	9.11	30	
Toluene	52.13	10	50	0	104	70	130	49.44	5.30	30	
Trichloroethene	59.12	10	50	0	118	70	130	52.87	11.2	30	
Surr: 4-Bromofluorobenzene	27.46	0	35.72	0	76.9	65	135	0	0	0	
Surr: Dibromofluoromethane	29.07	0	35.72	0	81.4	65	135	0	0	0	
Surr: Toluene-d8	30.64	0	35.72	0	85.8	65	135	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank



CLIENT: Northgate Environmental Management, Inc.  
 Work Order: 0306087  
 Project:

**ANALYTICAL QC SUMMARY REPORT**

TestCode: 8260\_W

Sample ID: BLANK-1D	SampType: MBLK	TestCode: 8260_W	Units: µg/L	Prep Date: 6/25/2003	Run ID: VOCCGMS1_030625A
Client ID: ZZZZZ	Batch ID: R1649	TestNo: SW8260B		Analysis Date: 6/25/2003	SeqNo: 27640

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	1.0									
1,1,1-Trichloroethane	ND	1.0									
1,1,2,2-Tetrachloroethane	ND	1.0									
1,1,2-Trichloroethane	ND	1.0									
1,1-Dichloroethane	ND	1.0									
1,1-Dichloroethene	ND	1.0									
1,1-Dichloropropene	ND	1.0									
1,2,3-Trichlorobenzene	ND	6.0									
1,2,3-Trichloropropane	ND	1.0									
1,2,4-Trichlorobenzene	ND	6.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,2-Dibromo-3-chloropropane	ND	6.0									
1,2-Dibromoethane	ND	1.0									
1,2-Dichlorobenzene	ND	1.0									
1,2-Dichloroethane	ND	1.0									
1,2-Dichloropropane	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,3-Dichlorobenzene	ND	1.0									
1,3-Dichloropropane	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
2,2-Dichloropropane	ND	1.0									
2-Chloroethyl vinyl ether	ND	1.0									
2-Chlorotoluene	ND	1.0									
4-Chlorotoluene	ND	1.0									
4-Isopropyltoluene	ND	1.0									
Benzene	ND	1.0									
Bromobenzene	ND	1.0									
Bromochloromethane	ND	1.0									
Bromodichloromethane	ND	1.0									
Bromoform	ND	2.0									
Bromomethane	ND	1.0									

Qualifiers: ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits      B - Analyte detected in the associated Method Blank  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits

CLIENT: Northgate Environmental Management, Inc.  
 Work Order: 0306087  
 Project:

**ANALYTICAL QC SUMMARY REPORT**

TestCode: 8260\_W

Sample ID: BLANK-1D	SampType: MBLK	TestCode: 8260_W	Units: µg/L	Prep Date: 6/25/2003	Run ID: VOCGCMS1_030625A
Client ID: ZZZZ	Batch ID: R1649	TestNo: SW8260B		Analysis Date: 6/25/2003	SeqNo: 27640

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon tetrachloride	ND	1.0									
Chlorobenzene	ND	1.0									
Chloroform	ND	1.0									
Chloromethane	ND	1.0									
cis-1,2-Dichloroethene	ND	1.0									
Dibromochloromethane	ND	1.0									
Dibromomethane	ND	1.0									
Dichlorodifluoromethane	ND	1.0									
Ethyl tert-butyl ether (ETBE)	ND	1.0									
Ethylbenzene	ND	1.0									
Freon-113	ND	1.0									
Hexachlorobutadiene	ND	6.0									
Isopropyl ether (IPE)	ND	1.0									
Isopropylbenzene	ND	1.0									
Methyl tert-butyl ether (MTBE)	ND	1.0									
Methylene chloride	ND	1.0									
Naphthalene	ND	6.0									
n-Butylbenzene	ND	1.0									
n-Propylbenzene	ND	1.0									
sec-Butylbenzene	ND	1.0									
Styrene	ND	1.0									
t-Butyl alcohol (t-Butanol)	ND	30									
tert-Amyl methyl ether (TAME)	ND	1.0									
tert-Butylbenzene	ND	1.0									
Tetrachloroethene	ND	1.0									
Toluene	ND	1.0									
trans-1,2-Dichloroethene	ND	1.0									
trans-1,3-Dichloropropene	ND	1.0									
Trichloroethene	ND	2.0									
Trichlorofluoromethane	ND	1.0									
Vinyl chloride	ND	1.0									

Qualifiers: ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Northgate Environmental Management, Inc.  
 Work Order: 0306087  
 Project:

**ANALYTICAL QC SUMMARY REPORT**

TestCode: 8260\_W

Sample ID	MBLK	TestCode: 8260_W	Units: µg/L	Prep Date: 6/25/2003	Run ID: VOGCMS1_030625A						
Client ID: ZZZZ	Batch ID: R1649	TestNo: SW8260B		Analysis Date: 6/25/2003	SeqNo: 27640						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Xylenes, Total	ND	1.0									
Surr: 4-Bromofluorobenzene	13.55	0	17.86	0	75.9	75	125	0	0		
Surr: Dibromofluoromethane	15.52	0	17.86	0	86.9	75	125	0	0		
Surr: Toluene-d8	15.22	0	17.86	0	85.2	75	125	0	0		

Sample ID	LCS	TestCode: 8260_W	Units: µg/L	Prep Date: 6/25/2003	Run ID: VOGCMS1_030625A						
Client ID: ZZZZ	Batch ID: R1649	TestNo: SW8260B		Analysis Date: 6/25/2003	SeqNo: 27641						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	14.23	1.0	17.86	0	79.7	70	120	0	0		
Benzene	15.45	1.0	17.86	0	86.5	70	120	0	0		
Chlorobenzene	13.02	1.0	17.86	0	72.9	70	120	0	0		
Toluene	15.08	1.0	17.86	0	84.5	70	120	0	0		
Trichloroethene	17.13	2.0	17.86	0	95.9	70	120	0	0		
Surr: 4-Bromofluorobenzene	13.44	0	17.86	0	75.2	70	120	0	0		
Surr: Dibromofluoromethane	15.83	0	17.86	0	88.6	70	120	0	0		
Surr: Toluene-d8	15.26	0	17.86	0	85.4	70	120	0	0		

Sample ID	LCS	TestCode: 8260_W	Units: µg/L	Prep Date: 6/25/2003	Run ID: VOGCMS1_030625A						
Client ID: ZZZZ	Batch ID: R1649	TestNo: SW8260B		Analysis Date: 6/25/2003	SeqNo: 27642						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	14.85	1.0	17.86	0	83.1	70	120	14.23	4.23	30	
Benzene	15.64	1.0	17.86	0	87.6	70	120	15.45	1.19	30	
Chlorobenzene	13.44	1.0	17.86	0	75.3	70	120	13.02	3.18	30	
Toluene	14.76	1.0	17.86	0	82.7	70	120	15.08	2.16	30	
Trichloroethene	16.72	2.0	17.86	0	93.6	70	120	17.13	2.39	30	
Surr: 4-Bromofluorobenzene	13.4	0	17.86	0	75	70	120	0	0	0	
Surr: Dibromofluoromethane	14.75	0	17.86	0	82.6	70	120	0	0	0	
Surr: Toluene-d8	14.82	0	17.86	0	83	70	120	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Northgate Environmental Management, Inc.  
 Work Order: 0306087  
 Project:

**ANALYTICAL QC SUMMARY REPORT**

TestCode: 8260\_W

Sample ID	0306066-001AMS	SampType:	MS	TestCode:	8260_W	Units:	µg/L	Prep Date:	6/25/2003	Run ID:	VOCGCMS1_030625A
Client ID:	ZZZZZ	Batch ID:	R1649	TestNo:	SW8260B	Analysis Date:	6/26/2003	SeqNo:	27632		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	14.35	1.0	17.86	0	80.3	70	120	0	0		
Benzene	14.04	1.0	17.86	0	78.6	70	120	0	0		
Chlorobenzene	13.22	1.0	17.86	0	74	70	120	0	0		
Toluene	14.07	1.0	17.86	0	78.8	70	120	0	0		
Trichloroethene	15.57	2.0	17.86	0	87.2	70	120	0	0		
Surr: 4-Bromofluorobenzene	12.72	0	17.86	0	71.2	70	120	0	0		
Surr: Dibromofluoromethane	14.86	0	17.86	0	83.2	70	120	0	0		
Surr: Toluene-d8	14.54	0	17.86	0	81.4	70	120	0	0		

Sample ID	0306066-001AMSD	SampType:	MSD	TestCode:	8260_W	Units:	µg/L	Prep Date:	6/25/2003	Run ID:	VOCGCMS1_030625A
Client ID:	ZZZZZ	Batch ID:	R1649	TestNo:	SW8260B	Analysis Date:	6/26/2003	SeqNo:	27633		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	14.16	1.0	17.86	0	79.3	70	120	14.35	1.30	30	
Benzene	15.15	1.0	17.86	0	84.8	70	120	14.04	7.62	30	
Chlorobenzene	13.47	1.0	17.86	0	75.4	70	120	13.22	1.92	30	
Toluene	15.42	1.0	17.86	0	86.3	70	120	14.07	9.12	30	
Trichloroethene	16.59	2.0	17.86	0	92.9	70	120	15.57	6.35	30	
Surr: 4-Bromofluorobenzene	12.76	0	17.86	0	71.4	70	120	0	0	0	
Surr: Dibromofluoromethane	15.33	0	17.86	0	85.8	70	120	0	0	0	
Surr: Toluene-d8	15.37	0	17.86	0	86.1	70	120	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Northgate Environmental Management, Inc.  
 Work Order: 0306087  
 Project:

**ANALYTICAL QC SUMMARY REPORT**

TestCode: TPH\_GAS\_S\_8015B

Sample ID	Blank-1	SampType:	MBLK	TestCode:	TPH_GAS_S	Units:	mg/Kg	Prep Date:	6/24/2003	Run ID:	VOCGC1_030624B			
Client ID:	ZZZZZ	Batch ID:	R1638	TestNo:	SW8015B			Analysis Date:	6/24/2003	SeqNo:	27451			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)		ND		0.100										
Surr: Trifluorotoluene		0.0513		0	0.05	0		103	65	135	0	0		

Sample ID	LCS-1,gas,1 ppm	SampType:	LCS	TestCode:	TPH_GAS_S	Units:	mg/Kg	Prep Date:	6/24/2003	Run ID:	VOCGC1_030624B			
Client ID:	ZZZZZ	Batch ID:	R1638	TestNo:	SW8015B			Analysis Date:	6/24/2003	SeqNo:	27452			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)		0.8334		0.100	1	0		83.3	65	135	0	0		
Surr: Trifluorotoluene		0.0577		0	0.05	0		115	65	135	0	0		

Sample ID	LCSD-1,gas,1 ppm	SampType:	LCSD	TestCode:	TPH_GAS_S	Units:	mg/Kg	Prep Date:	6/24/2003	Run ID:	VOCGC1_030624B			
Client ID:	ZZZZZ	Batch ID:	R1638	TestNo:	SW8015B			Analysis Date:	6/24/2003	SeqNo:	27453			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)		0.9045		0.100	1	0		90.4	65	135	0.8334	8.18	30	
Surr: Trifluorotoluene		0.0564		0	0.05	0		113	65	135	0	0	0	

Sample ID	0306081-002AMS	SampType:	MS	TestCode:	TPH_GAS_S	Units:	mg/Kg	Prep Date:	6/24/2003	Run ID:	VOCGC1_030624B			
Client ID:	ZZZZZ	Batch ID:	R1638	TestNo:	SW8015B			Analysis Date:	6/24/2003	SeqNo:	27443			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)		0.5224		0.100	1	0		52.2	65	135	0	0		S
Surr: Trifluorotoluene		0.0418		0	0.05	0		83.6	65	135	0	0		

Sample ID	0306081-002AMSD	SampType:	MSD	TestCode:	TPH_GAS_S	Units:	mg/Kg	Prep Date:	6/24/2003	Run ID:	VOCGC1_030624B			
Client ID:	ZZZZZ	Batch ID:	R1638	TestNo:	SW8015B			Analysis Date:	6/25/2003	SeqNo:	27444			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)		0.4103		0.100	1	0		41	65	135	0.5224	24.0	30	S
Surr: Trifluorotoluene		0.0358		0	0.05	0		71.6	65	135	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits      B - Analyte detected in the associated Method Blank  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits

CLIENT: Northgate Environmental Management, Inc.  
 Work Order: 0306087  
 Project:

**ANALYTICAL QC SUMMARY REPORT**

TestCode: TPH\_GAS\_W\_8015B

Sample ID: Blank-1	SampType: MBLK	TestCode: TPH_GAS_W	Units: mg/L	Prep Date: 6/25/2003	Run ID: VOCGC1_030625A						
Client ID: ZZZZ	Batch ID: R1648	TestNo: SW8015B		Analysis Date: 6/25/2003	SeqNo: 27623						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Gasoline)	ND	0.100									
Surr: Trifluorotoluene	0.1156	0	0.1	0	116	65	135	0	0		

Sample ID: LCS-1,238.10ppb	SampType: LCS	TestCode: TPH_GAS_W	Units: mg/L	Prep Date: 6/25/2003	Run ID: VOCGC1_030625A						
Client ID: ZZZZ	Batch ID: R1648	TestNo: SW8015B		Analysis Date: 6/25/2003	SeqNo: 27624						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Gasoline)	0.2323	0.100	0.2381	0	97.6	65	135	0	0		
Surr: Trifluorotoluene	0.117	0	0.1	0	117	65	135	0	0		

Sample ID: LCSD-1,238.10ppb	SampType: LCSD	TestCode: TPH_GAS_W	Units: mg/L	Prep Date: 6/25/2003	Run ID: VOCGC1_030625A						
Client ID: ZZZZ	Batch ID: R1648	TestNo: SW8015B		Analysis Date: 6/25/2003	SeqNo: 27625						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Gasoline)	0.238	0.100	0.2381	0	100	65	135	0.2323	2.42	30	
Surr: Trifluorotoluene	0.1231	0	0.1	0	123	65	135	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank



northgate  
environmental  
management, inc.

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

0306087

0306087

Project No.: 1057.05		Project Location: ALAMEDA				Date: 6-24-03		Serial No.:	
Project Name: BRIDGESIDE		Field Logbook No.:						Samplers: JWC	
Sampler (Signature): <i>[Signature]</i>						ANALYSES			
Samples									
Sample No.	Date	Time	Lab Sample No.	No. of Containers	Sample Type	20154 BTEX MTR	VOC 80215	HOLD	RUSH
001A GP-12	6/24	11:15		3	WATER	X			X
002A GP-13	I	0946		3	I	X			X
003A GP-14	I	0810		3	I	X			X
004A GP-12-7.5	6/24			1	SOIL	X			X
005A GP-12-11.5	I			I	I	X			X
006A GP-13-7.5	I			I	I	X			X
007A GP-13-11.5	I			I	I	X			X
008A GP-14-4.5	I			I	I	X			X
009A GP-14-8.5	I			I	I	X			X
Relinquished by: <i>[Signature]</i>		Date	Time	Received By: <i>[Signature]</i>		Date	Time		
(Signature)		6/24		(Signature)		6/24/03	1:51		
Relinquished by:		Date	Time	Received By:		Date	Time		
(Signature)				(Signature)					
Relinquished by:		Date	Time	Received By:		Date	Time		
(Signature)				(Signature)					
Method of Shipment:		Date	Time	Lab Comments:					
				48 Hours					
Sample Collector: Northgate Environmental Management, Inc. 3629 Grand Avenue Oakland, California 94610 (510) 839 0688				Analytical Laboratory:  TORRENT LAB					

Results  
BACK  
THURSDAY  
P.M.  
(48-hr)

**RUSH**

July 09, 2003

Dennis Laduzinsky  
Northgate Environmental Management, Inc.  
3629 Grand Avenue  
Oakland, CA 94610  
TEL: 510-839-0688  
FAX 510-839-4350

RE:

Order No.: 0307012

Dear Dennis Laduzinsky:

Torrent Laboratory, Inc. received 8 samples on 7/7/2003 for the analyses presented in the following report.

All data for associated QC met EPA or Laboratory specification except where noted in the case narative.

Torrent laboratory Inc. is certified by the State of California, ELAP #1991. If you have any question regarding these tests results, please feel free to contact Environmental Coordinator, Ms. Anu Patel at (408)263-5258;ext: 204.

Sincerely,

\_\_\_\_\_  
Laboratory Director

\_\_\_\_\_  
Date



**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 7/7/2003  
Date Reported: 7/9/2003

Client Sample ID: GP-15-1.0	Lab Sample ID: 0307012-001A
Sample Location: Alameda, CA	Date Prepared: 7/8/2003
Sample Matrix: SOIL	
Date/Time Sampled 7/7/2003 8:15:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
1,1,1,2-Tetrachloroethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,1,1-Trichloroethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,1,2,2-Tetrachloroethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,1,2-Trichloroethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,1-Dichloroethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,1-Dichloroethene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,1-Dichloropropene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,2,3-Trichlorobenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,2,3-Trichloropropane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,2,4-Trichlorobenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,2,4-Trimethylbenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,2-Dibromo-3-chloropropane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,2-Dibromoethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,2-Dichlorobenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,2-Dichloroethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,2-Dichloropropane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,3,5-Trimethylbenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,3-Dichlorobenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,3-Dichloropropane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,4-Dichlorobenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
2,2-Dichloropropane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
2-Chloroethyl vinyl ether	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
2-Chlorotoluene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
4-Chlorotoluene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
4-Isopropyltoluene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Benzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Bromobenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Bromochloromethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Bromodichloromethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Bromoform	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Carbon tetrachloride	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Chlorobenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 7/7/2003  
Date Reported: 7/9/2003

Client Sample ID: GP-15-1.0	Lab Sample ID: 0307012-001A
Sample Location: Alameda, CA	Date Prepared: 7/8/2003
Sample Matrix: SOIL	
Date/Time Sampled 7/7/2003 8:15:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Chloroform	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Chloromethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
cis-1,2-Dichloroethene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Dibromochloromethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Dibromomethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Dichlorodifluoromethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Ethyl tert-butyl ether (ETBE)	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Ethylbenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Freon-113	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Hexachlorobutadiene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Isopropyl ether (IPE)	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Isopropylbenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Methyl tert-butyl ether (MTBE)	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Methylene chloride	SW8260B	7/8/2003	50	1	50	ND	µg/Kg
Naphthalene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
n-Butylbenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
n-Propylbenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
sec-Butylbenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Styrene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
t-Butyl alcohol (t-Butanol)	SW8260B	7/8/2003	50	1	50	ND	µg/Kg
tert-Amyl methyl ether (TAME)	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
tert-Butylbenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Tetrachloroethene	SW8260B	7/8/2003	10	1	10	120	µg/Kg
Toluene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
trans-1,2-Dichloroethene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
trans-1,3-Dichloropropene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Trichloroethene	SW8260B	7/8/2003	10	1	10	46	µg/Kg
Trichlorofluoromethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Vinyl chloride	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Xylenes, Total	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Surr: 4-Bromofluorobenzene	SW8260B	7/8/2003	0	1	65-135	63.4	%REC
Surr: Dibromofluoromethane	SW8260B	7/8/2003	0	1	65-135	80.8	%REC

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 7/7/2003  
Date Reported: 7/9/2003

Client Sample ID: GP-15-1.0	Lab Sample ID: 0307012-001A
Sample Location: Alameda, CA	Date Prepared: 7/8/2003
Sample Matrix: SOIL	
Date/Time Sampled 7/7/2003 8:15:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
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Surr: Toluene-d8	SW8260B	7/8/2003	0	1	65-135	78.7	%REC
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Note: Surrogate outside the control limit due to possible matrix interference.

**Certified Analytical Report of  
Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 7/7/2003  
Date Reported: 7/9/2003

<b>Client Sample ID:</b> GP-15-5.0	<b>Lab Sample ID:</b> 0307012-002A
<b>Sample Location:</b> Alameda, CA	<b>Date Prepared:</b> 7/8/2003
<b>Sample Matrix:</b> SOIL	
<b>Date/Time Sampled</b> 7/7/2003 8:25:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
1,1,1,2-Tetrachloroethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,1,1-Trichloroethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,1,2,2-Tetrachloroethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,1,2-Trichloroethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,1-Dichloroethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,1-Dichloroethene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,1-Dichloropropene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,2,3-Trichlorobenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,2,3-Trichloropropane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,2,4-Trichlorobenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,2,4-Trimethylbenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,2-Dibromo-3-chloropropane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,2-Dibromoethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,2-Dichlorobenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,2-Dichloroethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,2-Dichloropropane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,3,5-Trimethylbenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,3-Dichlorobenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,3-Dichloropropane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,4-Dichlorobenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
2,2-Dichloropropane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
2-Chloroethyl vinyl ether	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
2-Chlorotoluene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
4-Chlorotoluene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
4-Isopropyltoluene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Benzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Bromobenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Bromochloromethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Bromodichloromethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Bromoform	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Carbon tetrachloride	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Chlorobenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 7/7/2003  
Date Reported: 7/9/2003

Client Sample ID: GP-15-5.0	Lab Sample ID: 0307012-002A
Sample Location: Alameda, CA	Date Prepared: 7/8/2003
Sample Matrix: SOIL	
Date/Time Sampled 7/7/2003 8:25:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Chloroform	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Chloromethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
cis-1,2-Dichloroethene	SW8260B	7/8/2003	10	1	10	140	µg/Kg
Dibromochloromethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Dibromomethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Dichlorodifluoromethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Ethyl tert-butyl ether (ETBE)	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Ethylbenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Freon-113	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Hexachlorobutadiene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Isopropyl ether (IPE)	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Isopropylbenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Methyl tert-butyl ether (MTBE)	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Methylene chloride	SW8260B	7/8/2003	50	1	50	ND	µg/Kg
Naphthalene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
n-Butylbenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
n-Propylbenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
sec-Butylbenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Styrene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
t-Butyl alcohol (t-Butanol)	SW8260B	7/8/2003	50	1	50	ND	µg/Kg
tert-Amyl methyl ether (TAME)	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
tert-Butylbenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Tetrachloroethene	SW8260B	7/8/2003	10	1	10	130	µg/Kg
Toluene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
trans-1,2-Dichloroethene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
trans-1,3-Dichloropropene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Trichloroethene	SW8260B	7/8/2003	10	1	10	84	µg/Kg
Trichlorofluoromethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Vinyl chloride	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Xylenes, Total	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Surr: 4-Bromofluorobenzene	SW8260B	7/8/2003	0	1	65-135	83.1	%REC
Surr: Dibromofluoromethane	SW8260B	7/8/2003	0	1	65-135	90.3	%REC

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Certified Analytical Report of  
Purgeable Volatile Organics

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 7/7/2003  
Date Reported: 7/9/2003

Client Sample ID:	GP-15-5.0	Lab Sample ID:	0307012-002A
Sample Location:	Alameda, CA	Date Prepared:	7/8/2003
Sample Matrix:	SOIL		
Date/Time Sampled	7/7/2003 8:25:00 AM		

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Surr: Toluene-d8	SW8260B	7/8/2003	0	1	65-135	85.6	%REC

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 7/7/2003

Date Reported: 7/9/2003

Client Sample ID: GP-15	Lab Sample ID: 0307012-003 A
Sample Location: Alameda, CA	Date Prepared: 7/7/2003
Sample Matrix: WATER	
Date/Time Sampled: 7/7/2003 8:40:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
1,1,1,2-Tetrachloroethane	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
1,1,1-Trichloroethane	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
1,1,2,2-Tetrachloroethane	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
1,1,2-Trichloroethane	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
1,1-Dichloroethane	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
1,1-Dichloroethene	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
1,1-Dichloropropene	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
1,2,3-Trichlorobenzene	SW8260B	7/7/2003	5.95	10.5	62	ND	µg/L
1,2,3-Trichloropropane	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
1,2,4-Trichlorobenzene	SW8260B	7/7/2003	5.95	10.5	62	ND	µg/L
1,2,4-Trimethylbenzene	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
1,2-Dibromo-3-chloropropane	SW8260B	7/7/2003	5.95	10.5	62	ND	µg/L
1,2-Dibromoethane	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
1,2-Dichlorobenzene	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
1,2-Dichloroethane	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
1,2-Dichloropropane	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
1,3,5-Trimethylbenzene	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
1,3-Dichlorobenzene	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
1,3-Dichloropropane	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
1,4-Dichlorobenzene	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
2,2-Dichloropropane	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
2-Chloroethyl vinyl ether	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
2-Chlorotoluene	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
4-Chlorotoluene	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
4-Isopropyltoluene	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
Benzene	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
Bromobenzene	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
Bromochloromethane	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
Bromodichloromethane	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
Bromoform	SW8260B	7/7/2003	2	10.5	21	ND	µg/L
Bromomethane	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
Carbon tetrachloride	SW8260B	7/7/2003	1	10.5	10	ND	µg/L

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 7/7/2003  
Date Reported: 7/9/2003

Client Sample ID:	GP-15	Lab Sample ID:	0307012-003A
Sample Location:	Alameda, CA	Date Prepared:	7/7/2003
Sample Matrix:	WATER		
Date/Time Sampled	7/7/2003 8:40:00 AM		

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Chlorobenzene	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
Chloroform	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
Chloromethane	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
cis-1,2-Dichloroethene	SW8260B	7/7/2003	1	10.5	10	270	µg/L
Dibromochloromethane	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
Dibromomethane	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
Dichlorodifluoromethane	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
Ethyl tert-butyl ether (ETBE)	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
Ethylbenzene	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
Freon-113	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
Hexachlorobutadiene	SW8260B	7/7/2003	5.95	10.5	62	ND	µg/L
Isopropyl ether (IPE)	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
Isopropylbenzene	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
Methyl tert-butyl ether (MTBE)	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
Methylene chloride	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
Naphthalene	SW8260B	7/7/2003	5.95	10.5	62	ND	µg/L
n-Butylbenzene	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
n-Propylbenzene	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
sec-Butylbenzene	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
Styrene	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
t-Butyl alcohol (t-Butanol)	SW8260B	7/7/2003	29.76	10.5	310	ND	µg/L
tert-Amyl methyl ether (TAME)	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
tert-Butylbenzene	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
Tetrachloroethene	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
Toluene	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
trans-1,2-Dichloroethene	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
trans-1,3-Dichloropropene	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
Trichloroethene	SW8260B	7/7/2003	2	10.5	21	37	µg/L
Trichlorofluoromethane	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
Vinyl chloride	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
Xylenes, Total	SW8260B	7/7/2003	1	10.5	10	ND	µg/L
Surr: 4-Bromofluorobenzene	SW8260B	7/7/2003	0	10.5	75-125	92.6	%REC

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991



**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 7/7/2003  
Date Reported: 7/9/2003

Client Sample ID: GP-15	Lab Sample ID: 0307012-003A
Sample Location: Alameda, CA	Date Prepared: 7/7/2003
Sample Matrix: WATER	
Date/Time Sampled 7/7/2003 8:40:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Surr: Dibromofluoromethane	SW8260B	7/7/2003	0	10.5	75-125	105	%REC
Surr: Toluene-d8	SW8260B	7/7/2003	0	10.5	75-125	101	%REC

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 7/7/2003

Date Reported: 7/9/2003

Client Sample ID:	GP-16-1.5	Lab Sample ID:	0307012-004A
Sample Location:	Alameda, CA	Date Prepared:	7/9/2003
Sample Matrix:	SOIL		
Date/Time Sampled	7/7/2003 9:05:00 AM		

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
1,1,1,2-Tetrachloroethane	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
1,1,1-Trichloroethane	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
1,1,2,2-Tetrachloroethane	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
1,1,2-Trichloroethane	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
1,1-Dichloroethane	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
1,1-Dichloroethene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
1,1-Dichloropropene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
1,2,3-Trichlorobenzene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
1,2,3-Trichloropropane	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
1,2,4-Trichlorobenzene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
1,2,4-Trimethylbenzene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
1,2-Dibromo-3-chloropropane	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
1,2-Dibromoethane	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
1,2-Dichlorobenzene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
1,2-Dichloroethane	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
1,2-Dichloropropane	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
1,3,5-Trimethylbenzene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
1,3-Dichlorobenzene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
1,3-Dichloropropane	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
1,4-Dichlorobenzene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
2,2-Dichloropropane	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
2-Chloroethyl vinyl ether	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
2-Chlorotoluene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
4-Chlorotoluene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
4-Isopropyltoluene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Benzene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Bromobenzene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Bromochloromethane	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Bromodichloromethane	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Bromoform	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Carbon tetrachloride	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Chlorobenzene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 7/7/2003  
Date Reported: 7/9/2003

Client Sample ID: GP-16-1.5  
Sample Location: Alameda, CA  
Sample Matrix: SOIL  
Date/Time Sampled 7/7/2003 9:05:00 AM

Lab Sample ID: 0307012-004A  
Date Prepared: 7/9/2003

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Chloroform	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Chloromethane	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
cis-1,2-Dichloroethene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Dibromochloromethane	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Dibromomethane	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Dichlorodifluoromethane	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Ethyl tert-butyl ether (ETBE)	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Ethylbenzene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Freon-113	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Hexachlorobutadiene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Isopropyl ether (IPE)	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Isopropylbenzene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Methyl tert-butyl ether (MTBE)	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Methylene chloride	SW8260B	7/9/2003	50	100	5000	ND	µg/Kg
Naphthalene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
n-Butylbenzene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
n-Propylbenzene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
sec-Butylbenzene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Styrene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
t-Butyl alcohol (t-Butanol)	SW8260B	7/9/2003	50	100	5000	ND	µg/Kg
tert-Amyl methyl ether (TAME)	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
tert-Butylbenzene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Tetrachloroethene	SW8260B	7/9/2003	10	100	1000	7900	µg/Kg
Toluene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
trans-1,2-Dichloroethene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
trans-1,3-Dichloropropene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Trichloroethene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Trichlorofluoromethane	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Vinyl chloride	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Xylenes, Total	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Surr: 4-Bromofluorobenzene	SW8260B	7/9/2003	0	100	65-135	71.9	%REC
Surr: Dibromofluoromethane	SW8260B	7/9/2003	0	100	65-135	74.1	%REC

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 7/7/2003  
Date Reported: 7/9/2003

Client Sample ID:	GP-16-1.5	Lab Sample ID:	0307012-004A
Sample Location:	Alameda, CA	Date Prepared:	7/9/2003
Sample Matrix:	SOIL		
Date/Time Sampled	7/7/2003 9:05:00 AM		

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Surr: Toluene-d8	SW8260B	7/9/2003	0	100	65-135	83.2	%REC

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 7/7/2003  
Date Reported: 7/9/2003

Client Sample ID:	GP-16-5.0	Lab Sample ID:	0307012-005A
Sample Location:	Alameda, CA	Date Prepared:	7/8/2003
Sample Matrix:	SOIL		
Date/Time Sampled	7/7/2003 9:20:00 AM		

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
1,1,1,2-Tetrachloroethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,1,1-Trichloroethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,1,2,2-Tetrachloroethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,1,2-Trichloroethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,1-Dichloroethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,1-Dichloroethene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,1-Dichloropropene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,2,3-Trichlorobenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,2,3-Trichloropropane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,2,4-Trichlorobenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,2,4-Trimethylbenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,2-Dibromo-3-chloropropane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,2-Dibromoethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,2-Dichlorobenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,2-Dichloroethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,2-Dichloropropane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,3,5-Trimethylbenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,3-Dichlorobenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,3-Dichloropropane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,4-Dichlorobenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
2,2-Dichloropropane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
2-Chloroethyl vinyl ether	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
2-Chlorotoluene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
4-Chlorotoluene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
4-Isopropyltoluene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Benzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Bromobenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Bromochloromethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Bromodichloromethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Bromoform	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Carbon tetrachloride	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Chlorobenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 7/7/2003  
Date Reported: 7/9/2003

Client Sample ID:	GP-16-5.0	Lab Sample ID:	0307012-005A
Sample Location:	Alameda, CA	Date Prepared:	7/8/2003
Sample Matrix:	SOIL		
Date/Time Sampled	7/7/2003 9:20:00 AM		

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Chloroform	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Chloromethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
cis-1,2-Dichloroethene	SW8260B	7/8/2003	10	1	10	94	µg/Kg
Dibromochloromethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Dibromomethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Dichlorodifluoromethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Ethyl tert-butyl ether (ETBE)	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Ethylbenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Freon-113	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Hexachlorobutadiene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Isopropyl ether (IPE)	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Isopropylbenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Methyl tert-butyl ether (MTBE)	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Methylene chloride	SW8260B	7/8/2003	50	1	50	ND	µg/Kg
Naphthalene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
n-Butylbenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
n-Propylbenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
sec-Butylbenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Styrene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
t-Butyl alcohol (t-Butanol)	SW8260B	7/8/2003	50	1	50	ND	µg/Kg
tert-Amyl methyl ether (TAME)	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
tert-Butylbenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Tetrachloroethene	SW8260B	7/8/2003	10	1	10	13	µg/Kg
Toluene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
trans-1,2-Dichloroethene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
trans-1,3-Dichloropropene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Trichloroethene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Trichlorofluoromethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Vinyl chloride	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Xylenes, Total	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Surr: 4-Bromofluorobenzene	SW8260B	7/8/2003	0	1	65-135	62.0	%REC
Surr: Dibromofluoromethane	SW8260B	7/8/2003	0	1	65-135	98.6	%REC

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 7/7/2003  
Date Reported: 7/9/2003

Client Sample ID: GP-16-5.0  
Sample Location: Alameda, CA  
Sample Matrix: SOIL  
Date/Time Sampled 7/7/2003 9:20:00 AM

Lab Sample ID: 0307012-005A  
Date Prepared: 7/8/2003

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
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Surr: Toluene-d8	SW8260B	7/8/2003	0	1	65-135	84.4	%REC
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Note: Surrogate outside the control limit due to possible matrix interference.

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 7/7/2003  
Date Reported: 7/9/2003

Client Sample ID: GP-17-1.0	Lab Sample ID: 0307012-006A
Sample Location: Alameda, CA	Date Prepared: 7/9/2003
Sample Matrix: SOIL	
Date/Time Sampled 7/7/2003 10:00:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
1,1,1,2-Tetrachloroethane	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
1,1,1-Trichloroethane	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
1,1,2,2-Tetrachloroethane	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
1,1,2-Trichloroethane	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
1,1-Dichloroethane	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
1,1-Dichloroethene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
1,1-Dichloropropene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
1,2,3-Trichlorobenzene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
1,2,3-Trichloropropane	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
1,2,4-Trichlorobenzene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
1,2,4-Trimethylbenzene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
1,2-Dibromo-3-chloropropane	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
1,2-Dibromoethane	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
1,2-Dichlorobenzene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
1,2-Dichloroethane	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
1,2-Dichloropropane	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
1,3,5-Trimethylbenzene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
1,3-Dichlorobenzene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
1,3-Dichloropropane	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
1,4-Dichlorobenzene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
2,2-Dichloropropane	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
2-Chloroethyl vinyl ether	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
2-Chlorotoluene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
4-Chlorotoluene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
4-Isopropyltoluene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Benzene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Bromobenzene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Bromochloromethane	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Bromodichloromethane	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Bromoform	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Carbon tetrachloride	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Chlorobenzene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991



**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 7/7/2003  
Date Reported: 7/9/2003

Client Sample ID:	GP-17-1.0	Lab Sample ID:	0307012-006A
Sample Location:	Alameda, CA	Date Prepared:	7/9/2003
Sample Matrix:	SOIL		
Date/Time Sampled	7/7/2003 10:00:00 AM		

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Chloroform	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Chloromethane	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
cis-1,2-Dichloroethene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Dibromochloromethane	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Dibromomethane	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Dichlorodifluoromethane	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Ethyl tert-butyl ether (ETBE)	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Ethylbenzene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Freon-113	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Hexachlorobutadiene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Isopropyl ether (IPE)	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Isopropylbenzene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Methyl tert-butyl ether (MTBE)	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Methylene chloride	SW8260B	7/9/2003	50	100	5000	ND	µg/Kg
Naphthalene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
n-Butylbenzene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
n-Propylbenzene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
sec-Butylbenzene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Styrene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
t-Butyl alcohol (t-Butanol)	SW8260B	7/9/2003	50	100	5000	ND	µg/Kg
tert-Amyl methyl ether (TAME)	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
tert-Butylbenzene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Tetrachloroethene	SW8260B	7/9/2003	10	100	1000	2900	µg/Kg
Toluene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
trans-1,2-Dichloroethene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
trans-1,3-Dichloropropene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Trichloroethene	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Trichlorofluoromethane	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Vinyl chloride	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Xylenes, Total	SW8260B	7/9/2003	10	100	1000	ND	µg/Kg
Surr: 4-Bromofluorobenzene	SW8260B	7/9/2003	0	100	65-135	69.5	%REC
Surr: Dibromofluoromethane	SW8260B	7/9/2003	0	100	65-135	78.9	%REC

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 7/7/2003  
Date Reported: 7/9/2003

Client Sample ID:	GP-17-1.0	Lab Sample ID:	0307012-006A
Sample Location:	Alameda, CA	Date Prepared:	7/9/2003
Sample Matrix:	SOIL		
Date/Time Sampled	7/7/2003 10:00:00 AM		

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Surr: Toluene-d8	SW8260B	7/9/2003	0	100	65-135	88.1	%REC

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 7/7/2003  
Date Reported: 7/9/2003

Client Sample ID:	GP-17-5.0	Lab Sample ID:	0307012-007A
Sample Location:	Alameda, CA	Date Prepared:	7/8/2003
Sample Matrix:	SOIL		
Date/Time Sampled	7/7/2003 10:15:00 AM		

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
1,1,1,2-Tetrachloroethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,1,1-Trichloroethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,1,2,2-Tetrachloroethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,1,2-Trichloroethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,1-Dichloroethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,1-Dichloroethene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,1-Dichloropropene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,2,3-Trichlorobenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,2,3-Trichloropropane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,2,4-Trichlorobenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,2,4-Trimethylbenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,2-Dibromo-3-chloropropane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,2-Dibromoethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,2-Dichlorobenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,2-Dichloroethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,2-Dichloropropane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,3,5-Trimethylbenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,3-Dichlorobenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,3-Dichloropropane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
1,4-Dichlorobenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
2,2-Dichloropropane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
2-Chloroethyl vinyl ether	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
2-Chlorotoluene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
4-Chlorotoluene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
4-Isopropyltoluene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Benzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Bromobenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Bromochloromethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Bromodichloromethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Bromoform	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Carbon tetrachloride	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Chlorobenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg

These analyses were performed according to State of California Environmental Laboratory  
Accreditation program, Certificate # 1991

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 7/7/2003  
Date Reported: 7/9/2003

<b>Client Sample ID:</b> GP-17-5.0	<b>Lab Sample ID:</b> 0307012-007A
<b>Sample Location:</b> Alameda, CA	<b>Date Prepared:</b> 7/8/2003
<b>Sample Matrix:</b> SOIL	
<b>Date/Time Sampled</b> 7/7/2003 10:15:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Chloroform	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Chloromethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
cis-1,2-Dichloroethene	SW8260B	7/8/2003	10	1	10	52	µg/Kg
Dibromochloromethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Dibromomethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Dichlorodifluoromethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Ethyl tert-butyl ether (ETBE)	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Ethylbenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Freon-113	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Hexachlorobutadiene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Isopropyl ether (IPE)	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Isopropylbenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Methyl tert-butyl ether (MTBE)	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Methylene chloride	SW8260B	7/8/2003	50	1	50	ND	µg/Kg
Naphthalene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
n-Butylbenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
n-Propylbenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
sec-Butylbenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Styrene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
t-Butyl alcohol (t-Butanol)	SW8260B	7/8/2003	50	1	50	ND	µg/Kg
tert-Amyl methyl ether (TAME)	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
tert-Butylbenzene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Tetrachloroethene	SW8260B	7/8/2003	10	1	10	37	µg/Kg
Toluene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
trans-1,2-Dichloroethene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
trans-1,3-Dichloropropene	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Trichloroethene	SW8260B	7/8/2003	10	1	10	130	µg/Kg
Trichlorofluoromethane	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Vinyl chloride	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Xylenes, Total	SW8260B	7/8/2003	10	1	10	ND	µg/Kg
Surr: 4-Bromofluorobenzene	SW8260B	7/8/2003	0	1	65-135	76.4	%REC
Surr: Dibromofluoromethane	SW8260B	7/8/2003	0	1	65-135	96.0	%REC

These analyses were performed according to State of California Environmental Laboratory  
Accreditation program, Certificate # 1991

Certified Analytical Report of  
Purgeable Volatile Organics

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 7/7/2003  
Date Reported: 7/9/2003

Client Sample ID: GP-17-5.0	Lab Sample ID: 0307012-007A
Sample Location: Alameda, CA	Date Prepared: 7/8/2003
Sample Matrix: SOIL	
Date/Time Sampled 7/7/2003 10:15:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Surr: Toluene-d8	SW8260B	7/8/2003	0	1	65-135	88.3	%REC

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
 Northgate Environmental Management, Inc.

Date Received: 7/7/2003  
 Date Reported: 7/9/2003

Client Sample ID:	GP-17	Lab Sample ID:	0307012-008A
Sample Location:	Alameda, CA	Date Prepared:	7/7/2003
Sample Matrix:	WATER		
Date/Time Sampled	7/7/2003 10:45:00 AM		

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
1,1,1,2-Tetrachloroethane	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
1,1,1-Trichloroethane	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
1,1,2,2-Tetrachloroethane	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
1,1,2-Trichloroethane	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
1,1-Dichloroethane	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
1,1-Dichloroethene	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
1,1-Dichloropropene	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
1,2,3-Trichlorobenzene	SW8260B	7/7/2003	5.95	1	6.0	ND	µg/L
1,2,3-Trichloropropane	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
1,2,4-Trichlorobenzene	SW8260B	7/7/2003	5.95	1	6.0	ND	µg/L
1,2,4-Trimethylbenzene	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
1,2-Dibromo-3-chloropropane	SW8260B	7/7/2003	5.95	1	6.0	ND	µg/L
1,2-Dibromoethane	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
1,2-Dichlorobenzene	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
1,2-Dichloroethane	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
1,2-Dichloropropane	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
1,3,5-Trimethylbenzene	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
1,3-Dichlorobenzene	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
1,3-Dichloropropane	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
1,4-Dichlorobenzene	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
2,2-Dichloropropane	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
2-Chloroethyl vinyl ether	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
2-Chlorotoluene	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
4-Chlorotoluene	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
4-Isopropyltoluene	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
Benzene	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
Bromobenzene	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
Bromochloromethane	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
Bromodichloromethane	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
Bromoform	SW8260B	7/7/2003	2	1	2.0	ND	µg/L
Bromomethane	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
Carbon tetrachloride	SW8260B	7/7/2003	1	1	1.0	ND	µg/L

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

**Certified Analytical Report of**  
**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 7/7/2003  
Date Reported: 7/9/2003

Client Sample ID: GP-17	Lab Sample ID: 0307012-008A
Sample Location: Alameda, CA	Date Prepared: 7/7/2003
Sample Matrix: WATER	
Date/Time Sampled 7/7/2003 10:45:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Chlorobenzene	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
Chloroform	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
Chloromethane	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
cis-1,2-Dichloroethene	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
Dibromochloromethane	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
Dibromomethane	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
Dichlorodifluoromethane	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
Ethyl tert-butyl ether (ETBE)	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
Ethylbenzene	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
Freon-113	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
Hexachlorobutadiene	SW8260B	7/7/2003	5.95	1	6.0	ND	µg/L
Isopropyl ether (IPE)	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
Isopropylbenzene	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
Methyl tert-butyl ether (MTBE)	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
Methylene chloride	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
Naphthalene	SW8260B	7/7/2003	5.95	1	6.0	ND	µg/L
n-Butylbenzene	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
n-Propylbenzene	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
sec-Butylbenzene	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
Styrene	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
t-Butyl alcohol (t-Butanol)	SW8260B	7/7/2003	29.76	1	30	ND	µg/L
tert-Amyl methyl ether (TAME)	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
tert-Butylbenzene	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
Tetrachloroethene	SW8260B	7/7/2003	1	1	1.0	1.7	µg/L
Toluene	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
trans-1,2-Dichloroethene	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
trans-1,3-Dichloropropene	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
Trichloroethene	SW8260B	7/7/2003	2	1	2.0	ND	µg/L
Trichlorofluoromethane	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
Vinyl chloride	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
Xylenes, Total	SW8260B	7/7/2003	1	1	1.0	ND	µg/L
Surr: 4-Bromofluorobenzene	SW8260B	7/7/2003	0	1	75-125	93.5	%REC

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

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**Purgeable Volatile Organics**

Report prepared for: Dennis Laduzinsky  
Northgate Environmental Management, Inc.

Date Received: 7/7/2003  
Date Reported: 7/9/2003

Client Sample ID: GP-17	Lab Sample ID: 0307012-008A
Sample Location: Alameda, CA	Date Prepared: 7/7/2003
Sample Matrix: WATER	
Date/Time Sampled 7/7/2003 10:45:00 AM	

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units
Surr: Dibromofluoromethane	SW8260B	7/7/2003	0	1	75-125	107	%REC
Surr: Toluene-d8	SW8260B	7/7/2003	0	1	75-125	104	%REC



Definitions, legends and Notes

Note	Description
ug/kg	Microgram per kilogram (ppb, part per billion).
ug/L	Microgram per liter (ppb, part per billion).
mg/kg	Milligram per kilogram (ppm, part per million).
mg/L	Milligram per liter (ppm, part per million).
LCS/LCSD	Laboratory control sample/laboratory control sample duplicate.
MDL	Method detection limit.
MRL	Modified reporting limit. When sample is subject to dilution, reporting limit times dilution factor yields MRL.
MS/MSD	Matrix spike/matrix spike duplicate.
N/A	Not applicable.
ND	Not detected at or above detection limit.
NR	Not reported.
QC	Quality Control.
RL	Reporting limit.
% RPD	Percent relative difference.
a	pH was measured immediately upon the receipt of the sample, but it was still done outside the holding time.
sub	Analyzed by subcontracting laboratory, Lab Certificate #

Torrent Laboratory, Inc.

Date: 09-Jul-03

CLIENT: Northgate Environmental Management, Inc.  
Work Order: 0307012  
Project:

**ANALYTICAL QC SUMMARY REPORT**

TestCode: 8260\_S

Sample ID	Blank-1D	SampType: MBLK	TestCode: 8260_S	Units: µg/Kg	Prep Date: 7/8/2003	Run ID: VCGCMS1_030708B					
Client ID: ZZZZ		Batch ID: R1711	TestNo: SW8260B		Analysis Date: 7/8/2003	SeqNo: 28426					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1,2-Tetrachloroethane	ND	10									
1,1,1-Trichloroethane	ND	10									
1,1,2,2-Tetrachloroethane	ND	10									
1,1,2-Trichloroethane	ND	10									
1,1-Dichloroethane	ND	10									
1,1-Dichloroethene	ND	10									
1,1-Dichloropropene	ND	10									
1,2,3-Trichlorobenzene	ND	10									
1,2,3-Trichloropropane	ND	10									
1,2,4-Trichlorobenzene	ND	10									
1,2,4-Trimethylbenzene	ND	10									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	10									
1,2-Dichlorobenzene	ND	10									
1,2-Dichloroethane	ND	10									
1,2-Dichloropropane	ND	10									
1,3,5-Trimethylbenzene	ND	10									
1,3-Dichlorobenzene	ND	10									
1,3-Dichloropropane	ND	10									
1,4-Dichlorobenzene	ND	10									
2,2-Dichloropropane	ND	10									
2-Chloroethyl vinyl ether	ND	10									
2-Chlorotoluene	ND	10									
4-Chlorotoluene	ND	10									
4-Isopropyltoluene	ND	10									
Benzene	ND	10									
Bromobenzene	ND	10									
Bromochloromethane	ND	10									
Bromodichloromethane	ND	10									
Bromoform	ND	10									

Qualifiers: ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Northgate Environmental Management, Inc.  
 Work Order: 0307012  
 Project:

**ANALYTICAL QC SUMMARY REPORT**

TestCode: 8260\_S

Sample ID	Blank-1D	SampType: MBLK	TestCode: 8260_S	Units: µg/Kg	Prep Date: 7/8/2003	Run ID: VOCCMS1_030708B					
Client ID:	ZZZZZ	Batch ID: R1711	TestNo: SW8260B		Analysis Date: 7/8/2003	SeqNo: 28426					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Carbon tetrachloride	ND	10									
Chlorobenzene	ND	10									
Chloroform	ND	10									
Chloromethane	ND	10									
cis-1,2-Dichloroethene	ND	10									
Dibromochloromethane	ND	10									
Dibromomethane	ND	10									
Dichlorodifluoromethane	ND	10									
Ethyl tert-butyl ether (ETBE)	ND	10									
Ethylbenzene	ND	10									
Freon-113	ND	10									
Hexachlorobutadiene	ND	10									
isopropyl ether (IPE)	ND	10									
isopropylbenzene	ND	10									
Methyl tert-butyl ether (MTBE)	ND	10									
Methylene chloride	ND	50									
Naphthalene	ND	10									
n-Butylbenzene	ND	10									
n-Propylbenzene	ND	10									
sec-Butylbenzene	ND	10									
Styrene	ND	10									
t-Butyl alcohol (t-Butanol)	ND	50									
tert-Amyl methyl ether (TAME)	ND	10									
tert-Butylbenzene	ND	10									
Tetrachloroethene	ND	10									
Toluene	ND	10									
trans-1,2-Dichloroethene	ND	10									
trans-1,3-Dichloropropene	ND	10									
Trichloroethene	ND	10									
Trichlorofluoromethane	ND	10									
Vinyl chloride	ND	10									

Qualifiers: ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Northgate Environmental Management, Inc.  
 Work Order: 0307012  
 Project:

**ANALYTICAL QC SUMMARY REPORT**

TestCode: 8260\_S

Sample ID	Blank-1D	SampType: MBLK	TestCode: 8260_S	Units: µg/Kg	Prep Date: 7/8/2003	Run ID: VOCGCMS1_030708B
Client ID:	ZZZZZ	Batch ID: R1711	TestNo: SW8260B		Analysis Date: 7/8/2003	SeqNo: 28426

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Xylenes, Total	ND	10									
Surr: 4-Bromofluorobenzene	27.97	0	35.72	0	78.3	65	135	0	0		
Surr: Dibromofluoromethane	29.09	0	35.72	0	81.4	65	135	0	0		
Surr: Toluene-d8	29.73	0	35.72	0	83.2	65	135	0	0		

Sample ID	LCS-1	SampType: LCS	TestCode: 8260_S	Units: µg/Kg	Prep Date: 7/8/2003	Run ID: VOCGCMS1_030708B
Client ID:	ZZZZZ	Batch ID: R1711	TestNo: SW8260B		Analysis Date: 7/8/2003	SeqNo: 28427

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	120.2	10	150	0	80.2	70	130	0	0		
Benzene	136.6	10	150	0	91	70	130	0	0		
Chlorobenzene	137.1	10	150	0	91.4	70	130	0	0		
Toluene	133.4	10	150	0	88.9	70	130	0	0		
Trichloroethene	166.6	10	150	0	111	70	130	0	0		
Surr: 4-Bromofluorobenzene	25.41	0	35.72	0	71.1	65	135	0	0		
Surr: Dibromofluoromethane	27.58	0	35.72	0	77.2	65	135	0	0		
Surr: Toluene-d8	24.68	0	35.72	0	69.1	65	135	0	0		

Sample ID	LCSD-1	SampType: LCSD	TestCode: 8260_S	Units: µg/Kg	Prep Date: 7/8/2003	Run ID: VOCGCMS1_030708B
Client ID:	ZZZZZ	Batch ID: R1711	TestNo: SW8260B		Analysis Date: 7/8/2003	SeqNo: 28428

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	126.3	10	150	0	84.2	70	130	120.2	4.90	30	
Benzene	138.3	10	150	0	92.2	70	130	136.6	1.30	30	
Chlorobenzene	154.7	10	150	0	103	70	130	137.1	12.1	30	
Toluene	156.1	10	150	0	104	70	130	133.4	15.7	30	
Trichloroethene	175.2	10	150	0	117	70	130	166.6	5.03	30	
Surr: 4-Bromofluorobenzene	25.98	0	35.72	0	72.7	65	135	0	0	0	
Surr: Dibromofluoromethane	28.69	0	35.72	0	80.3	65	135	0	0	0	
Surr: Toluene-d8	28.74	0	35.72	0	80.5	65	135	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank  
 Page 3 of 7

CLIENT: Northgate Environmental Management, Inc.  
 Work Order: 0307012  
 Project:

**ANALYTICAL QC SUMMARY REPORT**

TestCode: 8260\_W

Sample ID: Blank-2	SampType: MBLK	TestCode: 8260_W	Units: µg/L	Prep Date: 7/7/2003	Run ID: VOCCGMS1_030708A						
Client ID: ZZZZZ	Batch ID: R1708	TestNo: SW8260B		Analysis Date: 7/7/2003	SeqNo: 28408						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1,2-Tetrachloroethane	ND	1.0									
1,1,1-Trichloroethane	ND	1.0									
1,1,2,2-Tetrachloroethane	ND	1.0									
1,1,2-Trichloroethane	ND	1.0									
1,1-Dichloroethane	ND	1.0									
1,1-Dichloroethene	ND	1.0									
1,1-Dichloropropene	ND	1.0									
1,2,3-Trichlorobenzene	1.203	6.0									J
1,2,3-Trichloropropane	ND	1.0									
1,2,4-Trichlorobenzene	ND	6.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,2-Dibromo-3-chloropropane	ND	6.0									
1,2-Dibromoethane	ND	1.0									
1,2-Dichlorobenzene	ND	1.0									
1,2-Dichloroethane	ND	1.0									
1,2-Dichloropropane	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,3-Dichlorobenzene	ND	1.0									
1,3-Dichloropropane	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
2,2-Dichloropropane	ND	1.0									
2-Chloroethyl vinyl ether	ND	1.0									
2-Chlorotoluene	ND	1.0									
4-Chlorotoluene	ND	1.0									
4-Isopropyltoluene	ND	1.0									
Benzene	ND	1.0									
Bromobenzene	ND	1.0									
Bromochloromethane	ND	1.0									
Bromodichloromethane	ND	1.0									
Bromoform	ND	2.0									
Bromomethane	ND	1.0									

Qualifiers: ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Northgate Environmental Management, Inc.  
 Work Order: 0307012  
 Project:

**ANALYTICAL QC SUMMARY REPORT**

TestCode: 8260\_W

Sample ID	Blank-2	SampType: MBLK	TestCode: 8260_W	Units: µg/L	Prep Date: 7/7/2003	Run ID: VOCGMS1_030708A					
Client ID: ZZZZ	Batch ID: R1708	TestNo: SW8260B	Analysis Date: 7/7/2003	SeqNo: 28408							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon tetrachloride	ND	1.0									
Chlorobenzene	ND	1.0									
Chloroform	ND	1.0									
Chloromethane	ND	1.0									
cis-1,2-Dichloroethene	ND	1.0									
Dibromochloromethane	ND	1.0									
Dibromomethane	ND	1.0									
Dichlorodifluoromethane	ND	1.0									
Ethyl tert-butyl ether (ETBE)	ND	1.0									
Ethylbenzene	ND	1.0									
Freon-113	ND	1.0									
Hexachlorobutadiene	1.029	6.0									J
sopropyl ether (IPE)	ND	1.0									
Isopropylbenzene	ND	1.0									
Methyl tert-butyl ether (MTBE)	ND	1.0									
Methylene chloride	ND	1.0									
Naphthalene	2.093	6.0									J
n-Butylbenzene	ND	1.0									
n-Propylbenzene	ND	1.0									
sec-Butylbenzene	ND	1.0									
Styrene	ND	1.0									
t-Butyl alcohol (t-Butanol)	ND	30									
tert-Amyl methyl ether (TAME)	ND	1.0									
tert-Butylbenzene	ND	1.0									
Tetrachloroethene	ND	1.0									
Toluene	ND	1.0									
trans-1,2-Dichloroethene	ND	1.0									
trans-1,3-Dichloropropene	ND	1.0									
Trichloroethene	ND	2.0									
Trichlorofluoromethane	ND	1.0									
Vinyl chloride	ND	1.0									

Qualifiers: ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Northgate Environmental Management, Inc.  
 Work Order: 0307012  
 Project:

**ANALYTICAL QC SUMMARY REPORT**

TestCode: 8260\_W

Sample ID	Blank-2	SampType: MBLK	TestCode: 8260_W	Units: µg/L	Prep Date: 7/7/2003	Run ID: VOCGCMS1_030708A					
Client ID: ZZZZZ	Batch ID: R1708	TestNo: SW8260B	Analysis Date: 7/7/2003	SeqNo: 28408							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Xylenes, Total	ND	1.0									
Surr: 4-Bromofluorobenzene	14.99	0	17.86	0	83.9	75	125	0	0		
Surr: Dibromofluoromethane	16.97	0	17.86	0	95	75	125	0	0		
Surr: Toluene-d8	16.63	0	17.86	0	93.1	75	125	0	0		

Sample ID	LCS-1, 17.86 ppb	SampType: LCS	TestCode: 8260_W	Units: µg/L	Prep Date: 7/7/2003	Run ID: VOCGCMS1_030708A					
Client ID: ZZZZZ	Batch ID: R1708	TestNo: SW8260B	Analysis Date: 7/7/2003	SeqNo: 28409							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	16.27	1.0	17.86	0	91.1	75	125	0	0		
Benzene	17.55	1.0	17.86	0	98.2	75	125	0	0		
Chlorobenzene	17.75	1.0	17.86	0	99.4	75	125	0	0		
Toluene	18.92	1.0	17.86	0	106	75	125	0	0		
Trichloroethene	19.91	2.0	17.86	0	111	75	125	0	0		
Surr: 4-Bromofluorobenzene	15.94	0	17.86	0	89.3	75	125	0	0		
Surr: Dibromofluoromethane	16.78	0	17.86	0	94	75	125	0	0		
Surr: Toluene-d8	17.64	0	17.86	0	98.8	75	125	0	0		

Sample ID	LCSD-1, 17.86 ppb	SampType: LCSD	TestCode: 8260_W	Units: µg/L	Prep Date: 7/7/2003	Run ID: VOCGCMS1_030708A					
Client ID: ZZZZZ	Batch ID: R1708	TestNo: SW8260B	Analysis Date: 7/7/2003	SeqNo: 28410							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	15.8	1.0	17.86	0	88.4	75	125	16.27	2.96	30	
Benzene	17.85	1.0	17.86	0	99.9	75	125	17.55	1.70	30	
Chlorobenzene	17.08	1.0	17.86	0	95.6	75	125	17.75	3.83	30	
Toluene	18.69	1.0	17.86	0	105	75	125	18.92	1.22	30	
Trichloroethene	20.08	2.0	17.86	0	112	75	125	19.91	0.830	30	
Surr: 4-Bromofluorobenzene	15.88	0	17.86	0	88.9	75	125	0	0	0	
Surr: Dibromofluoromethane	17.02	0	17.86	0	95.3	75	125	0	0	0	
Surr: Toluene-d8	17.4	0	17.86	0	97.4	75	125	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits      B - Analyte detected in the associated Method Blank  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits

CLIENT: Northgate Environmental Management, Inc.  
 Work Order: 0307012  
 Project:

**ANALYTICAL QC SUMMARY REPORT**

TestCode: 8260\_W

Sample ID	0307010-001AMS	SampType: MS	TestCode: 8260_W	Units: µg/L	Prep Date: 7/7/2003	Run ID: VOCGMS1_030708A					
Client ID:	ZZZZ	Batch ID: R1708	TestNo: SW8260B		Analysis Date: 7/7/2003	SeqNo: 28412					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	16.69	1.0	17.86	0	93.4	75	125	0	0		
Benzene	20.44	1.0	17.86	0	114	75	125	0	0		
Chlorobenzene	17.84	1.0	17.86	0	99.9	75	125	0	0		
Toluene	19.41	1.0	17.86	0	109	75	125	0	0		
Trichloroethene	21.5	2.0	17.86	0	120	75	125	0	0		
Surr: 4-Bromofluorobenzene	16.5	0	17.86	0	92.4	75	125	0	0		
Surr: Dibromofluoromethane	18.66	0	17.86	0	104	75	125	0	0		
Surr: Toluene-d8	18.71	0	17.86	0	105	75	125	0	0		

Sample ID	0307010-001AMS	SampType: MSD	TestCode: 8260_W	Units: µg/L	Prep Date: 7/7/2003	Run ID: VOCGMS1_030708A					
Client ID:	ZZZZ	Batch ID: R1708	TestNo: SW8260B		Analysis Date: 7/8/2003	SeqNo: 28413					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	16.7	1.0	17.86	0	93.5	75	125	16.69	0.0859	30	
Benzene	19.74	1.0	17.86	0	111	75	125	20.44	3.49	30	
Chlorobenzene	18.45	1.0	17.86	0	103	75	125	17.84	3.35	30	
Toluene	19.21	1.0	17.86	0	108	75	125	19.41	1.03	30	
Trichloroethene	21	2.0	17.86	0	118	75	125	21.5	2.35	30	
Surr: 4-Bromofluorobenzene	16.63	0	17.86	0	93.1	75	125	0	0	0	
Surr: Dibromofluoromethane	17.93	0	17.86	0	100	75	125	0	0	0	
Surr: Toluene-d8	17.81	0	17.86	0	99.7	75	125	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank





northgate  
environmental  
management, inc.

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

03070012

Project No.: 1057.05		Project Location: Alameda, CA		Date: 7/7/03		Serial No.: 0501			
Project Name: Bridgeville		Field Logbook No.:		ANALYSES		Samplers: THB			
Sampler (Signature) Taylor Bennett				Samples				REMARKS	
Sample No.	Date	Time	Lab Sample No.	No. of Containers	Sample Type	8216	VOCs	HOLD	RUSH
001A GP-15-1.0	7/7/03	8:15		1	soil	X			X
GP-15-3.5	7/7/03	8:25		1	↓			X	
002A GP-15-5.0	7/7/03	8:25		1	↓	X			X
003A GP-15	7/7/03	8:40		3	water	X			X
004A GP-16-1.5	7/7/03	9:05		1	soil	X			X
005A GP-16-5.0	7/7/03	9:20		1	↓	X			X
006A GP-17-1.0	7/7/03	10:00		1	↓	X			X
GP-17-1.5	7/7/03	10:00		1	↓			X	
GP-17-2.0	7/7/03	10:00		1	↓			X	
GP-17-2.5	7/7/03	10:00		1	↓			X	
007A GP-17-5.0	7/7/03	10:15		1	↓	X			X
008A GP-17	7/7/03	10:45		1	water	X			X
Relinquished by: Taylor Bennett			Date: 7/7/03	Time: 2:40	Received By: Frank Amis			Date: 7/7/03	Time: 2:40
Relinquished by:			Date:	Time:	Received By:			Date:	Time:
Relinquished by:			Date:	Time:	Received By:			Date:	Time:
Method of Shipment:			Date:	Time:	Lab Comments:				
Sample Collector: Northgate Environmental Management, Inc. 3629 Grand Avenue Oakland, California 94610 (510) 839 0688					Analytical Laboratory:				

Rush 48-hr TAT  
Send results to Dennis Laduzinsky  
48 hr RUSH

**ACUMEN**

**INDUSTRIAL HYGIENE INC**

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July 10, 2003

Mr. Dennis Laduzinsky  
Northgate Environmental Management, Inc.  
3629 Grand Avenue  
Oakland, CA 94610

**RE: Asbestos Investigation**  
Bridgeside Shopping Center  
2500 - 2691 Blanding Ave.  
Alameda, CA  
Acumen Project No. NEM 2305

Dear Dennis:

The purpose of this letter is to report and discuss the findings of an asbestos inspection we conducted at the above referenced facility on June 10, 2003 and July 7, 2003. The objectives of this investigation were as follows:

- To identify regulated asbestos containing materials (RACMs), defined by Bay Area Air Quality Management District (BAAQMD). RACMs need to be removed if they are to be impacted by building renovation and before the building can be demolished.
- To identify other asbestos containing materials that would require compliance with Cal-OSHA asbestos regulations.

**1.0 Summary of Investigation**

This inspection consisted of a walkthrough of the three buildings on the property to identify and sample suspect asbestos containing materials (ACM) in vacant spaces. Occupied spaces were excluded from this investigation. The spaces investigated consist of the following:

- 2525 Blanding Avenue
- 2631 Blanding Avenue
- 2643 Blanding Avenue
- 2647 Blanding Avenue
- 2663 Blanding Avenue
- 2619 Blanding Avenue
- 2639 Blanding Avenue
- 2643 Blanding Avenue
- 2651 Blanding Avenue
- Albertson's (formerly Lucky's store)

As part of this inspection, we also reviewed an asbestos report by Converse Consultants Orange County (Irvine, CA) prepared for the supermarket on site at the time (Lucky Store #370) in August 1994.

We collected one or more bulk sample of each type of suspect ACM noted for a total of 24 samples of ACMs during this inspection. These samples were submitted to Micro Analytical Laboratories (Emeryville, CA). This laboratory is accredited by the National Institute of Standards and Technology, National

Voluntary Laboratory Accreditation Program (NVLAP) for selected test methods for asbestos. The laboratory reports are shown in Appendix A.

The asbestos samples collected were analyzed by polarized light microscopy (PLM). This method identifies the type(s) of asbestos present in the sample and its corresponding percent concentration(s). The reliable limit of detection of this method is 1% asbestos.

## 2.0 Findings and Discussion

This shopping center inspected contains three single story buildings. The westernmost structure contains a Laundromat, a defunct restaurant and a Rite-Aid store. The center structure contains 8 retail spaces, most of which are vacant. The easternmost structure is completely vacant. At one time it housed a supermarket (Albertson's) and four other retail facilities. The facility dates to the mid 1970s.

Each space has its own hot water system, either electric or gas fired. Hot water lines were not insulated. Heating is provided by units assumed to be roof mounted. Supply ducts were seen to be insulated with fiberglass. The interior of the roof was insulated with fiberglass batting.

The buildings consist of wood framed structures on cement pads. Exterior walls are built of cinderblock and mortar. Interior walls consist of gypsum wallboard that is associated with asbestos containing joint compound (Sample NEM 2305-10 and NEM 2305-34) in some locations (2651 and 2647 Blanding) but not others (2671 Blanding and Albertson's, Samples NEM 2305-14, NEM 2305-22 and NEM 2305-23). The samples that contained asbestos bearing joint compound were taken from walls that appeared to date back to original construction. The unfinished sides of these walls have a tan appearance as opposed to the gray paper associated with more modern wallboard systems. That newer wall systems are not associated with asbestos containing joint compound is not surprising as this product was banned by EPA in 1975. Converse Consultants Orange County (CCOC) 1994 finding of asbestos in joint compound sample from a stockroom in the former supermarket is consistent with the notion that originally installed joint compound contains asbestos. Thus, it would appear that originally installed wallboard is asbestos containing whereas newer walls are not.

Building interiors generally consist of are either carpeted, covered with floor tile or vinyl sheeting or bare. Bathrooms generally contain vinyl sheeting. The floor tile, and associated mastic, and vinyl sheet backing contain asbestos in some instances. The findings in Albertson's were consistent with CCOC's findings in what was then a Lucky's supermarket. The following locations contain asbestos containing flooring materials:

- 2619 Blanding Avenue (floor tile and mastic) in janitor's area
- 2651 Blanding Avenue (mastic under now absent floor tile)
- 2651 Blanding Avenue restroom flooring
- 2671 Blanding Avenue (floor tile and mastic)
- 2671 Blanding Avenue (vinyl sheet mastic at rear, but not sheet itself)
- 2643 Blanding Avenue (mastic under non asbestos floor tile)
- Albertson's floor tile in shopping area
- Albertson's vinyl sheet in restrooms and under a west side cooler

CCOC's 1994 findings indicated that white floor tile near aisle I did not contain asbestos. Given that the two most predominant types of floor tile seen in the customer areas contained asbestos, CCOC's finding is of limited importance.

Ceilings are either open to the roof or consist of suspended cellulose ceiling tiles. Although these were not considered suspect, CCOC found similar ceiling tiles in Albertson's not to contain detectable amounts of asbestos.

The roof of the two structures inspected consists of an asphalt based tar and gravel system. Both buildings appear to have several layers of materials. Five of the eight samples collected from the roof contained asbestos which was present in differing layers. Thus, the roofing materials would be classified as asbestos containing.

Table 3 provides a summary of asbestos related findings by location. Two locations (2647 and 2663 Blanding Avenue) did not contain suspect ACMs.

### *2.1 Summary of Asbestos Findings*

Tables 1 and 2 summarize the asbestos related findings. Table 1 reports asbestos containing materials while Table 2 lists materials which were sampled and found not to contain detectable amounts of asbestos.

### *2.2 Friable ACMs*

The friable ACMs found during this investigation consist of vinyl flooring backing as seen in the following locations:

- 2651 Blanding Avenue restroom flooring
- Albertson's vinyl sheet in restrooms and under a west side cooler

There is an estimated total of 450 square feet of this material in the vacant shopping center spaces viewed during this investigation. The estimated cost to remove and dispose of it would be \$1,000.

According to BAAQMD regulations, the asbestos containing joint compound in original walls would also be considered friable. However, the wall system associated with this material contains less than 1% asbestos as a composite (Samples NEM 2305-10 and NEM 2305-34). Therefore, the original wall system is not in fact an ACM since these materials are defined as containing 1% or more asbestos. However, note that BAAQMD regulations would require confirmation by point counting before classification of this material as not regulated. This is discussed in Section 2.4 of this report.

### *2.3 Non Friable ACMs*

The non friable asbestos containing materials found in this investigation consist of vinyl floor tile and mastic seen at the following locations:

- 2619 Blanding Avenue (floor tile and mastic) in janitor's area
- 2651 Blanding Avenue (mastic under now absent floor tile)
- 2671 Blanding Avenue (floor tile and mastic)
- 2671 Blanding Avenue (vinyl sheet mastic at rear, but not sheet itself)
- 2643 Blanding Avenue (mastic under non asbestos floor tile)
- Albertson's floor tile in shopping area

There are an estimated 9,000 square feet of these materials in the vacant shopping center spaces viewed during this investigation. The estimated cost to remove and dispose of them is \$18,000.

In addition, the roofing materials in both buildings contain asbestos. As asbestos was only found in one layer of any of the samples that contained asbestos, and as the layers are generally inseparable, the overall asbestos content of the roof is likely to be less than 1% asbestos. Note that asphalt encapsulated asbestos containing roofing materials are not considered regulated based on a 1992 EPA clarification on this issue. Thus, they would not need to be removed before building demolition. They would however need to be handled in a manner consistent with Cal-OSHA regulations.

#### *2.4 Regulated ACMs*

The Bay Area Air Quality Management District (BAAQMD) regulates air emissions from building renovation and demolition projects. This agency requires that materials with an asbestos content greater than 1.0% be removed before building renovation and demolition if they are either friable or the work will damage or otherwise render them friable. RACMs in the shopping center consist of the flooring materials identified in Sections 2.2 and 2.3. The total cost to remove identified RACMs from the vacant tenant spaces viewed during this investigation is estimated at approximately \$19,000.

Note that asphalt encapsulated roofing materials are generally not considered to be RACM and so do not need to be removed before the buildings are demolished. The asbestos containing wallboard would also not be considered regulated because its overall asbestos content is less than 1%. However, this needs to be confirmed by point count sample analysis to comply with BAAQMD regulations.

#### *2.5 Trace ACMs*

The original wall system as sampled in 2647 and 2651 Blanding Avenue was found to contain less than 1% asbestos as a composite. Technically, neither of these materials is considered an ACM, because their overall asbestos content is less than 1%. However, work that disturbs them is subject to Cal-OSHA regulations because they apply to all manufactured materials that contain more than 0.1% asbestos. Such materials are termed asbestos containing construction materials (ACCM). Cal-OSHA regulations require the use of Cal-OSHA registered contractor for any project that disturbs more than 100 square feet of ACCM. Consequently, although trace ACMs do not need to be removed before either renovation or demolition, work that disturbs ACCM must be conducted in accordance with Cal-OSHA regulations.

Lastly, EPA NESHAPs (National Emissions Standards for Hazardous Air Pollutants) require point counting confirmation analysis for any friable material found to contain less than 10% asbestos. This means that it is necessary to analyze additional samples of any wall system found to contain less than 1% to legally classify it as non regulated ACM.

#### *2.5 Non Asbestos Containing Materials*

Table 2 lists materials sampled and tested in this investigation and found not to contain detectable amounts of asbestos.

### **3.0 Recommendations**

The findings of this investigation warrant the following actions:

1. Notify building occupants and employees of the presence of ACM as required under California Health & Safety Code 259359.7 (Connelly Bill) and by Cal-OSHA regulations. This could be a summary of this report with an explanatory note that identified ACM in occupied areas is in good

condition, has low fiber release potential and should not be disturbed without the proper precautions. It is also advisable to notify any contractors or other appropriate personnel who may damage ACMs that improper handling may result in exposure to asbestos, and that any work on these materials is subject to Cal-OSHA rules. These notifications should be made in writing.

2. Remove and dispose of the regulated ACM identified in Table 1 if it will be impacted during future renovation or demolition. The estimated cost for this work is \$19,000. Related asbestos consulting fees would be around \$2,500.

Current Cal-OSHA regulations require that this work be conducted by a Cal-OSHA registered asbestos abatement contractor. Although there is no regulatory requirement for it, it would be advisable to develop either a work plan or specification for the removal of affected materials to obtain more competitive bids and to better assure compliance with existing regulations and minimize owner related asbestos liabilities. It would also be advisable to retain the services of a qualified asbestos consulting firm to oversee the asbestos removal to ensure it complies with applicable regulations and to minimize potential owner liabilities.

3. Verify that the wallboard system is not a regulated ACM through additional sample collection for point count analysis. The cost for this would be approximately \$875.
4. Unless removed before hand, demolition of the original wall system and roofing materials will require the demolition contractor to be a Cal-OSHA registered asbestos contractor because this requirement applies to any work that disturbs more than 100 square feet of ACCM (any manufactured material that contains more than 0.1% asbestos). The use of such a qualified demolition contractor may incur some additional demolition cost than if the building were not to contain asbestos. However, it is doubtful that this differential would be comparable to the cost of separate removal and disposal of these materials.

The estimated cost to remove and dispose of 83,000 square feet of asbestos containing roofing is approximately \$83,000. The estimated cost to remove and dispose of approximately 46,000 square feet of original asbestos containing wallboard is \$46,000.

5. Inspect currently leased facilities for ACMs before any future renovation and or demolition as required by BAAQMD regulations.

#### 4.0 Conclusions

This investigation found that 8 of the 10 facilities inspected contained ACMs, mostly flooring materials. They would be classified as regulated ACMs under BAAQMD regulations. Therefore they would need to be removed before either renovation or demolition. The estimated cost to remove them is \$19,000. Related asbestos consulting costs would be approximately \$2,000.

Although the original gypsum wall board system contains asbestos, it would not need to be removed before demolition because its asbestos content is less than 1% asbestos. This should be verified through additional sample analysis by point counting. The roofing material would also not be considered regulated because of an EPA clarification regarding asphalt encapsulated asbestos roofing materials. However, the presence of either asbestos containing wallboard or roofing materials will require compliance with Cal-OSHA asbestos regulations. This means that the demolition will need to be conducted by a Cal-OSHA registered asbestos contractor. It is unlikely that this would incur additional costs comparable to the cost of separate removal and disposal of both roofing and wallboard, which is estimated to be \$129,000.

Please feel free to contact us if you have any questions or comments regarding this report. Thank you for the opportunity to be of service.

Sincerely,  
Acumen Industrial Hygiene, Inc.



Michael Connor, CIH, CSP  
Principal

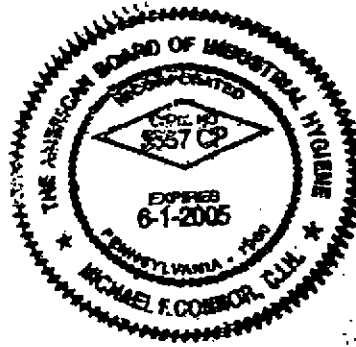


Table 1

Asbestos Containing Materials  
 Bridgeside Shopping Center  
 2500-2691 Blanding Ave. (Alameda, CA)

June 10 – July 7, 2003

Location	Description	Results <sup>1</sup>	F? <sup>2</sup>	EQ <sup>3</sup>	Sample No.
2619 Blanding Ave.	12x12" Grey VT, Janitor's Room	Tile: 2% CH Black Mastic: 3% CH	N	150 SF	NEM 2305 – 08
2643 Blanding Ave.	12x12" Vinyl Tile	Tile: ND Backing/Mastic: 40% CH	N	400 SF	NEM 2305 – 01
2651 Blanding Ave.	Tile Mastic (tile absent)	5% CH	N	450 SF	NEM 2305 – 09
2651 Blanding Ave.	Wall System	WB & JC Composite: <1% CH Wallboard: ND Joint Compound: 2% CH Paint: ND	Y	NQ	NEM 2305 – 10
2647 Blanding	Wall System - Rear	WB & JC Composite: <1% CH Wallboard: ND Joint Compound: 2% CH Paint: ND	Y	NQ	NEM 2305 – 34
2651 Blanding Ave.	Vinyl Flooring	Vinyl Flooring: ND Backing/Mastic: 40% CH	Y	50 SF	NEM 2305 – 11
2671 Blanding Ave.	Beige 12x12" VT	Tile: 2% CH Black Mastic: 3% CH	N	1,700 SF	NEM 2305 – 12

Footnotes

1. Results report percent (%) asbestos as determined by polarized light microscopy (PLM). CH indicates Chrysotile. ND indicates that asbestos was not detected.
2. F? indicates whether material is considered friable.
3. EQ indicates total estimated amount in building. SF refers to square feet and NQ means the material was not quantified.



Table 1 (Cont'd)

Asbestos Containing Materials  
 Bridgeside Shopping Center  
 2500-2691 Blanding Ave. (Alameda, CA)

June 10 – July 7, 2003

Location	Description	Results <sup>1</sup>	F? <sup>2</sup>	EQ <sup>3</sup>	Sample No.
2671 Blanding Ave.	Tan 12x12" VT	Tile: 2% CH Black Mastic: 3% CH	N	See above	NEM 2305 – 13
2671 Blanding Ave.	Tan Vinyl Sheet	Vinyl Flooring: ND Backing: ND Black/Yellow Mastic: 2% CH	N	120 SF	NEM 2305 – 15
Albertson's	Tan 12x12" VT, predominant tile	Tile: 3% CH Mastic: ND	N	6,000 SF	NEM 2305 – 17
Albertson's	Beige 12x12" VT, 2 <sup>nd</sup> predominant	Tile: 2% CH Black Mastic: 10% CH	N	See above	NEM 2305 – 18
Albertson's – Restrooms	Vinyl Sheet	Vinyl Flooring: ND Backing/Mastic: 40% CH	Y	150 SF	NEM 2305 – 19
Albertson's – Under Cooler	Vinyl Sheet	Vinyl Flooring: ND Backing/Mastic: 40% CH	Y	250 SF	NEM 2305 – 20
	Roof Parapet – East	Tar with Gravel: 5% CH Felt: ND Glossy Tar: ND Tar/Silver Paint: 3% CH Paint: ND	N	90,000 SF	NEM 2305 – 25

## Footnotes

1. Results report percent (%) asbestos as determined by polarized light microscopy (PLM). CH indicates Chrysotile. ND indicates that asbestos was not detected.
2. F? indicates whether material is considered friable.
3. EQ indicates total estimated amount in building. SF refers to square feet and NQ means the material was not quantified.

Table 1 (Cont'd)

Asbestos Containing Materials  
 Bridgeside Shopping Center  
 2500-2691 Blanding Ave. (Alameda, CA)

June 10 – July 7, 2003

Location	Description	Results <sup>1</sup>	F? <sup>2</sup>	EQ <sup>3</sup>	Sample No.
	Roof Parapet – West	Tar with Gravel: ND Felt: ND Glossy Tar: ND Dull Tar on Top (Sealant): 5% CH	N	See above	NEM 2305 – 27
Albertson's	Main Roof	Tar with Gravel: 3% Felt: ND Paint: ND Dull Tar: 5% CH	N	See above	NEM 2305 – 31
Albertson's	Roof Parapet	Tar with Gravel: ND Fiberglass Felt: ND Shiny Tar: ND Brown Felt: 20% CH	N	See above	NEM 2305 – 32
Albertson's	Roof Parapet	Tar with Gravel: ND Fiberglass Felt: ND Shiny Tar: ND Brown Felt: 20% CH	N	See above	NEM 2305 – 33

Footnotes

1. Results report percent (%) asbestos as determined by polarized light microscopy (PLM). CH indicates Chrysotile. ND indicates that asbestos was not detected.
2. F? indicates whether material is considered friable.
4. EQ indicates total estimated amount in building. SF refers to square feet and NQ means the material was not quantified.

Table 2

Non-Asbestos Containing Materials  
Bridgeside Shopping Center  
2500-2691 Blanding Ave.  
Alameda, CA

June 10 - July 7, 2003

Location	Description	Results <sup>1</sup>	Sample No.
2525 Blanding Ave.	Wall System	Wallboard: ND Joint Compound: ND Paint: ND	NEM 2305 - 24
2619 Blanding Ave.	12x12" Grey Vinyl Tile	Tile: ND Yellow Glue: ND	NEM 2305 - 06
2619 Blanding Ave.	Vinyl Sheeting	Sheet Vinyl: ND Backing: ND	NEM 2305 - 07
2631 Blanding Ave.	Vinyl Flooring	Vinyl Flooring: ND Backing: ND Mastic: ND	NEM 2305 - 04
2631 Blanding Ave.	12x12" Vinyl Tile	ND	NEM 2305 - 05
2639 Blanding Ave.	Textured Wall System	Wallboard: ND Texture: ND Paint: ND	NEM 2305 - 03
2643 Blanding Ave.	Vinyl Flooring	Vinyl Flooring: ND Mastic: ND	NEM 2305 - 02
2671 Blanding Ave.	Wall System	Wallboard: ND Joint Compound: ND Paint: ND	NEM 2305 - 14
2671 Blanding Ave.	Light Vinyl Sheet	Vinyl Flooring: ND Backing: ND	NEM 2305 - 16
Albertson's	Tape on Ducts	ND	NEM 2305 - 21
Albertson's	Wall System 1	Wallboard: ND Joint Compound: ND	NEM 2305 - 22

Footnote

1. All samples analyzed by polarized light microscopy (PLM) and reported as not containing detectable amounts of asbestos.

Table 2 (Cont'd)

Non-Asbestos Containing Materials  
 Bridgeside Shopping Center  
 2500-2691 Blanding Ave.  
 Alameda, CA

June 10 – July 7, 2003

Location	Description	Results <sup>1</sup>	Sample No.
Albertson's	Wall System 2	Wallboard: ND	NEM 2305 - 23
	Main Roof - East	Tar with Gravel: ND Felt: ND Shiny Tar: ND	NEM 2305 - 26
	Roof Parapet - West	Tar with Gravel: ND Felt: ND Glossy Tar: ND	NEM 2305 - 28
	Main Roof - West	Tar with Gravel: ND Felt: ND Glossy Tar: ND	NEM 2305 - 29
2671 Blanding	Roof Sealing Compound	Tar with Gravel: ND Felt: ND Glossy Tar: ND	NEM 2305 - 30
2631 Blanding	Wall System	Wallboard: ND Joint Compound: ND Paint: ND	NEM 2305 - 35

Footnote

1. All samples analyzed by polarized light microscopy (PLM) and reported as not containing detectable amounts of asbestos.

Table 3

Summary of Asbestos Information - By Location  
 Bridgeside Shopping Center  
 2500-2691 Blanding Ave. (Alameda, CA)

June 10 - July 7, 2003

Location	Description	Results <sup>1</sup>	F? <sup>2</sup>	EQ <sup>3</sup>	Sample No.
	Main Roof - East	Tar with Gravel: ND Felt: ND Shiny Tar: ND	-	-	NEM 2305 - 26
	Main Roof - West	Tar with Gravel: ND Felt: ND Glossy Tar: ND	-	-	NEM 2305 - 29
	Roof Parapet - East	Tar with Gravel: 5% CH Felt: ND Glossy Tar: ND Tar/Silver Paint: 3% CH Paint: ND			NEM 2305 - 25
	Roof Parapet - West	Tar with Gravel: ND Felt: ND Glossy Tar: ND	-	-	NEM 2305 - 28
	Roof Parapet - West	Tar with Gravel: ND Felt: ND Glossy Tar: ND Dull Tar on Top (Sealant): 5% CH			NEM 2305 - 27

Footnotes

1. Results report percent (%) asbestos as determined by polarized light microscopy (PLM). CH indicates Chrysotile. ND indicates that asbestos was not detected.
  2. F? indicates whether material is considered friable.
  3. EQ indicates total estimated amount in the facility. SF refers to square feet and NQ means the material was not quantified.
- \* Samples denoted by CCOC refer to Converse Consultants Orange County (Irvine, CA) 1994 investigation. Quantities shown are as stated in that report.

Table 3 (Cont'd)

Summary of Asbestos Information - By Location  
 Bridgeside Shopping Center  
 2500-2691 Blanding Ave. (Alameda, CA)

June 10 - July 7, 2003

Location	Description	Results <sup>1</sup>	F? <sup>2</sup>	EQ <sup>3</sup>	Sample No.
2525 Blanding Ave.	Wall System	Wallboard: ND Joint Compound: ND Paint: ND	-	-	NEM 2305 - 24
2619 Blanding Ave.	12x12" Grey Vinyl Tile, front area	Tile: ND Yellow Glue: ND	-	-	NEM 2305 - 06
2619 Blanding Ave.	12x12" Grey VT, janitor's room	Tile: 2% CH Black Mastic: 3% CH	N	150 SF	NEM 2305 - 08
2619 Blanding Ave.	Vinyl Sheeting, rest rooms	Sheet Vinyl: ND Backing: ND	-	-	NEM 2305 - 07
2631 Blanding	Wall System	Wallboard: ND Joint Compound: ND Paint: ND	-	-	NEM 2305 - 35
2631 Blanding Ave.	12x12" Vinyl Tile	ND	-	-	NEM 2305 - 05
2631 Blanding Ave.	Vinyl Flooring, rest rooms	Vinyl Flooring: ND Backing: ND Mastic: ND	-	-	NEM 2305 - 04

Footnotes

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- \* Samples denoted by CCOC refer to Converse Consultants Orange County (Irvine, CA) 1994 investigation. Quantities shown are as stated in that report.

Table 3 (Cont'd)

Summary of Asbestos Information - By Location  
 Bridgeside Shopping Center  
 2500-2691 Blanding Ave. (Alameda, CA)

June 10 - July 7, 2003

Location	Description	Results <sup>1</sup>	F? <sup>2</sup>	EQ <sup>3</sup>	Sample No.
2639 Blanding Ave.	Textured Wall System	Wallboard: ND Texture: ND Paint: ND	-	-	NEM 2305 - 03
2643 Blanding Ave.	12x12" Vinyl Tile	Tile: ND Backing/Mastic: 40% CH	N	400 SF	NEM 2305 - 01
2643 Blanding Ave.	Vinyl Flooring, rest room	Vinyl Flooring: ND Mastic: ND	-	-	NEM 2305 - 02
2647 Blanding	Wall System - Rear	WB & JC Composite: <1% CH Wallboard: ND Joint Compound: 2% CH Paint: ND			NEM 2305 - 34
2651 Blanding Ave.	Tile Mastic (tile absent)	5% CH	N	450 SF	NEM 2305 - 09
2651 Blanding Ave.	Vinyl Flooring (Rest room)	Vinyl Flooring: ND Backing/Mastic: 40% CH	Y	50 SF	NEM 2305 - 11
2651 Blanding Ave.	Wall System	WB & JC Composite: <1% CH Wallboard: ND Joint Compound: 2% CH Paint: ND	Y	NQ	NEM 2305 - 10

Footnotes

1. Results report percent (%) asbestos as determined by polarized light microscopy (PLM). CH indicates Chrysotile. ND indicates that asbestos was not detected.
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- Samples denoted by CCOC refer to Converse Consultants Orange County (Irvine, CA) 1994 investigation. Quantities shown are as stated in that report.

Table 3 (Cont'd)

Summary of Asbestos Information - By Location  
 Bridgeside Shopping Center  
 2500-2691 Blanding Ave. (Alameda, CA)

June 10 - July 7, 2003

Location	Description	Results <sup>1</sup>	F? <sup>2</sup>	EQ <sup>3</sup>	Sample No.
2671 Blanding	Roof Sealing Compound	Tar with Gravel: ND Felt: ND Glossy Tar: ND	-	-	NEM 2305 - 30
2671 Blanding Ave.	Beige 12x12" VT	Tile: 2% CH Black Mastic: 3% CH	N	1,700 SF	NEM 2305 - 12
2671 Blanding Ave.	Light Vinyl Sheet, restroom	Vinyl Flooring: ND Backing: ND	-	-	NEM 2305 - 16
2671 Blanding Ave.	Tan 12x12" VT	Tile: 2% CH Black Mastic: 3% CH	N	See above	NEM 2305 - 13
2671 Blanding Ave.	Tan Vinyl Sheet, rear	Vinyl Flooring: ND Backing: ND Black/Yellow Mastic: 2% CH	N	120 SF	NEM 2305 - 15
2671 Blanding Ave.	Wall System, next to fire exit	Wallboard: ND Joint Compound: ND Paint: ND	-	-	NEM 2305 - 14
Albertson's	Beige 12x12" VT, 2 <sup>nd</sup> predominant	Tile: 2% CH Black Mastic: 10% CH	N	See above	NEM 2305 - 18

Footnotes

1. Results report percent (%) asbestos as determined by polarized light microscopy (PLM). CH indicates Chrysotile. ND indicates that asbestos was not detected.
  2. F? indicates whether material is considered friable.
  3. EQ indicates total estimated amount in the facility. SF refers to square feet and NQ means the material was not quantified.
- \* Samples denoted by CCOC refer to Converse Consultants Orange County (Irvine, CA) 1994 investigation. Quantities shown are as stated in that report.



Table 3 (Cont'd)

Summary of Asbestos Information - By Location  
 Bridgeside Shopping Center  
 2500-2691 Blanding Ave. (Alameda, CA)

June 10 - July 7, 2003

Location	Description	Results <sup>1</sup>	F? <sup>2</sup>	EQ <sup>3</sup>	Sample No.
Albertson's	Main Roof	Tar with Gravel: 3% Felt: ND Paint: ND Dull Tar: 5% CH			NEM 2305 - 31
Albertson's	Roof Parapet	Tar with Gravel: ND Fiberglass Felt: ND Shiny Tar: ND Brown Felt: 20% CH			NEM 2305 - 33
Albertson's	Roof Parapet	Tar with Gravel: ND Fiberglass Felt: ND Shiny Tar: ND Brown Felt: 20% CH			NEM 2305 - 32
Albertson's	Tan 12x12" VT, predominant tile	Tile: 3% CH Mastic: ND	N	6,000 SF	NEM 2305 - 17
Albertson's	Tape on ducts, mezzanine	ND	-	-	NEM 2305 - 21
Albertson's	Vinyl Sheet, restroom	Vinyl Flooring: ND Backing/Mastic: 40% CH	Y	150 SF	NEM 2305 - 19

**Footnotes**

1. Results report percent (%) asbestos as determined by polarized light microscopy (PLM). CH indicates Chrysotile. ND indicates that asbestos was not detected.
  2. F? indicates whether material is considered friable.
  3. EQ indicates total estimated amount in the facility. SF refers to square feet and NQ means the material was not quantified.
- \* Samples denoted by CCOC refer to Converse Consultants Orange County (Irvine, CA) 1994 investigation. Quantities shown are as stated in that report.

Table 3 (Cont'd)

Summary of Asbestos Information - By Location  
 Bridgeside Shopping Center  
 2500-2691 Blanding Ave. (Alameda, CA)

June 10 - July 7, 2003

Location	Description	Results <sup>1</sup>	F? <sup>2</sup>	EQ <sup>3</sup>	Sample No.
Albertson's	Wall System 1, rear stairs to mezzanine	Wallboard: ND Joint Compound: ND	-	-	NEM 2305 - 22
Albertson's	Wall System 2, behind rear cooler	Wallboard: ND	-	-	NEM 2305 - 23
Albertson's - Under Cooler	Vinyl Sheet, west side, under cooler	Vinyl Flooring: ND Backing/Mastic: 40% CH	Y	250 SF	NEM 2305 - 20
Albertson's (Then Lucky's)	2x4 ceiling tile	Ceiling Tile: ND	-	-	CCOC 370-03
Albertson's (Then Lucky's)	Brown mottled vinyl tile, aisle 10	Tile: 2% CH	N	See above	CCOC 370-01
Albertson's (Then Lucky's)	Brown mottled vinyl tile, aisle 9	Tile: 2% CH	N	See above	CCOC 370-05
Albertson's (Then Lucky's)	Brown mottled vinyl tile, produce	Tile: 2% CH	N	See above	CCOC 370-08
Albertson's (Then Lucky's)	Linoleum flooring, men's	40% CH	Y	150	CCOC 370-10
Albertson's (Then Lucky's)	Mastic under brown mottled tile	Black Mastic: ND	N	See above	CCOC 370-02
Albertson's (Then Lucky's)	Mastic under brown mottled tile	Black Mastic: 10% CH	N	See above	CCOC 370-06
Albertson's (Then Lucky's)	Mastic under brown mottled tile	Black Mastic: 10% CH	N	See above	CCOC 370-09
Albertson's (Then Lucky's)	Wall system mud, stockroom	Joint Compound: 2% CH	Y	4,000 SF	CCOC 370-04
Albertson's (Then Lucky's)	White floor tile, aisle 1	Tile: ND	-	-	CCOC 370-07

**Footnotes**

1. Results report percent (%) asbestos as determined by polarized light microscopy (PLM). CH indicates Chrysotile. ND indicates that asbestos was not detected.
  2. F? indicates whether material is considered friable.
  3. EQ indicates total estimated amount in the facility. SF refers to square feet and NQ means the material was not quantified.
- \* Samples denoted by CCOC refer to Converse Consultants Orange County (Irvine, CA) 1994 investigation. Quantities shown are as stated in that report.

**Appendix A**

Laboratory Reports  
Bridgeside Shopping Center  
2500 - 2691 Blanding Ave.  
Alameda, CA

June 10, 2003 ~~-----~~

Acumen Project No. NEM 2305

*Prepared For:*

Mr. Dennis Laduzinsky  
Northgate Environmental Management, Inc.  
3629 Grand Avenue  
Oakland, CA 94610

# MICRO ANALYTICAL LABORATORIES, INC.

BULK ASBESTOS ANALYSIS - PLM (EPA/600/R-93/116, 1993)


1092

Acumen Industrial Hygiene, Inc.  
130 Produce Avenue, Ste. L  
South San Francisco, CA 94080

PROJECT:  
2525 - 2671 BLANDING AVENUE  
ALAMEDA, CA  
PROJECT NO. NEM 2305

Micro Log In 47266  
Total Samples 24  
Date Sampled 06/10/2003  
Date Received 06/12/2003  
Date Analyzed 06/13/2003

SAMPLE INFORMATION	ASBESTOS INFORMATION QUANTITY (AREA %) / TYPES / LAYERS / DISTINCT SAMPLES	DOMINANT OTHER MATERIALS
Client: <b>NEM 2305-01</b>  Micro: 47266-01 Analyst: GR 2643 BLANDING AVENUE 12" X 12" VINYL TILE	TILE: NONE DETECTED BACKING WITH INSEPARABLE MASTIC: 40% CHRYSOTILE	5% CELLULOSE  SYNTHETIC MATERIAL ROCK FRAGMENTS
Client: <b>NEM 2305-02</b>  Micro: 47266-02 Analyst: GR 2643 BLANDING AVENUE VINYL FLOORING	VINYL FLOORING: NONE DETECTED MASTIC: NONE DETECTED	CARBONATE SYNTHETIC MATERIAL BINDER
Client: <b>NEM 2305-03</b>  Micro: 47266-03 Analyst: GR 2639 BLANDING AVENUE TEXTURED WALL SYSTEM	WALLBOARD: NONE DETECTED TEXTURE: NONE DETECTED PAINT: NONE DETECTED	20% CELLULOSE 5% FIBROUS GLASS  GYPSUM CARBONATE
Client: <b>NEM 2305-04</b>  Micro: 47266-04 Analyst: GR 2631 BLANDING AVENUE VINYL FLOORING	VINYL FLOORING: NONE DETECTED BACKING: NONE DETECTED MASTIC: NONE DETECTED	30% CELLULOSE 5% FIBROUS GLASS 10% SYNTHETIC FIBERS CARBONATE SYNTHETIC MATERIAL
Client: <b>NEM 2305-05</b>  Micro: 47266-05 Analyst: GR 2631 BLANDING AVENUE 12" X 12" VINYL TILE	NONE DETECTED	CARBONATE SYNTHETIC MATERIAL

Technical Supervisor:  6/13/2003  
Baojia Ke, Ph. D. Date Reported

NOTES: Weight % cannot be determined by PLM estimation or point counts. Asbestos fibers with diameter below -1 µm may not be detected by PLM. The absence of asbestos in dust or debris (including wipe or microvacuum), and in some compact materials, including floor tiles, cannot be conclusively established by PLM, and should be confirmed by Transmission Electron Microscopy (TEM). Dominant non-asbestos materials are indicated; other miscellaneous particles are present in most samples. This report must not be interpreted as a conclusive identification of non-asbestos (fibrous or not). Preparation (all samples): grinding, milling, teasing bundles apart; drying, if needed, by hotplate. Acid dissolution, ashing, or other matrix reduction techniques may be applied to some samples; residue asbestos % is corrected for amount of matrix removed. Various sample interferences may prevent detection of small asbestos fibers, and hinder determination of some optical properties. Notes are made if point counting is used; otherwise, asbestos is quantified by calibrated visual estimation. Detection limit is material dependent. Detection of asbestos traces (<<1%) may not be reliable or reproducible by PLM. Lower quantitation limit (reporting limit) of PLM estimation is 1%. The 95% UCL and LCL (Upper and Lower Confidence Limits) represent the highest and lowest expected concentrations for an asbestos point count, based on reported concentration and Poisson statistics. The Cal-OSHA definition of asbestos-containing construction material is 0.1% asbestos by weight; however, reliable determination of asbestos weight percent at this level cannot be done by PLM, and TEM is recommended. Layers of heterogeneous samples are analyzed separately; asbestos percentages are reported for individual layers. Interlayer contamination is possible among any layers in a sample. Composite asbestos percentages on multilayered samples are applicable only to layered wall systems (wallboard, joint compound, and related materials); compositing is based on clients' descriptions of a material as "joint compound". Clients are solely responsible for identification and description of bulk materials listed on field forms. Laboratory sample descriptions may differ from descriptions given by the client. "Quality Control (QC) Codes: A = all materials confirmed (reanalysis within acceptance limits); B = no asbestos detected in lab (SRM 1866a Fibrous Glass or equivalent); R = all materials confirmed after multiple result resolutions. NIST / NVLAP Accreditation Lab Code: #101872-0 California ELAP Certification 337. EPA test method is based on the EPA Interim Method (1982), with several improvements in analytical techniques. This report must not be used to claim product endorsement by NIST any U.S. Government agency. This report must not be reproduced except in full, with approval of Micro Analytical Laboratories, Inc. This report pertains only to the listed samples, as submitted to and analyzed by Micro Analytical Laboratories, Inc. and must not be interpreted as a hazard assessment or as a representation of any material in the field. Friability can only be assessed by field inspection.

# MICRO ANALYTICAL LABORATORIES, INC.

BULK ASBESTOS ANALYSIS - PLM (EPA/600/R-93/116, 1993)

1092

Acumen Industrial Hygiene, Inc.  
130 Produce Avenue, Ste. L  
South San Francisco, CA 94080

PROJECT:

2525 - 2671 BLANDING AVENUE  
ALAMEDA, CA  
PROJECT NO. NEM 2305

Micro Log In 47266

Total Samples 24

Date Sampled 06/10/2003

Date Received 06/12/2003

Date Analyzed 06/13/2003

SAMPLE INFORMATION	ASBESTOS INFORMATION QUANTITY (AREA %) / TYPES / LAYERS / DISTINCT SAMPLES	DOMINANT OTHER MATERIALS
Client: <b>NEM 2305-06</b> Micro: 47266-06 Analyst: GR 2619 BLANDING AVENUE 12" X 12" GREY VINYL TILE	TILE: NONE DETECTED GLUE (YELLOW): NONE DETECTED	5% CELLULOSE  CARBONATE SYNTHETIC MATERIAL BINDER
Client: <b>NEM 2305-07</b> Micro: 47266-07 Analyst: GR 2619 BLANDING AVENUE VINYL SHEETING	SHEET VINYL: <del>NONE DETECTED</del> BACKING: NONE DETECTED	36% CELLULOSE 15% FIBROUS GLASS  CARBONATE SYNTHETIC MATERIAL
Client: <b>NEM 2305-08</b> Micro: 47266-08 Analyst: GR BK 2619 BLANDING AVENUE 12" X 12" LIGHT GREY VINYL TILE	TILE: 2% CHRYSOTILE MASTIC (BLACK): 3% CHRYSOTILE	QC: R  CARBONATE SYNTHETIC MATERIAL BINDER
Client: <b>NEM 2305-09</b> Micro: 47266-09 Analyst: GR 2601 BLANDING AVENUE TILE MASTIC	5% CHRYSOTILE	TAR ROCK FRAGMENTS
Client: <b>NEM 2305-10</b> Micro: 47266-10 Analyst: GR 2601 BLANDING AVENUE WALL SYSTEM	WB & JC COMPOSITE: <1% CHRYSOTILE WALLBOARD: NONE DETECTED JOINT COMPOUND: 2% CHRYSOTILE PAINT: NONE DETECTED	20% CELLULOSE  GYPSUM CARBONATE

Technical Supervisor: 

Baojia Ke, Ph. D.

6/13/2003

Date Reported

NOTES: Weight % cannot be determined by PLM estimation or point counts. Asbestos fibers with diameter below 1 µm may not be detected by PLM. The absence of asbestos in dust or debris (including wipe or microvacuum), and in some compact materials, including floor tiles, cannot be conclusively established by PLM, and should be confirmed by Transmission Electron Microscopy (TEM). Dominant non-asbestos materials are indicated; other miscellaneous particles are present in most samples. This report must not be interpreted as a conclusive identification of non-asbestos (fibrous or not). Preparation (all samples): grinding, milling, teasing bundles apart; drying, if needed, by hotplate. Acid dissolution, ashing, or other matrix reduction techniques may be applied to some samples; residue asbestos % is corrected for amount of matrix removed. Various sample interferences may prevent detection of small asbestos fibers, and hinder determination of some optical properties. Notes are made if point counting is used; otherwise, asbestos is quantified by calibrated visual estimation. Detection limit is material dependent. Detection of asbestos traces (<<1%) may not be reliable or reproducible by PLM. Lower quantitation limit (reporting limit) of PLM estimation is 1%. The 95% UCL and LCL (Upper and Lower Confidence Limits) represent the highest and lowest expected concentrations for aN asbestos point count, based on reported concentration and Poisson statistics. The Cal-OSHA definition of asbestos-containing construction material is 0.1% asbestos by weight; however, reliable determination of asbestos weight percent at this level cannot be done by PLM, and TEM is recommended. Layers of heterogeneous samples are analyzed separately; asbestos percentages are reported for individual layers. Interlayer contamination is possible among any layers in a sample. Composite asbestos percentages on multilayered samples are applicable only to layered wall systems (wallboard, joint compound, and related materials); compositing is based on clients' descriptions of a material as "joint compound". Clients are solely responsible for identification and description of bulk materials listed on field forms. Laboratory sample descriptions may differ from descriptions given by the client. "Quality Control (QC) Codes: A = all materials confirmed (reanalysis within acceptance limits); B = no asbestos detected in lab tank (SRM 1866a Fibrous Glass or equivalent); R = all materials confirmed after multiple result resolutions. NIST / NVLAP Accreditation Lab Code: #101872-0. California ELAP Certification 037. EPA test method is based on the EPA Interim Method (1982), with several improvements in analytical techniques. This report must not be used to claim product endorsement by NIST or any U.S. Government agency. This report must not be reproduced except in full, with approval of Micro Analytical Laboratories, Inc. This report pertains only to the listed samples, as submitted to and analyzed by Micro Analytical Laboratories, Inc. and must not be interpreted as a hazard assessment or as a representation of any material in the field. Friability can only be assessed by field inspection.

# MICRO ANALYTICAL LABORATORIES, INC.

BULK ASBESTOS ANALYSIS - PLM (EPA/600/R-93/116, 1993)

1092

Acumen Industrial Hygiene, Inc.  
130 Produce Avenue, Ste. L  
South San Francisco, CA 94080

PROJECT:

2525 - 2671 BLANDING AVENUE  
ALAMEDA, CA  
PROJECT NO. NEM 2305

Micro Log In 47266

Total Samples 24

Date Sampled 06/10/2003

Date Received 06/12/2003

Date Analyzed 06/13/2003

### ASBESTOS INFORMATION

**SAMPLE INFORMATION**

**QUANTITY (AREA %) / TYPES / LAYERS / DISTINCT SAMPLES**

**DOMINANT OTHER MATERIALS**

Client: <b>NEM 2305-11</b> Micro: 47266-11 Analyst: GR 2651 BLANDING AVENUE VINYL FLOORING	VINYL FLOORING: NONE DETECTED BACKING WITH INSEPARABLE MASTIC: 40% CHRYSOTILE	ROCK FRAGMENTS SYNTHETIC MATERIAL
Client: <b>NEM 2305-12</b> Micro: 47266-12 Analyst: GR 2671 BLANDING AVENUE BEIGE 12" X 12" TILE	TILE: 2% CHRYSOTILE MASTIC (BLACK): 3% CHRYSOTILE	CARBONATE TAR BINDER
Client: <b>NEM 2305-13</b> Micro: 47266-13 Analyst: GR 2671 BLANDING AVENUE TAN 12" X 12"	TILE: 2% CHRYSOTILE MASTIC (BLACK): 3% CHRYSOTILE	CARBONATE TAR BINDER
Client: <b>NEM 2305-14</b> Micro: 47266-14 Analyst: GR 2671 BLANDING AVENUE WALL SYSTEM	WALLBOARD: NONE DETECTED JOINT COMPOUND: NONE DETECTED PAINT: NONE DETECTED	GYPSUM CARBONATE
Client: <b>NEM 2305-15</b> Micro: 47266-15 Analyst: GR 2671 BLANDING AVENUE TAN VINYL SHEET	VINYL FLOORING: NONE DETECTED BACKING: NONE DETECTED MASTIC (BLACK / YELLOW): 2% CHRYSOTILE	35 % CELLULOSE 2 % FIBROUS GLASS ROCK FRAGMENTS SYNTHETIC MATERIAL

Technical Supervisor:

Baojia Ke, Ph. D.

6/13/2003

Date Reported

NOTES: Weight % cannot be determined by PLM estimation or point counts. Asbestos fibers with diameter below  $-1 \mu\text{m}$  may not be detected by PLM. The absence of asbestos in dust or debris (including wipe or microvacuum), and in some compact materials, including floor tiles, cannot be conclusively established by PLM, and should be confirmed by Transmission Electron Microscopy (TEM). Dominant non-asbestos materials are indicated; other miscellaneous particles are present in most samples. This report must not be interpreted as a conclusive identification of non-asbestos (fibrous or not). Preparation (all samples): grinding, milling; teasing bundles apart; drying, if needed, by hotplate. Acid dissolution, ashing, or other matrix reduction techniques may be applied to some samples; residue asbestos % is corrected for amount of matrix removed. Various sample interferences may prevent detection of small asbestos fibers, and hinder determination of some optical properties. Notes are made if point counting is used; otherwise, asbestos is quantified by calibrated visual estimation. Detection limit is material dependent. Detection of asbestos traces ( $<<1\%$ ) may not be reliable or reproducible by PLM. Lower quantitation limit (reporting limit) of PLM estimation is 1%. The 95% UCL and LCL (Upper and Lower Confidence Limits) represent the highest and lowest expected concentrations for all asbestos point count, based on reported concentration and Poisson statistics. The Cal-OSHA definition of asbestos-containing construction material is 0.1% asbestos by weight; however, reliable determination of asbestos weight percent at this level cannot be done by PLM, and TEM is recommended. Layers of heterogeneous samples are analyzed separately; asbestos percentages are reported for individual layers. Interlayer contamination is possible among any layers in a sample. Composite asbestos percentages on multilayered samples are applicable only to layered wall systems (wallboard, joint compound, and related materials); compositing is based on clients' descriptions of a material as "joint compound". Clients are solely responsible for identification and description of bulk materials listed on field forms. Laboratory sample descriptions may differ from descriptions given by the client. \*Quality Control (QC) Codes: A = all materials confirmed (reanalysis within acceptance limits); B = no asbestos detected in lab tank (SRM 1866a Fibrous Glass or equivalent); R = all materials confirmed after multiple result resolutions. NIST / NVLAP Accreditation Lab Code: #101872-0, California ELAP Certification 1037. EPA test method is based on the EPA Interim Method (1982), with several improvements in analytical techniques. This report must not be used to claim product endorsement by NIST or any U.S. Government agency. This report must not be reproduced except in full, with approval of Micro Analytical Laboratories, Inc. This report pertains only to the listed samples, as submitted to and analyzed by Micro Analytical Laboratories, Inc. and must not be interpreted as a hazard assessment or as a representation of any material in the field. Friability can only be assessed by field inspection.

# MICRO ANALYTICAL LABORATORIES, INC.

BULK ASBESTOS ANALYSIS - PLM (EPA/600/R-93/116, 1993)

1092

Acumen Industrial Hygiene, Inc.  
130 Produce Avenue, Ste. L  
South San Francisco, CA 94080

PROJECT:  
2525 - 2671 BLANDING AVENUE  
ALAMEDA, CA  
PROJECT NO. NEM 2305

Micro Log In 47266  
Total Samples 24  
Date Sampled 06/10/2003  
Date Received 06/12/2003  
Date Analyzed 06/13/2003

SAMPLE INFORMATION	ASBESTOS INFORMATION QUANTITY (AREA %) / TYPES / LAYERS / DISTINCT SAMPLES	DOMINANT OTHER MATERIALS
Client: <b>NEM 2305-16</b> Micro: 47266-16 Analyst: GR 2671 BLANDING AVENUE LIGHT VINYL SHEET	VINYL FLOORING: NONE DETECTED BACKING: NONE DETECTED	30 % CELLULOSE 10 % FIBROUS GLASS 10 % SYNTHETIC FIBERS ROCK FRAGMENTS SYNTHETIC MATERIAL
Client: <b>NEM 2305-17</b> Micro: 47266-17 Analyst: GR ALBERTSON'S - TAN 12" X 12" FLOOR TILE	TILE: 3% CHRYSOTILE MASTIC: NONE DETECTED	5 % CELLULOSE  CARBONATE SYNTHETIC MATERIAL BINDER
Client: <b>NEM 2305-18</b> Micro: 47266-18 Analyst: GR ALBERTSON'S - BEIGE 12" X 12" FLOOR TILE	TILE: 2% CHRYSOTILE MASTIC (BLACK): 10% CHRYSOTILE	CARBONATE TAR BINDER
Client: <b>NEM 2305-19</b> Micro: 47266-19 Analyst: GR ALBERTSON'S - VINYL SHEET (RESTROOMS)	VINYL FLOORING: NONE DETECTED BACKING WITH INSEPARABLE MASTIC: 40% CHRYSOTILE	5 % CELLULOSE  ROCK FRAGMENTS SYNTHETIC MATERIAL
Client: <b>NEM 2305-20</b> Micro: 47266-20 Analyst: GR ALBERTSON'S - VINYL SHEET UNDER COOLER	VINYL FLOORING: NONE DETECTED BACKING WITH INSEPARABLE MASTIC: 40% CHRYSOTILE	5 % CELLULOSE  ROCK FRAGMENTS SYNTHETIC MATERIAL

Technical Supervisor



Baojia Ke, Ph. D.

6/13/2003

Date Reported

NOTES: Weight % cannot be determined by PLM estimation or point counts. Asbestos fibers with diameter below -1 µm may not be detected by PLM. The absence of asbestos in dust or debris (including wipe or microvacuum), and in some compact materials, including floor tiles, cannot be conclusively established by PLM, and should be confirmed by Transmission Electron Microscopy (TEM). Dominant non-asbestos materials are indicated; other miscellaneous particles are present in most samples. This report must not be interpreted as a conclusive identification of non-asbestos (fibrous or not). Preparation (all samples): grinding, milling; teasing bundles apart; drying, if needed, by hotplate. Acid dissolution, ashing, or other matrix reduction techniques may be applied to some samples; residue asbestos % is corrected for amount of matrix removed. Various sample interferences may prevent detection of small asbestos fibers, and hinder determination of some optical properties. Notes are made if point counting is used; otherwise, asbestos is quantified by calibrated visual estimation. Detection limit is material dependent. Detection of asbestos traces (<1%) may not be reliable or reproducible by PLM. Lower quantitation limit (reporting limit) of PLM estimation is 1%. The 95% UCL and LCL (Upper and Lower Confidence Limits) represent the highest and lowest expected concentrations for an asbestos point count, based on reported concentration and Poisson statistics. The Cal-OSHA definition of asbestos-containing construction material is 0.1% asbestos by weight; however, reliable determination of asbestos weight percent at this level cannot be done by PLM, and TEM is recommended. Layers of heterogeneous samples are analyzed separately; asbestos percentages are reported for individual layers. Interlayer contamination is possible among any layers in a sample. Composite asbestos percentages on multilayered samples are applicable only to layered wall systems (wallboard, joint compound, and related materials); compositing is based on clients' descriptions of a material as "joint compound". Clients are solely responsible for identification and description of bulk materials listed on field forms. Laboratory sample descriptions may differ from descriptions given by the client. "Quality Control (QC) Codes: A = all materials confirmed (reanalysis within acceptance limits); B = no asbestos detected in lab tank (SRM 1866a Fibrous Glass or equivalent); R = all materials confirmed after multiple result resolutions. NIST / NVLAP Accreditation Lab Code: #101872-0. California ELAP Certification 037. EPA test method is based on the EPA Interim Method (1982), with several improvements in analytical techniques. This report must not be used to claim product endorsement by NIST any U.S. Government agency. This report must not be reproduced except in full, with approval of Micro Analytical Laboratories, Inc. This report pertains only to the listed samples, as submitted to and analyzed by Micro Analytical Laboratories, Inc. and must not be interpreted as a hazard assessment or as a representation of any material in the field. Friability can only be assessed by field inspection.

# MICRO ANALYTICAL LABORATORIES, INC.

BULK ASBESTOS ANALYSIS - PLM (EPA/600/R-93/116, 1993)

1092

Acumen Industrial Hygiene, Inc.  
130 Produce Avenue, Ste. L  
South San Francisco, CA 94080

PROJECT:

2525 - 2671 BLANDING AVENUE  
ALAMEDA, CA  
PROJECT NO. NEM 2305

Micro Log In 47266

Total Samples 24

Date Sampled 06/10/2003

Date Received 06/12/2003

Date Analyzed 06/13/2003

### ASBESTOS INFORMATION

SAMPLE INFORMATION	QUANTITY (AREA %) / TYPES / LAYERS / DISTINCT SAMPLES	DOMINANT OTHER MATERIALS
Client: <b>NEM 2305-21</b> Micro: 47266-21      Analyst: GR ALBERTSON'S - TAPE ON DUCTS	NONE DETECTED	75 % CELLULOSE  SYNTHETIC MATERIAL PAINT
Client: <b>NEM 2305-22</b> Micro: 47266-22      Analyst: GR BK ALBERTSON'S - WALL SYSTEM 1	WALLBOARD: NONE DETECTED JOINT COMPOUND: NONE DETECTED	QC: A 20 % CELLULOSE 5 % FIBROUS GLASS  GYPSUM CARBONATE
Client: <b>NEM 2305-23</b> Micro: 47266-23      Analyst: GR ALBERTSON'S - WALL SYSTEM 2	WALLBOARD: NONE DETECTED INSUFFICIENT JOINT COMPOUND FOR ANALYSIS	30 % CELLULOSE  GYPSUM CARBONATE
Client: <b>NEM 2305-24</b> Micro: 47266-24      Analyst: GR 2525 BLANDING AVENUE WALL SYSTEM	WALLBOARD: NONE DETECTED JOINT COMPOUND: NONE DETECTED PAINT: NONE DETECTED	10 % CELLULOSE 5 % FIBROUS GLASS  GYPSUM ROCK FRAGMENTS SYNTHETIC MATERIAL

Technical Supervisor:

Bacija Ke, Ph. D.

6/13/2003

Date Reported

NOTES: Weight % cannot be determined by PLM estimation or point counts. Asbestos fibers with diameter below -1 µm may not be detected by PLM. The absence of asbestos in dust or debris (including wipe or microvacuum), and in some compact materials, including floor tiles, cannot be conclusively established by PLM, and should be confirmed by Transmission Electron Microscopy (TEM). Dominant non-asbestos materials are indicated; other miscellaneous particles are present in most samples. This report must not be interpreted as a conclusive identification of non-asbestos (fibrous or not). Preparation (all samples): grinding, milling; teasing bundles apart, drying, if needed, by hotplate. Acid dissolution, ashing, or other matrix reduction techniques may be applied to some samples; residue asbestos % is corrected for amount of matrix removed. Various sample interferences may prevent detection of small asbestos fibers, and hinder determination of some optical properties. Notes are made if point counting is used; otherwise, asbestos is quantified by calibrated visual estimation. Detection limit is material dependent. Detection of asbestos traces (<<1%) may not be reliable or reproducible by PLM. Lower quantitation limit (reporting limit) of PLM estimation is 1%. The 95% UCL and LCL (Upper and Lower Confidence Limits) represent the highest and lowest expected concentrations for an asbestos point count, based on reported concentration and Poisson statistics. The Cal-OSHA definition of asbestos-containing construction material is 0.1% asbestos by weight; however, reliable determination of asbestos weight percent at this level cannot be done by PLM, and TEM is recommended. Layers of heterogeneous samples are analyzed separately; asbestos percentages are reported for individual layers. Interlayer contamination is possible among any layers in a sample. Composite asbestos percentages on multilayered samples are applicable only to layered wall systems (wallboard, joint compound, and related materials); compositing is based on clients' descriptions of a material as "joint compound". Clients are solely responsible for identification and description of bulk materials listed on field forms. Laboratory sample descriptions may differ from descriptions given by the client. "Quality Control (QC) Codes: A = all materials confirmed (reanalysis within acceptance limits); B = no asbestos detected in lab tank (SRM 1866a Fibrous Glass or equivalent); R = all materials confirmed after multiple result resolutions. NIST / NVLAP Accreditation Lab Code: #101872-0. California ELAP Certification #37. EPA test method is based on the EPA Interim Method (1982), with several improvements in analytical techniques. This report must not be used to claim product endorsement by NIST any U.S. Government agency. This report must not be reproduced except in full, with approval of Micro Analytical Laboratories, Inc. This report pertains only to the listed samples, as submitted to and analyzed by Micro Analytical Laboratories, Inc. and must not be interpreted as a hazard assessment or as a representation of any material in the field. Friability can only be assessed by field inspection.





ACUMEN  
 INDUSTRIAL HYGIENE INC.  
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 WWW.ACUMEN-IH.COM

CHAIN OF CUSTODY FORM

47266

Project No. NEH 2305

Job Site: 2525-2671 BLANDING AVE.,  
MANHATTAN, CA  
 Location: VARIOUS  
 Sample Date: JUNE 10, 2003

Laboratory: MICROANALYTICAL  
 Turnaround Time: NORMAL  
 Samplers: MICHAEL CANNON

Sample No.	Location/Description	Analysis	Volume (liters)	Method
NEH 2305-01	2643 BLANDING AVE, 12x12" VINYL	ASBESTOS	N/A	PLM
NEH 2305-02	2643 BLANDING AVE, VINYL FLOORING	}	}	}
NEH 2305-03	2639 BLANDING AVE, TEXTURED WALL SYSTEM			
NEH 2305-04	2631 BLANDING AVE, VINYL FLOORING			
NEH 2305-05	2631 BLANDING AVE, 12x12" VINYL TILE			
NEH 2305-06	2619 BLANDING AVE, 12x12" VINYL TILE			
NEH 2305-07	2619 BLANDING AVE, VINYL SHEETING			
NEH 2305-08	2619 BLANDING AVE, 12x12" LIGHT GRAY VINYL TILE			
NEH 2305-09	2607 BLANDING AVE, TILE MANTLE			
NEH 2305-10	2607 BLANDING AVE, WALL SYSTEM			

Other Instructions:

Please sign this form below acknowledging sample receipt and return executed form with laboratory reports.

Sent by: <u>Michael Cannon</u>	Received by: <u>[Signature]</u>
Date sent: <u>June 11, 2003</u>	Date received: <u>6/20/03 1440</u>

Sent via Fedex California Overnight airbill number: 4903 - 1628 - 1519



ACUMEN  
 INDUSTRIAL HYGIENE INC.  
 130 PRODUCE AVENUE, SUITE L SOUTH SAN FRANCISCO, CA 94080-6523  
 TEL 650 244-0887 FAX 650 244-0890  
 WWW.ACUMEN-H.COM

CHAIN OF CUSTODY FORM

47266

Project No. NEW 2305

Job Site: 2525-2671 BLANDING AVE,  
 ACAMISSA, CA

Laboratory: MICROANALYTICAL

Location: VARIOUS

Turnaround Time: NORMAL

Sample Date: JUNE 10, 2003

Samplers: MICHAEL CANNON

Sample No.	Location/Description	Analysis	Volume (liters)	Method
NEW 2305-11	2651 BLANDING AVE, VINYL FLOORING	ALDEHYDES		PLM
NEW 2305-12	2671 BLANDING AVE, BEIGE 12x12 TILES	}		}
NEW 2305-13	2671 BLANDING AVE, TAN 12x12"			
NEW 2305-14	2671 BLANDING AVE, WALL SECTION			
NEW 2305-15	2671 BLANDING AVE, TAN VINYL SHEET			
NEW 2305-16	2671 BLANDING AVE, LIGHT VINYL SHEET			
NEW 2305-17	ALBERTSON'S - TAN 12x12" FLOOR TILE			
NEW 2305-18	ALBERTSON'S - BEIGE 12x12" FLOOR TILE			
NEW 2305-19	ALBERTSON'S - VINYL SHEET (RESTROOM)			
NEW 2305-20	ALBERTSON'S - VINYL SHEET UNDER COAT			

Other Instructions:

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Date sent: <u>JUNE 11, 2003</u>	Date received: <u>6/12/03 1440</u>

Sent via California Overnight airbill number: 7903-1628-1S19



ACUMEN  
 INDUSTRIAL HYGIENE INC.  
 130 PRODUCE AVENUE, SUITE L SOUTH SAN FRANCISCO, CA 94080-6523  
 TEL 650 244-0857 FAX 650 244-0890  
 WWW.ACUMEN-IH.COM

CHAIN OF CUSTODY FORM

47266

Project No. *NEW 2305*

Job Site: *2525-26th BLANDING AVE,  
 ALHAMBRA, CA*

Laboratory: *MICRO ANALYTICAL*

Location: *VALID*

Turnaround Time: *NORMAL*

Sample Date: *JUNE 10, 2003*

Samplers: *ALVIN H. CUNHA*

Sample No.	Location/Description	Analysis	Volume (liters)	Method
<i>NEW 2305-21</i>	<i>RESERVOIR - TAP ON DUCT</i>	<i>AIRBORNS</i>		<i>PLM</i>
<i>NEW 2305-22</i>	<i>RESERVOIR - WALL SYSTEM 1</i>	}		}
<i>NEW 2305-23</i>	<i>RESERVOIR - WALL SYSTEM 2</i>			
<i>NEW 2305-24</i>	<i>2525 BLANDING AVE, WALL SYSTEM</i>			

Other Instructions

Please sign this form below acknowledging sample receipt and return executed form with laboratory reports.

Sent by <i>Alvin Cunha</i>	Received by: <i>[Signature]</i>
Date sent <i>June 11, 2003</i>	Date received <i>6/12/03 1440</i>

Sent via FedEx  automatic overnight airbill number: *7903-1628-1519*

# MICRO ANALYTICAL LABORATORIES, INC.

BULK ASBESTOS ANALYSIS - PLM (EPA/600/R-93/116, 1993)

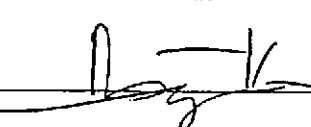
1092

Acumen Industrial Hygiene, Inc.  
130 Produce Avenue, Ste. L  
South San Francisco, CA 94080

PROJECT:  
**BRIDGESIDE SHOPPING CENTER**  
2500 - 2691 BLANDING AVENUE  
ALAMEDA, CA  
PROJECT NO. NEM 2305

Micro Log In **48187**  
Total Samples **1 1**  
Date Sampled **07/07/2003**  
Date Received **07/07/2003**  
Date Analyzed **07/07/2003**

SAMPLE INFORMATION	ASBESTOS INFORMATION QUANTITY (AREA %) / TYPES / LAYERS / DISTINCT SAMPLES	DOMINANT OTHER MATERIALS
Client: <b>NEM 2305-25</b> Micro: 48187-01 Analyst: GR ROOF PARAPET - EAST	TAR WITH GRAVEL: 5% CHRYSOTILE FELT: NONE DETECTED GLOSSY TAR: NONE DETECTED TAR / SILVER PAINT: 3% CHRYSOTILE PAINT: NONE DETECTED	15 % FIBROUS GLASS  ROCK FRAGMENTS SYNTHETIC MATERIAL
Client: <b>NEM 2305-26</b> Micro: 48187-02 Analyst: GR MAIN ROOF - EAST	TAR WITH GRAVEL: <u>NONE DETECTED</u> FELT: NONE DETECTED SHINY TAR: NONE DETECTED	15 % FIBROUS GLASS  CARBONATE SYNTHETIC MATERIAL
Client: <b>NEM 2305-27</b> Micro: 48187-03 Analyst: GR ROOF PARAPET - WEST	TAR WITH GRAVEL: NONE DETECTED FELT: NONE DETECTED GLOSSY TAR: NONE DETECTED DULL TAR ON TOP (SEALANT): 5% CHRYSOTILE	15 % FIBROUS GLASS  ROCK FRAGMENTS SYNTHETIC MATERIAL
Client: <b>NEM 2305-28</b> Micro: 48187-04 Analyst: GR BK ROOF PARAPET - WEST	TAR WITH GRAVEL: NONE DETECTED FELT: NONE DETECTED GLOSSY TAR: NONE DETECTED	QC: A  25 % FIBROUS GLASS  CARBONATE ROCK FRAGMENTS SYNTHETIC MATERIAL
Client: <b>NEM 2305-29</b> Micro: 48187-05 Analyst: GR MAIN ROOF - WEST	TAR WITH GRAVEL: NONE DETECTED FELT: NONE DETECTED GLOSSY TAR: NONE DETECTED	15 % FIBROUS GLASS  CARBONATE ROCK FRAGMENTS SYNTHETIC MATERIAL

Technical Supervisor:  7/7/2003  
Baojia Ke, Ph. D. Date Reported

NOTES: Weight % cannot be determined by PLM estimation or point counts. Asbestos fibers with diameter below -1 µm may not be detected by PLM. The absence of asbestos in dust or debris (including wipe or microvacuum), and in some compact materials, including floor tiles, cannot be conclusively established by PLM, and should be confirmed by Transmission Electron Microscopy (TEM). Dominant non-asbestos materials are indicated; other miscellaneous particles are present in most samples. This report must not be interpreted as a conclusive identification of non-asbestos (fibrous or not). Preparation (all samples): grinding, milling; teasing bundles apart; drying, if needed, by hotplate. Acid dissolution, ashing, or other matrix reduction techniques may be applied to some samples; residue asbestos % is corrected for amount of matrix removed. Various sample interferences may prevent detection of small asbestos fibers, and hinder determination of some optical properties. Notes are made if point counting is used; otherwise, asbestos is quantified by calibrated visual estimation. Detection limit is material dependent. Detection of asbestos traces (<<1%) may not be reliable or reproducible by PLM. Lower quantitation limit (reporting limit) of PLM estimation is 1%. The 95% UCL and LCL (Upper and Lower Confidence Limits) represent the highest and lowest expected concentrations for all asbestos point count, based on reported concentration and Poisson statistics. The Cal-OSHA definition of asbestos-containing construction material is 0.1% asbestos by weight; however, reliable determination of asbestos weight percent at this level cannot be done by PLM, and TEM is recommended. Layers of heterogeneous samples are analyzed separately; asbestos percentages are reported for individual layers. Interlayer contamination is possible among any layers in a sample. Composite asbestos percentages on multilayered samples are applicable only to layered wall systems (wallboard, joint compound, and related materials); compositing is based on clients' descriptions of a material as "joint compound". Clients are solely responsible for identification and description of bulk materials listed on field forms. Laboratory sample descriptions may differ from descriptions given by the client. \*Quality Control (QC) Codes: A = all materials confirmed (reanalysis within acceptance limits); B = no asbestos detected in lab blank (SRM 1866a Fibrous Glass or equivalent); R = all materials confirmed after multiple result resolutions. NIST / NVLAP Accreditation Lab Code: #101872-0. California ELAP Certification 1037. EPA test method is based on the EPA Interim Method (1982), with several improvements in analytical techniques. This report must not be used to claim product endorsement by NIST or any U.S. Government agency. This report must not be reproduced except in full, with approval of Micro Analytical Laboratories, Inc. This report pertains only to the listed samples, as submitted to and analyzed by Micro Analytical Laboratories, Inc. and must not be interpreted as a hazard assessment or as a representation of any material in the field. Friability can only be assessed by field inspection.

# MICRO ANALYTICAL LABORATORIES, INC.

## BULK ASBESTOS ANALYSIS BY PLM

1092

PROJECT:

Acumen Industrial Hygiene, Inc.  
130 Produce Avenue, Ste. L  
South San Francisco, CA 94080

BRIDGESIDE SHOPPING CENTER  
2500 - 2691 BLANDING AVENUE  
ALAMEDA, CA  
PROJECT NO. NEM 2305

Micro Log In 48187

Total Samples 11

Date Sampled 07/07/2003

Date Received 07/07/2003

Date Analyzed 07/07/2003

### ASBESTOS INFORMATION

SAMPLE INFORMATION

QUANTITY (AREA %) / TYPES / LAYERS / DISTINCT SAMPLES

DOMINANT  
OTHER MATERIALS

SAMPLE INFORMATION	QUANTITY (AREA %) / TYPES / LAYERS / DISTINCT SAMPLES	DOMINANT OTHER MATERIALS
Client: <b>NEM 2305-30</b> Micro: 48187-06 Analyst: GR ROOF SEALING COMPOUND - LS	TAR WITH GRAVEL: NONE DETECTED FELT: NONE DETECTED GLOSSY TAR: NONE DETECTED	15 % FIBROUS GLASS  CARBONATE ROCK FRAGMENTS SYNTHETIC MATERIAL
Client: <b>NEM 2305-31</b> Micro: 48187-07 Analyst: GR MAIN ROOF - ALBERTSON'S	TAR WITH GRAVEL: 3% CHRYSOTILE FELT: NONE DETECTED PAINT: NONE DETECTED DULL TAR: 5% CHRYSOTILE	10 % FIBROUS GLASS  ROCK FRAGMENTS SYNTHETIC MATERIAL
Client: <b>NEM 2305-32</b> Micro: 48187-08 Analyst: GR ROOF PARAPET - ALBERTSON'S	TAR WITH GRAVEL: NONE DETECTED FIBERGLASS FELT: NONE DETECTED SHINY TAR: NONE DETECTED BROWN FELT: 20% CHRYSOTILE	3 % CELLULOSE 15 % FIBROUS GLASS  ROCK FRAGMENTS SYNTHETIC MATERIAL
Client: <b>NEM 2305-33</b> Micro: 48187-09 Analyst: GR ROOF PARAPET - ALBERTSON'S	TAR WITH GRAVEL: NONE DETECTED FIBERGLASS FELT: NONE DETECTED SHINY TAR: NONE DETECTED BROWN FELT: 20% CHRYSOTILE	3 % CELLULOSE 15 % FIBROUS GLASS  ROCK FRAGMENTS SYNTHETIC MATERIAL
Client: <b>NEM 2305-34</b> Micro: 48187-10 Analyst: GR WALL SYSTEM - REAR 2647 BLANDING	WB & JC COMPOSITE: <1% CHRYSOTILE WALLBOARD: NONE DETECTED JOINT COMPOUND: 2% CHRYSOTILE PAINT: NONE DETECTED	20 % CELLULOSE  GYPSUM ROCK FRAGMENTS SYNTHETIC MATERIAL

Technical Supervisor:

Baojia Ke, Ph. D.

7/8/2003

Date Reported

Method: Polarized Light Microscopy (PLM), EPA/600/R-93/116, 1993. ND: None detected by PLM. Units: area percent. Weight percent cannot be determined by PLM visual estimation or point counting. Asbestos fibers with diameter below  $\sim 1 \mu\text{m}$  may not be detected by PLM. The absence of asbestos in dust or debris samples (including wipe or microvacuum), and in some compact materials, including floor tiles, cannot be conclusively established by PLM, and should be confirmed by Transmission Electron Microscopy (TEM). Only dominant non-asbestos materials are indicated; other miscellaneous particles are present in most samples. This report must not be interpreted as a conclusive identification of non-asbestos components, fibrous or non-fibrous. Preparation (all samples): grinding, milling; teasing bundles apart; drying, if needed, by hotplate heating. Acid dissolution, ashing, or other techniques may be applied to some complicated samples; if so, it is noted in the report. Various sample interferences may prevent detection of small asbestos fibers, and hinder determination of some optical properties. Notes are made if point counting is used; otherwise, asbestos is quantified by calibrated visual estimation. The detection limit is material dependent. Detection of traces of asbestos (<<1%) may not be reliable or reproducible by PLM. The lower quantitation limit (reporting limit) of PLM estimation is 1%. The 95% UCL and LCL (Upper and Lower Confidence Limits) represent the highest and lowest expected concentrations for a given asbestos point count, based on the reported concentration and Poisson statistics. The Cal-OSHA definition of asbestos-containing construction material is 0.1% asbestos by weight; however, reliable determination of asbestos weight percent at this level cannot be done by PLM, and requires TEM re-analysis. Individual layers of heterogeneous samples are analyzed separately; asbestos percentages are reported for individual layers. Interlayer contamination is possible among all layers in a sample. Composite asbestos percentages on multilayered samples are applicable only to layered wall systems (wallboard, joint compound, and related materials); compositing is based on clients' descriptions of a material as "joint compound". Clients are solely responsible for identification and description of bulk materials listed on field forms. Laboratory sample descriptions may differ from descriptions given by the client. "Quality Control (QC) Codes: A = all materials confirmed (re-analysis within acceptance limits); B = no asbestos detected in lab blank (NIST SRM 1866a Fibrous Glass or equivalent); R = all materials confirmed after multiple result resolutions. NIST / NVLAP Accreditation Lab Code: #101872-0. California ELAP Certification #1037. This test method is based on the EPA Interim Method (1982), with several improvements in analytical techniques. This report must not be used to claim product endorsement by NIST or any U.S. government agency. This report must not be reproduced except in full, with the approval of Micro Analytical Laboratories, Inc. This report pertains only to the listed samples, as submitted to and analyzed by Micro Analytical Laboratories, Inc. and must not be interpreted as a hazard assessment or as a representation of any material in the field. Reliability can only be assessed by field inspection.

# MICRO ANALYTICAL LABORATORIES, INC.

## BULK ASBESTOS ANALYSIS BY PLM

1092

Acumen Industrial Hygiene, Inc.  
130 Produce Avenue, Ste. L  
South San Francisco, CA 94080

PROJECT:

**BRIDGESIDE SHOPPING CENTER**  
**2500 - 2691 BLANDING AVENUE**  
**ALAMEDA, CA**  
**PROJECT NO. NEM 2305**

Micro Log In **48187**

Total Samples **11**

Date Sampled **07/07/2003**

Date Received **07/07/2003**

Date Analyzed **07/07/2003**

### ASBESTOS INFORMATION

QUANTITY (AREA %) / TYPES / LAYERS / DISTINCT SAMPLES

### DOMINANT OTHER MATERIALS

SAMPLE INFORMATION	ASBESTOS INFORMATION	DOMINANT OTHER MATERIALS
Client: <b>NEM 2305-35</b> Micro: <b>48187-11</b> Analyst: <b>GR</b> <b>WALL SYSTEM</b> <b>2631 BLANDING</b>	<b>WALLBOARD: NONE DETECTED</b> <b>JOINT COMPOUND: NONE DETECTED</b> <b>PAINT: NONE DETECTED</b>	<b>20 % CELLULOSE</b>  <b>GYPSUM CARBONATE</b>

Technical Supervisor: 

Baojia Ke, Ph. D.

7/8/2003

Date Reported

Method: Polarized Light Microscopy (PLM), EPA/600/R-93/116, 1993. ND: None detected by PLM. Units: area percent. Weight percent cannot be determined by PLM visual estimation or point counting. Asbestos fibers with diameter below -1 µm may not be detected by PLM. The absence of asbestos in dust or debris samples (including wipe or microvacuum), and in some compact materials, including floor tiles, cannot be conclusively established by PLM, and should be confirmed by Transmission Electron Microscopy (TEM). Only dominant non-asbestos materials are indicated; other miscellaneous particles are present in most samples. This report must not be interpreted as a conclusive identification of non-asbestos components, fibrous or non-fibrous. Preparation (all samples): grinding, milling; teasing bundles apart; drying, if needed, by hotplate heating. Acid dissolution, ashing, or other techniques may be applied to some complicated samples; if so, it is noted in the report. Various sample interferences may prevent detection of small asbestos fibers, and hinder determination of some optical properties. Notes are made if point counting is used; otherwise, asbestos is quantified by calibrated visual estimation. The detection limit is material dependent. Detection of traces of asbestos (<<1%) may not be reliable or reproducible by PLM. The lower quantitation limit (reporting limit) of PLM estimation is 1%. The 95% UCL and LCL (Upper and Lower Confidence Limits) represent the highest and lowest expected concentrations for a given asbestos point count, based on the reported concentration and Poisson statistics. The Cal-OSHA definition of asbestos-containing construction material is 0.1% asbestos by weight; however, reliable determination of asbestos weight percent at this level cannot be done by PLM, and requires TEM re-analysis. Individual layers of heterogeneous samples are analyzed separately; asbestos percentages are reported for individual layers. Interlayer contamination is possible among all layers in a sample. Composite asbestos percentages on multilayered samples are applicable only to layered wall systems (wallboard, joint compound, and related materials); compositing is based on clients' descriptions of a material as "joint compound". Clients are solely responsible for identification and description of bulk materials listed on field forms. Laboratory sample descriptions may differ from descriptions given by the client. \*Quality Control (QC) Codes: A = all materials confirmed (re-analysis within acceptance limits); B = no asbestos detected in lab blank (NIST SRM 1866a Fibrous Glass or equivalent); R = all materials confirmed after multiple result resolutions. NIST / NVLAP Accreditation Lab Code: #101872-0. California ELAP Certification #1037. This test method is based on the EPA Interim Method (1982), with several improvements in analytical techniques. This report must not be used to claim product endorsement by NIST or any U.S. government agency. This report must not be reproduced except in full, with the approval of Micro Analytical Laboratories, Inc. This report pertains only to the listed samples, as submitted to and analyzed by Micro Analytical Laboratories, Inc. and must not be interpreted as a hazard assessment or as a representation of any material in the field. Friability can only be assessed by field inspection.

**A** 1092

### CHAIN OF CUSTODY FORM

48187

ACUMEN  
INDUSTRIAL HYGIENE INC.  
130 PRODUCE AVE SUITE L SOUTH SAN FRANCISCO CA 94080  
TEL 650 244 0887 FAX 650 244 0890  
WWW.ACUMEN-IH.COM

Project No. NEM2305

Job Site: *Bridgeside Shopping Center*

Laboratory: *MicroAnalytical Lab*

Location: *2500-2691 Blanding Avenue, Alameda, CA*

Turnaround Time: *Normal*

Sample Date: *July 7, 2002*

Sampler: *Michael Connor, CIH, CSP*

Sample No.	Location/Description	Analysis	Volume (liters)	Method			
01 NEM 2305-25	ROOF PARAPET - EAST	<del>ATBELSON</del>	n/a	PLM <del>ATBELSON</del>			
02 NEM 2305-26	MAIN ROOF - EAST	↓	↓	↓			
03 NEM 2305-27	ROOF PARAPET - WEST						
04 NEM 2305-28	MAIN ROOF - WEST						
05 NEM 2305-29	ROOF STAIRING CURB/WALL - LS						
06 NEM 2305-30	ROOF PARAPET - LS						
07 NEM 2305-31	MAIN ROOF - LS						
08 NEM 2305-32	MAIN ROOF - ALBERTSON'S						
09 NEM 2305-33	ROOF PARAPET - ALBERTSON'S						
10 NEM 2305-34	WALL SYSTEM, REAR 2691 BLANDING				↓	↓	↓
11 NEM 2305-35	WALL SYSTEM, 2631 BLANDING				↓	↓	↓

Please sign this form below acknowledging sample receipt and return executed form with laboratory reports.

Other Instructions:

Sent by: <i>[Signature]</i>	Received by: <i>[Signature]</i>
Date Sent: <i>07/07/03</i>	Date received: <i>7-7-03 1:40pm</i>