BASELINE

ENVIRONMENTAL CONSULTING
TRANSMITTAL

TO: Mr. LeRoy Griffin
City of Oakland, Fire Prevention Bureau
250 Frank H. Ogawa Plaza, Suite 3341
Oakland, CA 94612-2032

DATE: 29 April 2003
PROJECT NO.: Y0323-01
Via:
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SUBJECT: Soil and Groundwater Investigation Report, 751-785 Brush Street, Oakland, California

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COMMENTS:

cc: Mr. Tom McCoy, Brush Street Group (w/1 enclosure)
Mr. Mark Gomez, City of Oakland (w/1 enclosure)

TRANSMITTED BY:

Lydia Huang, Senior Engineer

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29 April 2003
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Mr. LeRoy Griffin
City of Oakland
Fire Prevention Bureau
250 Frank H. Ogawa Plaza, Suite 3341
Oakland, CA 94612-2032

Subject: Soil and Groundwater Investigation Report, 751-785 Brush Street, Oakland, California 94607

Dear Tom:

On behalf of Brush Street Group, LLC, BASELINE is submitting this soil and groundwater investigation report for the Site located at 751-785 Brush Street in Oakland. Brush Street Group is requesting that the City provide regulatory oversight related to chemical constituents present in the subsurface. We understand that the City may choose to transfer the case to Alameda County Health Care Agency in accordance with an existing relationship between the City and County.

Brush Street Group will be taking title of the Site in the near future. The previous owner(s) was in bankruptcy and left the Site unused since about 1998. Major Chabot Partners, predecessor of Brush Street Group, applied for and received a loan from the California Pollution Control Financing Authority for investigation and possible remediation of the Site, via the City of Oakland Community and Economic Development Agency One Stop Capital Shop. The loan is to be used for environmental assessment and characterization, technical assistance, and to assist in the remediation planning and regulatory process.

The Site was used as a plating facility since the 1950s. The U.S. Environmental Protection Agency directed a removal action in 1998/1999 at the Site, at the request of the Oakland Fire Department, to inventory and remove a variety of chemicals and wastes that were abandoned. Since the completion of the removal actions, "squatters" have stored old cars and other materials at the Site. The squatters have since vacated the site.

The Site is currently completely paved with six inches of concrete, except for several small areas of bare soil along 7th and Brush streets. The attached report on the soil and groundwater investigation summarizes the results of data collection from seven borings and two groundwater monitoring wells. Data from the investigation were used to conduct a risk based screening assessment using guidance

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developed by the City of Oakland Urban Land Redevelopment Program assuming a residential land use scenario. Except for two apparent isolated "hot spots", the concentrations of chemicals in the soil and groundwater at the Site are below the Tier 1 risk-based screening levels for residential use. The report recommends that the extent of the affected soils at these two locations be defined and all soil exceeding the Tier 1 RBSLs be removed from the Site upon redevelopment.

Should you need any additional information or have any questions regarding this report, please do not hesitate to contact us at your convenience. We look forward to working with you on the project.

Sincerely,

Lydia Huang
Senior Engineer
P.E. No. 43395

Rhodora Del Rosario, P.E.
Engineer

LH:km
Enclosure

cc: Mr. Tom McCoy, Brush Street Group
Mr. Mark Gomez, City of Oakland, Pubic Works Agency

SOIL AND GROUNDWATER INVESTIGATION

751-785 Brush Street
Oakland, California

APRIL 2003

For:

Brush Street Group
Oakland, California

Y0323-01

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751-785 Brush Street
Oakland, California

INTRODUCTION

This report documents the findings of a subsurface soil and groundwater investigation performed in February 2003 at 751-785 Brush Street in Oakland, California ("Site") (Figure 1). The investigation was conducted by BASELINE on behalf of Major Chabot Partners. The purpose of the investigation was to evaluate whether former land uses at the Site may have impacted the underlying shallow soil and groundwater.

The investigation was performed in accordance with a work plan dated 4 September 2002. The scope-of-work consisted of installing seven soil borings and three groundwater monitoring wells, collecting soil and water samples for laboratory chemical analysis, conducting a preliminary risk screening based on Oakland Risk-Based Corrective Action guidance, and conducting a preliminary waste disposal evaluation of subsurface soils that may require off-site disposal if the Site were to be improved or redeveloped. The only substantial deviation from the proposed scope-of-work was that one of the three wells was not installed, and the other two wells were installed within the Site boundary instead of on the adjacent street right-of-way. This change was necessitated by the short time frame available to complete the investigation, which prevented procurement of the City of Oakland Street Encroachment and Excavation permits.

BACKGROUND

The Site has been used as a plating facility since about 1957 and was most recently operated as Francis Plating, which appeared to have ceased operations around 1998. Francis Plating performed nickel and cadmium electroplating, aluminum anodizing, and chromic acid passivation for stainless steel parts. Chemicals known to have been used at Francis Plating include acids, ketones, cyanide, and metals. In addition, the Site appeared to have also been used to store wastes brought to the Site from other facilities in the 1990s.

An inspection by the Oakland Fire Department in 1998 revealed improper storage of large volumes of hazardous wastes and materials. The Oakland Fire Department requested assistance from the U.S. EPA Office of Emergency Response to assess the situation and to perform emergency removal actions. Ecology and Environment, Inc., acting under a U.S. EPA On-Scene Coordinator, performed the removal actions. As a result, all the liquids, sludges, and solids contained in drums, tanks, vats, and vaults were inventoried, characterized, and removed from the Site. The depressed vault inside the plating building, where the majority of plating activities occurred, and an outdoor waste pond

("Frog Pond") were also scrubbed and rinsed to removed residues left by removed liquids and sludges.

Versar, Inc., performed Phase I and II Site assessments at the Site in 1993, as referenced in a Phase I Environmental Site Assessment conducted in 1997 (Hillman, 1997). However, documentation of the assessments is incomplete. Based on the limited documentation available, it appeared that up to 19 borings were drilled across the Site. Some or all of the samples were analyzed for metals, polycyclic aromatic hydrocarbons (PAHs), volatile organic compounds (VOCs), polychlorinated biphenyls (PCBs), and cyanide. It did not appear that groundwater sampling was conducted during the investigation.

SUBSURFACE INVESTIGATION

A total of seven soil borings (B-FP1 through B-FP7) were installed on 4 and 5 February 2003 at the Site. Two monitoring wells (MW-FP1 and MW-FP2) were installed on 10 February 2003 at the Site.[1] Three grab groundwater samples were collected from soil borings B-FP3, B-FP4, and B-FP5 and two groundwater samples were collected from monitoring wells MW-FP1 and MW-FP2.

All field activities were conducted in accordance with a Site-specific health and safety plan prepared in accordance with the requirements of Title 8 of the California Code of Regulations, Section 5192 (Appendix A). Prior to field activities, BASELINE submitted boring and well installation permit applications to the Alameda County Public Works Agency and City of Oakland Traffic Permit (Appendix B). Underground utility clearance was also obtained from Underground Service Alert.

SOIL SAMPLE COLLECTION AND ANALYSIS

Seven soil borings were completed by Precision Sampling, Inc., of Richmond under the supervision of a BASELINE registered geologist (Figure 2). Subsurface soils were classified by the BASELINE geologist in accordance with the Unified Soil Classification System as recorded in the boring logs (Appendix C).

Soil borings were drilled to depths ranging from 16 to 25 feet below the ground surface (bgs). Hydraulically-driven direct-push technology using a double-barrel corer was used to drill the soil borings. Soil samples were collected at depths ranging from about two to seven feet bgs for chemical analysis.

Soil samples were collected from each boring beginning at about two feet bgs within the fill layer. A second set of samples was collected just below the fill/native interface at around five feet bgs. A third set of samples were collected from seven feet bgs within the native material. Deeper samples were collected but were not subsequently analyzed.

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[1] The workplan called for the installation of three off-site monitoring wells on the streets. However, due to the very short-time frame available for procurement of an encroachment permit from the City of Oakland, BASELINE was directed by Major Chabot Partners to install two monitoring wells on-site, and omit the third well.

Soil samples were collected using a double-barrel direct-push sampler, fitted with three 6-inch pre-cleaned stainless steel sleeves. Each sample sleeve retrieved and submitted to the laboratory was closed with teflon film and plastic caps, sealed with silicon tape, labeled, placed in a ziplock bag, and stored in a cooled container. EnCore™ samplers were generally used to collect samples for VOC and total petroleum hydrocarbons (TPH) as gasoline analyses. The EnCore™ samplers were pushed into the soil retained in the end of the stainless steel liners immediately upon retrieval from the borehole. The entire liner adjacent to the end used for the EnCore™ sample was submitted to the laboratory for the nonvolatile analyses. The EnCore™ samplers were not used for one set of samples (B-FP4 from 5-foot bgs) because sample recovery was poor for that particular interval, and for all of the 7-foot bgs samples since those samples were to be composited for analysis.

All soil samples were submitted under proper chain of custody to Curtis and Tompkins, Ltd, in Berkeley, a State-certified laboratory and the list of analyses performed are summarized in Table 1 The two- and five-foot soil samples were analyzed for the following:

- TPH as gasoline by EPA Method 8015M
- TPH as diesel by EPA Method 8015M (with a silica gel cleanup)
- Title 22 metals by EPA Methods 6000/7000 Series
- VOCs by EPA Method 8260B
- PAHs by EPA Method 8310;
- PCBs by EPA Method 8082
- pH by EPA Method 9045C
- Cyanide by EPA Method 335.2
- Hexavalent chromium by EPA Method 7196A

The seven-foot samples collected from the Merritt Sands were composited into two samples by the laboratory for the same analyses described above. The composite sample COMP FY was made up of the 7-foot samples collected from B-FP1, B-FP2, B-FP3, and B-FP4 located in the "front yard", and the second composite sample, COMP RY, was made up of the 7-foot samples collected from B-FP5, B-FP6, and B-FP7 from the "rear yard" (Figure 2). Samples collected from deeper than seven feet bgs were placed on hold at the laboratory, and were not subsequently analyzed.

All the soil borings were backfilled with neat cement to the surface at the completion of sampling. Soil cuttings and decontamination water generated from field activities were placed in three 55-gallon drums and two 5-gallon covered plastic buckets, sealed, labeled, and stored at the Site.

GRAB GROUNDWATER SAMPLE COLLECTION AND ANALYSES

Grab groundwater samples were collected from soil borings B-FP3, B-FP4, and B-FP5 (Figure 2). New temporary one-inch polyvinyl chloride (PVC) casings with slotted screen sections were inserted into the boreholes following soil sample collection; the screens were left in-place to allow groundwater accumulate and stabilize in the temporary casing. Grab water samples were collected using a peristaltic pump and new disposable polyethylene tubing into laboratory-provided bottles. The groundwater samples were submitted, using proper chain-of-custody procedures, to Curtis and Tompkins Laboratory, Ltd., for laboratory analyses.

The sample collected from boring B-FP3 was analyzed for TPH as gasoline and TPH as diesel (with silica gel cleanup) (Table1). The samples collected from borings B-FP4 and B-FP5 were analyzed for TPH as gasoline, TPH as diesel, Title 22 metals (filtered), VOCs, PAHs, PCBs, cyanide, and hexavalent chromium.

MONITORING WELL INSTALLATION AND GROUNDWATER SAMPLE COLLECTION AND ANALYSES

Two groundwater monitoring wells, MW-FP1 and MW-FP2, were installed by Clearheart Drilling of Guerneville under the supervision of a BASELINE registered geologist on 10 February 2003 (Figure 2). Subsurface soils were logged by a BASELINE geologist in accordance with the Unified Soil Classification System (Appendix C).

The monitoring wells were installed using hollow-stem augers and completed to 25 feet bgs. The wells were constructed with 2-inch diameter PVC casings and with 13-foot, 0.01-inch machine-slotted screen sections. The screened interval extended from 12 to 25 feet bgs. The monitoring wells were sealed with locking caps and protected in a Christy box set flush with the existing ground/concrete surface. Well construction details are provided in Appendix D.

The wells were developed by surging and pumping one day after well installation. A peristaltic pump and new disposable tubing was used to extract the water. Development was considered complete once the wells produced clear water (Appendix D).

BASELINE collected one groundwater sample from each monitoring well on 12 February 2003. Prior to sample collection, the water levels were measured to the nearest one-hundredth of a foot using a dual-phase probe. Groundwater was purged from the wells using a peristaltic pump and new disposable tubing until the electrical conductivity, pH, and temperature of the water stabilized. The instruments were decontaminated between the wells by washing in a Alconox solution and rinsing with potable water. Groundwater sampling forms are provided in Appendix E.

Groundwater samples were collected directly into laboratory-provided bottles. Sample bottles were labeled and stored in a cooler containing ice. The samples were submitted under chain-of-custody procedures to Curtis and Tompkins Laboratory , Ltd., and analyzed for (Table 1):

- TPH as gasoline by EPA Method 8015M
- TPH as diesel by EPA Method 8015M (with a silica gel cleanup)
- Title 22 metals by EPA Methods 6000/7000 Series
- VOCs by EPA Method 8260B
- PAHs by EPA Method 8310;
- PCBs by EPA Method 8082
- Cyanide by EPA Method 335.2; and
- Hexavalent chromium by EPA Method 7196A

Groundwater from well development and purging, and decontamination water from sampling activities was stored in three 55-gallon drums and stored at the Site.

SITE HYDROGEOLOGY

The Site is level. The entire Site is paved with about six inches of concrete except for a small area outside of the fence along Brush Street, which appears to be part of the assessor's parcel. In addition, two small planter areas along 7th Street, which appear to be outside of the parcel but within the current fence around the Site, is unpaved. About 3.5 to 4.5 feet of fairly homogeneous sand fill underlie the concrete at all locations explored. Native Merritt Sands, generally described as a yellowish brown silty sand-sand with interbedding, was present under the sand fill and extended beyond the maximum depth explored at all locations (16 to 26.5 feet bgs).

Groundwater level was about 12.5 to 14 feet bgs in the two groundwater monitoring wells. Because the third proposed well was not installed, groundwater flow direction at the Site could not be determined. However, groundwater monitoring conducted at the Shell service station, located immediately adjacent to the Site on Market Street, indicates groundwater flow direction to be consistently toward the southwest, toward 6th Street, based on water level data collected in between December 1999 and 2002 (Cambria, 2003).

SUBSURFACE QUALITY

A discussion of the analytical results is provided below. A summary of the soil and groundwater analytical results are provided in Tables 2 and 3, respectively. The laboratory reports are included in Appendix F.

SOIL QUALITY

One sample of the fill was collected from each of the seven borings at depths between 1.5 to 3 feet bgs. One sample of the Merritt Sands was also collected from each boring within six-inches to one-foot below the fill/Merritt Sands interface, generally between five to six feet bgs. All of these samples were analyzed discretely. A second set of Merritt Sands samples, collected from seven feet bgs, were also collected; these samples were composited into two samples by the laboratory for analysis (Table 1).

TPH as Gasoline and as Diesel

None of the fill or Merritt Sands soil samples contained TPH as gasoline above the laboratory reporting limit. Only two of the samples collected from the fill (B-FP5 from 2-2.5 feet bgs and B-FP7 from 2.5-3 feet bgs) contained TPH as diesel at 3.4 and 3.6 mg/kg, near the laboratory reporting limit of 1 mg/kg (Table 2). Both results were qualified by the laboratory to indicate that hydrocarbons heavier the diesel standard contributed to the value and that the samples exhibited a chromatogram pattern which did not resemble the diesel standard. None of the other fill samples or any of the Merritt Sands samples contained TPH as diesel above the laboratory reporting limit.

Metals

None of the fill or Merritt Sands soil samples contained antimony, selenium, silver, or thallium above laboratory reporting limits. With a few exceptions, discussed below, metal concentrations were very low in both fill and Merritt Sands samples. The notable exceptions were for the samples collected from B-FP3 from 5-5.5 feet bgs, B-FP6 from 2-2.5 feet bgs, and B-FP6 from 5-5.5 feet bgs, and B-FP7 from 2.5-3 feet bgs, as follows:

- The B-FP3 sample from 5-5.5 feet bgs (Merritt Sands sample) contained total nickel at 995 mg/kg and soluble nickel concentration as determined by the Waste Extraction Test (WET) of 31 mg/L (Table 2).
- The B-FP6 sample from 2-2.5 feet bgs (fill sample) contained total lead at 1,260 mg/kg and total nickel at 368 mg/kg. This sample also contained soluble metal concentrations as determined by WET of 1.5 mg/L for lead and 17 mg/L for nickel; the Toxicity Characteristic Leaching Procedure (TCLP) lead concentration for this sample was below the laboratory reporting limit of 0.3 mg/L.
- The B-FP6 sample from 5-5.5 feet bgs (Merritt Sands sample) contained total nickel at 320 mg/kg and soluble WET nickel at 26 mg/L.
- The B-FP7 sample from 2.5-3 feet bgs (fill sample) contained total lead at 141 mg/kg; there was insufficient sample to perform soluble lead analysis on this sample.

Hexavalent Chromium

None of the fill samples contained hexavalent chromium above the laboratory reporting limit of 0.05 mg/kg (Table 2). Two of the samples collected in the Merritt Sands near the fill interface contained hexavalent chromium concentrations of 0.09 to 0.59 mg/kg.

VOCs

Only three soil samples contained any VOCs above laboratory reporting limits. Sample B-FP3 from 1.5 feet bgs (fill sample) contained trichloroethene at 24 µg/kg (Table 2). Sample B-FP5 from 2.5 feet bgs (fill sample) contained 33 µg/kg of trichloroethene and 5.4 µg/kg of 1,1,1-trichloroethane. The Merritt Sands sample from B-FP6, collected about six inches below the fill interface at approximately five feet bgs, contained 1,1,1-trichloroethane at 5.0 µg/kg. None of the other VOCs were identified above the laboratory reporting limits in any of the samples.

PAHs

Only one of the 16 samples contained PAHs above laboratory reporting limit. The fill sample collected from B-FP7 at 2.0-2.5 feet bgs contained PAHs at a total concentration of 30.5 mg/kg (Table 2). The PAHs appears to be limited to this area since the samples collected from all the other boring locations did not contain PAHs; in addition, deeper samples collected from B-FP7 also did not contain PAHs above the laboratory reporting limits.

PCBs

None of the fill or Merritt Sands samples contained any PCBs above the laboratory reporting limit of 1 mg/kg (Table 2).

Cyanide

Only one sample contained cyanide above the laboratory reporting limit of 1 mg/kg. Sample B-FP7 from 5 feet bgs (Merritt Sands about six inches below the fill interface) contained 11 mg/kg of cyanide (Table 2).

pH

The pH of the samples collected from the fill were between 5.9 and 9.2 and from the Merritt Sands were between 5.2 to 8.0, respectively (Table 2).

GROUNDWATER QUALITY

Grab groundwater samples were collected from borings B-FP3, B-FP4, and B-FP5. In addition, groundwater samples were collected from monitoring wells MW-FP1 and MW-FP2.

TPH Gasoline and Diesel

The only sample containing TPH as gasoline above laboratory reporting limit was the grab groundwater sample from boring B-FP3 (Figure 2). The laboratory reported that TPH gasoline was present at 150 µg/L but qualified the result by noting that the chromatogram did not resemble the gasoline standard, and that unknown individual peak(s) were present (Table 3).

The groundwater samples from both MW-FP1 and MW-FP2 contained TPH as diesel at 260 and 110 µg/L, respectively. These results were qualified by laboratory notes that indicated the chromatograms did not resemble the diesel standard, and hydrocarbons heavier than diesel were included in the reported value (Table 3).

Metals and Hexavalent Chromium

The groundwater samples collected from B-FP4, B-FP5, MW-FP1, and MW-FP2 were analyzed for metals. The only metals identified above laboratory reporting limits in any of the samples were barium (concentrations ranged between 62 and 110 µg/L), total chromium (between 17-61 µg/L), hexavalent chromium (between 10-70 µg/L), nickel (between 24-96 µg/L), and selenium (11 µg/L) (Table 3).

VOCs

The groundwater samples from B-FP4, B-FP5, MW-FP1, and MW-FP2 were analyzed for VOCs. The only VOC identified in any of the samples above laboratory reporting limits was trichloroethene, which was found in the grab groundwater samples from B-FP4 and B-FP5 at 21 and 42 µg/L, respectively (Table 3).

PAHs, PCBs and Cyanide

Groundwater samples from B-FP4, B-FP5, MW-FP1, and MW-FP2 were analyzed for PAHs, PCBs, and cyanide. None of the samples contained any of these compounds above the laboratory reporting limits (Tables 3).

HUMAN HEALTH RISK SCREENING

A preliminary human health risk screening evaluation was conducted using the American Society for Testing Materials Risk-Based Corrective Action (RBCA) assessment, as modified by the City of Oakland (City of Oakland, 2000), for hypothetical residential users. The Oakland-modified RBCA (Oakland RBCA) assessment provides risk-based screening levels (RBSLs) for soil and groundwater that is considered by regulatory agencies to be protective of human health. The purpose of the evaluation was to determine the potential health risk to future on-site users who may be exposed to chemicals present at the Site. The RBCA assessment does not address health risks associated with construction workers at the Site.

The Oakland RBCA provides Tier 1 RBSLs which are back calculated from target risk levels of 1×10^{-6} for carcinogens and a hazard quotient of 1.0 for noncarcinogens, and default parameters related to soil and groundwater properties, site conditions, toxicological properties, and exposure scenarios. Default parameters for outdoor and indoor volatilization/building parameters include foundation thickness, ceiling height, width of source area, areal fraction of cracks in building foundation, foundation cracks air and water content, particulate emission rate, wind speed, outdoor air mixing zone height, and averaging time for vapor flux.

The Oakland RBCA Eligibility Checklist and Cover Sheet were completed and are provided in Appendix E. The data from the site investigation did not meet one of the criterion in the eligibility checklist. Criterion 3 asks whether the number of compounds that exceeds RBSLs is greater than five. A total of six compounds exceeded the Tier 1 RBSL. Six PAH compounds, all present in only one soil sample collected from the site, exceeded the Tier 1 surficial soil RBSL for residential use; these compounds were not identified above laboratory reporting limits in the other 15 soil samples collected at the site, indicating that the PAH-contaminated soil is an isolated "hot spot".[2] This report recommends that the extent of PAH-contaminated soils at the one location be defined when the concrete near this location is removed for site improvements and/or redevelopment, and all soil with PAH concentrations above the Tier 1 RBSLs be removed. Therefore, the use of Tier 1 RBSL

[2] The combined cancer risk associated with the six PAHs is 2.2×10^{-4}, using default parameters assumed for Tier 1.

appears reasonable even though one of the eligibility criterion was not strictly met. For chemicals for which Oakland RCBA Tier 1 RBSLs have not been developed, RBSLs compiled by the Regional Water Quality Control Board (RWQCB) were used in the screening.

RECEPTORS AND EXPOSURE PATHWAYS

An exposure pathway generally consists of four elements: 1) a course and mechanism of chemical release, 2) retention or transport mechanism, 3) a point of potential contact with the contaminated medium, and 4) exposure route to the receptor at the contact point. An exposure pathway is incomplete if any of the above-mentioned elements is missing. Possible exposure routes considered in the Oakland RBCA are as follows:

1: ingestion, dermal contact, and inhalation of chemicals from surficial soils;
2: inhalation of chemicals in indoor and/or outdoor air that may volatilize from subsurface soils and groundwater;
3: ingestion of groundwater
4: ingestion and dermal contact with water used for recreation.

The screening evaluation conducted for the Site was based on a **residential** land use scenario, even though the near-term land use at the Site would be commercial/industrial. It is possible that the Site may be rezoned in the future to allow for mixed uses which may include live-work spaces, schools, churches, and retail (McCoy, 2003). The assumption of a residential land use scenario provides protection for future site users that may have direct and continual contact with the soils, such as children playing in the soil and occupants eating produce directly grown in on-site soils. This assumption is extremely conservative for near-term site users since the Site would probably continue to be used for commercial/industrial purposes and the soil is currently capped by six inches of concrete. The residential land use assumption may also be overly protective of potential long-term future residential users if future development plans provide for isolation of the soil from occupants by such means as pavement or imported soil for limited landscaping.

An exposure assessment flow chart is illustrated on Figure 3. Among the four possible exposure routes, listed above, only the first and second routes were considered applicable to this Site. Ingestion of groundwater is not a possible exposure route for this Site or other sites located downgradient (between the Site and the Oakland Inner Harbor) since drinking water is provided by the East Bay Municipal Utility District (EBMUD). While the Merritt Sands in general is considered a potential drinking water aquifer, the RWQCB does not consider the portion of the Merritt Sands located along the Inner Harbor a potential drinking water source (RWQCB, 2000). However, comparison of the groundwater quality data against Tier 1 groundwater ingestion RBSLs was conducted for completeness. Ingestion of and dermal contact with water used for recreation were not considered because there are no surface waters on the Site that may be used for recreation and the groundwater also cannot be used for recreational purposes.

to 4.44 mg/kg, while the Tier 1Surficial Soil RBSLs is 0.32 mg/kg.[5] The arsenic RBSL was developed based on cancer risk concerns and did not consider the presence of naturally occurring arsenic in soils. Background arsenic concentrations identified by the Oakland Urban Redevelopment Program that are relevant to sites within the City of Oakland ranged from 1.8 to 31 mg/kg; the Program recognizes that remediation to RBSLs will not result in reduced health risk for those chemicals with background concentrations greater than RBSLs (City of Oakland, 2003). The concentrations found on the Site are among the low range of these background concentrations. Therefore, Site arsenic concentrations should be considered background and does not indicate a historic release of arsenic-containing material to the subsurface.

The only other compounds found in the soil that exceeded Tier 1 RBSLs were benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, dibenz(a,h)anthracene, and indeno (1,2,3-c,d)pyrene which were only identified above laboratory reporting limits in one sample (B-FP7 from 2.5-3 feet bgs) (Table 2). These compounds exceeded the Tier 1 RBSLs for Surficial Soils. Boring B-FP7 is the only sample for which any of these compounds were identified above laboratory reporting limit of 50 µg/kg, which indicates that PAHs are most likely limited to this one location. This boring was drilled immediately adjacent to a sump, which in turn is adjacent to the depressed vault (dimensions of about 25 feet wide, 75 feet long, and 6 feet deep) once used to contain the majority of plating tanks inside the existing building. The plumbing associated with the sump is unknown. It is possible that the PAHs identified at this location were associated with materials once present in the sump or vault. However, since the B-FP7 area, like the rest of the Site, is currently capped with six inches of concrete, there is no current exposure to potential site users.

Among chemicals that do not have Oakland RBCA Tier 1 RBSLs and for which RWQCB RBSLs were used for comparison, the only chemical that exceeded the RWQCB RBSLs for residential land use in any of the soils samples was lead. The fill sample from B-FP6 collected from two feet bgs contained lead at 1,260 mg/kg, exceeding the RWQCB RBSL of 200 mg/kg (Table 2). The lead concentration in the other 15 samples collected from across the Site ranged from 2.08 to 141 mg/kg, with 14 of these samples containing lead at 5 mg/kg or less. It is uncertain whether the elevated lead concentration in B-FP6 may be associated with fire debris (pieces of charcoal and burnt material) observed in the fill at this location, as indicated in the boring log (Appendix C).

Screening of Groundwater Quality Data

Oakland RBCA Tier 1 RBSLs for groundwater for a residential land use scenario are listed in Table 3. Groundwater quality data from three grab groundwater samples and two samples collected from the newly installed wells were compared against the RBSLs. None of the groundwater data exceed Tier 1 Groundwater RBSLs for inhalation of indoor or outdoor air (note that only mercury, trichlorethene, PAHs have RBSLs for this exposure route).

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[5] The Merritt Sands samples, collected from about 5 to 7.5 feet bgs, were also compared against Tier 1 Surficial Soil RBSLs for arsenic even though the Surficial Soil RBSLs are intended only for soil within about the top three feet (one meter). This was done because there are no Tier 1 RBSLs for subsurface soils (deeper than one meter) and comparison against Surficial Soil RBSLs is more conservative.

Even though direct ingestion of groundwater is not considered a potential exposure route for this Site since drinking water is provided by EBMUD, and the RWQCB does not consider the groundwater in the Merritt Sands downgradient of the Site along the Inner Harbor to be a potential drinking water source, comparison of groundwater data against Tier 1 RBSLs for groundwater ingestion was conducted for completeness and to be conservative. The sample from MW-FP2 contained hexavalent chromium at 70 µg/L, slightly exceeding the Tier 1 RBSLs of 50 µg/L. The grab groundwater samples from B-FP4 and B-FP5 contained 21 and 42 µg/L trichloroethene, greater than the Tier 1 RBSLs of 5 µg/L.[6]

HAZARDOUS WASTE SCREENING

If soil were to be excavated from the Site and required offsite disposal, the particular volume of soil requiring disposal would need to be classified in accordance with Federal and State regulations to determine whether the soil would be considered a nonhazardous waste, a California hazardous waste, or a Federal (RCRA) hazardous waste. The waste classification dictates the disposal options available for the soil. Data from the investigation were used to perform a preliminary waste classification assessment to provide an indication of which constituents may possibly cause soil from the site to be considered a hazardous waste. If and when soil actually were to be excavated and disposed of off-site, then the particular volume of soil requiring disposal would need to be characterized for waste classification.

Title 40 of the Code of Federal Regulations (CFR) and Title 22 of the California Code of Regulations (CCR) contain definitions for Federal and California hazardous waste, respectively. Both sets of regulations define hazardous waste in terms of the waste's potential to exhibit toxicity, reactivity, corrosivity, and ignitability characteristics.

The soil from the Site does not exhibit reactivity (reacts with air or water violently) or ignitability (easily combusts) characteristics. The soil also does not exhibit the corrosivity characteristic because the range of pH of the soil samples ranged between 5.2 and 9.2, well within the range considered to be noncorrosive (less than 2 or greater than 12.5) (Table 2). The toxicity characteristic is therefore the only one of the four characteristics that may cause the soil that may be excavated to be classified as a hazardous waste. Specifically, the metals concentration in the soil are the constituents of concern.

Title 22 of the CCR specifies thresholds for 22 metals and certain organic compounds for defining California hazardous wastes. A waste that contains total concentrations of metals or compounds above the corresponding Total Threshold Limit Concentration (TTLC) is considered a California hazardous waste. Alternatively, if a waste contains soluble concentrations, as determined using the Waste Extraction Test (WET), above the Soluble Threshold Limit Concentrations (STLC) is also

[6] Even in the extremely unlikely event that groundwater in the Merritt Sands downgradient from the Site were to be used as a drinking water source and a minimum of a ten-fold attenuation occurred between the Site and the hypothetical extraction well, the concentrations found during this investigation suggest that there would be no excess health risk from drinking the groundwater from the hypothetical extraction well.

considered a California hazardous waste. If the total concentration of a chemical representative of the waste were greater than the TTLC and/or the soluble concentration were greater than the STLC, then the waste is a California hazardous waste. In practice, only if the total concentration of a chemical were equal to or greater than 10 times the STLC value is the actual soluble concentration determined using the WET, because of the ten-fold dilution required by the WET procedures.

Title 40 of the CFR similarly specifies thresholds for certain metals and organic compounds for defining a Federal (RCRA) hazardous waste. Unlike the California regulations, the Federal regulations contain thresholds for only soluble concentrations, as determined using the Toxicity Characteristic Leaching Procedure (TCLP). If the soluble concentrations of a waste were greater than the TCLP threshold, then the waste is a Federal (RCRA) hazardous waste.

Among the constituents of concern at the Site, only Title 22 metals and trichlorethene have hazardous waste thresholds. Soluble nickel concentrations in two samples and total lead concentration in one sample exceeded California hazardous waste thresholds.

NICKEL

The STLC for nickel is 20 mg/L. Because the total nickel concentrations in the B-FP3 sample from 5 feet bgs and B-FP6 samples from 2 and 5 feet bgs were greater than ten times the STLC, 200 mg/kg, these samples were analyzed for soluble nickel by the WET. The WET nickel concentration for these samples, in the order listed above, were 31, 17, and 26 mg/L, respectively (Table 2). Two of the three soluble nickel concentrations exceed the STLC.

A hypothetical statistical calculation for soluble nickel was conducted by assuming the theoretical maximum soluble WET nickel based on total nickel concentrations (i.e., WET soluble concentration equal to ten percent of total concentration) for those samples that were not actually analyzed for WET nickel. This assumption is expected to over estimate the WET nickel concentrations. In accordance with procedures specified in *Test Methods for Evaluating Solid Waste, Physical and Chemical Methods, SW-846* (U.S. EPA, 1996), the 80 percent upper confidence limit (UCL) (two-tailed), was calculated using the hypothetical and actual soluble nickel data and compared against the STLC. The 80 percent UCL was 11.7 mg/L, less than the STLC of 20 mg/L. The implication of this hypothetical calculation is that if all the soil represented by the soil samples collected during the investigation (e.g., all the soil down to a depth of about eight feet from across the Site) were to be classified for offsite disposal, the soil would not be considered a California hazardous waste because of soluble nickel.

LEAD

The B-FP6 sample from 2 feet bgs contained total lead at 1,260 mg/kg, greater than the TTLC of 1,000 mg/kg. The soluble WET lead concentration of this sample was 1.5 mg/L and the soluble TCLP concentration was below the laboratory reporting limit of 0.3 mg/L (Table 2). As discussed in the Human Health Risk Screening section above, 14 of the 15 other samples collected at the Site had total lead concentrations of about 5 mg/kg or less (Table 2). The elevated lead concentration at B-FP6 appear to be an anomalous and isolated occurrence.

One other soil sample, B-FP7 from 2.5 feet bgs, contained total lead concentration (141 mg/kg) greater than ten times the STLC; but below the TTLC. The laboratory was unable to perform the soluble WET lead analysis because the entire sample had been consumed for all the other analyses performed. It is possible that the soluble WET lead concentration would have exceeded the STLC.

CONCLUSIONS AND RECOMMENDATIONS

The chemicals present in the soil and groundwater at the Site do not currently pose any risk to site users because the Site is capped with about six inches of concrete and there are no complete exposure routes. With the exception of PAHs and lead identified at isolated locations, the human health risk screening indicates that chemicals present in the subsurface at the Site would not pose unacceptable increased health risks to potential site users under a residential land use scenario, even if the concrete cap were not present. BASELINE's recommendation regarding the PAH and lead contamination identified are:

- If the concrete in the area of B-FP7 (Figure 2) were to be removed in preparation for occupancy by any users, or if the Site were to be redeveloped for possible commercial/industrial or residential uses, the extent of PAH contamination in this area should be defined. If it is possible for future site users to come into contact with the soil with elevated PAH concentrations, the soil with PAH concentrations above Oakland RBCA Tier 1 RBSLs, either the commercial/industrial or residential RBSLs, as appropriate for the intended use of the Site, should be excavated and disposed of off-site. If development plans were to ensure the complete isolation of the soil with elevated lead concentrations from future site users (e.g., isolation by pavement or several feet of clean soils), then the PAH-affected soils may be left in place with the approval of the oversight regulatory agency.

- If the concrete in the area of B-FP6 were to be removed in preparation for occupancy by any users, or if the Site were to be redeveloped for possible commercial/industrial or residential uses, the extent of soil with elevated lead concentrations in the area should be defined. If future site users may come into contact with the soil with elevated lead concentrations, the soil with lead concentrations above the RWQCB RBSLs appropriate for the intended land use should be excavated and disposed of off-site. If development plans were to ensure the complete isolation of the soil with elevated lead concentrations from future site users, then the lead-affected soils may be left in place with the approval of the oversight regulatory agency.

Soil that may be excavated for site improvements, with the exception of PAH- and lead-affected soils, described above, may be reused at the Site with the approval of the oversight regulatory agency. Excess soils requiring offsite disposal will need to characterized and classified in accordance with State and Federal regulations. Data from the Site suggests that excess soil may possibly be considered a California hazardous waste because of lead and/or nickel content. In particular, any fill that may be excavated from the "rear yard" that contain evidence of charcoal and/or burnt materials should be segregated and managed separately from clean fill, since elevated lead concentrations may be associated with the debris.

Groundwater at the Site does not represent a threat to future residential or commercial/industrial users.

LIMITATIONS

The conclusions presented in this report are professional opinions based on the soil and groundwater data documented in this report. The condition of existing features/structures above the soil layer, including the concrete pavement, has not been assessed. The conclusions are intended to apply only for this Site and project indicated. Opinions and recommendations presented herein apply to Site conditions existing at the time of this investigation. Changes in the conditions of the subject property or adjacent property can occur with time, because of the natural processes and/or work of man. Changes in applicable standards can also occur as a result of legislation or from the broadening of knowledge. Accordingly, the findings of this report may be invalidated, wholly or in part, by changes beyond our control. This report has been prepared for Brush Street Group and reliance on this report by third parties shall be at their own risk.

REFERENCES

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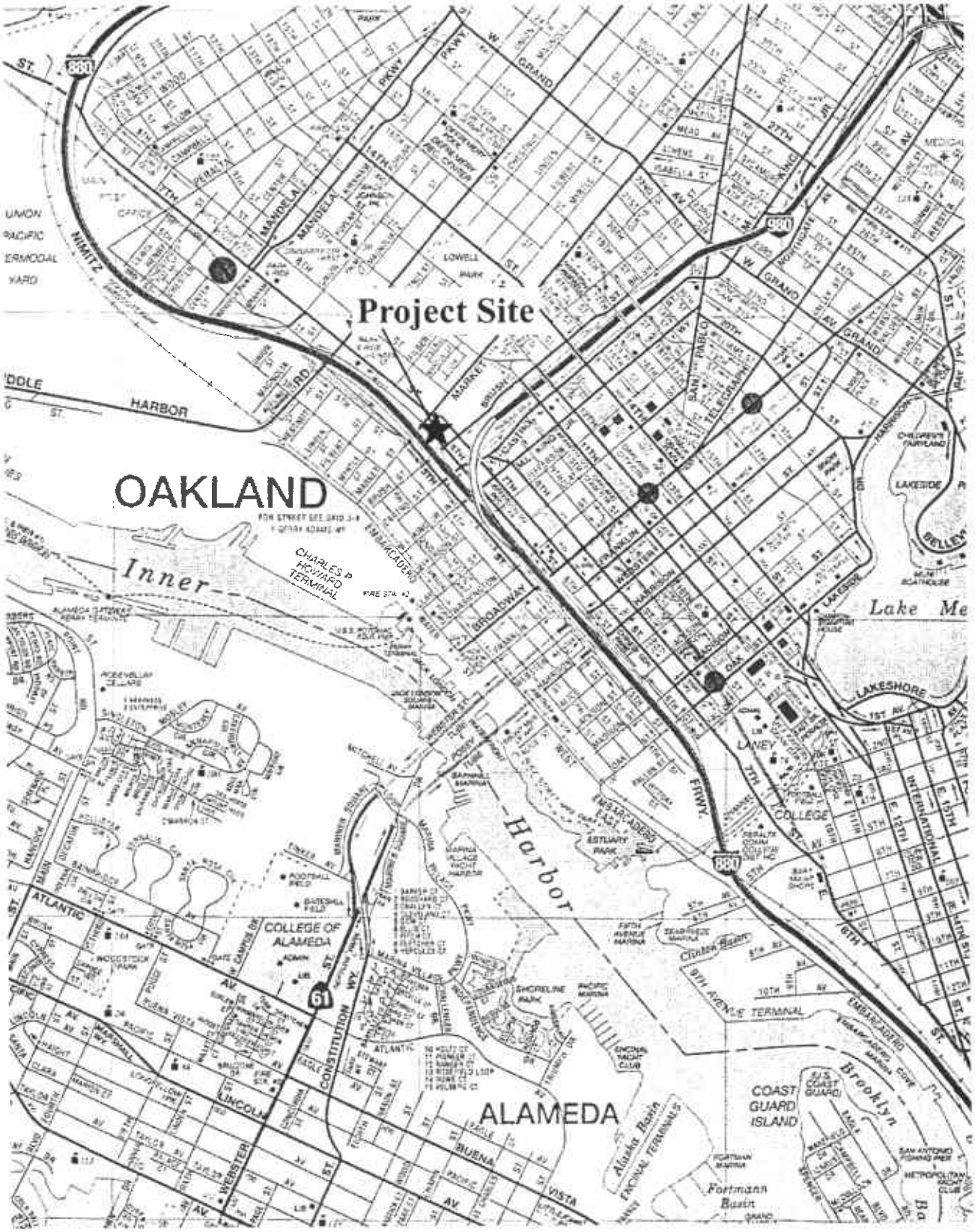
REGIONAL LOCATION

Figure 1



751-785 Brush Street
Oakland, California

BASELINE

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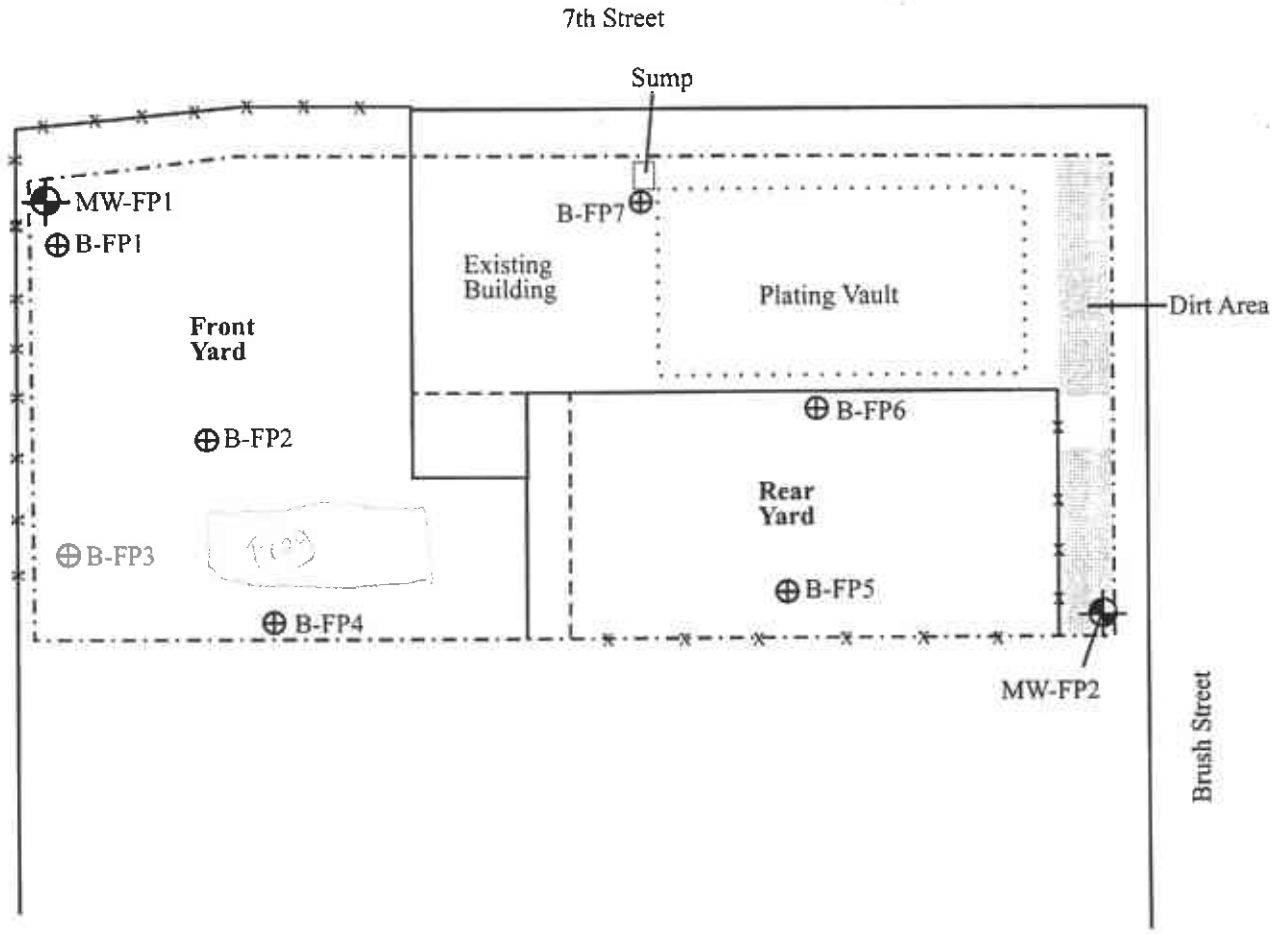
SAMPLE LOCATION

Figure 2



Legend

- ⊕ Soil Boring
- ⊕ Monitoring Well
- Fence
- Site Boundary

751-785 Brush Street
Oakland, California

0 40 Feet

BASELINE

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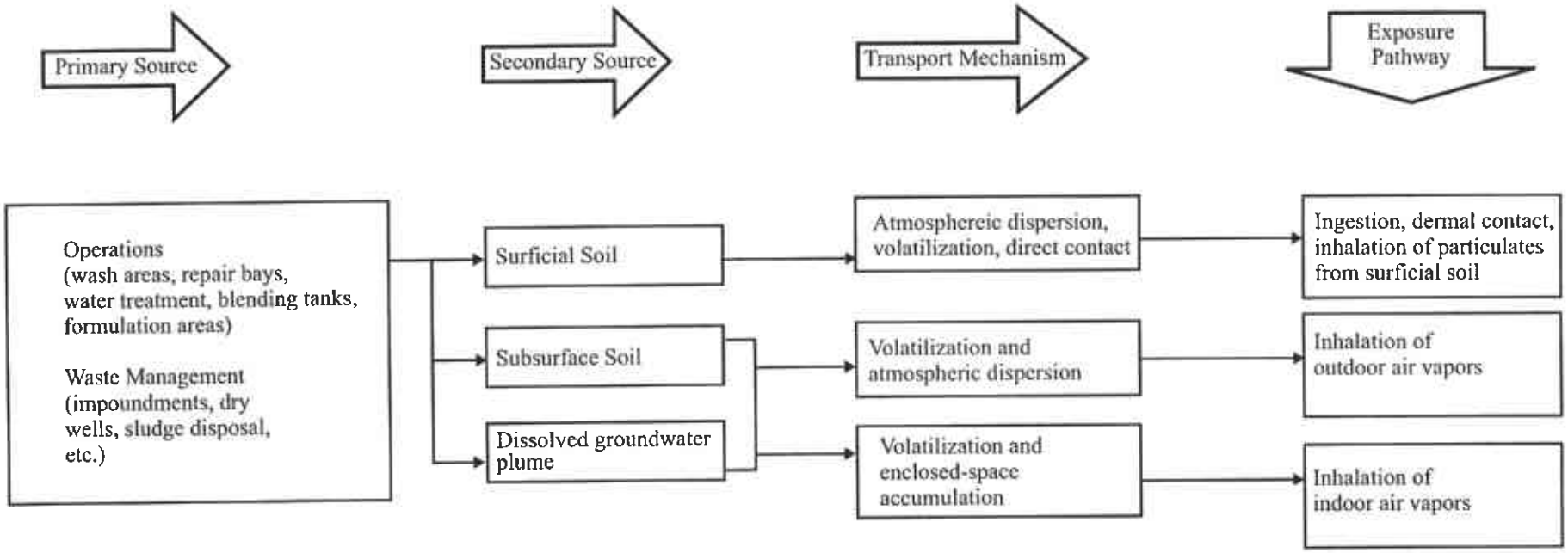
Oakland RBCA EXPOSURE ASSESSMENT WORKSHEET

Figure 3



751-785 Brush Streets
Oakland, California

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TABLE 1: **List of Analyses Performed, Soil and Water, 751-785 Brush Street, Oakland**

Boring	Sample Depth (ft bgs)	Sample Date	Title 22 Metals	Hexavalent Chromium	TPHg	TPHd	VOCs	PAHs	PCBs	pH	Cyanide	WET Lead	WET Nickel	TCLP Lead
SOIL														
B-FP1	2.5-3.0	2/5/03	X	X		X		X	X	X	X			
	2.5 [1]	2/5/03			X		X							
	5.5-6.0	2/5/03	X	X		X		X	X	X	X			
	5.5 [1]	2/5/03			X		X							
	7-7.5	2/5/03	See Comp FY											
B-FP2	2.5-3.0	2/5/03	X	X		X		X	X	X	X			
	2.5 [1]	2/5/03			X		X							
	5.5-6.0	2/5/03	X	X		X		X	X	X	X			
	5.5 [1]	2/5/03			X		X							
	7-7.5	2/5/03	See Comp FY											
B-FP3	1.5-2	2/4/03	X	X		X		X	X	X	X			
	1.5 [1]	2/4/03			X		X							
	5-5.5	2/4/03	X	X		X		X	X	X	X		X	
	5 [1]	2/4/03			X		X							
	7-7.5	2/4/03	See Comp FY											
B-FP4	2-2.5	2/4/03	X	X		X		X	X	X	X			
	2.5 [1]	2/4/03			X		X							
	5-5.5	2/4/03	X	X	X	X	X	X	X	X	X			
	7-7.5	2/4/03	See Comp FY											
B-FP5	2-2.5	2/4/03	X	X		X		X	X	X	X			
	2.5 [1]	2/4/03			X		X							
	5-5.5	2/4/03	X	X		X		X	X	X	X			
	5.5 [1]	2/4/03			X		X							
	7-7.5	2/4/03	See Comp RY											
B-FP6	2-2.5	2/5/03	X	X		X		X	X	X	X	X	X	X
	2.5 [1]	2/5/03			X		X							
	5-5.5	2/5/03	X	X		X		X	X	X	X		X	
	5.5 [1]	2/5/03			X		X							
	7-7.5	2/5/03	See Comp RY											

TABLE 1: **List of Analyses Performed, Soil and Water, 751-785 Brush Street, Oakland**

Boring	Sample Depth (ft bgs)	Sample Date	Title 22 Metals	Hexavalent Chromium	TPHg	TPHd	VOCs	PAHs	PCBs	pH	Cyanide	WET Lead	WET Nickel	TCLP Lead
B-FP7	2.5-3	2/5/03	X	X		X		X	X	X	X			
	2.5 [1]	2/5/03			X		X							
	5-5.5	2/5/03	X	X		X		X	X	X	X			
	5.5 [1]	2/5/03			X		X							
	7-7.5	2/5/03	See Comp RY											
COMP FY [2]	7-7.5	2/4-5/03	X	X	X	X	X	X	X	X	X			
COMP RY [3]	7-7.5	2/4-5/03	X	X	X	X	X	X	X	X	X			
GROUNDWATER														
B-FP3 [4]	--	2/4/03	--	--	X	X	--	--	--	--	--	--	--	--
B-FP4 [4]	--	2/5/03	X	X	X	X	X	X	X	--	X	--	--	--
B-FP5 [4]	--	2/5/03	X	X	X	X	X	X	X	--	X	--	--	--
MW-FP1	--	2/12/03	X	X	X	X	X	X	X	--	X	--	--	--
MW-FP2	--	2/12/03	X	X	X	X	X	X	X	--	X	--	--	--

Notes:

ft. bgs = Feet below ground surface

-- = Not analyzed

X = Analyzed

Metals analysis conducted using EPA Method 6000/7000 series.

Hexavalent chromium analyzed using EPA Method 7196A.

TPHg = Total Petroleum Hydrocarbons as gasoline.

TPHd = Total Petroleum Hydrocarbons as diesel.

VOCs = Volatile organic compounds; analysis conducted using EPA Method 8260B.

PAH = Polyclic aromatic hydrocarbons; PAHs analyzed using EPA 8310

PCBs = Polychlorinated biphenyls; PCBs analyzed using EPA 8082.

pH analyzed using EPA Method 9045.

Cyanide analyzed using EPA Method 335.2.

WET = Waste Extraction Test.

TCLP = Toxicity Characteristic Leaching Procedure.

Summaries of analytical results are presented in Tables 2 and 3.

Soil sample locations are shown on Figure 2.

[1] Encore sampler used.

[2] Composite sample COMP FY was generated using samples B-FP1;7-7.5, B-FP2;7-7.5, B-FP3;7-7.5, and B-FP4;7-7.5.

[3] Composite sample COMP RY was generated using samples B-FP5;7-7.5, B-FP6;7-7.5, and B-FP7;7-7.5

[4] Grab groundwater sample.

TABLE 2: **Summary of Analytical Results, Soil, 751-785 Brush Street, Oakland**

Well/Boring ID	Oakland RBCA RBSLs			RWQCB RBSLs	Hazardous Waste Thresholds			B-FP1		B-FP1		B-FP1		B-FP1		B-FP2		B-FP2		B-FP2		B-FP2	
Sample Depth (ft. bgs)								2.5 [1]		2.5-3.0		5.5 [1]		5.5-6.0		2.5 [1]		2.5-3.0		5.5 [1]		5.5-6.0	
Date Collected	Tier 1 RBSLs for Surficial Soil - Residential (<1 meter)	Tier 1 RBSLs for Subsurface Soil - Indoor Air Residential (>1 meter)	Tier 1 RBSLs for Subsurface Soil - Outdoor Air Residential (>1 meter)	Final RBSL for Surface Soils with Potential Drinking Water (<3 meters)	Total Threshold Limit Concentration	Soluble Threshold Limit Concentration (mg/L)	Toxicity Characteristic Leaching Procedure Threshold (mg/L)	2/5/2003		2/5/2003		2/5/2003		2/5/2003		2/5/2003		2/5/2003		2/5/2003		2/5/2003	
								Conc.	Rpt. Lim.	Conc.	Rpt. Lim.	Conc.	Rpt. Lim.	Conc.	Rpt. Lim.	Conc.	Rpt. Lim.	Conc.	Rpt. Lim.	Conc.	Rpt. Lim.	Conc.	Rpt. Lim.
Metals (mg/kg)																							
Antimony	--	--	--	6.3	500	15	--	--	--	ND	0.750	--	--	ND	0.750	--	--	ND	0.750	--	--	ND	0.750
Arsenic	0.32	--	--	--	500	5.0	5.0	--	--	*1.15*	0.750	--	--	*1.04*	0.750	--	--	ND	0.750	--	--	ND	0.750
Barium	5,200	--	--	--	10,000	100	100	--	--	52.7	0.5	--	--	60.2	0.5	--	--	56.1	0.5	--	--	70.6	0.5
Beryllium	370	--	--	--	75	0.75	--	--	--	ND	0.250	--	--	0.382	0.250	--	--	ND	0.250	--	--	0.321	0.250
Cadmium	37	--	--	--	100	1.0	1.0	--	--	ND	0.500	--	--	ND	0.500	--	--	ND	0.500	--	--	ND	0.500
Chromium (Total)	74,000	--	--	--	2,500	560	5.0	--	--	28.1	0.2	--	--	49.2	0.2	--	--	29.1	0.2	--	--	83.4	0.2
Hexavalent Chromium	1.3	--	--	--	500	5	--	--	--	ND	0.05	--	--	0.59	0.05	--	--	ND	0.05	--	--	ND	0.05
Cobalt	--	--	--	40	8,000	80	--	--	--	3.89	0.25	--	--	16.8	0.2	--	--	4.21	0.25	--	--	6.88	0.25
Copper	2,800	--	--	--	2,500	25	--	--	--	5.31	0.50	--	--	9.01	0.50	--	--	5.74	0.50	--	--	10.2	0.5
Lead	--	--	--	200	1,000	5.0	5.0	--	--	2.25	0.50	--	--	3.75	0.50	--	--	2.44	0.50	--	--	3.33	0.50
Molybdenum	--	--	--	--	3,500	350	--	--	--	ND	0.250	--	--	ND	0.250	--	--	ND	0.250	--	--	ND	0.250
Nickel	1,500	--	--	--	2,000	20	--	--	--	16.1	0.2	--	--	53.6	0.2	--	--	17.4	0.2	--	--	99.2	0.2
Selenium	370	--	--	--	100	1.0	1.0	--	--	ND	0.750	--	--	ND	0.750	--	--	ND	0.750	--	--	ND	0.750
Silver	370	--	--	--	500	5.0	5.0	--	--	ND	0.250	--	--	ND	0.250	--	--	ND	0.250	--	--	ND	0.250
Thallium	--	--	--	1.0	700	7.0	--	--	--	ND	0.750	--	--	ND	0.750	--	--	ND	0.750	--	--	ND	0.750
Vanadium	520	--	--	--	2,400	24	--	--	--	19.6	0.2	--	--	34.8	0.2	--	--	20	0.2	--	--	34.9	0.2
Zinc	22,000	--	--	--	5,000	250	--	--	--	14.9	1.0	--	--	23.7	1.0	--	--	16.3	1.0	--	--	24.4	1.0
Mercury	4.7	12	40	--	20	0.2	0.2	--	--	ND	0.0835	--	--	ND	0.0835	--	--	ND	0.0835	--	--	ND	0.0835
CYANIDE (mg/kg)	3,000	--	--	--	--	--	--	--	--	ND	1.0	--	--	ND	1.0	--	--	ND	1.0	--	--	ND	1.0
VOCs (µg/kg)																							
1,1,1-Trichloroethane	1,800,000	260,000	870,000	--	--	--	--	ND	4.9	--	--	ND	4.4	--	--	ND	4.7	--	--	ND	4.3	--	--
Trichloroethene	19,000	1,100	3,000	--	2,040,000	204	0.5	ND	4.9	--	--	ND	4.4	--	--	ND	4.7	--	--	ND	4.3	--	--
PAHs (µg/kg)																							
Naphthalene	2,000,000	SAT	SAT	--	--	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	--	--	ND	50
Acenaphthylene	3,100,000	SAT	SAT	--	--	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	--	--	ND	50
Acenaphthene	3,100,000	SAT	SAT	--	--	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	--	--	ND	50
Fluorene	2,100,000	SAT	SAT	--	--	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	--	--	ND	50
Phenanthrene	16,000,000	SAT	SAT	--	--	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	--	--	ND	50
Anthracene	16,000,000	SAT	SAT	--	--	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	--	--	ND	50
Fluoranthene	2,100,000	SAT	SAT	--	--	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	--	--	ND	50
Pyrene	1,600,000	SAT	SAT	--	--	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	--	--	ND	50
Benzo (a) Anthracene	250	SAT	SAT	--	--	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	--	--	ND	50
Chrysene	2,500	SAT	SAT	--	--	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	--	--	ND	50
Benzo (b) Fluoranthene	250	SAT	SAT	--	--	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	--	--	ND	50
Benzo (k) Fluoranthene	250	SAT	SAT	--	--	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	--	--	ND	50
Benzo (a) Pyrene	25	SAT	SAT	--	--	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	--	--	ND	50
Dibenz (a,h) Anthracene	74	SAT	SAT	--	--	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	--	--	ND	50
Benzo (g,h,i) Perylene	210,000	SAT	SAT	--	--	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	--	--	ND	50
Indeno (1,2,3-c,d) Pyrene	250	SAT	SAT	--	--	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	--	--	ND	50
PCBs (µg/kg)	50	69,000	190,000	--	50,000	5.0	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	--	--	ND	50
TPH (mg/kg)																							
as Gasoline	--	--	--	--	100	--	--	ND	0.19	--	--	ND	0.16	--	--	ND	0.19	--	--	ND	0.19	--	--
as Diesel	--	--	--	--	100	--	--	--	--	ND	1.0	--	--	ND	1.0	--	--	ND	1.0	--	--	ND	1.0
pH (pH units)	--	--	--	--	<2 or >12.5	--	--	--	--	5.9	--	--	--	6.3	--	--	--	5.7	--	--	--	5.2	--

TABLE 2: **Summary of Analytical Results, Soil, 751-785 Brush Street, Oakland**

Well/Boring ID	Oakland RBCA RBSLs			RWQCB RBSLs	Hazardous Waste Thresholds			B-FP3		B-FP3		B-FP3		B-FP3		B-FP4		B-FP4		B-FP4		B-FP5	
Sample Depth (ft. bgs)								1.5 [1]		1.5-2.0		5 [1]		5.0-5.5		2.5 [1]		2.0-2.5		5-5.5		2.5 [1]	
Date Collected	Tier 1 RBSLs for Surficial Soil - Residential (<1 meter)	Tier 1 RBSLs for Subsurface Soil - Indoor Air Residential (>1 meter)	Tier 1 RBSLs for Subsurface Soil - Outdoor Air Residential (>1 meter)	Final RBSL for Surface Soils with Potential Drinking Water (<3 meters)	Total Threshold Limit Concentration	Soluble Threshold Limit Concentration (mg/L)	Toxicity Characteristic Leaching Procedure Threshold (mg/L)	2/4/2003		2/4/2003		2/4/2003		2/4/2003		2/4/2003		2/4/2003		2/4/2003		2/4/2003	
								Conc.	Rpt. Lim.	Conc.	Rpt. Lim.	Conc.	Rpt. Lim.	Conc.	Rpt. Lim.	Conc.	Rpt. Lim.	Conc.	Rpt. Lim.	Conc.	Rpt. Lim.	Conc.	Rpt. Lim.
Metals (mg/kg)																							
Antimony	--	--	--	6.3	500	15	--	--	--	ND	0.750	--	--	ND	0.750	--	--	ND	0.750	ND	0.750	--	--
Arsenic	0.32	--	--	--	500	5.0	5.0	--	--	*0.928*	0.750	--	--	*1.42*	0.75	--	--	ND	0.750	*1.07*	0.75	--	--
Barium	5,200	--	--	--	10,000	100	100	--	--	71.1	0.5	--	--	53.3	0.5	--	--	75.6	0.5	43	0.5	--	--
Beryllium	370	--	--	--	75	0.75	--	--	--	ND	0.250	--	--	0.349	0.250	--	--	ND	0.250	0.326	0.250	--	--
Cadmium	37	--	--	--	100	1.0	1.0	--	--	ND	0.500	--	--	ND	0.500	--	--	ND	0.500	ND	0.500	--	--
Chromium (Total)	74,000	--	--	--	2,500	560	5.0	--	--	37.5	0.2	--	--	66.8	0.2	--	--	27.3	0.2	47.9	0.2	--	--
Hexavalent Chromium	1.3	--	--	--	500	5	--	--	--	ND	0.05	--	--	ND	0.05	--	--	ND	0.05	ND	0.05	--	--
Cobalt	--	--	--	40	8,000	80	--	--	--	4.43	0.25	--	--	9.7	0.25	--	--	4.05	0.25	10.8	0.2	--	--
Copper	2,800	--	--	--	2,500	25	--	--	--	5.6	0.50	--	--	10.1	0.5	--	--	5.77	0.50	6.61	0.50	--	--
Lead	--	--	--	200	1,000	5.0	5.0	--	--	5.04	0.50	--	--	3.54	0.50	--	--	2.43	0.50	3.22	0.50	--	--
Molybdenum	--	--	--	--	3,500	350	--	--	--	0.367	0.250	--	--	ND	0.250	--	--	ND	0.250	0.872	0.250	--	--
Nickel	1,500	--	--	--	2,000	20	--	--	--	17.2	0.2	--	--	995 (31)	0.250	--	--	16.5	0.2	37	0.2	--	--
Selenium	370	--	--	--	100	1.0	1.0	--	--	ND	0.750	--	--	ND	0.750	--	--	ND	0.750	ND	0.750	--	--
Silver	370	--	--	--	500	5.0	5.0	--	--	ND	0.250	--	--	ND	0.250	--	--	ND	0.250	ND	0.250	--	--
Thallium	--	--	--	1.0	700	7.0	--	--	--	ND	0.750	--	--	ND	0.750	--	--	ND	0.750	ND	0.750	--	--
Vanadium	520	--	--	--	2,400	24	--	--	--	18.2	0.2	--	--	42.5	0.2	--	--	19.1	0.2	32.5	0.2	--	--
Zinc	22,000	--	--	--	5,000	250	--	--	--	15.8	1.0	--	--	24	1.0	--	--	16.5	1.0	45.1	1.0	--	--
Mercury	4.7	12	40	--	20	0.2	0.2	--	--	ND	0.0835	--	--	ND	0.0835	--	--	ND	0.0835	ND	0.0835	--	--
CYANIDE (mg/kg)	3,000	--	--	--	--	--	--	--	--	ND	1.0	--		ND	1.0	--		ND	1.0	ND	1.0	--	--
VOCs (µg/kg)																							
1,1,1-Trichloroethane	1,800,000	260,000	870,000	--	--	--	--	ND	4.7	--	--	ND	4.7	--	--	ND	5	--	--	ND	4.9	5.4	4.4
Trichloroethene	19,000	1,100	3,000	--	2,040,000	204	0.5	24	4.7	--	--	ND	4.7	--	--	ND	5	--	--	ND	4.9	33	4.4
PAHs (µg/kg)																							
Naphthalene	2,000,000	SAT	SAT	--	--	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	ND	50	--	--
Acenaphthylene	3,100,000	SAT	SAT	--	--	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	ND	50	--	--
Acenaphthene	3,100,000	SAT	SAT	--	--	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	ND	50	--	--
Fluorene	2,100,000	SAT	SAT	--	--	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	ND	50	--	--
Phenanthrene	16,000,000	SAT	SAT	--	--	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	ND	50	--	--
Anthracene	16,000,000	SAT	SAT	--	--	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	ND	50	--	--
Fluoranthene	2,100,000	SAT	SAT	--	--	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	ND	50	--	--
Pyrene	1,600,000	SAT	SAT	--	--	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	ND	50	--	--
Benzo (a) Anthracene	250	SAT	SAT	--	--	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	ND	50	--	--
Chrysene	2,500	SAT	SAT	--	--	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	ND	50	--	--
Benzo (b) Fluoranthene	250	SAT	SAT	--	--	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	ND	50	--	--
Benzo (k) Fluoranthene	250	SAT	SAT	--	--	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	ND	50	--	--
Benzo (a) Pyrene	25	SAT	SAT	--	--	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	ND	50	--	--
Dibenz (a,h) Anthracene	74	SAT	SAT	--	--	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	ND	50	--	--
Benzo (g,h,i) Perylene	210,000	SAT	SAT	--	--	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	ND	50	--	--
Indeno (1,2,3-c,d) Pyrene	250	SAT	SAT	--	--	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	ND	50	--	--
PCBs (µg/kg)	50	69,000	190,000	--	50,000	5.0	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	ND	50	--	--
TPH (mg/kg)																							
as Gasoline	--	--	--	--	100	--	--	ND	0.19	--	--	ND	0.17	--	--	ND	0.2	--	--	ND	1.1	ND	0.17
as Diesel	--	--	--	--	100	--	--	--	--	ND	1.0	--	--	ND	1.0	--	--	ND	1.0	ND	1.0	--	--
pH (pH units)	--	--	--	--	<2 or >12.5	--	--	--	--	7	--	--	--	6.4	--	--	--	5.9	--	7.5	--	--	--

TABLE 2: **Summary of Analytical Results, Soil, 751-785 Brush Street, Oakland**

Well/Boring ID	Oakland RBCA RBSLs			RWQCB RBSLs	Hazardous Waste Thresholds			B-FP5		B-FP5		B-FP5		B-FP6		B-FP6		B-FP6		B-FP6	
Sample Depth (ft. bgs)								2-2.5		5.5 [1]		5-5.5		2.5 [1]		2-2.5		5.5 [1]		5-5.5	
Date Collected	Tier 1 RBSLs for Surficial Soil - Residential (<1 meter)	Tier 1 RBSLs for Subsurface Soil - Indoor Air Residential (>1 meter)	Tier 1 RBSLs for Subsurface Soil - Outdoor Air Residential (>1 meter)	Final RBSL for Surface Soils with Potential Drinking Water (<3 meters)	Total Threshold Limit Concentration	Soluble Threshold Limit Concentration (mg/L)	Toxicity Characteristic Leaching Procedure Threshold (mg/L)	2/4/2003		2/4/2003		2/4/2003		2/5/2003		2/5/2003		2/5/2003		2/5/2003	
								Conc.	Rpt. Lim.	Conc.	Rpt. Lim.	Conc.	Rpt. Lim.	Conc.	Rpt. Lim.	Conc.	Rpt. Lim.	Conc.	Rpt. Lim.	Conc.	Rpt. Lim.
Metals (mg/kg)			BG 95%																		
Antimony	--	--	--	6.3	500	15	--	ND	0.750	--	--	ND	0.750	--	--	ND	0.750	--	--	ND	0.750
Arsenic	0.32	--	17 --	--	500	5.0	5.0	*0.794*	0.750	--	--	*0.764*	0.750	--	--	*3.44*	0.75	--	--	*1.78*	0.75
Barium	5,200	--	--	--	10,000	100	100	55.9	0.5	--	--	28.4	0.5	--	--	134	0.500	--	--	49.2	0.5
Beryllium	370	--	--	--	75	0.75	--	ND	0.250	--	--	ND	0.250	--	--	ND	0.250	--	--	0.339	0.250
Cadmium	37	--	5.6 --	1.7 --	100	1.0	1.0	ND	0.500	--	--	ND	0.500	--	--	0.689	0.500	--	--	ND	0.500
Chromium (Total)	74,000	--	100 --	58 --	2,500	560	5.0	36.6	0.2	--	--	34.8	0.2	--	--	220	0.250	--	--	49.1	0.2
Hexavalent Chromium	1.3	--	--	--	500	5	--	ND	0.05	--	--	ND	0.05	--	--	ND	0.05	--	--	ND	0.05
Cobalt	--	--	--	40	8,000	80	--	3.86	0.25	--	--	2.55	0.25	--	--	5.17	0.25	--	--	11.3	0.2
Copper	2,800	--	53 --	220 --	2,500	25	--	4.79	0.50	--	--	4.6	0.50	--	--	19.7	0.5	--	--	7.76	0.50
Lead	--	--	--	200	1,000	5.0	5.0	2.83	0.50	--	--	2.08	0.50	--	--	**1260** (1.5){<0.3}	5	--	--	3.95	0.50
Molybdenum	--	--	--	--	3,500	350	--	ND	0.250	--	--	ND	0.250	--	--	1.95	0.25	--	--	ND	0.250
Nickel	1,500	--	170 --	150 --	2,000	20	--	17.3	0.2	--	--	19.3	0.2	--	--	368 (17)	0.250	--	--	320 (**26**)	0.250
Selenium	370	--	--	--	100	1.0	1.0	ND	0.750	--	--	ND	0.750	--	--	ND	0.750	--	--	ND	0.750
Silver	370	--	--	--	500	5.0	5.0	ND	0.250	--	--	ND	0.250	--	--	ND	0.250	--	--	ND	0.250
Thallium	--	--	--	1.0	700	7.0	--	ND	0.750	--	--	ND	0.750	--	--	ND	0.750	--	--	ND	0.750
Vanadium	520	--	--	--	2,400	24	--	20.3	0.2	--	--	21.6	0.2	--	--	19.3	0.2	--	--	35.8	0.2
Zinc	22,000	--	--	--	5,000	250	--	13.9	1.0	--	--	11.4	1.0	--	--	1260	10	--	--	22.3	1.0
Mercury	4.7	12	40	--	20	0.2	0.2	ND	0.0835	--	--	ND	0.0835	--	--	0.415	0.083	--	--	ND	0.0835
CYANIDE (mg/kg)	3,000	--	--	--	--	--	--	ND	1.0	--	--	ND	1.0	--	--	ND	1.0	--	--	ND	1.0
VOCs (µg/kg)																					
1,1,1-Trichloroethane	1,800,000	260,000	870,000	--	--	--	--	--	--	ND	4.7	--	--	ND	4.8	--	--	5	4.4	--	--
Trichloroethene	19,000	1,100	3,000	--	2,040,000	204	0.5	--	--	ND	4.7	--	--	ND	4.8	--	--	ND	4.4	--	--
PAHs (µg/kg)																					
Naphthalene	2,000,000	SAT	SAT	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	--	--	ND	50
Acenaphthylene	3,100,000	SAT	SAT	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	--	--	ND	50
Acenaphthene	3,100,000	SAT	SAT	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	--	--	ND	50
Fluorene	2,100,000	SAT	SAT	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	--	--	ND	50
Phenanthrene	16,000,000	SAT	SAT	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	--	--	ND	50
Anthracene	16,000,000	SAT	SAT	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	--	--	ND	50
Fluoranthene	2,100,000	SAT	SAT	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	--	--	ND	50
Pyrene	1,600,000	SAT	SAT	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	--	--	ND	50
Benzo (a) Anthracene	250	SAT	SAT	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	--	--	ND	50
Chrysene	2,500	SAT	SAT	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	--	--	ND	50
Benzo (b) Fluoranthene	250	SAT	SAT	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	--	--	ND	50
Benzo (k) Fluoranthene	250	SAT	SAT	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	--	--	ND	50
Benzo (a) Pyrene	25	SAT	SAT	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	--	--	ND	50
Dibenz (a,h) Anthracene	74	SAT	SAT	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	--	--	ND	50
Benzo (g,h,i) Perylene	210,000	SAT	SAT	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	--	--	ND	50
Indeno (1,2,3-c,d) Pyrene	250	SAT	SAT	--	--	--	--	ND	50	--	--	ND	50	--	--	ND	50	--	--	ND	50
PCBs (µg/kg)	50	69,000	190,000	--	50,000	5.0	--	ND	50	--	--	ND	50	--	--	ND	50	--	--	ND	50
TPH (mg/kg)																					
as Gasoline	--	--	--	--	100	--	--	--	--	ND	0.18	--	--	ND	0.2	--	--	ND	0.18	--	--
as Diesel	--	--	--	--	100	--	--	3.4 [H,Y]	1.0	--	--	ND	1.0	--	--	ND	1.0	--	--	ND	1.0
pH (pH units)	--	--	--	--	<2 or >12.5	--	--	7.8	--	--	--	7.5	--	--	--	5.9	--	--	--	6.1	--

TABLE 2: **Summary of Analytical Results, Soil, 751-785 Brush Street, Oakland**

Well/Boring ID	Oakland RBCA RBSLs			RWQCB RBSLs	Hazardous Waste Thresholds			B-FP7		B-FP7		B-FP7		B-FP7		COMP FY[2]		COMP RY[3]	
Sample Depth (ft. bgs)								2.5 [1]		2.5-3.0		5.5 [1]		5-5.5		7-7.5		7-7.5	
Date Collected	Tier 1 RBSLs for Surficial Soil - Residential (<1 meter)	Tier 1 RBSLs for Subsurface Soil - Indoor Air Residential (>1 meter)	Tier 1 RBSLs for Subsurface Soil - Outdoor Air Residential (>1 meter)	Final RBSL for Surface Soils with Potential Drinking Water (<3 meters)	Total Threshold Limit Concentration	Soluble Threshold Limit Concentration (mg/L)	Toxicity Characteristic Leaching Procedure Threshold (mg/L)	2/5/2003		2/5/2003		2/5/2003		2/5/2003		2/4-5/2003		2/4-5/2003	
								Conc.	Rpt. Lim.	Conc.	Rpt. Lim.	Conc.	Rpt. Lim.	Conc.	Rpt. Lim.	Conc.	Rpt. Lim.	Conc.	Rpt. Lim.
Metals (mg/kg)																			
Antimony	--	--	--	6.3	500	15	--	--	--	ND	0.750	--	--	ND	0.750	ND	0.750	ND	0.750
Arsenic	0.32	--	--	--	500	5.0	5.0	--	--	*4.44*	0.75	--	--	ND	0.750	*1.19*	0.75	ND	0.750
Barium	5,200	--	--	--	10,000	100	100	--	--	108	0.500	--	--	81	0.5	64.2	0.5	66.3	0.5
Beryllium	370	--	--	--	75	0.75	--	--	--	ND	0.250	--	--	0.418	0.250	0.278	0.250	0.266	0.250
Cadmium	37	--	--	--	100	1.0	1.0	--	--	ND	0.500	--	--	ND	0.500	ND	0.500	ND	0.500
Chromium (Total)	74,000	--	--	--	2,500	560	5.0	--	--	38.8	0.2	--	--	84.6	0.2	54.2	0.2	48.2	0.2
Hexavalent Chromium	1.3	--	--	--	500	5	--	--	--	ND	0.05	--	--	0.09	0.05	ND	0.05	ND	0.05
Cobalt	--	--	--	40	8,000	80	--	--	--	4.55	0.25	--	--	7.33	0.25	7.79	0.25	6.87	0.25
Copper	2,800	--	--	--	2,500	25	--	--	--	24.6	0.5	--	--	9.69	0.50	7.49	0.50	7.79	0.50
Lead	--	--	--	200	1,000	5.0	5.0	--	--	141 [4]	0.500	--	--	4.11	0.50	2.98	0.50	2.76	0.50
Molybdenum	--	--	--	--	3,500	350	--	--	--	0.65	0.250	--	--	ND	0.250	ND	0.250	ND	0.250
Nickel	1,500	--	--	--	2,000	20	--	--	--	39	0.2	--	--	164	0.250	75.4	0.2	55.4	0.2
Selenium	370	--	--	--	100	1.0	1.0	--	--	ND	0.750	--	--	ND	0.750	ND	0.750	ND	0.750
Silver	370	--	--	--	500	5.0	5.0	--	--	ND	0.250	--	--	ND	0.250	ND	0.250	ND	0.250
Thallium	--	--	--	1.0	700	7.0	--	--	--	ND	0.750	--	--	ND	0.750	ND	0.750	ND	0.750
Vanadium	520	--	--	--	2,400	24	--	--	--	21.5	0.2	--	--	46.5	0.2	31.8	0.2	30.6	0.2
Zinc	22,000	--	--	--	5,000	250	--	--	--	94	1.0	--	--	27.7	1.0	22.9	1.0	22.4	1.0
Mercury	4.7	12	40	--	20	0.2	0.2	--	--	0.139	0.083	--	--	ND	0.0835	ND	0.0835	ND	0.0835
CYANIDE (mg/kg)	3,000	--	--	--	--	--	--	--	--	ND	1.0	--	--	11	1.0	ND	1.0	ND	1.0
VOCs (µg/kg)																			
1,1,1-Trichloroethane	1,800,000	260,000	870,000	--	--	--	--	ND	4.7	--	--	ND	4.5	--	--	ND	5.1	ND	5.2
Trichloroethene	19,000	1,100	3,000	--	2,040,000	204	0.5	ND	4.7	--	--	ND	4.5	--	--	ND	5.1	ND	5.2
PAHs (µg/kg)																			
Naphthalene	2,000,000	SAT	SAT	--	--	--	--	--	--	1,800	50	--	--	ND	50	ND	50	ND	50
Acenaphthylene	3,100,000	SAT	SAT	--	--	--	--	--	--	550	50	--	--	ND	50	ND	50	ND	50
Acenaphthene	3,100,000	SAT	SAT	--	--	--	--	--	--	140	50	--	--	ND	50	ND	50	ND	50
Fluorene	2,100,000	SAT	SAT	--	--	--	--	--	--	91	50	--	--	ND	50	ND	50	ND	50
Phenanthrene	16,000,000	SAT	SAT	--	--	--	--	--	--	1,300	500	--	--	ND	50	ND	50	ND	50
Anthracene	16,000,000	SAT	SAT	--	--	--	--	--	--	200	50	--	--	ND	50	ND	50	ND	50
Fluoranthene	2,100,000	SAT	SAT	--	--	--	--	--	--	3,000	500	--	--	ND	50	ND	50	ND	50
Pyrene	1,600,000	SAT	SAT	--	--	--	--	--	--	4,600	500	--	--	ND	50	ND	50	ND	50
Benzo (a) Anthracene	250	SAT	SAT	--	--	--	--	--	--	*1,500*	500	--	--	ND	50	ND	50	ND	50
Chrysene	2,500	SAT	SAT	--	--	--	--	--	--	2,200	500	--	--	ND	50	ND	50	ND	50
Benzo (b) Fluoranthene	250	SAT	SAT	--	--	--	--	--	--	*2,000*	500	--	--	ND	50	ND	50	ND	50
Benzo (k) Fluoranthene	250	SAT	SAT	--	--	--	--	--	--	*850*	500	--	--	ND	50	ND	50	ND	50
Benzo (a) Pyrene	25	SAT	SAT	--	--	--	--	--	--	*3,900*	500	--	--	ND	50	ND	50	ND	50
Dibenz (a,h) Anthracene	74	SAT	SAT	--	--	--	--	--	--	*2,600*	500	--	--	ND	50	ND	50	ND	50
Benzo (g,h,i) Perylene	210,000	SAT	SAT	--	--	--	--	--	--	3,400	500	--	--	ND	50	ND	50	ND	50
Indeno (1,2,3-c,d) Pyrene	250	SAT	SAT	--	--	--	--	--	--	*2,400*	500	--	--	ND	50	ND	50	ND	50
PCBs (µg/kg)	50	69,000	190,000	--	50,000	5.0	--	--	--	ND	50	--	--	ND	50	ND	50	ND	50
TPH (mg/kg)																			
as Gasoline	--	--	--	--	100	--	--	ND	0.21	--	--	ND	0.2	--	--	ND	1	ND	0.98
as Diesel	--	--	--	--	100	--	--	--	--	3.6 [H,Y]	1.0	--	--	ND	1.0	ND	1.0	ND	1.0
pH (pH units)	--	--	--	--	<2 or >12.5	--	--	--	--	9.2	--	--	--	8	--	6.2	--	7.4	--

TABLE 2: **Summary of Analytical Results, Soil, 751-785 Brush Street, Oakland**

Notes:
RBCA = Risk Based Corrective Action
RBSLs = Risk Based Screening Levels (Oakland, 2000 and RWQCB, 2001)
RWQCB = Regional Water Quality Control Board
Conc. = Concentration
Rpt. Lim. = Laboratory reporting limit
-- = Not analyzed or not available
ft. bgs = Feet below ground surface
mg/kg = Milligrams per kilogram
µg/kg = Micrograms per kilogram
x.x = Concentrations shown in bold exceed California hazardous waste criteria.
x.x = Concentrations shown in italics exceed Tier 1 Oakland RBCA RBSLs for surfacial soil .
(y.y) = Soluble metal concentration as determined using the Waste Extraction Test in mg/L.
{z.z} = Soluble metal concentration as determined using the Toxicity Characterization Leaching Procedure in mg/L.
ND = Not identified above the laboratory reporting limit.
Total metals analyzed using EPA Method 6000/7000 series; hexavalent chromium analyzed using EPA Method 7196A.
Cyanide analyzed using EPA Method 335.2.
VOC = Volatile organic compounds; VOCs analyzed using EPA Method 8260B. VOCs not shown in this table were not identified above the corresponding laboratory reporting limits; see laboratory report.
PAHs = Polynuclear aromatic hydrocarbons; PAHs analyzed by EPA Method 8310.
PCBs = Polychlorinated biphenyls; PCBs analyzed by EPA Method 8082.
TPH = Total petroleum hydrocarbons; TPH analyzed using modified EPA Method 8015M; samples were subjected to silica gel cleanup before TPH diesel analysis.
SAT = RBSL exceeds saturated soil concentration of chemical.
Sample locations are shown on Figure 2.
Laboratory reports are provided in Appendix F.

[1] Sample collected in EnCore™ samplers for VOC and TPH as gasoline analyses.
[2] Composite sample COMP FY was generated using samples B-FP1;7-7.5, B-FP2;7-7.5, B-FP3;7-7.5, and B-FP4;7-7.5.
[3] Composite sample COMP RY was generated using samples B-FP5;7-7.5, B-FP6;7-7.5, and B-FP7;7-7.5
[4] Laboratory did not have sufficient sample to perform soluble lead analysis.
[H] Heavier hydrocarbons contributed to the quantification.
[Y] Sample exhibits fuel pattern which does not resemble standard.

TABLE 3: **Summary of Analytical Results, Groundwater, 751-785 Brush Street, Oakland**

Well/Boring ID	Oakland RBCA RBSLs			B-FP3-grab		B-FP4-grab		B-FP5-grab		MW-FP1		MW-FP2	
Date Collected	Tier 1 RBSLs for Groundwater - Inhalation of Indoor Air - Residential	Tier 1 RBSLs for Groundwater - Inhalation of Outdoor Air - Residential	Tier 1 RBSLs for Groundwater - Ingestion - Residential	2/4/2003		2/5/2003		2/5/2003		2/12/2003		2/12/2003	
				Conc.	Rpt. Lim.	Conc.	Rpt. Lim.	Conc.	Rpt. Lim.	Conc.	Rpt. Lim.	Conc.	Rpt. Lim.
Metals (µg/L)													
Antimony	--	--	--	--	--	ND	60	ND	60	ND	60	ND	60
Arsenic	--	--	50	--	--	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Barium	--	--	1,000	--	--	110	10	62	10	67	10	74	10
Beryllium	--	--	4.0	--	--	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Cadmium	--	--	5.0	--	--	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Cobalt	--	--	--	--	--	ND	20	ND	20	ND	20	ND	20
Chromium (total)	--	--	16,000	--	--	ND	10	17	10	ND	10	61	10
Hexavalent Chromium	--	--	50	--	--	ND	10	10	10	ND	10	*70*	10
Copper	--	--	1,300	--	--	ND	10	ND	10	ND	10	ND	10
Molybdenum	--	--	--	--	--	ND	20	ND	20	ND	20	ND	20
Nickel	--	--	100	--	--	32	20	96	20	24	20	ND	20
Lead	--	--	--	--	--	ND	3.0	ND	3.0	ND	3.0	ND	3.0
Selenium	--	--	50	--	--	ND	5.0	11	5.0	ND	5.0	ND	5.0
Silver	--	--	100	--	--	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Thallium	--	--	--	--	--	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Vanadium	--	--	110	--	--	ND	10	ND	10	ND	10	ND	10
Zinc	--	--	4,700	--	--	ND	20	ND	20	ND	20	ND	20
Mercury	260	16,000	2	--	--	ND	0.2	ND	0.2	ND	0.2	ND	0.2
CYANIDE (mg/L)	--	--	200	--	--	ND	0.01	ND	0.01	ND	0.01	ND	0.01
VOCs (µg/L)													
Trichloroethene	690	41,000	5.0	--	--	*21*	5.0	*42*	5.0	ND	5.0	ND	5.0
PAHs (µg/L)	various	various	various	--	--	ND	1.0	ND	1.0	ND	0.09-1.9	ND	0.09-1.9
PCBs (µg/L)	23	320	0.5	--	--	ND	1.0	ND	1.0	ND	0.49-0.97	ND	0.49-0.97
TPH (µg/L)													
Gasoline	--	--	--	150 [Y,Z]	50	ND	50	ND	50	ND	50	ND	50
Diesel	--	--	--	ND	50	ND	50	ND	50	260 [H,Y]	50	110 [H,Y]	50

TABLE 3: **Summary of Analytical Results, Groundwater, 751-785 Brush Street, Oakland**

Notes:
RBCA = Risk Based Corrective Action
RBSLs = Risk based Screening Levels (Oakland, 2000)
Conc. = Concentration
Rpt. Lim. = Laboratory reporting limit
-- = Not analyzed or not available
ND = Not identified above the laboratory reporting limit.
µg/L= micrograms per liter
mg/L= milligrams per liter
x.x = Concentration shown in italics exceed Tier 1 RBSL for ingestion of groundwater.
Total metals analysis performed using EPA Method 6000/7000 series; hexavalent chromium analyzed by EPA Method 7196A.
Cyanide analyzed using EPA Method 335.2.
PAHs = Polynuclear aromatic hydrocarbons; PAHs analyzed by EPA Method 8310.
PCBs = Polychlorinated biphenyls; PCBs analyzed by EPA Method 8082.
VOCs = Volatile organic compounds; VOCs analyzed using EPA Method 8260B. VOCs not shown in this table were not identified above the corresponding laboratory reporting limits; see laboratory report.
TPH = total petroleum hydrocarbons; TPH analyzed using modified EPA Method 8015M; samples were subjected to silica gel cleanup before TPH diesel analysis.
Sample locations are shown on Figure 2.
Laboratory reports are provided in Appendix F.

[H] Heavier hydrocarbons contributed to the quantification.
[Y] Sample exhibits fuel pattern which does not resemble standard.
[Z] Sample exhibits unknown single peak or peaks.

APPENDIX A

HEALTH AND SAFETY PLAN

SITE HEALTH AND SAFETY PLAN

PROJECT/CLIENT INFORMATION

Project No:	Project Manager:	Site Health and Safety Manager:	Field Activities Date:
Y0323-01	Lydia Huang	Bill Scott	4, 5, 10, 11 February 2003

Client:	Contact Person:	Phone:	Site Address:
BBI Construction 1155 3rd Street, No. 230 Oakland, CA 94607	Tom McCoy	NA	751-785 Brush Street, Oakland Subcontractor: Precision Sampling, Clearheart Drilling

PROJECT DESCRIPTION:

Major Chabot Partners may be interested in acquiring the property identified above. The purpose of the soil and groundwater investigation is to evaluate whether former chemical releases from the site have impacted soil and groundwater quality.

The site has been used as a plating facility from about 1957 to 1998. Hazardous materials that may have been associated with this past land uses include nickel, cadmium, aluminum, other metals, acids, ketones, and cyanide. An inspection conducted by the Oakland Fire Department reported improper containment of numerous chemicals and waste. A removal action occurred at the site in 1998 to remove these materials. A Phase I and II site assessment was conducted in 1993; documentation of these assessments is incomplete. Based on limited data, up to 19 borings were drilled and analyzed for metals, semi-volatile organic compounds (SVOCs), volatile organic compounds (VOCs), polychlorinated biphenyls (PCBs), and cyanide. Soils underlying the site contained elevated levels of cadmium, chromium, lead, nickel (and possibly other metals), and that PCBs, SVOCs (polycyclic aromatic hydrocarbons, PAHs, in particular), VOCs, and cyanide were detected in one or more samples.

Three groundwater monitoring wells would be installed in the public rights-of-way adjacent to the site. Seven borings would be completed on-site to assess soil quality; grab groundwater samples would also be collected at selected locations (groundwater is expected at 15 to 20 feet below ground surface). The soil samples would be collected using direct push technology. Groundwater well installation (three wells) would be completed using an auger drill rig. See Figure 1 for proposed soil and groundwater sampling locations. Soil samples would be selectively analyzed for Title 22 metals, TPH, VOCs, PAHs, PCBs, pH, and cyanide. Groundwater samples would be selectively analyzed for TPH, metals, VOCs, PAHs, PCBs, and cyanide.

All soil borings would be grouted to surface upon completion. All soil cuttings, decontamination water, and groundwater from developing and sampling the wells would be stored in labeled and sealed 55-gallon drums. No confined space entry or site excavation activities requiring a permit are included in the scope of work. The project area is accessible via 7th and Brush Streets (see Proposed Well and Boring Locations Map, Figure 1, for project area). The topography of the project area is relatively flat. Field activities will require approximately four days to complete. Permits will be obtained prior to drilling from the City of Oakland, and a utility clearance will be performed. Traffic control will be provided for sampling conducted in the public right- of- way.

SITE HISTORY:

Contaminants potentially present in the subsurface soil and groundwater are identified above.

TRAINING REQUIREMENTS:

Yane Nordhav, R.G., is the Principal-in-charge. Lydia Huang is the Project Manager. Other BASELINE personnel include: William Scott, R.G., C.E.G., Field Geologist. Precision Sampling and Clearhart Drilling are subcontractors to BASELINE Environmental, and will work under the direction of BASELINE personnel during soil sampling activities. Samples will be submitted to a California-certified laboratory for analysis.

Responsibilities of BASELINE personnel include the following: Lydia Huang is the Project Manager and Yane Nordhav is the Principal-in-Charge. The project manager or principal-in-charge shall be: 1) present by telephone at all times during on-site work; 2) have overall responsibility for preparation, implementation, and modifications to this Plan; and 3) designate a BASELINE Site Health and Safety Officer to carry out the requirements of this Plan during all sampling activities. The responsibilities of William Scott, the designated BASELINE Site Health and Safety Officer/Project Supervisor, include: 1) being present at all times during on-site work; 2) enforcing this Site Health and Safety Plan (including the Emergency Response Plan, below); 3) stopping field operations if personnel safety and health may be jeopardized; 4) requesting Site evacuation, if necessary; 5) conducting and evaluating or supervising the collection/evaluation of air monitoring data for the purpose of making decisions regarding the safety of on-site personnel; 6) designating other qualified personnel to work under the direction of Site Health and Safety Officer, as necessary, for purposes of implementing this Plan; and 6) overseeing completion of the sampling activities as described above, and supervising the work of subconsultants. Precision Sampling and Clearhart Drilling will perform drilling activities under the direction of BASELINE personnel.

All on-site workers, including subcontractors and regulatory agency personnel, entering into the contamination reduction (warm), exclusion (hot), or any other areas of the Site with potential or suspected contamination must be 40-hour trained in accordance with the Federal and State OSHA HAZWOPER standard (including 3 days of supervised field experience and annual refresher training), and must be medically surveilled and have received annual respirator training and fit testing in accordance with this Standard and the requirements of their company's health and safety plan. On-site management personnel must also have received 8 hours of HAZWOPER Supervisor training. Proof of subcontractor training shall beprovided, if requested. All visitors entering the contamination reduction or exclusion area or other areas of the Site with potential or suspected contamination must also be 40-hour trained. The Site Health and Safety Manager will inquire whether each visitor is trained.

A copy of this site-specific Health and Safety Plan will be provided at the Site and will be reviewed by the Site Health and Safety Manager prior to the start of work at the Site, as part of a tail-gate safety meeting. This site-specific Plan applies to all BASELINE employees engaged in hazardous materials activities on-site. This Plan, or an equally protective Plan, shall be adopted by the subcontractors as a supplement to their existing health and safety programs. All on-site personnel will be asked to sign a consent form included in this Plan, prior to each day of field activities, indicating that they have read the Plan, have participated in the tail-gate safety meeting, meet the training requirements, and agree to all Plan conditions. Should other employers elect to adopt this Plan, BASELINE shall be held harmless and indemnified against any claims associated with this Plan. If a separate Plan is developed, it must be submitted for review by BASELINE prior to the commencement of field activities, and the Subcontractor must designate a Site Safety Officer to monitor Plan implementation. The Subcontractors' Site Safety Officer will be subordinate to the designated BASELINE Site Health and Safety Manager.

This Site Health and Safety Plan is intended to act as an extension of BASELINE's in-house Health and Safety Program including a Medical Surveillance Program, Hazard Communication Program, Hearing Conservation Program, Respiratory Protection Program, Personal Protective Equipment Program, Injury and Illness Program, Emergency Action Plan, and Fire Prevention Plan. BASELINE employees receive initial and refresher training in these programs.

CHEMICAL HAZARDS

The following known/suspected chemical hazards identified below may potentially be encountered by site personnel during sampling or other on-site activities.

Chemical	Description	Health and Safety Standards/Odor Threshold (OT)	Persons Exposed** and Potential Exposure Routes	Target Organs	Symptoms of Acute Exposure
Petroleum hydrocarbons (diesel, motor oil, waste oil, oil & grease)	Combustible liquid, may contain carcinogenic middle distillates LEL=0.7% UEL=5.0% (diesel)	No PEL	Dermal, eyes, ingestion	Eyes, skin, respiratory system	Minor eye/skin irritation
Gasoline	Hydrocarbon, carcinogen (engine exhaust), flammable LEL=1.4% UEL=7.6%	PEL=300 ppm (900 mg/m^3) REL[1] STEL=500 ppm (1500 mg/m^3) IDLH= -- OT= 0.3 ppm	Inhalation, dermal, eyes, ingestion	Eyes, skin, respiratory system, central nervous system (CNS), liver, kidneys	Eye and skin irritation, headache, fatigue, dermatitis, blurred vision, dizziness, slurred speech, confusion, convulsions
Benzene*	Volatile aromatic hydrocarbon, aromatic odor, carcinogen, flammable LEL=1.2% UEL=7.8%	PEL= 1 ppm REL/TLV=0.1 ppm[1] STEL=5 ppm IDLH=500 ppm OT = 8.65 ppm	Inhalation, dermal, eyes, ingestion	Eyes, skin, respiratory system, blood, CNS, bone marrow	Headache, dizziness, eye, respiratory and skin irrigation, giddiness, nausea, fatigue, dermatitis
Toluene*	Volatile aromatic hydrocarbon, benzene-like odor, reproductive toxin, flammable LEL =1.1% UEL=7.1%	PEL=50 ppm (188 mg/m^3) REL/TLV=100 ppm (375 mg/m^3) STEL=150 ppm (560 mg/m^3) C=500 ppm IDLH=500 ppm OT=0.16 ppm	Inhalation, dermal, eyes, ingestion	Eyes, skin, respiratory system, CNS, liver, kidney	Headache, dizziness, eye, respiratory and skin irritation, fatigue, weakness, confusion, euphoria, dilated pupils, lacrimation, nervousness
Xylenes	Volatile aromatic hydrocarbon, aromatic odor, flammable, LEL=1.1% UEL=7.0%	PEL=100 ppm (435 mg/m^3) REL/TLV=100 ppm (435 mg/m^3) STEL=150 ppm (655 mg/m^3) C=300 ppm IDLH=900 ppm OT=0.324 ppm	Inhalation, dermal, eyes, ingestion	Eyes, skin, respiratory system, gastrointestinal (GI) tract, blood, liver, kidneys	Headache, dizziness, eye, respiratory and skin irritation, excitement, drowsiness, staggering gate, nausea, vomiting, dermatitis, incoordination

Chemical	Description	Health and Safety Standards/Odor Threshold (OT)	Persons Exposed** and Potential Exposure Routes	Target Organs	Symptoms of Acute Exposure
Ethylbenzene	Volatile aromatic hydrocarbon, aromatic odor, flammable LEL=0.8% UEL=6.7%	PEL=100 ppm (435 mg/m^3) REL/TLV=100 ppm (435 mg/m^3) STEL=125 ppm (545 mg/m^3) IDLH=800 ppm OT= 2.3 ppm	Inhalation, dermal, eyes, ingestion	Eyes, skin, respiratory system, CNS	Eye, respiratory and skin irritation, skin burns, dermatitis
Metals (see lead, chromium and nickel below as example)	Varies depending on chemical	Varies depending on chemical	Varies depending on chemical	Varies depending on chemical	Varies depending on chemical
Lead	Carcinogen, reproductive toxin LEL=NA UEL=NA	PEL=0.05 mg/m^3 REL/TLV=0.1 mg/m^3 STEL=-- IDLH=100 mg/m^3 OT=--	Inhalation, eyes, ingestion	Eyes, GI tract, CNS, kidneys, blood, gingival tissue	Weakness, lassitude, insomnia, abdominal pain, constipation, anemia, tremor, eye irritation
Chromium	Metal, odorless solid LEL=-- UEL=--	PEL=0.5 mg/m^3 REL/TLV=0.5 mg/m^3 STEL=-- IDLH=250 mg/m^3 OT=--	Inhalation, eyes, ingestion	Eyes, skin, respiratory system	Eye and skin irritation, lung changes
Nickel	Metal, odorless solid, carcinogen LEL=-- UEL=--	PEL=1mg/m^3 REL/=0.015 mg/m^3 [1] TLV=1.5 mg/m^3 STEL=-- IDLH=10 mg/m^3 OT=--	Inhalation, eyes ingestion, dermal	Nose, lung, skin	Skin allergy, lung irritation, coughing respiratory problems
Polynuclear aromatic hydrocarbons may be present as part of heavy fuel hydrocarbons (benzo(a)pyrene and naphthalene are provided as examples)					
Benzo(a)pyrene (polynuclear aromatic hydrocarbon)	Carcinogen, reproductive toxin, combustible (aka coal tar pitch volatiles) LEL=NA UEL=NA	PEL=0.2 mg/m^3 REL/TLV=0.1 mg/m^3 [1] STEL=-- IDLH=80 mg/m^3 OT=NA	Inhalation, eyes	Respiratory system, skin, bladder, kidneys	Dermatitis, bronchitis
Naphthalene (polynuclear aromatic hydrocarbon)	Colorless to brown solid with a moth-ball odor, combustible LEL= 0.9% UEL=5.9%	PEL=10 ppm (50 mg/m^3) REL/TLV=10 ppm (50 mg/m^3) STEL=15 ppm (75 mg/m^3) IDLH=250 ppm OT=0.015 ppm	Inhalation, dermal, eyes, ingestion	Eyes, skin, blood, liver, kidneys, CNS	Eye irritation, headache, confusion, excitement, malaise, profuse sweating, dermatitis, blood in the urine, jaundice, bladder irritation, optical problems
Volatile organic compounds (PCE, TCE, cis 1,2-DCE, and 1,1,1-TCA are provided as examples)					
Tetrachloroethylene (PCE) (a.k.a., perchloroethylene)	Colorless liquid with a mild, chloroform-like odor, solvent, carcinogen	PEL=25 (170 mg/m^3) REL/TLV=[1] C=300 ppm STEL= 100 ppm (685 mg/m^3) IDLH=150 ppm OT=6.17 ppm	Dermal, eyes, ingestion, inhalation	Eyes, skin, respiratory system, liver, kidneys, CNS	Eye and respiratory irritation, nausea, dizziness, headache, skin redness, vertigo

Chemical	Description	Health and Safety Standards/Odor Threshold (OT)	Persons Exposed** and Potential Exposure Routes	Target Organs	Symptoms of Acute Exposure
Trichloroethylene (TCE)	Colorless liquid with a chloroform-like odor, solvent, carcinogen	PEL=25 ppm (135 mg/m^3) REL/TLV=[1] C=300 ppm STEL=100 ppm (537 mg/m^3) IDLH=1000 ppm OT=1.36 ppm	Eyes, dermal, skin, inhalation	Eyes, skin, respiratory system, heart, liver, CNS	Eye and skin irritation, headache, vertigo, visual problems, fatigue, giddiness, tremor, nausea, vomiting, dermatitis, heart problems
cis 1,2-dichloroethylene	Colorless liquid with a slightly acrid, chloroform-like odor, solvent	PEL=200 ppm (790 mg/m^3) REL/TLV=200 ppm (790 mg/m^3) STEL=-- IDLH=1000 ppm OT=19.1 ppm	Ingestion, inhalation, eyes	Eyes, respiratory system, CNS	Eye and respiratory system irritation, CNS depression
1,1,1-trichloroethane	Solvent	PEL=350 ppm (1900 mg/m^3) REL/TLV= 350 ppm C= 800 ppm STEL=450 ppm (2450 mg/m^3) IDLH= 700 ppm OT=22.4 ppm	Similar effects as above	Similar effects as above; skin irritation also possible	Similar effects as above; skin irritation also possible
Polychlorinated biphenyls* (aka chlorodiphenyl)	Colorless to light colored, viscous liquid with hydrocarbon odor, carcinogen LEL = NA UEL = NA	PEL = 1 mg/m^3 REL = 0.001 mg/m^3 [1] TLV = 1 mg/m^3 C = – STEL = -- IDLH = 10 mg/m^3 OT = --	Inhalation, dermal, eyes, ingestion	Eyes, skin, liver, reproductive system	Eye irritation, chloracne, liver damage, reproductive effects
Cyanide* (as Hydrogen Cyanide)	Colorless to blue liquid or gas with bitter almond-like odor LEL = 5.6% UEL = 40%	PEL = 5 mg/m^3 (Ceiling) STEL = 4.7 ppm (5 mg/m^3) IDLH = 50 mg/m^3 At Action Limit equivalent to 2 mg/m^3) in the worker breathing zone, workers will be required to vacate the area (since workers will not don supplied air respirators).	Inhalation, dermal, ingestion, eyes	CVS, CNS, thyroid, blood	Asphyxiation, weakness, headache, confusion, vomiting, respiratory problems, blood changes, thyroid problems

Notes: IDLH = Immediately dangerous to life and health; a condition from which one cannot escape within 30 minutes without permanent damage or death.
LEL = Lower explosive limit
NA = Not available or not applicable.
ND = Not yet determined by the National Institute of Occupational Safety and Health (NIOSH).
OSHA = California Department of Industrial Relations, which enforces the Occupational and Safety Health Act.
PEL = Permissible exposure limit. Time-weighted average concentrations for a normal 8-hour work period for a 40-hour work week; PELs are enforced by OSHA.
REL = Recommended exposure limit. Time-weighted average concentrations for up to a 10-hour day during a 40-hour work week. RELS are recommended by NIOSH, but are not regulatorily enforceable.
C = Ceiling limit. A limit that must not be exceeded during any part of work day.
STEL = Short term exposure limit. A 15-minute time weighted average exposure that is not to be exceeded at any time during a workday even if the 8-hr time-weighted average is below the PEL; regulated by OSHA. Up to 4 exposures at the STEL with one hour of no exposure between each exposure event may be experienced in an 8-hour working day.
TLV = Threshold limit value, American Conference of Government Industrial Hygienists. See also PEL.
UEL = Upper explosive limit
-- = None.
CVS = Cardiovascular system.
CNS = Central nervous system.
H = A number of gases and vapors when present in high concentration, act primarily as asphyxiants without other adverse effects. A limit is not included by OSHA because the limiting factor is available oxygen. Several of these materials present fire and explosion hazards.
Hazardous materials identified above as "carcinogens" or "reproductive toxins" are recognized as such under California's Proposition 65.

* Chemical may be absorbed into the blood stream through the skin, mucous membranes, and/or the eye, and contribute to overall exposure.
** BASELINE, drillers, and regulatory agency personnel.
[1] NIOSH recommends that occupational exposure to carcinogens should be limited to the lowest feasible concentration.
[2] Lowest feasible recommended.

PHYSICAL HAZARDS

Fire and explosion, heavy equipment, traffic, heat or cold stress, noise, over and underground utilities, and tripping and falling hazards. Traffic control will be provided by BASELINE personnel. BASELINE employees will follow standard operating procedures (SOPs) for sampling and quality assurance/control, as found in BASELINE's *Quality Assurance Program Plan.*

Drill rig safety requirements are the responsibility of the operator. The drilling contractor shall be responsible for complying with all OSHA requirements and accepted industry practices for protection of employee health and safety. The drilling contractors shall ensure that all equipment is in good working order prior to starting work and shall ensure that proper housekeeping is maintained around the work area at all times. Drillers shall inform sampling personnel of safety features of the rig.

BASELINE employees, subcontractors, and other personnel shall observe the following precautions:

1) Watch for slippery ground;
2) All unattended boreholes must be adequately covered;
3) Maximize distance from the rig and do not take readings at the rig during drive sampling;
4) Wear required personal protective equipment (PPE) at all times (see below);
5) Prevent strain injuries by using small sampling shipping containers and/or material handling aids. Use a portable table or platform for opening split spoon samplers;
6) Avoid heat/cold stress by taking regular work breaks, liquids intake, and appropriate attire, as needed; and
7) Watch for heavy equipment while sampling.
8) Wear traffic safety vests at all times and implement a traffic control plan.

PERSONAL PROTECTIVE EQUIPMENT REQUIRED:

SOPs shall be implemented to minimize exposure to hazardous materials potentially occurring at the Site. However, it is anticipated that SOPs cannot completely prevent exposure to all hazardous materials at the Site. Potential hazards include inhalation and dermal contact with contaminated materials during sampling events. Ingestion of hazardous materials is assumed to be negligible if personal hygiene measures discussed below are implemented. Hard hats, respirators equipped with high efficiency particulate filters (HEPA) and **NEW** organic vapors cartridges (use to be designated by Site Health and Safety Manager), nitrile gloves, safety goggles (use to be designated by Site Health and Safety Manager), steel toed footwear, water supply for washing, decontamination, and for drinking, disposable Tyvek overalls, first aid-kit, noise protection (ear plugs), traffic safety vests, and fire extinguisher (to be provided by drilling contractors). Note that Tyveks do not provide protection against solvents or fuels. They are only for protection against dust and dirt (including lead). Avoid contact with on-site soils on disposable Tyveks to the extent possible. If you (or one of the driller's) Tyvek suits becomes heavily soils, the Tyvek should be removed and exchanged for a new one. The nitrile gloves provide protection against volatile organics, chlorinated organics, and polynuclear aromatic hydrocarbons (PNAs) (unless saturated in soil; if saturated, double up with clean gloves and exchange gloves frequently). Decontaminate gloves between each sample collected and sample location.

The rationale for selection of the PPE is based on the known and/or suspected hazardous materials at the Site, the anticipated amount of contact with potentially contaminated materials as part of site-specific tasks, and PPE performance characteristics. The need for respiratory protection shall be selected based on the results of the air monitoring (see Air Monitoring Strategy below). On-site personnel shall be required to don respiratory protection (Level C) if deemed necessary by the designated Site Health and Safety Manager. All respiratory protection must be NIOSH approved. On-site workers must be trained, as provided by their employer, in PPE use, care, proper fitting (including respirator fit-testing), donning and doffing, and limitations, on at least an annual basis. All PPE must be properly maintained and stored to ensure it is good working condition at the time of use. All PPE must be inspected prior to, and following use. (BASELINE's PPE Program is included in BASELINE's *Health and Safety Program Plan*).

The need for Level B PPE (respiratory protection) is not anticipated at the Site. In the event Level B respiratory protection is warranted, on-site personnel will be asked to leave the area immediately by the Site Health and Safety Manager and the manager will notify the BASELINE Project Manager(s) immediately to determine future site actions. If PPE is deemed to be ineffective by the designated Site Health and Safety Manager, the Manager or his designee shall take immediate action to mitigate the problem(s).

AIR MONITORING STRATEGY (INCLUDING ACTION LEVELS):

Air monitoring shall be conducted and evaluated by the Site Health and Safety Manager or his designee prior to and during sampling activities, as described below. Before field work begins, collect background readings using the photo ionization detector (PID) and 4-gas meter. Monitor borings and worker breathing zone using the combustible gas indicator and4-gas meter to ensure that Permissible Exposure Limits (PELs), Action Levels, and other appropriate limits are not exceeded during field work. If PELs or other exposure levels are exceeded, or have the potential to be exceeded, personnel will be instructed by the designated Site Health and Safety Manager to wear appropriate respiratory protection (½ face respirator with OV/HEPA cartridges, as applicable) to reduce potential exposure below the applicable exposure limits. In addition, personnel will be asked to don respirators with HEPA filters and goggles if dusty conditions. The Site Health and Safety Manager will request that respiratory protection (OV/HEPA cartridges) also be donned if PNA materials are encountered visually and/or can be smelled. Most PNAs stick to dust, but some are moderately volatile. In addition, conduct colorimetric sampling for cyanide.

For purposes of this Air Monitoring Strategy, respiratory protection (Level C) shall be used for exposures up to 10 times the applicable PELs. Level C shall be deemed to be warranted if organic compounds measured using the PID are 1 to 10ppm above background levels for more than 1 minute. This is based on the assumption that all of the reading from the PID is benzene, which has the lowest PEL (and an exposure to this for eight hours wearing a half-face respirator). The drager pump and direct reading tubes (e.g., benzene) may be used to characterize vaporswhen the PID is 1-10 ppm over background for greater than one minute (wear your respirator while using the Drager pump, for the benzene test takes 15 minutes). Level B respiratory protection shall be deemed to be warranted in excess of 10 ppm above background concentrations (for benzene) or ten times the exposure limit for other contaminants (for half face air purifying respirators).

If Level B respiratory protection is warranted, on-site field personnel will be asked to evacuate by the Site Health and Safety Manager. If greater than 20% LEL in boring, stop work to air out boring until less than 20% LEL. In addition, if methane is detected or suspected at any concentration, stop drilling, remove any other ignition sources, vacate the area, and ventilate to prevent flammable mixtures from forming. Only resume drilling after air monitoring indicates methane is not detected.[1]

If colorimetric sampling for cyanide indicates that exposures in the worker breathing zone approaches up to 2 mg/m^3, on-site workers will be instructed by the Site Health and Safety Manager to vacate the area. Exposure to cyanide at or above the PEL (which is equivalent to a ceiling limit, not to be exceeded at any time) requires the use of supplied air. Air purifying respirators do not provide sufficient protection for exposure to cyanide at or above the PEL. Use of 2 mg/m^3 as an Action Limit at which workers would be required to vacate the area provides a safety margin since the PEL is equivalent to the Ceiling Limit, the concentration not to be exceeded at any time.

The results of air monitoring shall be relayed to on-site workers and documented. No IDLH or oxygen deficient conditions are expected at the site. Air monitoring equipment shall be maintained and calibrated in accordance with the manufacturer's specifications and BASELINE's *Quality Assurance Program Plan* and *Health and Safety Program Plan.*

SITE CONTROL MEASURES:

Sampling personnel will define and demarcate exclusion, decontamination, and clean zones for each boring location; the need for multiple exclusion/decontamination zones will be determined in the field. Maintain the use of the buddy system during sampling events; site communications will take place verbally. No eating or drinking shall be permitted in the exclusion zone; workers may go through partial decontamination (wash gloves, hands, and arms) to consume fluids in the warm zone. Avoid skin and eye contact with soil to the maximum extent possible. Personal hygiene is imperative to prevent prolonged contact with site soils and dusts. USA and/or another utility service will provide utility clearance. Hand-digging may be performed if utilities have been cleared but are suspected.

In the event of a minor (incidental) release of a hazardous material, the spill will be immediately cleaned up by on-site BASELINE personnel, and spill cleanup materials placed in labeled drums. Salvage drums and absorbent materials (i.e., bentonite) shall beprovided by drilling contractors. In the event of a larger than incidental (major) spill of hazardous materials, follow emergency procedures below.

Place all cuttings and rinsate/purge water and used PPE in drums, secure, and label. The location for temporary storage of drummed material generated during field activities is to be determined; the Site Health and Safety Manager will consult with the Project Manager and the client about where to securely store these drums.

DECONTAMINATION PROCEDURES (PERSONAL AND EQUIPMENT):

All personal and equipment decontamination procedures shall be implemented prior to leavingthe site. A decontamination area will be established from the work area (hot zone) to the control (cold) zone for soil sampling activities. The location of the decontamination area, and the need for multiple decontamination areas shall be determined by the Field Geologist/Project Supervisor and documented in the field after selection. Decontaminate sampling equipment, boots, and PPE according to the decontamination procedures below, and remove. Decontaminate boots, non-disposable PPE and sampling equipment on-site using trisodium phosphate (or Alcanox) and water, then rinse with water followed by a deionized water rinse. The equipment to be used for decontamination of sampling equipment, boots, and PPE will include three five gallon buckets (TSP or alconox/tap water, tap water rinse, and deionized water rinse, to be completed in that order) and brushes (for TSP or alconox bucket). Dispose of disposable PPE and sampling equipment in labeled containers. Antiseptic towelettes will be used for cleaning respirators and washing hands and arms. Larger sampling/drilling equipment shall be decontaminated by the drilling contractor using a self-contained steam-cleaning system and wearing proper PPE. Decontamination of sampling and drilling equipment will also be required prior to sampling and between sampling locations to avoid cross-contamination, as will decontamination or replacement of gloves at a new sampling location. All personnel should shower as soon as possible after leaving the Site. Contain all decontamination rinsate in labeled containers.

[1] Methane vapors can be detected using a combustible gas meter, not a PID.

Decontamination procedures shall be monitored by the Site Health and Safety Manager to determine their effectiveness. If decontamination measures are found to be ineffective, the Site Health and Safety Manager or his designee shall take appropriate action to immediately correct any deficiencies.

OTHER:

Illumination is not expected to be required, as all work will be performed during daylight hours. The location of the nearest restroom will be identified by the Site Health and Safety Manager prior to sampling during the daily tailgate safety meeting. Drinking water and antiseptic towelettes will be provided by BASELINE for personal hygiene.

Post exposure medical screening is not deemed to be required for on-site personnel based on the hazardous materials known and/or suspected to be encountered during field operations. An employee heat and cold stress monitoring program is also not deemed to be required for Site operations based on the limited number of days of Site work and California's mild climate. However, on-site personnel shall avoid heat/cold stress by taking regular work breaks, monitoring sufficient liquids intake, and wearing appropriate attire, if needed.

All drums used at the site for the sampling activities described above must meet DOT, OSHA, and U.S. EPA regulations for the wastes they contain. Site operations shall be organized to minimize the amount of drum movement. Before moving drums, inform all immediate workers of the potential hazards associated with the contents of the drums and containers being moved or handled. Inspect the integrity of drums and containers prior to moving them. Immediately label all drums used to contain waste materials. Unlabeled drums shall be considered to contain hazardous substances and handled accordingly until the contents are positively identified and labeled. Drums that cannot be moved without rupture, leaking, or spillage shall be emptied into a sound container (supplied by the drilling contractors). Workers not involved in opening drums or containers shall remain at a safe distance from drums and containers being opened. If flammable atmospheres are possible, non-sparking tools shall be used to open drums and containers. In addition, handling equipment used to transfer drums and containers shall be selected, positioned, and operated to minimize sources of ignition related to the equipment from igniting vapors released from ruptured drums or containers. Standing on drums or containers shall not be permitted at any time.

Any deficiencies in this Site Health and Safety Plan, identified by the Site Health and Safety Manager, shall be immediately corrected. On-site workers, identifying any deficiencies in this Plan, shall immediately notify the Site Health and Safety Manager of such deficiencies.

EMERGENCY PROCEDURES:

A cellular phone is carried by BASELINE personnel. In the event of a major emergency (e.g., fire, major spill, medical, explosion), the Site Health and Safety Manager or his designee shall use the cellular phone to contact "911," Lydia Huang/Yane Nordhav (510-420-8686), the client (phone number listed above), and other emergency numbers listed below, as applicable. The designated BASELINE Site Health and Safety Manager shall verbally request evacuation of Site personnel (personnel must first go through decontamination prior to evacuation).

Evacuation shall be requested by repeatedly honking the horn of a vehicle for personnel who are not within voice range. The honking will continue until personnel can be verbally notified of the emergency and the need for evacuation. Personnel shall evacuate the Site to the reassembly area. The Site Health and Safety officer will be responsible for notifying personnel and any visitors of an appropriate evacuation route and reassembly area prior to the field work during the tailgate safety meeting. The notification of the evacuation route and reassembly area may be made during the daily tailgate safety meeting and should be documented in the field log. An evacuation route and reassembly area are therefore not included herein. Any injured personnel shall be brought to the decontamination area prior to evacuation, and shall be assisted in decontamination, according to the procedures above, unless the transport or decontamination may potentially cause further injury, where transport and decontamination shall be requested by the paramedics. The designated Site Health and Safety Manager shall account for all on-site personnel following evacuation.

Rescue and medical duties (other than first aid/CPR by trained personnel), as required, shall be provided by off-site emergency responders (e.g., paramedics, fire fighters). Injured personnel may only be transported to the Hospital Emergency Room if the injury is non-threatening and does not require immediate attention (e.g., scrapes, minor cuts) (The hospital emergency route is included).

Following evacuation, the designated BASELINE Health and Safety Manager, shall request on-site personnel to maintain security of the Site (by preventing unauthorized entry) until the Site has been released to off-Site emergency responders (fire fighters, police, etc.). Evacuated personnel will direct emergency responders to the emergency and inform them of Site hazards and the emergency. Other emergency notifications may be required, for example, the Emergency Management System (911), the Office of Emergency Services (800-852-7550), Oakland Fire Department, Hazardous Materials Management Program (510-238-3938), State Department of Fish and Game (707-944-5512), and U.S. Environmental Protection Agency, Region IX (415 744-2000). The need for emergency notifications will be determined by the designated BASELINE Health and Safety Manager and Project Manager(s), based on the emergency at hand. All notifications will be documented.

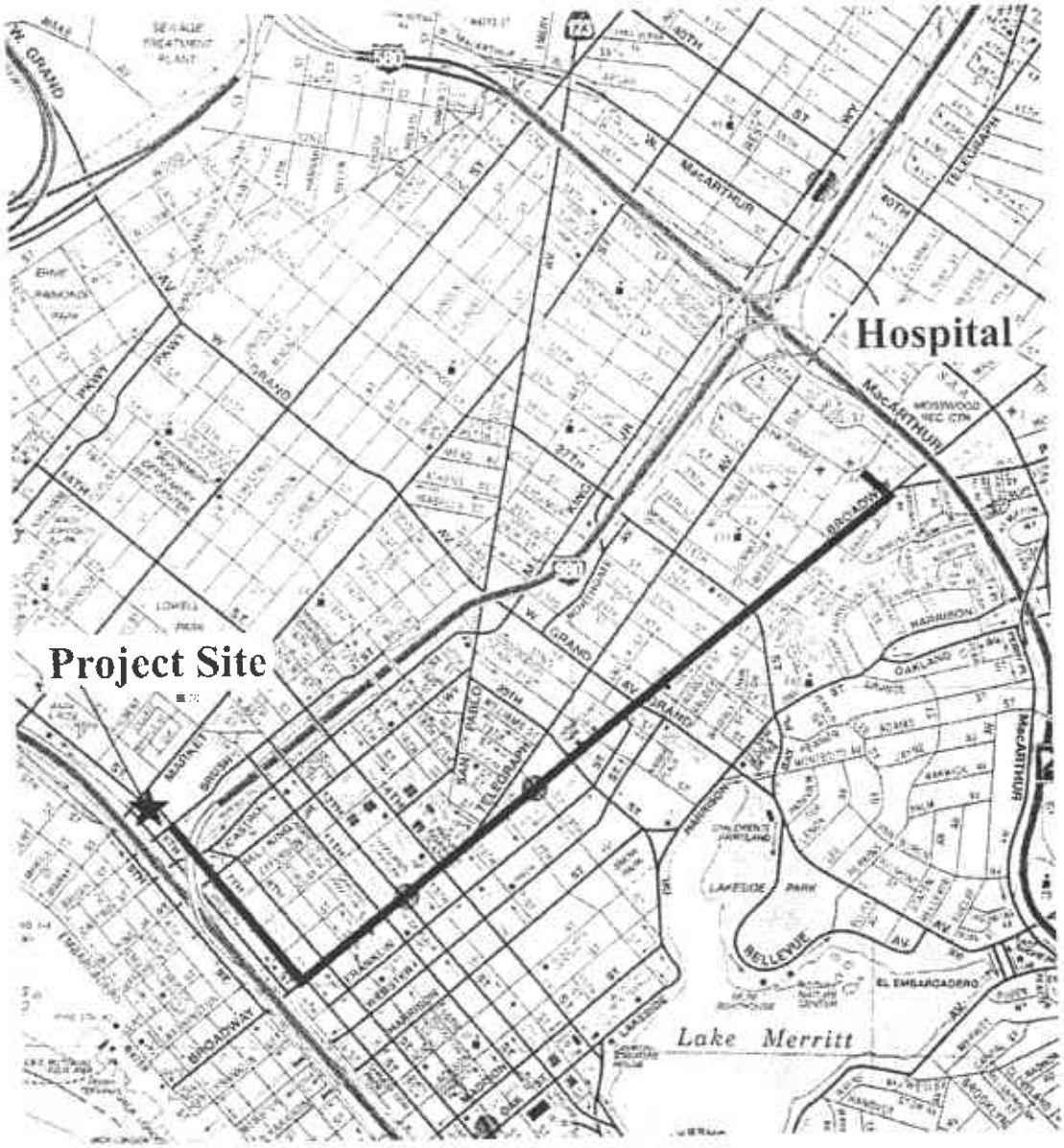
Following the emergency, the designated Site Health and Safety Officer shall be responsible for preparing a post-incident critique, for the purpose of identifying the cause of the emergency, response initiated, and need for additional training, procedures, or equipment. The designated Site Health and Safety Manager and Project Manager(s) shall take corrective action to prevent reoccurrence of the emergency. At any time if any deficiencies in these Emergency Procedures are identified, they shall be immediately corrected by the Site Health and Safety Manager. On-site workers identifying any deficiencies in the emergency procedures shall immediately notify the Site Health and Safety Manager of such deficiencies.

Prepared by:	Date:	Reviewed/Approved by:	Date:
Julie C. Pettijohn, MPH, IHIT	22 January 2003		1/29/03

Read by/Date:

	2-4-03
JOSE M. CARRAZA	2-4-03
MARCOS R.	2-4-03
GERARDO GUTIERREZ	2-4-03
Kirk Schneider	2-10-03
Scott M Burden	2-10-03

Hospital Route



Hospital: Summit Medical Center, Emergency Room 350 Hawthorne Avenue, Oakland, CA	Telephone: (510) 655-4000	Paramedic: 911
Directions to hospital: Go north on Brush Street towards 7th Street. Turn right on 7th Street. Turn left onto Broadway. Turn left onto Hawthorne Avenue. The emergency room is located at 350 Hawthorne Avenue.		

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-6633 James Yoo
FAX (510) 782-1939
APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 751-785 BRUSH ST. OAKLAND CA.

CLIENT
Name BBI Construction
Address 1155 3rd St. #330 Phone N/A
City Oakland CA Zip 94607

APPLICANT
Name William R Scott
Fax 510 420 1707
Address 5900 Hollis St Phone 510 420-8682
City Emeryville CA Zip 94608

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	☐	General	☐
Water Supply	☐	Contamination	☑
Monitoring	☑	Well Destruction	☐

PROPOSED WATER SUPPLY WELL USE

New Domestic	☐	Replacement Domestic	☐
Municipal	☐	Irrigation	☐
Industrial	☐	Other ____	☐

DRILLING METHOD:

Mud Rotary	☐	Air Rotary	☐	Auger	☑
Cable	☐	Other	☐		

DRILLER'S NAME Clear Heart Drilling
DRILLER'S LICENSE NO. 467904 - Inactive
780357 - Active

WELL PROJECTS
Drill Hole Diameter 8 1/4 in. Maximum
Casing Diameter 2 in. Depth 30 ft.
Surface Seal Depth 10 ft. Owner's Well Number MW-FP1

GEOTECHNICAL PROJECTS
Number of Borings ____ Maximum
Hole Diameter ____ in. Depth ____ ft.

STARTING DATE 2-10-03
COMPLETION DATE 2-11-03

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.
APPLICANT'S SIGNATURE [signature] DATE 1-21-03
PLEASE PRINT NAME WILLIAM R SCOTT

Rev.9-18-02

FOR OFFICE USE
PERMIT NUMBER W03-0062
WELL NUMBER
APN

PERMIT CONDITIONS
Circled Permit Requirements Apply

A. GENERAL
1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date

B. WATER SUPPLY WELLS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL
Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings

E. CATHODIC
Fill hole anode zone with concrete placed by tremie.

F. WELL DESTRUCTION
Send a map of work site. A separate permit is required for wells deeper than 45 feet.

G. SPECIAL CONDITIONS - SC#1 Attached.

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED [signature] DATE 1-22-03

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-6633 James Yoo
FAX (510) 782-1939
APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 751-785 BRUSH ST. OAKLAND CA

CLIENT
Name RBI Construction
Address 1153 2nd ST, #210 Phone NA
City Oakland CA Zip 94607

APPLICANT
Name WILLIAM F SCOTT
BASELINE ENV. Fax 510 420 1707
Address 5900 HOLLIS ST Phone 510 420-8686
City EMERYVILLE CA Zip 94608

TYPE OF PROJECT
Well Construction
Cathodic Protection ☐
Water Supply ☐
Monitoring ☑
Geotechnical Investigation
General ☐
Contamination ☑
Well Destruction ☐

PROPOSED WATER SUPPLY WELL USE
New Domestic ☐ Replacement Domestic ☐
Municipal ☐ Irrigation ☐
Industrial ☐ Other ☐

DRILLING METHOD:
Mud Rotary ☐ Air Rotary ☐ Auger ☑
Cable ☐ Other ☐

DRILLER'S NAME Clear Heart Drilling
DRILLER'S LICENSE NO. 467909 - In Active
780357 - Active

WELL PROJECTS
Drill Hole Diameter 8 ¼ in. Maximum Depth 30 ft.
Casing Diameter 2 in. Owner's Well Number MW-FP2
Surface Seal Depth 10 ft.

GEOTECHNICAL PROJECTS
Number of Borings ____ Maximum
Hole Diameter ____ in. Depth ____ ft.

STARTING DATE 2-10-03
COMPLETION DATE 2-11-03

FOR OFFICE USE
PERMIT NUMBER W03-0063
WELL NUMBER
APN

PERMIT CONDITIONS
Circled Permit Requirements Apply

A. GENERAL
1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL
Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

E. CATHODIC
Fill hole above zone with concrete placed by tremie.

F. WELL DESTRUCTION
Send a map of work site. A separate permit is required for wells deeper than 45 feet.

G. SPECIAL CONDITIONS - SCHL Attached.

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED [signature] DATE 1-22-03

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE [signature] DATE 1-21-03

PLEASE PRINT NAME WILLIAM F SCOTT

Rev.9-18-02

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-6633 James Yoo
FAX (510) 782-1939
APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 751-785 BRUSH ST. OAKLAND CA

CLIENT
Name BBI Construction
Address 1153 3rd St., 230 Phone N/A
City Oakland CA Zip 94607

APPLICANT
Name WILLIAM K SCOTT
Fax 510 420 1707
Address 5900 HOLLIS ST. Phone 510 420-8682
City EMERYVILLE CA Zip 94608

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	☐	General	☐
Water Supply	☐	Contamination	✓
Monitoring	☐	Well Destruction	☐

PROPOSED WATER SUPPLY WELL USE

New Domestic	☐	Replacement Domestic	☐
Municipal	☐	Irrigation	☐
Industrial	☐	Other	☐

DRILLING METHOD:

Mud Rotary	☐	Air Rotary	☐	Auger	☐
Cable	☐	Other	☒ DPT		

DRILLER'S NAME Precision Sampling
DRILLER'S LICENSE NO. 631387

WELL PROJECTS
Drill Hole Diameter ____ in. Maximum Depth ____ ft.
Casing Diameter ____ in. Owner's Well Number ____
Surface Seal Depth ____ ft.

GEOTECHNICAL PROJECTS
Number of Borings 7 Maximum Depth 20 ft.
Hole Diameter 2 in.

STARTING DATE 2-4-03
COMPLETION DATE 2-5-03

FOR OFFICE USE
PERMIT NUMBER W03-0061
WELL NUMBER ____
APN ____

PERMIT CONDITIONS
Circled Permit Requirements Apply

A. GENERAL
1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL
Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

E. CATHODIC
Fill hole anode zone with concrete placed by tremie.

F. WELL DESTRUCTION
Send a map of work site. A separate permit is required for wells deeper than 45 feet.

G. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED [signature] DATE 1-22-03

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE [signature] DATE 1-21-03

PLEASE PRINT NAME WILLIAM K SCOTT

Rev.9-18-02

APPENDIX C

BORING LOGS

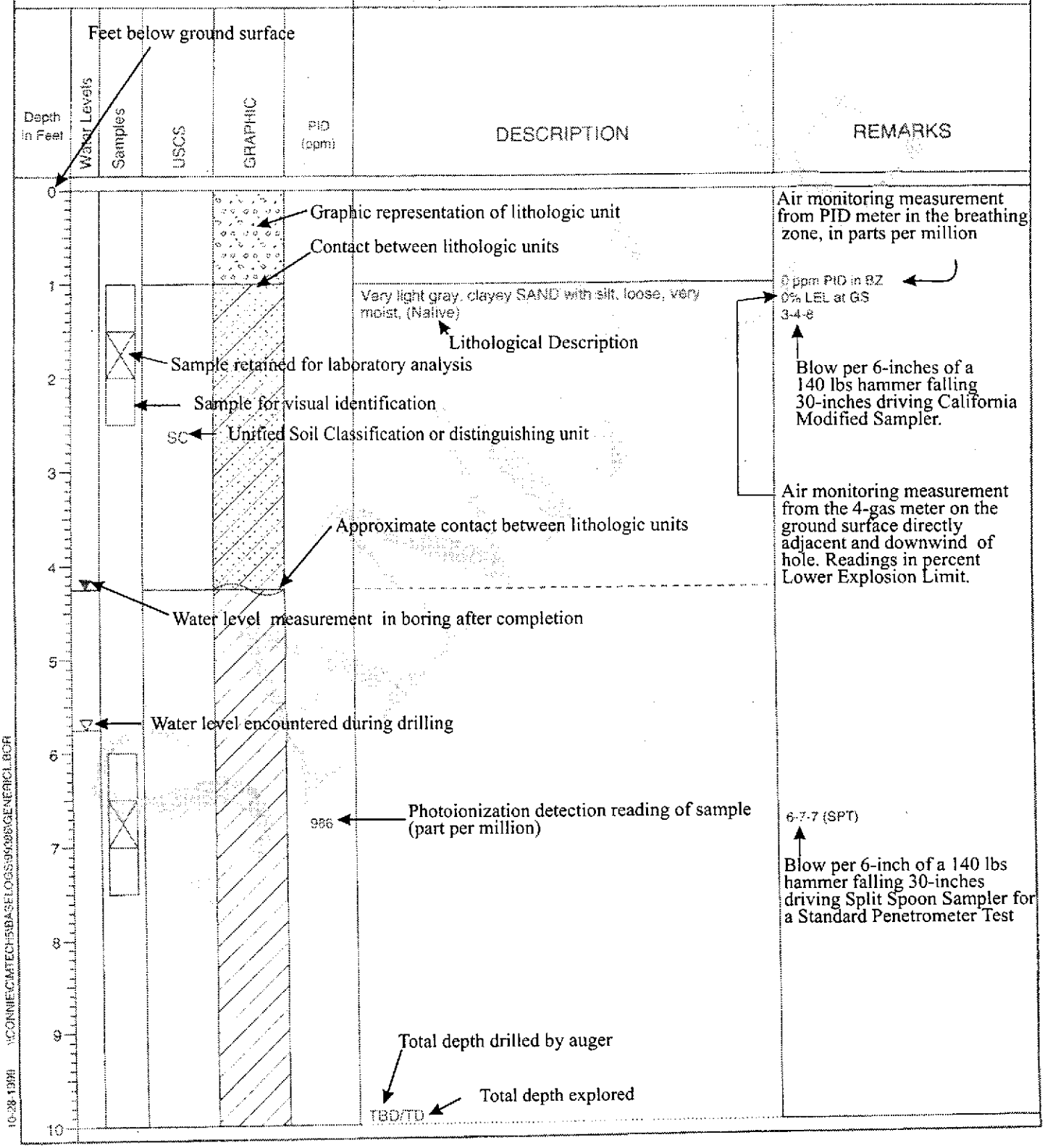
BASELINE

LOG OF BORING B1

(Page 1 of 1)

5900 Hollis Street, Suite D
Emeryville, California 94608
(510) 420-8686 voice
(510) 420-1707 fax

Location	: Company X	Boring no.	: B1
Driller	: ABC Drilling	Project no.	: 00000
Method	: Hollow Stem	Date	: 2/18/99
Logger	: WKS	Casing size	: 2-inch
Datum (feet)	: 0.0	Bore size	: 7 3/4 inch



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D:\Graphics\Sample.cdr 10/27/99

BASELINE

LOG OF BORING: MW-FP1

5900 Hollis Street, Suite D
Emeryville, California 94608
(510) 420-8686 voice
(510) 420-1707 fax

Location	: 781-785 Brush Street	Boring no.	: MW-FP1
	: Oakland	Project no.	: Y0323-01
Driller	: Clear Heart	Date	: 2/10/03
Method	: Hollow Stem	Casing size	: 2 inch
Logger	: WKS	Bore size	: 8 3/4 inch

▼ Water level, observed
▽ Water level, measured

Depth in	Water Level	Sample	USCS	GRAPHIC	PID (ppm)	DESCRIPTION	
14							
15			SW/SM				
16						Yellowish brown mottled with gray SAND, trace of silt, fine- and medium-grained, iron oxide stained, wet (Merritt Sands)	
17						Some interbedding of silty SAND-SAND	
18			SW				
19							
20					0	Yellowish brown SAND, trace of silt, fine grained, wet (Merritt Sands)	STP 9-15-22
21							
22							
23			SW				
24							
25					0		STP 19-22-33
26							
27						Total depth drilled = 25.0 feet Total depth = 26.5 feet	
28							

03-06-2003 E:\Baselogs\Y0323-01\MW-FP1.bor

BASELINE

LOG OF BORING: MW-FP2

5900 Hollis Street, Suite D
Emeryville, California 94608
(510) 420-8686 voice
(510) 420-1707 fax

Location	: 781-785 Brush Street	Boring no.	: MW-FP2
	: Oakland	Project no.	: Y0323-01
Driller	: Clear Heart	Date	: 2/10/03
Method	: Hollow Stem	Casing size	: 2 inch
Logger	: WKS	Bore size	: 8 3/4 inch

▼ Water level, observed
▽ Water leve, measured

Depth in	Water Level	Sample	USCS	GRAPHIC	PID (ppm)	DESCRIPTION
0–4			SP			Very dark brown SAND, fine grained, moist (Fill)
4–14	▽		SW/SM		0	Yellowish brown silty SAND-SAND, trace of clay, very fine to fine grained, red iron oxide stained, very moist to wet (Merritt Sands)

STP
3-4-5
Cyanide draegger tube = ND

03-06-2003 E:\Baselogs\Y0323-01\MW-FP2.bor

BASELINE

LOG OF BORING: MW-FP2

5900 Hollis Street, Suite D
Emeryville, California 94608
(510) 420-8686 voice
(510) 420-1707 fax

Location	: 781-785 Brush Street	Boring no.	: MW-FP2
	: Oakland	Project no.	: Y0323-01
Driller	: Clear Heart	Date	: 2/10/03
Method	: Hollow Stem	Casing size	: 2 inch
Logger	: WKS	Bore size	: 8 3/4 inch

▼ Water level, observed
▽ Water leve, measured

Depth in	Water Level	Sample	USCS	GRAPHIC	PID (ppm)	DESCRIPTION	
14							
15			SW/SM				
16						Yellowish brown mottled with gray SAND, trace of silt, fine- and medium-grained, iron oxide stained, wet (Merritt Sands)	
17						Some interbedding of silty SAND-SAND	
18							
19							
20					0		STP 9-19-22
21			SW				
22							
23							
24							
25					0		STP 7-22-32
26							
27						Total depth drilled = 25.0 feet Total depth = 26.5 feet	
28							

03-06-2003 E:\Baselogs\Y0323-01\MW-FP2.bor

BASELINE

LOG OF BORING: B-FP1

5900 Hollis Street, Suite D
Emeryville, California 94608
(510) 420-8686 voice
(510) 420-1707 fax

Location	: 781-785 Brush Street	Boring no.	: B-FP1
	: Oakland	Project no.	: Y0323-01
Driller	: Precision Sampling	Date	: 2/5/03
Method	: DPT	Casing size	: None
Logger	: WKS	Bore size	: 2 inch

Depth in	Samples	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0		Concrete			Concrete slab	
1					Dark brown SAND, fine grained, moist (Fill)	Cleared hole to 2.0 feet
2		SP		0		
3						
4						
5		SW/SM			Yellowish-brown mottled with gray silty SAND-SAND, trace of clay, very fine- to fine-grained, red iron oxide stains, very moist (Merritt Sands)	
6				0		
7				0		
8						
9						
10						

03-03-2003 E:\Baselogs\Y0323-01\B-FP1.bor

BASELINE

LOG OF BORING: B-FP1

5900 Hollis Street, Suite D
Emeryville, California 94608
(510) 420-8686 voice
(510) 420-1707 fax

Location	: 781-785 Brush Street	Boring no.	: B-FP1
	: Oakland	Project no.	: Y0323-01
Driller	: Precision Sampling	Date	: 2/5/03
Method	: DPT	Casing size	: None
Logger	: WKS	Bore size	: 2 inch

Depth in	Samples	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
10				0		
11						
12						
13		SW/SM				
14						
15				0		Grouted hole to surface upon completion
16					Total depth = 16.0 feet	
17						
18						
19						
20						

03-03-2003 E:\Baselogs\Y0323-01\B-FP1.bor

BASELINE

LOG OF BORING: B-FP2

5900 Hollis Street, Suite D
Emeryville, California 94608
(510) 420-8686 voice
(510) 420-1707 fax

Location	: 781-785 Brush Street	Boring no.	: B-FP2
	: Oakland	Project no.	: Y0323-01
Driller	: Precision Sampling	Date	: 2/5/03
Method	: DPT	Casing size	: None
Logger	: WKS	Bore size	: 2 inch

Depth in	Samples	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0		Concrete			Concrete slab	
1					Dark brown SAND, fine grained, moist (Fill)	Cleared hole to 2.0 feet
2		SP		0		
3						
4						
5					Yellowish-brown mottled with gray silty SAND-SAND, trace of clay, very fine- to fine-grained, red iron oxide stains, very moist (Merritt Sands)	
6				0		
7		SW/SM		0		
8						
9						
10						

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BASELINE

LOG OF BORING: B-FP2

5900 Hollis Street, Suite D
Emeryville, California 94608
(510) 420-8686 voice
(510) 420-1707 fax

Location	: 781-785 Brush Street	Boring no.	: B-FP2
	: Oakland	Project no.	: Y0323-01
Driller	: Precision Sampling	Date	: 2/5/03
Method	: DPT	Casing size	: None
Logger	: WKS	Bore size	: 2 inch

Depth in	Samples	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
10				0		
11						
12						
13		SW/SM				
14						
15				0		Grouted hole to surface upon completion
16					Total depth = 16.0 feet	
17						
18						
19						
20						

03-03-2003 E:\Baselogs\Y0323-01\B-FP2.bor

BASELINE

LOG OF BORING: B-FP3

5900 Hollis Street, Suite D
Emeryville, California 94608
(510) 420-8686 voice
(510) 420-1707 fax

Location	: 781-785 Brush Street	Boring no.	: B-FP3
	: Oakland	Project no.	: Y0323-01
Driller	: Precision Sampling	Date	: 2/4/03
Method	: DPT	Casing size	: 1 inch
Logger	: WKS	Bore size	: 2 inch

▼ Water level, observed
▽ Water level, measured

Depth in	Samples	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0		Concrete			Concrete slab	
1		SP		0	Very dark brown SAND, fine grained, very moist (Fill)	1.5 foot recovery between 0.5 to 4.0 feet Overdrove sampler 0.5 foot
2						
3						
4				0	Becoming brown at 4.0 feet	
5						
6		SW/SM			Yellowish brown mottled with gray silty SAND-SAND, trace of clay, very fine- to fine-grained, red iron oxide stains, very moist to wet (Merritt Sands)	
7				0		
8						
9						
10						

Temporary blank PVC casing, 1 inch diameter, 0 to 20 feet

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BASELINE

LOG OF BORING: B-FP3

5900 Hollis Street, Suite D
Emeryville, California 94608
(510) 420-8686 voice
(510) 420-1707 fax

Location	: 781-785 Brush Street	Boring no.	: B-FP3
	: Oakland	Project no.	: Y0323-01
Driller	: Precision Sampling	Date	: 2/4/03
Method	: DPT	Casing size	: 1 inch
Logger	: WKS	Bore size	: 2 inch

▼ Water level, observed
▽ Water level, measured

Depth in	Samples	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
10				0		
11						
12						
13		SW/SM				
14	▽					Water level stable at 14.3 feet bgs @ 11:20
15				0		
16					Yellowish brown SAND, trace of silt, some silty sand layers interbedded, fine- to medium-grained, very moist to wet	
17						
18		SW				Dual barrel sampler met refusal at 20 feet; used micro core to drive to 25 feet
19						
20						

Temporary blank PVC casing, 1 inch diameter, 0 to 20 feet

03-06-2003 E:\Baselogs\Y0323-01\Punches\B-FP3.bor

BASELINE

LOG OF BORING: B-FP3

5900 Hollis Street, Suite D
Emeryville, California 94608
(510) 420-8686 voice
(510) 420-1707 fax

Location	: 781-785 Brush Street	Boring no.	: B-FP3
	: Oakland	Project no.	: Y0323-01
Driller	: Precision Sampling	Date	: 2/4/03
Method	: DPT	Casing size	: 1 inch
Logger	: WKS	Bore size	: 2 inch

▼ Water level, observed
▽ Water level, measured

Depth in	Samples	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
20		SW		0	Temporary screen, 0.01-inch slot, 20 to 25 feet	Inserted temporary blank casing and screen for grab groundwater sample. Upon completion of water sample collection, removed PVC casing and grouted hole to surface with neat cement
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

Total depth = 25.0 feet

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BASELINE

LOG OF BORING: B-FP4

5900 Hollis Street, Suite D
Emeryville, California 94608
(510) 420-8686 voice
(510) 420-1707 fax

Location	: 781-785 Brush Street	Boring no.	: B-FP4
	: Oakland	Project no.	: Y0323-01
Driller	: Precision Sampling	Date	: 2/4/03
Method	: DPT	Casing size	: 1 inch
Logger	: WKS	Bore size	: 2 inch

Depth in	Samples	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0		Concrete			Concrete slab	
1		SP		0	Very dark brown SAND, fine grained, moist (Fill)	Cleared hole to 2.0 feet
2				0		
3						
4						
5		SW/SM		0	Yellowish brown mottled with gray silty SAND-SAND, trace of clay, very fine-grained, red iron oxide stains, very moist to wet (Merritt Sands)	
6						
7				0		
8						
9						
10						

Temporary blank PVC casing, 1 inch diameter 0 to 15 feet

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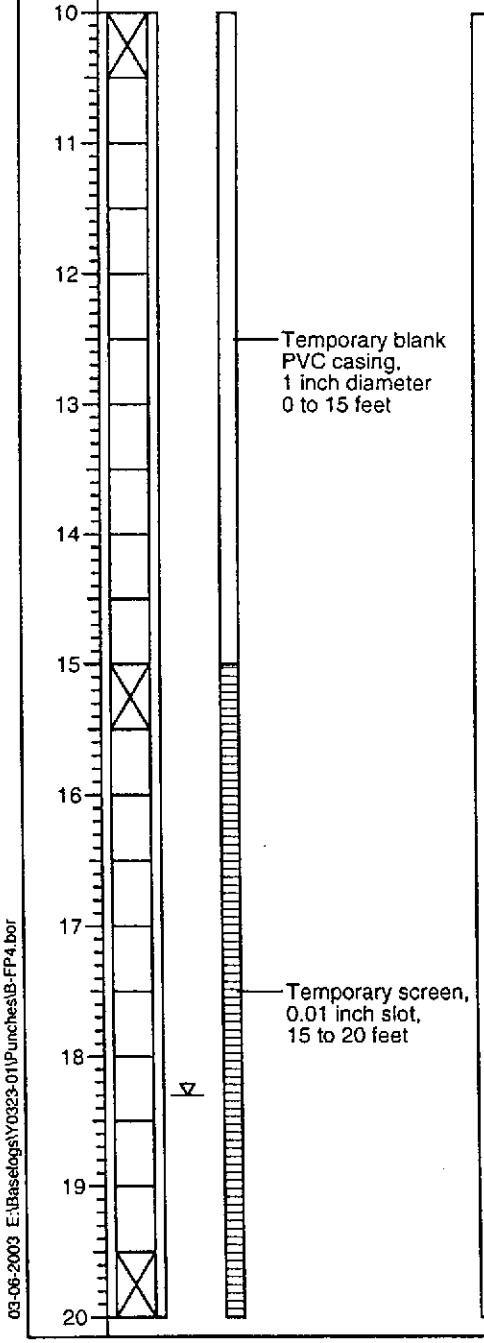
BASELINE

LOG OF BORING: B-FP4

5900 Hollis Street, Suite D
Emeryville, California 94608
(510) 420-8686 voice
(510) 420-1707 fax

Location	: 781-785 Brush Street	Boring no.	: B-FP4
	: Oakland	Project no.	: Y0323-01
Driller	: Precision Sampling	Date	: 2/4/03
Method	: DPT	Casing size	: 1 inch
Logger	: WKS	Bore size	: 2 inch



USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
		0		
SW/SM		0		Water level stable at 18.3 feet bgs
		0	Total depth = 20.0 feet	Inserted temporary blank casing and screened for grab groundwater sample. Upon completion of water sample collection, removed PVC casing and grouted hole to surface with neat cement

BASELINE

LOG OF BORING: B-FP5

5900 Hollis Street, Suite D
Emeryville, California 94608
(510) 420-8686 voice
(510) 420-1707 fax

Location	: 781-785 Brush Street	Boring no.	: B-FP5
	: Oakland	Project no.	: Y0323-01
Driller	: Precision Sampling	Date	: 2/4/03
Method	: DPT	Casing size	: 1 inch
Logger	: WKS	Bore size	: 2 inch

▼ Water level, observed
▽ Water level, measured

Well:
Elev.:

Depth in	Samples	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0		Concrete			Concrete slab	
1		SP		0	Very dark brown SAND, fine grained, small pieces of black charcoal, moist (Fill)	Cleared hole to 2.0 feet
2						
3						
4						
5		SW/SM		0	Yellowish brown mottled with gray silty SAND-SAND, trace of clay, very fine grained, very moist to wet (Merritt Sands)	
6						
7				0		
8						
9						
10						

Temporary blank PVC casing, 1 inch diameter, 0 to 18 feet

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BASELINE

LOG OF BORING: B-FP5

5900 Hollis Street, Suite D
Emeryville, California 94608
(510) 420-8686 voice
(510) 420-1707 fax

Location	: 781-785 Brush Street	Boring no.	: B-FP5
	: Oakland	Project no.	: Y0323-01
Driller	: Precision Sampling	Date	: 2/4/03
Method	: DPT	Casing size	: 1 inch
Logger	: WKS	Bore size	: 2 inch

▼ Water level, observed
▽ Water level, measured

Well:
Elev.:

Depth in	Samples	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
10				0		
11						
12						
13		SW/SM				
14						
15				0		Water level stable at 14.8 feet bgs (@ 7:00 am on 2/5/03)
16					Yellowish-brown SAND, trace of silt, some silty sand layers interbedded, fine- to medium-grained, very moist to wet	
17					Some interbedding of silty sand	
18		SW				
19						Dual barrel sampler met refusal at 20 feet; used micro core to drive to 23 feet
20				0		

Temporary blank PVC casing, 1 inch diameter, 0 to 18 feet

Temporary screen, 0.01 inch slot, 18 to 23 feet

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BASELINE

LOG OF BORING: B-FP5

5900 Hollis Street, Suite D
Emeryville, California 94608
(510) 420-8686 voice
(510) 420-1707 fax

Location	: 781-785 Brush Street	Boring no.	: B-FP5
	: Oakland	Project no.	: Y0323-01
Driller	: Precision Sampling	Date	: 2/4/03
Method	: DPT	Casing size	: 1 inch
Logger	: WKS	Bore size	: 2 inch

▼ Water level, observed
▽ Water level, measured

Depth in	Samples	Well: Elev.:	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
20–23		Temporary screen, 0.01 inch slot, 18 to 23 feet	SW				Inserted temporary blank casing and screen for grab groundwater sample. Upon completion of water sample collection, removed PVC casing and grouted hole to surface with neat cement

Total depth = 23.0 feet

20 21 22 23 24 25 26 27 28 29 30

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BASELINE

LOG OF BORING: B-FP6

5900 Hollis Street, Suite D
Emeryville, California 94608
(510) 420-8686 voice
(510) 420-1707 fax

Location	: 781-785 Brush Street	Boring no.	: B-FP6
	: Oakland	Project no.	: Y0323-01
Driller	: Precision Sampling	Date	: 2/5/03
Method	: DPT	Casing size	: None
Logger	: WKS	Bore size	: 2 inch

Depth in	Samples	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0		Concrete			Concrete slab	
1					Dark brown SAND, fine grained, pieces of charcoal, fire debris (burnt material), moist (Fill)	Cleared hole to 2.0 feet
2		SP		0		
3						
4						
5					Yellowish brown mottled with gray silty SAND-SAND, trace of clay, very fine- to fine-grained, red iron oxide stains, very moist to wet (Merritt Sands)	
6				0		
7		SW/SM		0		
8						
9						
10						

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BASELINE

LOG OF BORING: B-FP6

5900 Hollis Street, Suite D
Emeryville, California 94608
(510) 420-8686 voice
(510) 420-1707 fax

Location	: 781-785 Brush Street	Boring no.	: B-FP6
	: Oakland	Project no.	: Y0323-01
Driller	: Precision Sampling	Date	: 2/5/03
Method	: DPT	Casing size	: None
Logger	: WKS	Bore size	: 2 inch

Depth in	Samples	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
10				0		
11						
12						
13		SW/SM				
14						
15				0		Grouted hole to surface upon completion
16					Total depth = 16.0 feet	
17						
18						
19						
20						

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BASELINE

LOG OF BORING: B-FP7

5900 Hollis Street, Suite D
Emeryville, California 94608
(510) 420-8686 voice
(510) 420-1707 fax

Location	: 781-785 Brush Street	Boring no.	: B-FP7
	: Oakland	Project no.	: Y0323-01
Driller	: Precision Sampling	Date	: 2/5/03
Method	: DPT	Casing size	: None
Logger	: WKS	Bore size	: 2 inch

Depth in	Samples	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
0		Concrete			Concrete slab	
1		SP		0	Gray SAND, fine grained, moist (Fill)	Cleared hole to 2.0 feet
2						
3		SP			Dark brown SAND, fine grained, glass pieces, moist (Fill)	
4						
5		SW/SM		0	Yellowish brown mottled with gray silty SAND-SAND, trace of clay, very fine- to fine-grained, red iron oxide stains, very moist to wet (Merritt Sands)	
6						
7				0		
8						
9						
10						

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BASELINE

LOG OF BORING: B-FP7

5900 Hollis Street, Suite D
Emeryville, California 94608
(510) 420-8686 voice
(510) 420-1707 fax

Location	: 781-785 Brush Street	Boring no.	: B-FP7
	: Oakland	Project no.	: Y0323-01
Driller	: Precision Sampling	Date	: 2/5/03
Method	: DPT	Casing size	: None
Logger	: WKS	Bore size	: 2 inch

Depth in	Samples	USCS	Graphic	PID (ppm)	DESCRIPTION	REMARKS
10				0		
11						
12						
13		SW/SM				
14						
15				0		Grouted hole to surface upon completion
16					Total depth = 16.0 feet	
17						
18						
19						
20						

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APPENDIX D

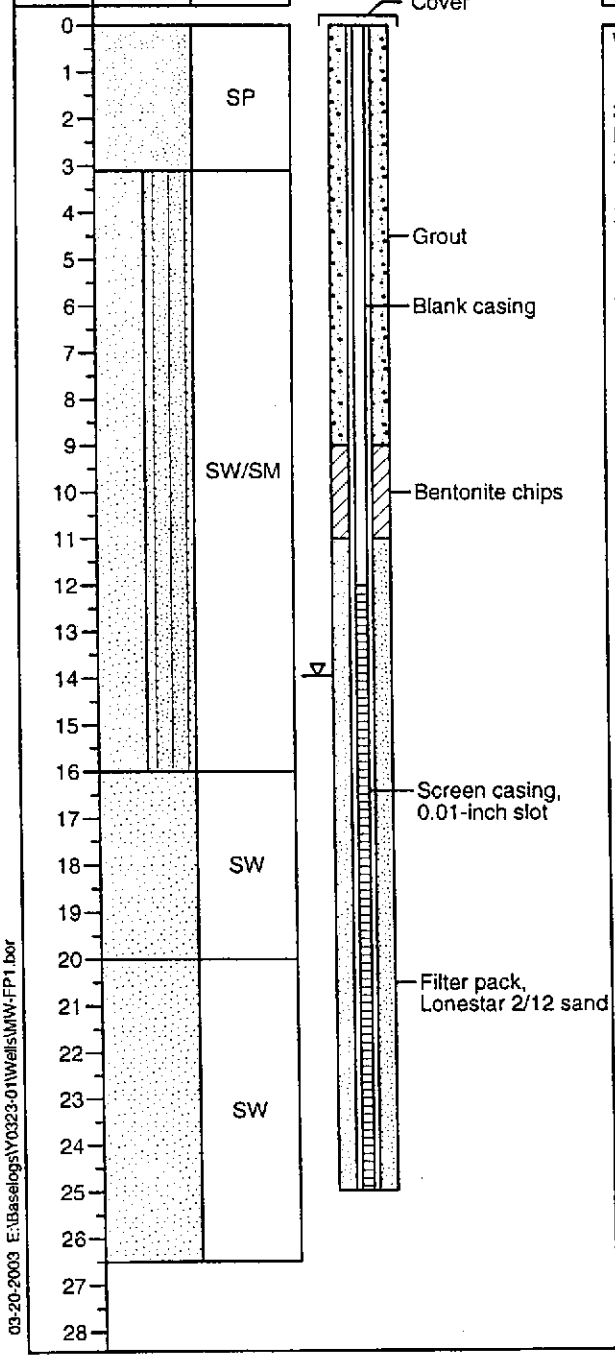
WELL CONSTRUCTION DETAILS

BASELINE

WELL CONSTRUCTION LOG: MW-FP1

5900 Hollis Street, Suite D
Emeryville, California 94608
(510) 420-8686 voice
(510) 420-1707 fax

Location	: 781-785 Brush St., Oakland	Boring no.	: MW-FP1
Driller	: Clear Heart	Project no.	: Y0323-01
Method	: Hollow stem	Date	: 2/10/03
Logger	: WKS	Casing size	: 2 inch
Datum (TOC)	:	Bore size	: 8 3/4 inch



Water Level
- Water level, observed
- Water level, measured

Well Information

Well Construction
10 February 2003

Surface completion: Christy box
Neat cement (feet): 9 to 9
Seal interval (feet): 9 to 11
Filter pack (feet): 11 to 25
Screen interval (feet): 12 to 25
Total depth from TOC (feet): 25.05

Well Development
11 February 2003

Initial depth to water (feet): 13.95 feet
Development Method: Surge block and pump
Product level from TOC: Nonte
Total gallons removed: 10

9:30 - 1 gal, very turbid
9:40 - 2.5 gal, very slightly turbid
Surge blocked well
9:50 - 4 gal, slightly turbid
10:00 - 6 gal, clear
10:20 - 10 gal, clear

Notes

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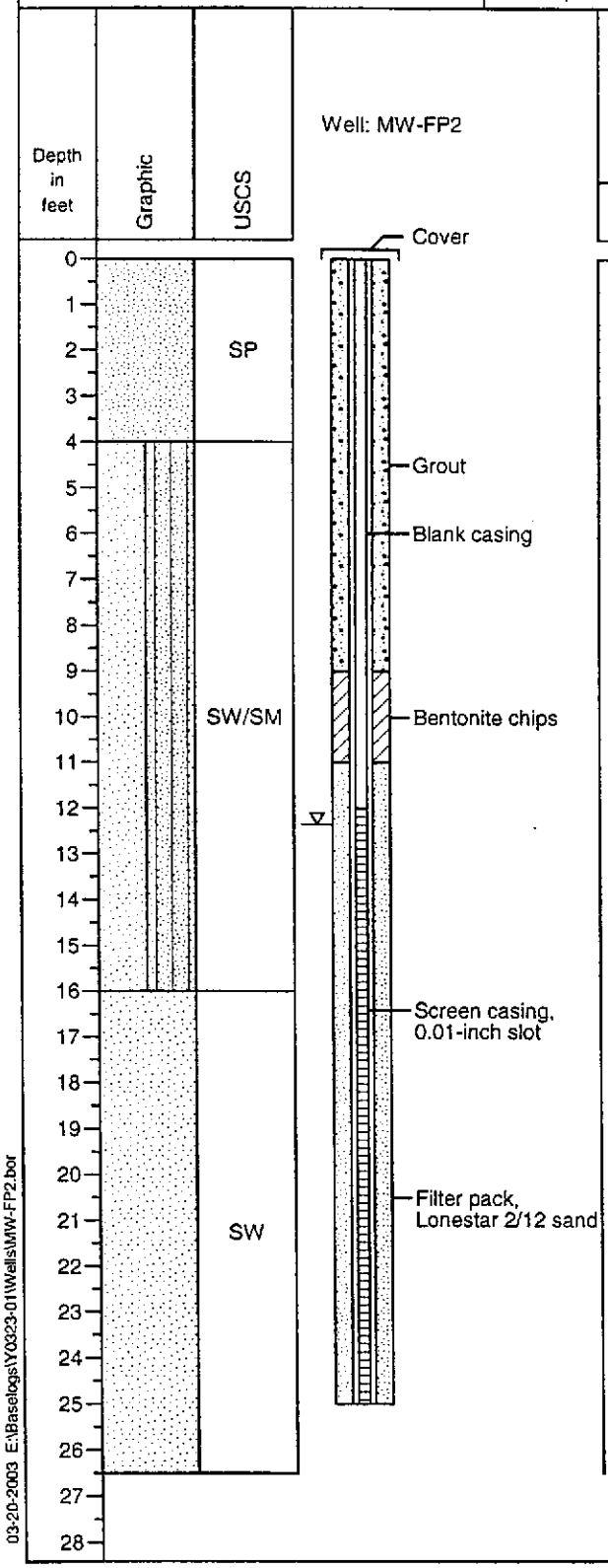
BASELINE

WELL CONSTRUCTION LOG: MW-FP2

5900 Hollis Street, Suite D
Emeryville, California 94608
(510) 420-8686 voice
(510) 420-1707 fax

Location	: 781-785 Brush St., Oakland	Boring no.	: MW-FP2
Driller	: Clear Heart	Project no.	: Y0323-01
Method	: Hollow stem	Date	: 2/10/03
Logger	: WKS	Casing size	: 2 inch
Datum (TOC)	:	Bore size	: 8 3/4 inch



Well Construction
10 February 2003

Surface completion: Christy box
Neat cement (feet): 0 to 9
Seal interval (feet): 9 to 11
Filter pack (feet): 11 to 25
Screen interval (feet): 12 to 25
Total depth from TOC (feet): 25.03

Well Development
11 February 2003

Initial depth to water (feet): 12.35 feet
Development method: Surge block and pump
Product level from TOC: None
Total gallons removed: 10

9:30 - 1 gal, very turbid
9:40 - 2.5 gal, very slightly turbid
Surge blocked well
9:50 - 4 gal, slightly turbid
10:00 - 6 gal, clear
10:20 - 10 gal, clear

03-20-2003 E:\Baselogs\Y0323-01\Wells\MW-FP2.bor

APPENDIX E

GROUNDWATER SAMPLING FORMS

GROUNDWATER SAMPLING

Project no.:	Y0323-01	Well no.:	MW-FP1	Date:	2/12/03
Project name:	Brush Street	Depth of well from TOC (feet):	25.05 (measured)		
Location:	781-785 Brush Street	Well diameter (inch):	2		
	Oakland, CA	Screened interval from TOC (feet):	12-25		
Recorded by:	WKS	TOC elevation (feet):	NA		
Weather:	Cloudy	Water level from TOC (feet):	13.91	Time:	9:00
Precip in past 5 days (inch):	Rain	Product level from TOC (feet):	None	Time:	9:00
		Water level measurement device:	Dual interface probe (Solinst)		

CALCULATION OF WELL VOLUME:

[(25.05 ft) -	(13.91 ft)] x	(0.083 ft)^2 x	3.14 x 7.48 =	1.8	gallons in one well volume
well depth	water level	well radius		8.5	total gallons removed

CALIBRATION

	Time	Temp (° C)	pH	EC (µmho/cm)	Turbidity (NTU)
Calibration Standard:	--	--	7.00/4.01	1,000	0/100
Before Purging:	7:35	18.5	7.00/4.01	1,000	0/100
After Purging:	10:35	13.1	7.14/4.12	1,100	0/96

FIELD MEASUREMENTS:

Time	Temp (° C)	pH	EC (umho/cm)	Cumulative Gallons Removed	Appearance	NTU
9:40	17.8	7.15	1,265	2.5	Very slightly turbid	26
9:55	18.5	6.88	1,164	4.5	Clear	13
10:10	18.5	6.75	1,098	6.5	Clear	9.2
10:25	18.9	6.71	1,035	8.5	Clear	3.0

Appearance of sample:	Clear	Time:	10:30
Duplicate/blank number:	None	Time:	NA
Purge method:	Peristaltic pump with disposable silicon and poly tubing		
Sampling equipment:	Same as purging	VOC attachment:	Not required
Sample containers:	3-liter amber glass, 6 40-ml VOAs, 1-liter poly, 1-500ml poly		
Sample analyses:	VOCs, PAHs, TPHg, TPHd, metals, cyanide, Cr+6	Laboratory:	Curtis & Tompkins
Decontamination method:	Alconox and water, DI water rinse	Rinsate disposal:	Drum on-site

GROUNDWATER SAMPLING

Project no.:	Y0323-01	Well no.:	MW-FP2	Date:	2/12/03
Project name:	Brush Street	Depth of well from TOC (feet):	25.03 (measured)		
Location:	781-785 Brush Street	Well diameter (inch):	2		
	Oakland, CA	Screened interval from TOC (feet):	12-25		
Recorded by:	WKS	TOC elevation (feet):	NA		
Weather:	Cloudy	Water level from TOC (feet):	12.30	Time:	7:30
Precip in past 5 days (inch):	Rain	Product level from TOC (feet):	None	Time:	7:30
		Water level measurement device:	Dual interface probe (Solinst)		

CALCULATION OF WELL VOLUME:

[(25.03 ft) -	(12.30 ft)] x	$(0.083\ ft)^2$ x	3.14 x 7.48 =	2.1	gallons in one well volume
well depth	water level	well radius		9.0	total gallons removed

CALIBRATION

	Time	Temp (° C)	pH	EC (µmho/cm)	Turbidity (NTU)
Calibration Standard:	--	--	7.00/4.01	1,000	0/100
Before Purging:	7:35	18.5	7.00/4.01	1,000	0/100
After Purging:	10:35	13.1	7.14/4.12	1,100	0/96

FIELD MEASUREMENTS:

Time	Temp (° C)	pH	EC (µmho/cm)	Cumulative Gallons Removed	Appearance	NTU
7:45	19.2	6.83	1,376	1.0	Very slightly turbid	69
7:56	19.4	6.75	1,340	3.0	Very slightly turbid - clear	20
8:04	19.4	6.71	1,301	5.0	Clear	9.1
8:13	19.3	6.67	1,258	7.0	Clear	4.7
8:22	19.3	6.59	1,241	9.0	Clear	4.2

Appearance of sample:	Clear	Time:	8:30
Duplicate/blank number:	None	Time:	NA
Purge method:	Peristaltic pump with disposable silicon and poly tubing		
Sampling equipment:	Same as purging	VOC attachment:	Not required
Sample containers:	3-liter amber glass, 6 40-ml VOAs, 1-liter poly, 1-500ml poly		
Sample analyses:	VOCs, PAHs, TPHg, TPHd, metals, cyanide, Cr+6	Laboratory:	Curtis & Tompkins
Decontamination method:	Alconox and water, DI water rinse	Rinsate disposal:	Drum on-site

APPENDIX F

LABORATORY REPORTS

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

ANALYTICAL REPORT

Prepared for:

Baseline Environmental
5900 Hollis Street
Suite D
Emeryville, CA 94608

Date: 20-FEB-03
Lab Job Number: 163466
Project ID: Y0323-01
Location: 751-785 Brush St.

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Reviewed by: _____
Project Manager

Reviewed by: _____
Operations Manager

Curtis & Tompkins, Ltd.

Laboratory Number: **163466**
Client: **Baseline**
Project Name: **751-785 Brush St.**

Order Date: **02/04/03**

CASE NARRATIVE

This hardcopy data package contains sample results and batch QC results for nineteen soil samples received from the above referenced project. The samples were received cold and intact.

Total Volatile Hydrocarbons: No analytical problems were encountered.

Total Extractable Hydrocarbons: No analytical problems were encountered.

Volatile Organic Compounds: No analytical problems were encountered.

General Chemistry: No analytical problems were encountered.

Metals, PCBs, PAHs: Calscience Environmental Laboratories, Inc. in Garden Grove, California performed the analysis. Please see the CS case narrative.

[redacted] 16446 [redacted]

CHAIN OF CUSTODY RECORD

BASELINE
5900 Hollis Street, Suite D
Emeryville, CA 94608
Tel: (510) 420-8686 Fax: (510) 420-1707

BASELINE Contact Person _____

Project Number	Project Name and Location:
Y0323-01	751 - 785 Brush St.

Samplers: (Signature) [signature]

Sample ID No. Station	Date:	Time:	Media	Containers: No.	Type: SS	40-ml VOA	L-AG	250 ml Poly	L-Poly	Encore	Preservative: None (Ice)	HCl	NO_3	SO_4	TPH-gas gasoline	TPH-as diesel (with Silica Gel cleanup)	VOC	PAH (8310)	PCB	Ti, Hg, 22 metals *	Cyanide	Cr +6	Remarks/ Composite
-1 B-FP3; 1.5	2/4/03	8:10	S	4						X	X				X		X						
-2 B-FP3; 1.5-2.0		8:10	S	1	X						X					X		X	X	X	X	X	~~Hold~~ WKS
-3 B-FP3; 5.0		8:30	S	4						X	X				X		X						
-4 B-FP3; 5.0-5.5		8:30	S	1	X						X					X		X	X	X	X	X	~~Hold~~ WKS
-5 B-FP3; 10-10.5		8:40	S	1	X						X												Hold
-6 B-FP3; 15-15.5		8:50	S	1	X						X												Hold
-7 B-FP3; 20-20.5		9:40	S	1	X						X												Logged in on HOLD 2-4-03
-8 B-FP4; 2.0-2.5		10:35	S	1	X						X												
-9 B-FP4; 2.5-		10:35	S	5						X	X				X		X						
-10 B-FP4; 5-5.5		10:40	S	1	X						X				X	X	X	X	X	X	X	X	~~Hold~~ WKS
-11 B-FP4; 10-10.5		10:55	S	1	X						X												Hold
-12 B-FP4; 15-15.5		11:10	S	1	X						X												Hold
-13 B-FP4; 19.5-20	↓	11:40	S	1	X						X												Hold

Relinquished by: (Signature)	Custody Seal (Yes / No)	Date/Time	Received by: (Signature)	Custody Seal intact (Yes / No / NA)	Date/Time	Conditions of Samples Upon Arrival at Laboratory:
[signature]	(Yes) No	2-4-03 / 15:30				Intact + cold
Relinquished by: (Signature)	Custody Seal (Yes / No)	Date/Time	Received by: (Signature)	Custody Seal intact (Yes / No / NA)	Date/Time	Remarks: Please FAx chain of custody To Rhodora @ 420 1707
Relinquished by: (Signature)	Custody Seal (Yes / No)	Date/Time	Received by: (Signature)	Custody Seal intact (Yes / No / NA)	Date/Time	* IF Total Metal > 10 x STLC run Soluable Metal
Received at laboratory with intact custody seal: (Signature) [signature]		Date/Time 24-03 / 1645	Comments:			

D:\Graphic\Chain of Custody Record\Master.cdr 5/02

163466

BASELINE
5900 Hollis Street, Suite D
Emeryville, CA 94608
Tel: (510) 420-8686 Fax: (510) 420-1707

CHAIN OF CUSTODY RECORD

Turn-around Time: 5 Day
Lab: Curtis & Tompkins
BASELINE Contact Person: Rhodora Peliowio

Project Number	Project Name and Location:
Y0 323-01	751-785 Brust St

Samplers: (Signature)

	Sample ID No. Station	Date:	Time:	Media	Containers: No.	Type: SS	40-ml VOA	L-AG	250 ml Poly	L-Poly	Encore	Preservative: None (Ice)	HCl	NO_3	SO_4	Tot Pet Gasoline	Tot Pet as diesel	VOC	PAHs (8270)	PCB	Ti, Mo, 22 metals +	Cyanide	Cr +6	Remarks/ Composite
-11	B-FP5; 2-2.5	2/4/03	13:00	S	1	X						X					X		X	X	X	X	X	
-15	B-FP5; 2.5	2/4/03	13:00	S	5						X	X				X		X						
-16	B-FP5; 5-5.5		13:10	S	1	X						X					X		X	X	X	X	X	
-17	B-FP5; 5.5		13:10	S	5						X	X				X		X						Hold
-18	B-FP5; 10-10.5		13:30	S	1	X						X												Hold
-19	B-FP5; 15-15.5		13:40	S	1	X						X												

Relinquished by: (Signature)	Custody Seal	Date/Time	Received by: (Signature)	Custody Seal intact	Date/Time	Conditions of Samples Upon Arrival at Laboratory:
	(Yes) No	2-4-03 / 15:30		Yes No NA		Intact & cold
Relinquished by: (Signature)	Custody Seal	Date/Time	Received by: (Signature)	Custody Seal intact	Date/Time	Remarks: Please FAX chain of custody To Rhodora @ 420-1707
	Yes No			Yes No NA		
Relinquished by: (Signature)	Custody Seal	Date/Time	Received by: (Signature)	Custody Seal intact	Date/Time	* IF Total metal is > 10 x STLC Then run Soluable metal
	Yes No			Yes No NA		
Received at laboratory with intact custody seal: (Signature)		Date/Time: 2-4-03 / 1645	Comments:			

DA Graphic/Chain of Custody Record/Master.cdr 5/02

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 10-May-99
Revision: 1 Number 3 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 163466 Date Received: 2-4-03 Number of Coolers: 1
Client: Baseline Project: Y0323-01

A. Preliminary Examination Phase
Date Opened: 2-4-03 By (print): Troy Windsor (sign) Troy E Windsor

1. Did cooler come with a shipping slip (airbill, etc.)? .... YES (NO)
If YES, enter carrier name and airbill number: ________
2. Were custody seals on outside of cooler? .... (YES) ~~NO~~ TEW
How many and where? 1 Front over cooler lip Seal date: 2-4-03 Seal name: See Back
3. Were custody seals unbroken and intact at the date and time of arrival? .... (YES) NO
4. Were custody papers dry and intact when received? .... (YES) NO
5. Were custody papers filled out properly (ink, signed, etc.)? .... (YES) NO
6. Did you sign the custody papers in the appropriate place? .... (YES) NO
7. Was project identifiable from custody papers? .... (YES) NO
If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. .... (YES) NO
Type of ice: Wet Temperature: 4.0

B. Login Phase
Date Logged In: 2-4-03 By (print): Troy Windsor (sign) Troy E Windsor

1. Describe type of packing in cooler: In ziploc bags
2. Did all bottles arrive unbroken? .... (YES) NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? .... (YES) NO
4. Did bottle labels agree with custody papers? .... (YES) NO
5. Were appropriate containers used for the tests indicated? .... (YES) NO
6. Were correct preservatives added to samples? .... YES NO N/A
7. Was sufficient amount of sample sent for tests indicated? .... ? YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below .... YES NO N/A
9. Was the client contacted concerning this sample delivery? .... YES NO
If YES, give details below.
Who was called? ________ By whom? ________ Date: ________

Additional Comments:

Quality Control Checklist
for Review of Laboratory Report

Job No.: Y0323-01 **Site:** 751-785 Brush St.

Laboratory: Curtis & Tompkins **Laboratory Report No:** 163466

Report Date: 2/20/03 **BASELINE Review By:** Emm

	Yes	No	NA
GENERAL QUESTIONS **(Describe "no" responses below in "comments" section. Contact the laboratory, as required, for further explanation or action on "no" responses; document discussion in comments section.)**			
1a. Does the report include a case narrative? *(A case narrative MUST be prepared by the lab for all analytical work requested by BASELINE)*	✓		
1b. Is the number of pages for the lab report as indicated on the case narrative/lab transmittal consistent with the number of pages that are included in report?	✓		
1c. Does the case narrative indicate which samples were analyzed by a subcontractor and the subcontractor's name?	✓		
1d. Does the case narrative summarize subsequent requests not shown on the chain-of-custody (e.g., additional analyses requested, release of "hold" samples)?			
1e. Does the case narrative explain why requested analyses could not be performed by laboratory (e.g., insufficient sample)?			
1f. Does the case narrative explain all problems with the QA/QC data as identified in the checklist (as applicable) ?	✓		
2a. Is the laboratory report format consistent and legible throughout the report?	✓		
2b. Are the sample and reported dates shown in the laboratory report correct?	✓		
3a. Does the lab report include the original chain-of-custody form?	✓		
3b. Were all samples appropriately analyzed as requested on the chain-of-custody form?		✓	
4. Was the lab report signed and dated as being reviewed by the laboratory director, QA manager, or other appropriate personnel? (Some lab reports have signature spaces for each page). (This requirement also applies to any analyses subcontracted out by the laboratory)	✓		
5a. Are preparation methods, cleanup methods (if applicable), and laboratory methods indicated for all analyses?	✓		
5b. If additional analytes were requested as part of the reporting of the data for an analytical method, were these included in the lab report?			
6. Are the units in the lab report provided for each analysis consistent throughout the report?	✓		
7. Are the detection limits (DL) appropriate based on the intended use of the data? (e.g., DL below applicable MCLs for water quality issues?)			
8a. Are detection limits appropriate based on the analysis performed? (i.e., not elevated due to dilution effects)			
8b. If no, is an explanation provided by the laboratory?			

	Yes	No	NA
9a. Were the samples analyzed within the appropriate holding time? (generally 2 weeks for volatiles, and up to 6 months for total metals)			
9b. If no, was it flagged in the report?			
10. If samples were composited prior to analysis, does the lab report indicate which samples were composited for each analysis?			
11a. Do the chromatograms confirm quantitative laboratory results? (petroleum hydrocarbons)			
11b. Is a standard chromatogram(s) included in the laboratory report?			
11c. Do the chromatograms confirm laboratory notes, if present (e.g., sample exhibits lighter hydrocarbon than standard)			
12. Are the results consistent with previous analytical results from the site? *(If no, contact the lab and request review/reanalysis of data, as appropriate)*			
13a. REVISED LAB REPORTS ONLY. Is the revised lab report or revised pages to a lab report signed and dated as being reviewed by the laboratory director, QA manager, or other appropriate personnel?			
13b. REVISED LAB REPORTS ONLY. Does the case narrative indicate the date of revision and provide an explanation for the revision?			
13c. REVISED LAB REPORTS ONLY. Does the revised lab report adequately address the problem(s) which triggered the need for a revision?			
13d. REVISED LAB REPORTS ONLY. Are the data included in the revised report the same as data reported in the original report, except where the report was revised to correct incorrectly reported data?			
QA/QC Questions Field/Laboratory Quality Control - Groundwater Analyses			
14. Are field blanks reported as "ND"? (groundwater samples) *A field blank is a sample of DI water which is prepared in the field using the same collection and handling procedures as the other samples collected, and used to demonstrate that the sampling procedure has not contaminated the sample.*			
15. Are trip blanks reported as "ND"? (groundwater samples/volatile analyses) *A trip blank is a sample of contaminant-free matrix placed in an appropriate container by the lab and transported with the field samples collected. Provides information regarding positive interference introduced during sample transport, storage, preservation, and analysis. The sample is NOT opened in the field.*			
16. Are duplicate sample results consistent with the original sample? (groundwater samples) *Field duplicates consist of two independent samples collected at the same sampling location during a single sampling event. Used to evaluate precision of the analytical data and sampling technique. (Differences between the duplicate and sample results may also be attributed to environmental variability).*			

	Yes	No	NA
Batch Quality Control (Samples are batched together by matrix [soil, water] and analyses requested. A batch generally consists of 20 or fewer samples of the same matrix type, and is prepared using the same reagents, standards, procedures, and time frame as the samples. QC samples are run with each batch to assess performance of the entire measurement process.)			
17. Do the sample batch numbers and corresponding laboratory QA/QC batch numbers match?	✓		
18a. Are method blanks (MB) for the analytical method(s) below the laboratory reporting limits? *Used to assess lab contamination and prevent false positive results. MBs should be "ND."*	✓		
18b. If no, is an explanation provided in the case narrative to validate the data?			
18c. Are analytes which may be considered laboratory contaminants reported below the laboratory reporting limit? *Common lab contaminants include acetone, methylene chloride, diethylhexyl phthalate, and di-n-octyl phthalate.*			
18d. If no, was the laboratory contacted to determine whether reported analyte could be a potential laboratory contaminant and was an explanation included in the case narrative?			
19. Are laboratory control samples (LCS) and LCS duplicate (LCSD) [a.k.a., Blank Spike (BS) and BS duplicates (BSD)] within laboratory reporting limits? Limits should be provided on the report. *LCS is a reagent blank spike with a representative selection of target analyte(s) and prepared in the same manner as the samples analyzed. The LCS should be spiked with the same analytes as the matrix spike (below). The LCS is free from interferences from the sample matrix and demonstrates the ability of the lab instruments to recover the target analytes. Accuracy (recovery information) is generally reported as % spike recovery; precision (reproducibility of results) between the LCS and LCSD is generally reported as the relative percent difference (RPD). LCS/LCSD can be run in addition to or in lieu of, matrix QC data.*	✓		
20a. Are the Matrix QC data (i.e., MS/MSD) within laboratory limits? Limits should be provided on the lab report. *The lab selects a sample from the batch and analyzes a spike and a spike duplicate of that sample. Matrix QC data is used to obtain precision and accuracy information and is reported in the same manner as LCS/LCSD. If the MS/MSD fails, the results may still be considered valid if the MB and either the LCS/LCSD or BS/BSD is within the lab's limits (failure is probably due to matrix interference).*			
20b. If no, is the MB and either LCS/LCSD or BS/BSD within lab limits to validate the data?	✓		

	Yes	No	NA
Sample Quality Control			
21a. Are the surrogate spikes reported within the lab's acceptable recovery limits? *A surrogate is a non-target analyte, which is similar in chemical structure to the analyte(s) being analyzed for, and which is not commonly found in environmental samples. A known concentration of the surrogate is spike into the sample or QA "sample" prior to extraction or sample preparation. Results are usually reported as % recovery of the spike. Failure to meet lab's limits for primary and secondary surrogates results in rebatching and reanalysis of the sample; failure of only the primary or the secondary surrogate may be acceptable under certain circumstances. Failure generally is due to coelution with the sample matrix.*	✓		
21b. If no, is an explanation given in the case narrative to validate the data?			

Comments: 2.0 - 2.5 analyses performed not requested on COC
3b – Sample, B-FP4A – ~~analysis~~ not requested on COC
okd by Projectmanager

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	163466	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-01	Analysis:	8015B
Field ID:	B-FP4;5-5.5	Batch#:	78963
Matrix:	Soil	Sampled:	02/04/03
Units:	mg/Kg	Received:	02/04/03
Basis:	as received	Analyzed:	02/05/03
Diln Fac:	1.000		

Type: SAMPLE Lab ID: 163466-010

Analyte	Result	RL
Gasoline C7-C12	ND	1.1

Surrogate	%REC	Limits
Trifluorotoluene (FID)	101	58-144
Bromofluorobenzene (FID)	111	60-146

Type: BLANK Lab ID: QC203851

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	58-144
Bromofluorobenzene (FID)	98	60-146

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	163466	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-01	Analysis:	8015B
Type:	LCS	Basis:	as received
Lab ID:	QC203852	Diln Fac:	1.000
Matrix:	Soil	Batch#:	78963
Units:	mg/Kg	Analyzed:	02/05/03

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	5.000	5.520	110	78-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	115	58-144
Bromofluorobenzene (FID)	108	60-146

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	163466	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-01	Analysis:	8015B
Field ID:	B-FP4;5-5.5	Diln Fac:	1.000
MSS Lab ID:	163466-010	Batch#:	78963
Matrix:	Soil	Sampled:	02/04/03
Units:	mg/Kg	Received:	02/04/03
Basis:	as received	Analyzed:	02/05/03

Type: MS Lab ID: QC203886

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.1089	10.64	10.93	102	44-133

Surrogate	%REC	Limits
Trifluorotoluene (FID)	122	58-144
Bromofluorobenzene (FID)	110	60-146

Type: MSD Lab ID: QC203887

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.42	10.78	102	44-133	1	31

Surrogate	%REC	Limits
Trifluorotoluene (FID)	123	58-144
Bromofluorobenzene (FID)	112	60-146

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Gasoline by GC/FID (5035 Prep)

Lab #:	163466	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	8015B
Matrix:	Soil	Batch#:	78963
Units:	mg/Kg	Sampled:	02/04/03
Basis:	as received	Received:	02/04/03
Diln Fac:	1.000	Analyzed:	02/05/03

Field ID: B-FP3;1.5 Lab ID: 163466-001
Type: SAMPLE

Analyte	Result	RL
Gasoline C7-C12	ND	0.19

Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	58-144
Bromofluorobenzene (FID)	95	60-146

Field ID: B-FP3;5.0 Lab ID: 163466-003
Type: SAMPLE

Analyte	Result	RL
Gasoline C7-C12	ND	0.17

Surrogate	%REC	Limits
Trifluorotoluene (FID)	103	58-144
Bromofluorobenzene (FID)	106	60-146

Field ID: B-FP4;2.5 Lab ID: 163466-009
Type: SAMPLE

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	103	58-144
Bromofluorobenzene (FID)	108	60-146

ND= Not Detected
RL= Reporting Limit

000013

1.0

Curtis & Tompkins, Ltd.

Gasoline by GC/FID (5035 Prep)

Lab #:	163466	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	8015B
Matrix:	Soil	Batch#:	78963
Units:	mg/Kg	Sampled:	02/04/03
Basis:	as received	Received:	02/04/03
Diln Fac:	1.000	Analyzed:	02/05/03

Field ID: B-FP5;2.5 Lab ID: 163466-015
Type: SAMPLE

Analyte	Result	RL
Gasoline C7-C12	ND	0.17

Surrogate	%REC	Limits
Trifluorotoluene (FID)	99	58-144
Bromofluorobenzene (FID)	74	60-146

Field ID: B-FP5;5.5 Lab ID: 163466-017
Type: SAMPLE

Analyte	Result	RL
Gasoline C7-C12	ND	0.18

Surrogate	%REC	Limits
Trifluorotoluene (FID)	103	58-144
Bromofluorobenzene (FID)	105	60-146

Type: BLANK Lab ID: QC203851

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	58-144
Bromofluorobenzene (FID)	98	60-146

ND= Not Detected
RL= Reporting Limit

000014

Curtis & Tompkins, Ltd.

Gasoline by GC/FID (5035 Prep)

Lab #:	163466	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	8015B
Type:	LCS	Basis:	as received
Lab ID:	QC203852	Diln Fac:	1.000
Matrix:	Soil	Batch#:	78963
Units:	mg/Kg	Analyzed:	02/05/03

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	5.000	5.520	110	78-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	115	58-144
Bromofluorobenzene (FID)	108	60-146

000015

Curtis & Tompkins, Ltd.

Gasoline by GC/FID (5035 Prep)

Lab #:	163466	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	8015B
Field ID:	B-FP4;5-5.5	Diln Fac:	1.000
MSS Lab ID:	163466-010	Batch#:	78963
Matrix:	Soil	Sampled:	02/04/03
Units:	mg/Kg	Received:	02/04/03
Basis:	as received	Analyzed:	02/05/03

Type: MS Lab ID: QC203886

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.1089	10.64	10.93	102	44-133

Surrogate	%REC	Limits
Trifluorotoluene (FID)	122	58-144
Bromofluorobenzene (FID)	110	60-146

Type: MSD Lab ID: QC203887

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.42	10.78	102	44-133	1	31

Surrogate	%REC	Limits
Trifluorotoluene (FID)	123	58-144
Bromofluorobenzene (FID)	112	60-146

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	163466	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	SHAKER TABLE
Project#:	Y0323-01	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	79026
Units:	mg/Kg	Sampled:	02/04/03
Basis:	as received	Received:	02/04/03
Diln Fac:	1.000	Prepared:	02/07/03

Field ID: B-FP3;1.5-2.0
Type: SAMPLE
Lab ID: 163466-002
Analyzed: 02/10/03
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	1.0

Surrogate	%REC	Limits
Hexacosane	83	48-137

Field ID: B-FP3;5.0-5.5
Type: SAMPLE
Lab ID: 163466-004
Analyzed: 02/10/03
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	1.0

Surrogate	%REC	Limits
Hexacosane	57	48-137

Field ID: B-FP4;2.0-2.5
Type: SAMPLE
Lab ID: 163466-008
Analyzed: 02/10/03
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	1.0

Surrogate	%REC	Limits
Hexacosane	63	48-137

Field ID: B-FP4;5-5.5
Type: SAMPLE
Lab ID: 163466-010
Analyzed: 02/10/03
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	1.0

Surrogate	%REC	Limits
Hexacosane	61	48-137

H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits fuel pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	163466	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	SHAKER TABLE
Project#:	Y0323-01	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	79026
Units:	mg/Kg	Sampled:	02/04/03
Basis:	as received	Received:	02/04/03
Diln Fac:	1.000	Prepared:	02/07/03

Field ID: B-FP5;2-2.5 Analyzed: 02/11/03
Type: SAMPLE Cleanup Method: EPA 3630C
Lab ID: 163466-014

Analyte	Result	RL
Diesel C10-C24	3.4 H Y	1.0

Surrogate	%REC	Limits
Hexacosane	67	48-137

Field ID: B-FP5;5-5.5 Lab ID: 163466-016
Type: SAMPLE Analyzed: 02/11/03

Analyte	Result	RL
Diesel C10-C24	ND	1.0

Surrogate	%REC	Limits
Hexacosane	71	48-137

Type: BLANK Analyzed: 02/09/03
Lab ID: QC204088 Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	1.0

Surrogate	%REC	Limits
Hexacosane	81	48-137

H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits fuel pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

23.1

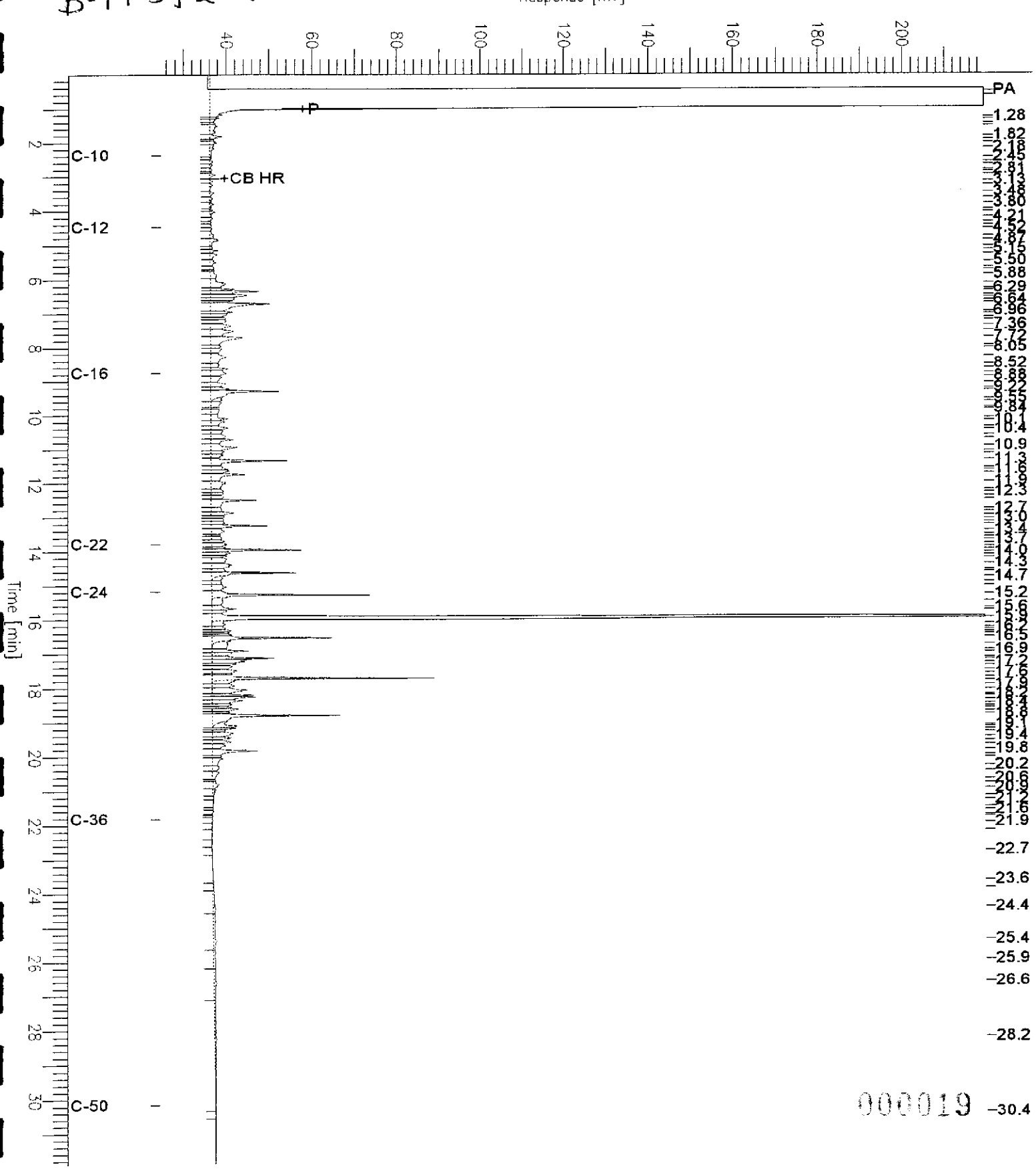
000013

Chromatogram

Sample Name : 163466-014sg,79026
FileName : G:\GC17\CHA\042A009.RAW
Method : ATEH042.MTH
Start Time : 0.01 min End Time : 31.91 min
Scale Factor: 0.0 Plot Offset: 25 mV

Sample #: 79026 Page 1 of 1
Date : 2/12/03 09:03 AM
Time of Injection: 2/11/03 11:36 PM
Low Point : 24.76 mV High Point : 219.35 mV
Plot Scale: 194.6 mV

B-FP5;2-2.5



000019

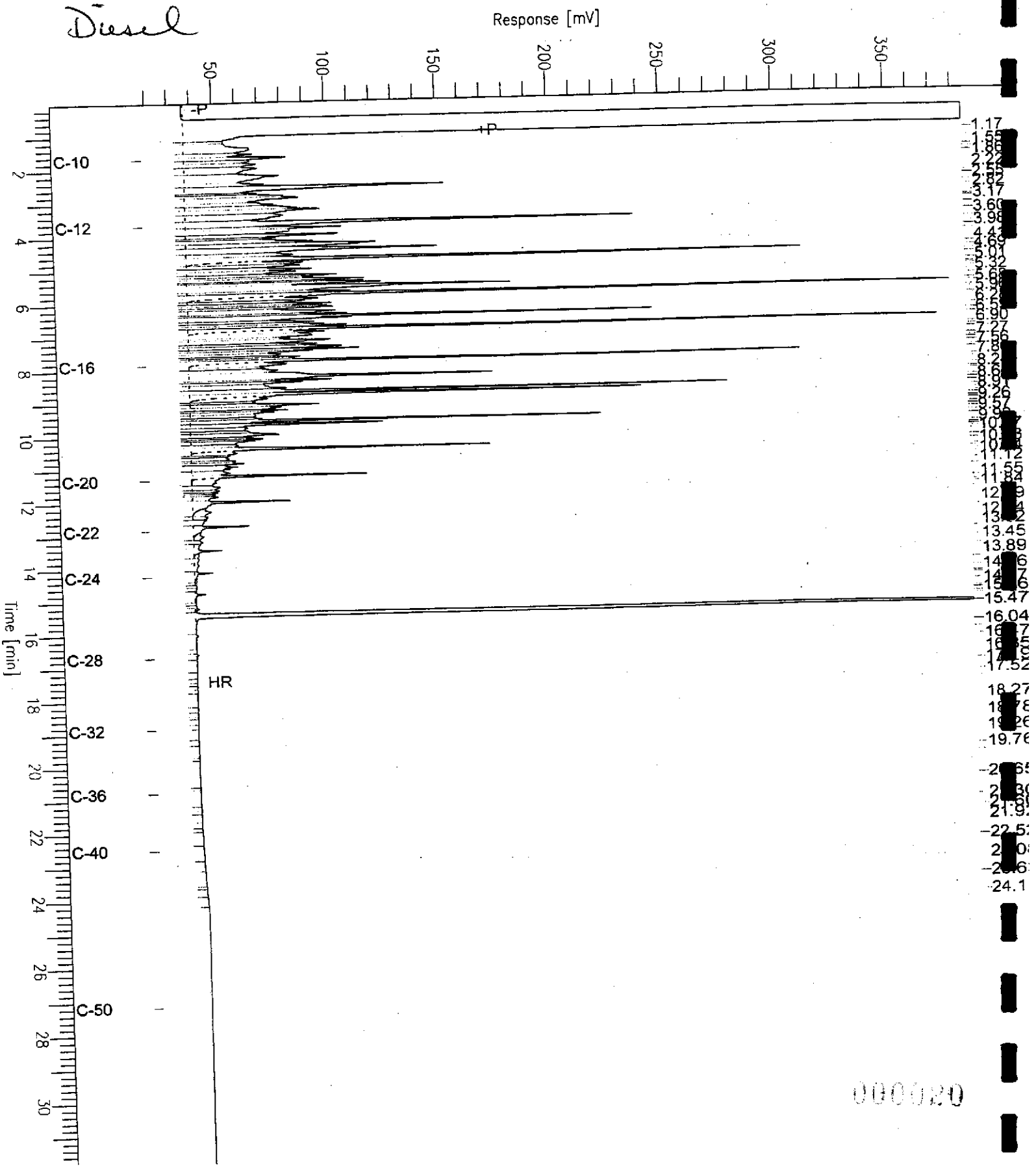
Chromatogram

mple Name : ccv,02ws2069,ds1
leName : G:\GC13\CHB\040B002.RAW
thod : BTEH036.MTH
art Time : 0.01 min
ale Factor: 0.0

End Time : 31.91 min
Plot Offset: 18 mV

Sample #: 500mg/L
Date : 2/9/03 05:48 PM
Time of Injection: 2/9/03 03:22 PM
Low Point : 18.44 mV
High Point : 384.81 mV
Plot Scale: 366.4 mV

Diesel



000020

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	163466	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	SHAKER TABLE
Project#:	Y0323-01	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC204089	Batch#:	79026
Matrix:	Soil	Prepared:	02/07/03
Units:	mg/Kg	Analyzed:	02/10/03
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	50.00	36.42	73	56-121

Surrogate	%REC	Limits
Hexacosane	71	48-137

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163466	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	EPA 8260B
Field ID:	B-FP3;1.5	Diln Fac:	0.9434
Lab ID:	163466-001	Batch#:	78961
Matrix:	Soil	Sampled:	02/04/03
Units:	ug/Kg	Received:	02/04/03
Basis:	as received	Analyzed:	02/05/03

Analyte	Result	RL
Freon 12	ND	9.4
Chloromethane	ND	9.4
Vinyl Chloride	ND	9.4
Bromomethane	ND	9.4
Chloroethane	ND	9.4
Trichlorofluoromethane	ND	4.7
Acetone	ND	19
Freon 113	ND	4.7
1,1-Dichloroethene	ND	4.7
Methylene Chloride	ND	19
Carbon Disulfide	ND	4.7
MTBE	ND	4.7
trans-1,2-Dichloroethene	ND	4.7
Vinyl Acetate	ND	47
1,1-Dichloroethane	ND	4.7
2-Butanone	ND	9.4
cis-1,2-Dichloroethene	ND	4.7
2,2-Dichloropropane	ND	4.7
Chloroform	ND	4.7
Bromochloromethane	ND	4.7
1,1,1-Trichloroethane	ND	4.7
1,1-Dichloropropene	ND	4.7
Carbon Tetrachloride	ND	4.7
1,2-Dichloroethane	ND	4.7
Benzene	ND	4.7
Trichloroethene	24	4.7
1,2-Dichloropropane	ND	4.7
Bromodichloromethane	ND	4.7
Dibromomethane	ND	4.7
4-Methyl-2-Pentanone	ND	9.4
cis-1,3-Dichloropropene	ND	4.7
Toluene	ND	4.7
trans-1,3-Dichloropropene	ND	4.7
1,1,2-Trichloroethane	ND	4.7
2-Hexanone	ND	9.4
1,3-Dichloropropane	ND	4.7
Tetrachloroethene	ND	4.7

ND= Not Detected
RL= Reporting Limit

000022

9.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163466	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	EPA 8260B
Field ID:	B-FP3;1.5	Diln Fac:	0.9434
Lab ID:	163466-001	Batch#:	78961
Matrix:	Soil	Sampled:	02/04/03
Units:	ug/Kg	Received:	02/04/03
Basis:	as received	Analyzed:	02/05/03

Analyte	Result	RL
Dibromochloromethane	ND	4.7
1,2-Dibromoethane	ND	4.7
Chlorobenzene	ND	4.7
1,1,1,2-Tetrachloroethane	ND	4.7
Ethylbenzene	ND	4.7
m,p-Xylenes	ND	4.7
o-Xylene	ND	4.7
Styrene	ND	4.7
Bromoform	ND	4.7
Isopropylbenzene	ND	4.7
1,1,2,2-Tetrachloroethane	ND	4.7
1,2,3-Trichloropropane	ND	4.7
Propylbenzene	ND	4.7
Bromobenzene	ND	4.7
1,3,5-Trimethylbenzene	ND	4.7
2-Chlorotoluene	ND	4.7
4-Chlorotoluene	ND	4.7
tert-Butylbenzene	ND	4.7
1,2,4-Trimethylbenzene	ND	4.7
sec-Butylbenzene	ND	4.7
para-Isopropyl Toluene	ND	4.7
1,3-Dichlorobenzene	ND	4.7
1,4-Dichlorobenzene	ND	4.7
n-Butylbenzene	ND	4.7
1,2-Dichlorobenzene	ND	4.7
1,2-Dibromo-3-Chloropropane	ND	4.7
1,2,4-Trichlorobenzene	ND	4.7
Hexachlorobutadiene	ND	4.7
Naphthalene	ND	4.7
1,2,3-Trichlorobenzene	ND	4.7

Surrogate	%REC	Limits
Dibromofluoromethane	102	74-124
1,2-Dichloroethane-d4	109	75-128
Toluene-d8	99	80-111
Bromofluorobenzene	109	75-127

ND= Not Detected
RL= Reporting Limit

000023

9.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163466	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	EPA 8260B
Field ID:	B-FP3;5.0	Diln Fac:	0.9434
Lab ID:	163466-003	Batch#:	78961
Matrix:	Soil	Sampled:	02/04/03
Units:	ug/Kg	Received:	02/04/03
Basis:	as received	Analyzed:	02/05/03

Analyte	Result	RL
Freon 12	ND	9.4
Chloromethane	ND	9.4
Vinyl Chloride	ND	9.4
Bromomethane	ND	9.4
Chloroethane	ND	9.4
Trichlorofluoromethane	ND	4.7
Acetone	ND	19
Freon 113	ND	4.7
1,1-Dichloroethene	ND	4.7
Methylene Chloride	ND	19
Carbon Disulfide	ND	4.7
MTBE	ND	4.7
trans-1,2-Dichloroethene	ND	4.7
Vinyl Acetate	ND	47
1,1-Dichloroethane	ND	4.7
2-Butanone	ND	9.4
cis-1,2-Dichloroethene	ND	4.7
2,2-Dichloropropane	ND	4.7
Chloroform	ND	4.7
Bromochloromethane	ND	4.7
1,1,1-Trichloroethane	ND	4.7
1,1-Dichloropropene	ND	4.7
Carbon Tetrachloride	ND	4.7
1,2-Dichloroethane	ND	4.7
Benzene	ND	4.7
Trichloroethene	ND	4.7
1,2-Dichloropropane	ND	4.7
Bromodichloromethane	ND	4.7
Dibromomethane	ND	4.7
4-Methyl-2-Pentanone	ND	9.4
cis-1,3-Dichloropropene	ND	4.7
Toluene	ND	4.7
trans-1,3-Dichloropropene	ND	4.7
1,1,2-Trichloroethane	ND	4.7
2-Hexanone	ND	9.4
1,3-Dichloropropane	ND	4.7
Tetrachloroethene	ND	4.7

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163466	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	EPA 8260B
Field ID:	B-FP3;5.0	Diln Fac:	0.9434
Lab ID:	163466-003	Batch#:	78961
Matrix:	Soil	Sampled:	02/04/03
Units:	ug/Kg	Received:	02/04/03
Basis:	as received	Analyzed:	02/05/03

Analyte	Result	RL
Dibromochloromethane	ND	4.7
1,2-Dibromoethane	ND	4.7
Chlorobenzene	ND	4.7
1,1,1,2-Tetrachloroethane	ND	4.7
Ethylbenzene	ND	4.7
m,p-Xylenes	ND	4.7
o-Xylene	ND	4.7
Styrene	ND	4.7
Bromoform	ND	4.7
Isopropylbenzene	ND	4.7
1,1,2,2-Tetrachloroethane	ND	4.7
1,2,3-Trichloropropane	ND	4.7
Propylbenzene	ND	4.7
Bromobenzene	ND	4.7
1,3,5-Trimethylbenzene	ND	4.7
2-Chlorotoluene	ND	4.7
4-Chlorotoluene	ND	4.7
tert-Butylbenzene	ND	4.7
1,2,4-Trimethylbenzene	ND	4.7
sec-Butylbenzene	ND	4.7
para-Isopropyl Toluene	ND	4.7
1,3-Dichlorobenzene	ND	4.7
1,4-Dichlorobenzene	ND	4.7
n-Butylbenzene	ND	4.7
1,2-Dichlorobenzene	ND	4.7
1,2-Dibromo-3-Chloropropane	ND	4.7
1,2,4-Trichlorobenzene	ND	4.7
Hexachlorobutadiene	ND	4.7
Naphthalene	ND	4.7
1,2,3-Trichlorobenzene	ND	4.7

Surrogate	%REC	Limits
Dibromofluoromethane	100	74-124
1,2-Dichloroethane-d4	107	75-128
Toluene-d8	99	80-111
Bromofluorobenzene	107	75-127

ND= Not Detected
RL= Reporting Limit

000025

10.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163466	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	EPA 8260B
Field ID:	B-FP4;2.5	Diln Fac:	1.000
Lab ID:	163466-009	Batch#:	78961
Matrix:	Soil	Sampled:	02/04/03
Units:	ug/Kg	Received:	02/04/03
Basis:	as received	Analyzed:	02/05/03

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected
RL= Reporting Limit

000026

11.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163466	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	EPA 8260B
Field ID:	B-FP4;2.5	Diln Fac:	1.000
Lab ID:	163466-009	Batch#:	78961
Matrix:	Soil	Sampled:	02/04/03
Units:	ug/Kg	Received:	02/04/03
Basis:	as received	Analyzed:	02/05/03

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	105	74-124
1,2-Dichloroethane-d4	111	75-128
Toluene-d8	100	80-111
Bromofluorobenzene	106	75-127

ND= Not Detected
RL= Reporting Limit

000027

11.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163466	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	EPA 8260B
Field ID:	B-FP5;2.5	Diln Fac:	0.8772
Lab ID:	163466-015	Batch#:	78961
Matrix:	Soil	Sampled:	02/04/03
Units:	ug/Kg	Received:	02/04/03
Basis:	as received	Analyzed:	02/05/03

Analyte	Result	RL
Freon 12	ND	8.8
Chloromethane	ND	8.8
Vinyl Chloride	ND	8.8
Bromomethane	ND	8.8
Chloroethane	ND	8.8
Trichlorofluoromethane	ND	4.4
Acetone	ND	18
Freon 113	ND	4.4
1,1-Dichloroethene	ND	4.4
Methylene Chloride	ND	18
Carbon Disulfide	ND	4.4
MTBE	ND	4.4
trans-1,2-Dichloroethene	ND	4.4
Vinyl Acetate	ND	44
1,1-Dichloroethane	ND	4.4
2-Butanone	ND	8.8
cis-1,2-Dichloroethene	ND	4.4
2,2-Dichloropropane	ND	4.4
Chloroform	ND	4.4
Bromochloromethane	ND	4.4
1,1,1-Trichloroethane	5.4	4.4
1,1-Dichloropropene	ND	4.4
Carbon Tetrachloride	ND	4.4
1,2-Dichloroethane	ND	4.4
Benzene	ND	4.4
Trichloroethene	33	4.4
1,2-Dichloropropane	ND	4.4
Bromodichloromethane	ND	4.4
Dibromomethane	ND	4.4
4-Methyl-2-Pentanone	ND	8.8
cis-1,3-Dichloropropene	ND	4.4
Toluene	ND	4.4
trans-1,3-Dichloropropene	ND	4.4
1,1,2-Trichloroethane	ND	4.4
2-Hexanone	ND	8.8
1,3-Dichloropropane	ND	4.4
Tetrachloroethene	ND	4.4

ND= Not Detected
RL= Reporting Limit

12.0

000028

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163466	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	EPA 8260B
Field ID:	B-FP5;2.5	Diln Fac:	0.8772
Lab ID:	163466-015	Batch#:	78961
Matrix:	Soil	Sampled:	02/04/03
Units:	ug/Kg	Received:	02/04/03
Basis:	as received	Analyzed:	02/05/03

Analyte	Result	RL
Dibromochloromethane	ND	4.4
1,2-Dibromoethane	ND	4.4
Chlorobenzene	ND	4.4
1,1,1,2-Tetrachloroethane	ND	4.4
Ethylbenzene	ND	4.4
m,p-Xylenes	ND	4.4
o-Xylene	ND	4.4
Styrene	ND	4.4
Bromoform	ND	4.4
Isopropylbenzene	ND	4.4
1,1,2,2-Tetrachloroethane	ND	4.4
1,2,3-Trichloropropane	ND	4.4
Propylbenzene	ND	4.4
Bromobenzene	ND	4.4
1,3,5-Trimethylbenzene	ND	4.4
2-Chlorotoluene	ND	4.4
4-Chlorotoluene	ND	4.4
tert-Butylbenzene	ND	4.4
1,2,4-Trimethylbenzene	ND	4.4
sec-Butylbenzene	ND	4.4
para-Isopropyl Toluene	ND	4.4
1,3-Dichlorobenzene	ND	4.4
1,4-Dichlorobenzene	ND	4.4
n-Butylbenzene	ND	4.4
1,2-Dichlorobenzene	ND	4.4
1,2-Dibromo-3-Chloropropane	ND	4.4
1,2,4-Trichlorobenzene	ND	4.4
Hexachlorobutadiene	ND	4.4
Naphthalene	ND	4.4
1,2,3-Trichlorobenzene	ND	4.4

Surrogate	%REC	Limits
Dibromofluoromethane	104	74-124
1,2-Dichloroethane-d4	111	75-128
Toluene-d8	100	80-111
Bromofluorobenzene	114	75-127

ND= Not Detected
RL= Reporting Limit

000029

12.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163466	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	EPA 8260B
Field ID:	B-FP5;5.5	Diln Fac:	0.9434
Lab ID:	163466-017	Batch#:	78961
Matrix:	Soil	Sampled:	02/04/03
Units:	ug/Kg	Received:	02/04/03
Basis:	as received	Analyzed:	02/05/03

Analyte	Result	RL
Freon 12	ND	9.4
Chloromethane	ND	9.4
Vinyl Chloride	ND	9.4
Bromomethane	ND	9.4
Chloroethane	ND	9.4
Trichlorofluoromethane	ND	4.7
Acetone	ND	19
Freon 113	ND	4.7
1,1-Dichloroethene	ND	4.7
Methylene Chloride	ND	19
Carbon Disulfide	ND	4.7
MTBE	ND	4.7
trans-1,2-Dichloroethene	ND	4.7
Vinyl Acetate	ND	47
1,1-Dichloroethane	ND	4.7
2-Butanone	ND	9.4
cis-1,2-Dichloroethene	ND	4.7
2,2-Dichloropropane	ND	4.7
Chloroform	ND	4.7
Bromochloromethane	ND	4.7
1,1,1-Trichloroethane	ND	4.7
1,1-Dichloropropene	ND	4.7
Carbon Tetrachloride	ND	4.7
1,2-Dichloroethane	ND	4.7
Benzene	ND	4.7
Trichloroethene	ND	4.7
1,2-Dichloropropane	ND	4.7
Bromodichloromethane	ND	4.7
Dibromomethane	ND	4.7
4-Methyl-2-Pentanone	ND	9.4
cis-1,3-Dichloropropene	ND	4.7
Toluene	ND	4.7
trans-1,3-Dichloropropene	ND	4.7
1,1,2-Trichloroethane	ND	4.7
2-Hexanone	ND	9.4
1,3-Dichloropropane	ND	4.7
Tetrachloroethene	ND	4.7

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163466	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	EPA 8260B
Field ID:	B-FP5;5.5	Diln Fac:	0.9434
Lab ID:	163466-017	Batch#:	78961
Matrix:	Soil	Sampled:	02/04/03
Units:	ug/Kg	Received:	02/04/03
Basis:	as received	Analyzed:	02/05/03

Analyte	Result	RL
Dibromochloromethane	ND	4.7
1,2-Dibromoethane	ND	4.7
Chlorobenzene	ND	4.7
1,1,1,2-Tetrachloroethane	ND	4.7
Ethylbenzene	ND	4.7
m,p-Xylenes	ND	4.7
o-Xylene	ND	4.7
Styrene	ND	4.7
Bromoform	ND	4.7
Isopropylbenzene	ND	4.7
1,1,2,2-Tetrachloroethane	ND	4.7
1,2,3-Trichloropropane	ND	4.7
Propylbenzene	ND	4.7
Bromobenzene	ND	4.7
1,3,5-Trimethylbenzene	ND	4.7
2-Chlorotoluene	ND	4.7
4-Chlorotoluene	ND	4.7
tert-Butylbenzene	ND	4.7
1,2,4-Trimethylbenzene	ND	4.7
sec-Butylbenzene	ND	4.7
para-Isopropyl Toluene	ND	4.7
1,3-Dichlorobenzene	ND	4.7
1,4-Dichlorobenzene	ND	4.7
n-Butylbenzene	ND	4.7
1,2-Dichlorobenzene	ND	4.7
1,2-Dibromo-3-Chloropropane	ND	4.7
1,2,4-Trichlorobenzene	ND	4.7
Hexachlorobutadiene	ND	4.7
Naphthalene	ND	4.7
1,2,3-Trichlorobenzene	ND	4.7

Surrogate	%REC	Limits
Dibromofluoromethane	103	74-124
1,2-Dichloroethane-d4	110	75-128
Toluene-d8	99	80-111
Bromofluorobenzene	105	75-127

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163466	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-01	Analysis:	EPA 8260B
Field ID:	B-FP4;5-5.5	Diln Fac:	0.9804
Lab ID:	163466-010	Batch#:	78961
Matrix:	Soil	Sampled:	02/04/03
Units:	ug/Kg	Received:	02/04/03
Basis:	as received	Analyzed:	02/05/03

Analyte	Result	RL
Freon 12	ND	9.8
Chloromethane	ND	9.8
Vinyl Chloride	ND	9.8
Bromomethane	ND	9.8
Chloroethane	ND	9.8
Trichlorofluoromethane	ND	4.9
Acetone	ND	20
Freon 113	ND	4.9
1,1-Dichloroethene	ND	4.9
Methylene Chloride	ND	20
Carbon Disulfide	ND	4.9
MTBE	ND	4.9
trans-1,2-Dichloroethene	ND	4.9
Vinyl Acetate	ND	49
1,1-Dichloroethane	ND	4.9
2-Butanone	ND	9.8
cis-1,2-Dichloroethene	ND	4.9
2,2-Dichloropropane	ND	4.9
Chloroform	ND	4.9
Bromochloromethane	ND	4.9
1,1,1-Trichloroethane	ND	4.9
1,1-Dichloropropene	ND	4.9
Carbon Tetrachloride	ND	4.9
1,2-Dichloroethane	ND	4.9
Benzene	ND	4.9
Trichloroethene	ND	4.9
1,2-Dichloropropane	ND	4.9
Bromodichloromethane	ND	4.9
Dibromomethane	ND	4.9
4-Methyl-2-Pentanone	ND	9.8
cis-1,3-Dichloropropene	ND	4.9
Toluene	ND	4.9
trans-1,3-Dichloropropene	ND	4.9
1,1,2-Trichloroethane	ND	4.9
2-Hexanone	ND	9.8
1,3-Dichloropropane	ND	4.9
Tetrachloroethene	ND	4.9

ND= Not Detected
RL= Reporting Limit

000322 17.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163466	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-01	Analysis:	EPA 8260B
Field ID:	B-FP4;5-5.5	Diln Fac:	0.9804
Lab ID:	163466-010	Batch#:	78961
Matrix:	Soil	Sampled:	02/04/03
Units:	ug/Kg	Received:	02/04/03
Basis:	as received	Analyzed:	02/05/03

Analyte	Result	RL
Dibromochloromethane	ND	4.9
1,2-Dibromoethane	ND	4.9
Chlorobenzene	ND	4.9
1,1,1,2-Tetrachloroethane	ND	4.9
Ethylbenzene	ND	4.9
m,p-Xylenes	ND	4.9
o-Xylene	ND	4.9
Styrene	ND	4.9
Bromoform	ND	4.9
Isopropylbenzene	ND	4.9
1,1,2,2-Tetrachloroethane	ND	4.9
1,2,3-Trichloropropane	ND	4.9
Propylbenzene	ND	4.9
Bromobenzene	ND	4.9
1,3,5-Trimethylbenzene	ND	4.9
2-Chlorotoluene	ND	4.9
4-Chlorotoluene	ND	4.9
tert-Butylbenzene	ND	4.9
1,2,4-Trimethylbenzene	ND	4.9
sec-Butylbenzene	ND	4.9
para-Isopropyl Toluene	ND	4.9
1,3-Dichlorobenzene	ND	4.9
1,4-Dichlorobenzene	ND	4.9
n-Butylbenzene	ND	4.9
1,2-Dichlorobenzene	ND	4.9
1,2-Dibromo-3-Chloropropane	ND	4.9
1,2,4-Trichlorobenzene	ND	4.9
Hexachlorobutadiene	ND	4.9
Naphthalene	ND	4.9
1,2,3-Trichlorobenzene	ND	4.9

Surrogate	%REC	Limits
Dibromofluoromethane	103	74-124
1,2-Dichloroethane-d4	111	75-128
Toluene-d8	100	80-120
Bromofluorobenzene	108	75-127

ND= Not Detected
RL= Reporting Limit

000033 17.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163466	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC203843	Diln Fac:	1.000
Matrix:	Soil	Batch#:	78961
Units:	ug/Kg	Analyzed:	02/05/03

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163466	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC203843	Diln Fac:	1.000
Matrix:	Soil	Batch#:	78961
Units:	ug/Kg	Analyzed:	02/05/03

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	103	74-124
1,2-Dichloroethane-d4	109	75-128
Toluene-d8	99	80-111
Bromofluorobenzene	104	75-127

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163466	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	EPA 8260B
Type:	LCS	Basis:	as received
Lab ID:	QC203842	Diln Fac:	1.000
Matrix:	Soil	Batch#:	78961
Units:	ug/Kg	Analyzed:	02/05/03

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	46.94	94	70-131
Benzene	50.00	48.80	98	77-120
Trichloroethene	50.00	51.06	102	79-120
Toluene	50.00	49.71	99	80-120
Chlorobenzene	50.00	53.27	107	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	100	74-124
1,2-Dichloroethane-d4	108	75-128
Toluene-d8	99	80-111
Bromofluorobenzene	101	75-127

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163466	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	EPA 8260B
Field ID:	B-FP4;5-5.5	Diln Fac:	0.9804
MSS Lab ID:	163466-010	Batch#:	78961
Matrix:	Soil	Sampled:	02/04/03
Units:	ug/Kg	Received:	02/04/03
Basis:	as received	Analyzed:	02/05/03

Type: MS Lab ID: QC203845

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.4300	49.02	39.00	80	57-134
Benzene	<0.2900	49.02	41.24	84	55-125
Trichloroethene	<0.5400	49.02	42.72	87	37-133
Toluene	<0.3500	49.02	41.88	85	48-131
Chlorobenzene	<0.4400	49.02	43.66	89	42-128

Surrogate	%REC	Limits
Dibromofluoromethane	103	74-124
1,2-Dichloroethane-d4	110	75-128
Toluene-d8	99	80-111
Bromofluorobenzene	101	75-127

Type: MSD Lab ID: QC203846

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	49.02	40.17	82	57-134	3	20
Benzene	49.02	42.58	87	55-125	3	20
Trichloroethene	49.02	45.14	92	37-133	6	21
Toluene	49.02	43.91	90	48-131	5	20
Chlorobenzene	49.02	43.40	89	42-128	1	23

Surrogate	%REC	Limits
Dibromofluoromethane	105	74-124
1,2-Dichloroethane-d4	110	75-128
Toluene-d8	100	80-111
Bromofluorobenzene	104	75-127

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Hexavalent Chromium

Lab #:	163466	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-01	Analysis:	EPA 7196A
Analyte:	Hexavalent Chromium	Batch#:	79043
Matrix:	Soil	Sampled:	02/04/03
Units:	mg/Kg	Received:	02/04/03
Basis:	as received	Analyzed:	02/07/03
Diln Fac:	1.000		

Field ID	Type	Lab ID	Result	RL
B-FP3;1.5-2.0	SAMPLE	163466-002	ND	0.05
B-FP3;5.0-5.5	SAMPLE	163466-004	ND	0.05
B-FP4;2.0-2.5	SAMPLE	163466-008	ND	0.05
B-FP4;5-5.5	SAMPLE	163466-010	ND	0.05
B-FP5;2-2.5	SAMPLE	163466-014	0.09	0.05
B-FP5;5-5.5	SAMPLE	163466-016	1.9	0.05
	BLANK	QC204147	ND	0.05

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Hexavalent Chromium

Lab #:	163466	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-01	Analysis:	EPA 7196A
Analyte:	Hexavalent Chromium	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	79043
MSS Lab ID:	163373-001	Sampled:	01/29/03
Matrix:	Soil	Received:	01/29/03
Units:	mg/Kg	Analyzed:	02/07/03
Basis:	as received		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
LCS	QC204148		4.000	3.475	87	80-116		
MS	QC204149	<0.05000	4.000	3.312	83	62-132		
MSD	QC204150		4.000	3.196	80	62-132	4	24

RPD= Relative Percent Difference

22.0

000039

Curtis & Tompkins, Ltd.

Total Cyanide

Lab #:	163466	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-01	Analysis:	EPA 335.2
Analyte:	Cyanide	Batch#:	78987
Matrix:	Soil	Sampled:	02/04/03
Units:	mg/Kg	Received:	02/04/03
Basis:	as received	Analyzed:	02/06/03
Diln Fac:	1.000		

Field ID	Type	Lab ID	Result	RL
B-FP3;1.5-2.0	SAMPLE	163466-002	ND	1.0
B-FP3;5.0-5.5	SAMPLE	163466-004	ND	1.0
B-FP4;2.0-2.5	SAMPLE	163466-008	ND	1.0
B-FP4;5-5.5	SAMPLE	163466-010	ND	1.0
B-FP5;2-2.5	SAMPLE	163466-014	ND	1.0
B-FP5;5-5.5	SAMPLE	163466-016	ND	1.0
	BLANK	QC203946	ND	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Cyanide

Lab #:	163466	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-01	Analysis:	EPA 335.2
Analyte:	Cyanide	Diln Fac:	1.000
Field ID:	B-FP5;5-5.5	Batch#:	78987
MSS Lab ID:	163466-016	Sampled:	02/04/03
Matrix:	Soil	Received:	02/04/03
Units:	mg/Kg	Analyzed:	02/06/03
Basis:	as received		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC203947	<1.000	9.360	8.470	91	70-130		
MSD	QC203948		9.540	9.480	99	70-130	11	30
LCS	QC203949		9.640	9.880	103	80-120		

RPD= Relative Percent Difference

000041

6.0

Calscience Environmental Laboratories, Inc.

February 10, 2003

James Brownfield
Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Subject: **Calscience Work Order No.: 03-02-0213**
Client Reference: 163466

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 2/6/2003 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Don Burley
Project Manager

Michael J. Crisostomo
Quality Assurance Manager

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Date Received: 02/06/03
Work Order No: 03-02-0213
Preparation: Total Digestion
Method: EPA 6010B / EPA 7471A

Project: 163466

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
B-FP3 ; 1.5-2.0	03-02-0213-1	02/04/03	Solid	02/06/03	02/07/03	030206L04

Comment(s): Mercury was analyzed on 2/6/2003 2:45:48 PM with batch 030206L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury	ND	0.0835	1		mg/kg
Arsenic	0.928	0.750	1		mg/kg	Molybdenum	0.367	0.250	1		mg/kg
Barium	71.1	0.5	1		mg/kg	Nickel	17.2	0.2	1		mg/kg
Beryllium	ND	0.250	1		mg/kg	Selenium	ND	0.750	1		mg/kg
Cadmium	ND	0.500	1		mg/kg	Silver	ND	0.250	1		mg/kg
Chromium (Total)	37.5	0.2	1		mg/kg	Thallium	ND	0.750	1		mg/kg
Cobalt	4.43	0.25	1		mg/kg	Vanadium	18.2	0.2	1		mg/kg
Copper	5.60	0.50	1		mg/kg	Zinc	15.8	1.0	1		mg/kg
Lead	5.04	0.50	1		mg/kg						

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
B-FP3 ; 5.0-5.5	03-02-0213-2	02/04/03	Solid	02/06/03	02/07/03	030206L04

Comment(s): Mercury was analyzed on 2/6/2003 2:48:51 PM with batch 030206L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury	ND	0.0835	1		mg/kg
Arsenic	1.42	0.75	1		mg/kg	Molybdenum	ND	0.250	1		mg/kg
Barium	53.3	0.5	1		mg/kg	Nickel	995	0.250	1		mg/kg
Beryllium	0.349	0.250	1		mg/kg	Selenium	ND	0.750	1		mg/kg
Cadmium	ND	0.500	1		mg/kg	Silver	ND	0.250	1		mg/kg
Chromium (Total)	66.8	0.2	1		mg/kg	Thallium	ND	0.750	1		mg/kg
Cobalt	9.70	0.25	1		mg/kg	Vanadium	42.5	0.2	1		mg/kg
Copper	10.1	0.5	1		mg/kg	Zinc	24.0	1.0	1		mg/kg
Lead	3.54	0.50	1		mg/kg						

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
B-FP4 ; 2.0-2.5	03-02-0213-3	02/04/03	Solid	02/06/03	02/07/03	030206L04

Comment(s): Mercury was analyzed on 2/6/2003 2:51:53 PM with batch 030206L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury	ND	0.0835	1		mg/kg
Arsenic	ND	0.750	1		mg/kg	Molybdenum	ND	0.250	1		mg/kg
Barium	75.6	0.5	1		mg/kg	Nickel	16.5	0.2	1		mg/kg
Beryllium	ND	0.250	1		mg/kg	Selenium	ND	0.750	1		mg/kg
Cadmium	ND	0.500	1		mg/kg	Silver	ND	0.250	1		mg/kg
Chromium (Total)	27.3	0.2	1		mg/kg	Thallium	ND	0.750	1		mg/kg
Cobalt	4.05	0.25	1		mg/kg	Vanadium	19.1	0.2	1		mg/kg
Copper	5.77	0.50	1		mg/kg	Zinc	16.5	1.0	1		mg/kg
Lead	2.43	0.50	1		mg/kg						

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RL - Reporting Limit, DF - Dilution Factor, Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Date Received: 02/06/03
Work Order No: 03-02-0213
Preparation: Total Digestion
Method: EPA 6010B / EPA 7471A

Project: 163466

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
B-FP4 ; 5-5.5	**03-02-0213-4**	**02/04/03**	**Solid**	**02/06/03**	**02/07/03**	**030206L04**

Comment(s): Mercury was analyzed on 2/6/2003 2:54:57 PM with batch 030206L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury	ND	0.0835	1		mg/kg
Arsenic	1.07	0.75	1		mg/kg	Molybdenum	0.872	0.250	1		mg/kg
Barium	43.0	0.5	1		mg/kg	Nickel	37.0	0.2	1		mg/kg
Beryllium	0.326	0.250	1		mg/kg	Selenium	ND	0.750	1		mg/kg
Cadmium	ND	0.500	1		mg/kg	Silver	ND	0.250	1		mg/kg
Chromium (Total)	47.9	0.2	1		mg/kg	Thallium	ND	0.750	1		mg/kg
Cobalt	10.8	0.2	1		mg/kg	Vanadium	32.5	0.2	1		mg/kg
Copper	6.61	0.50	1		mg/kg	Zinc	45.1	1.0	1		mg/kg
Lead	3.22	0.50	1		mg/kg						

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
B-FP5 ; 2-2.5	**03-02-0213-5**	**02/04/03**	**Solid**	**02/06/03**	**02/07/03**	**030206L04**

Comment(s): Mercury was analyzed on 2/6/2003 2:58:00 PM with batch 030206L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury	ND	0.0835	1		mg/kg
Arsenic	0.794	0.750	1		mg/kg	Molybdenum	ND	0.250	1		mg/kg
Barium	55.9	0.5	1		mg/kg	Nickel	17.3	0.2	1		mg/kg
Beryllium	ND	0.250	1		mg/kg	Selenium	ND	0.750	1		mg/kg
Cadmium	ND	0.500	1		mg/kg	Silver	ND	0.250	1		mg/kg
Chromium (Total)	36.6	0.2	1		mg/kg	Thallium	ND	0.750	1		mg/kg
Cobalt	3.86	0.25	1		mg/kg	Vanadium	20.3	0.2	1		mg/kg
Copper	4.79	0.50	1		mg/kg	Zinc	13.9	1.0	1		mg/kg
Lead	2.83	0.50	1		mg/kg						

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
B-FP5 ; 5-5.5	**03-02-0213-6**	**02/04/03**	**Solid**	**02/06/03**	**02/07/03**	**030206L04**

Comment(s): Mercury was analyzed on 2/6/2003 3:01:03 PM with batch 030206L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury	ND	0.0835	1		mg/kg
Arsenic	0.764	0.750	1		mg/kg	Molybdenum	ND	0.250	1		mg/kg
Barium	28.4	0.5	1		mg/kg	Nickel	19.3	0.2	1		mg/kg
Beryllium	ND	0.250	1		mg/kg	Selenium	ND	0.750	1		mg/kg
Cadmium	ND	0.500	1		mg/kg	Silver	ND	0.250	1		mg/kg
Chromium (Total)	34.8	0.2	1		mg/kg	Thallium	ND	0.750	1		mg/kg
Cobalt	2.55	0.25	1		mg/kg	Vanadium	21.6	0.2	1		mg/kg
Copper	4.60	0.50	1		mg/kg	Zinc	11.4	1.0	1		mg/kg
Lead	2.08	0.50	1		mg/kg						

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-04-007-1,867**	**N/A**	**Solid**	**02/06/03**	**02/06/03**	**030206L01**

Parameter	Result	RL	DF	Qual	Units
Mercury	ND	0.0835	1		mg/kg

000044

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Date Received: 02/06/03
Work Order No: 03-02-0213
Preparation: Total Digestion
Method: EPA 6010B / EPA 7471A

Project: 163466

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**097-01-002-4,036**	**N/A**	**Solid**	**02/06/03**	**02/06/03**	**030206L04**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Molybdenum	ND	0.250	1		mg/kg
Arsenic	ND	0.750	1		mg/kg	Nickel	ND	0.250	1		mg/kg
Barium	ND	0.500	1		mg/kg	Selenium	ND	0.750	1		mg/kg
Beryllium	ND	0.250	1		mg/kg	Silver	ND	0.250	1		mg/kg
Cadmium	ND	0.500	1		mg/kg	Thallium	ND	0.750	1		mg/kg
Chromium (Total)	ND	0.250	1		mg/kg	Vanadium	ND	0.250	1		mg/kg
Cobalt	ND	0.250	1		mg/kg	Zinc	ND	1.00	1		mg/kg
Copper	ND	0.500	1		mg/kg	Lead	ND	0.500	1		mg/kg

000045

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Date Received: 02/06/03
Work Order No: 03-02-0213
Preparation: EPA 3545
Method: EPA 8082

Project: 163466

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
B-FP3 ; 1.5-2.0	**03-02-0213-1**	**02/04/03**	**Solid**	**02/06/03**	**02/06/03**	**030206L05**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Aroclor-1016	ND	50	1		ug/kg	Aroclor-1248	ND	50	1		ug/kg
Aroclor-1221	ND	50	1		ug/kg	Aroclor-1254	ND	50	1		ug/kg
Aroclor-1232	ND	50	1		ug/kg	Aroclor-1260	ND	50	1		ug/kg
Aroclor-1242	ND	50	1		ug/kg	Aroclor-1262	ND	50	1		ug/kg
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	81	50-130				2,4,5,6-Tetrachloro-m-Xylene	96	50-130			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
B-FP3 ; 5.0-5.5	**03-02-0213-2**	**02/04/03**	**Solid**	**02/06/03**	**02/06/03**	**030206L05**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Aroclor-1016	ND	50	1		ug/kg	Aroclor-1248	ND	50	1		ug/kg
Aroclor-1221	ND	50	1		ug/kg	Aroclor-1254	ND	50	1		ug/kg
Aroclor-1232	ND	50	1		ug/kg	Aroclor-1260	ND	50	1		ug/kg
Aroclor-1242	ND	50	1		ug/kg	Aroclor-1262	ND	50	1		ug/kg
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	81	50-130				2,4,5,6-Tetrachloro-m-Xylene	91	50-130			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
B-FP4 ; 2.0-2.5	**03-02-0213-3**	**02/04/03**	**Solid**	**02/06/03**	**02/06/03**	**030206L05**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Aroclor-1016	ND	50	1		ug/kg	Aroclor-1248	ND	50	1		ug/kg
Aroclor-1221	ND	50	1		ug/kg	Aroclor-1254	ND	50	1		ug/kg
Aroclor-1232	ND	50	1		ug/kg	Aroclor-1260	ND	50	1		ug/kg
Aroclor-1242	ND	50	1		ug/kg	Aroclor-1262	ND	50	1		ug/kg
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	82	50-130				2,4,5,6-Tetrachloro-m-Xylene	92	50-130			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
B-FP4 ; 5-5.5	**03-02-0213-4**	**02/04/03**	**Solid**	**02/06/03**	**02/06/03**	**030206L05**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Aroclor-1016	ND	50	1		ug/kg	Aroclor-1248	ND	50	1		ug/kg
Aroclor-1221	ND	50	1		ug/kg	Aroclor-1254	ND	50	1		ug/kg
Aroclor-1232	ND	50	1		ug/kg	Aroclor-1260	ND	50	1		ug/kg
Aroclor-1242	ND	50	1		ug/kg	Aroclor-1262	ND	50	1		ug/kg
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	84	50-130				2,4,5,6-Tetrachloro-m-Xylene	90	50-130			

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Date Received: 02/06/03
Work Order No: 03-02-0213
Preparation: EPA 3545
Method: EPA 8082

Project: 163466

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
B-FP5 ; 2-2.5	**03-02-0213-5**	**02/04/03**	**Solid**	**02/06/03**	**02/06/03**	**030206L05**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Aroclor-1016	ND	50	1		ug/kg	Aroclor-1248	ND	50	1		ug/kg
Aroclor-1221	ND	50	1		ug/kg	Aroclor-1254	ND	50	1		ug/kg
Aroclor-1232	ND	50	1		ug/kg	Aroclor-1260	ND	50	1		ug/kg
Aroclor-1242	ND	50	1		ug/kg	Aroclor-1262	ND	50	1		ug/kg
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	87	50-130				2,4,5,6-Tetrachloro-m-Xylene	96	50-130			

B-FP5 ; 5-5.5	03-02-0213-6	02/04/03	Solid	02/06/03	02/06/03	030206L05

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Aroclor-1016	ND	50	1		ug/kg	Aroclor-1248	ND	50	1		ug/kg
Aroclor-1221	ND	50	1		ug/kg	Aroclor-1254	ND	50	1		ug/kg
Aroclor-1232	ND	50	1		ug/kg	Aroclor-1260	ND	50	1		ug/kg
Aroclor-1242	ND	50	1		ug/kg	Aroclor-1262	ND	50	1		ug/kg
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	102	50-130				2,4,5,6-Tetrachloro-m-Xylene	92	50-130			

Method Blank	099-07-009-215	N/A	Solid	02/06/03	02/06/03	030206L05

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Aroclor-1016	ND	50	1		ug/kg	Aroclor-1248	ND	50	1		ug/kg
Aroclor-1221	ND	50	1		ug/kg	Aroclor-1254	ND	50	1		ug/kg
Aroclor-1232	ND	50	1		ug/kg	Aroclor-1260	ND	50	1		ug/kg
Aroclor-1242	ND	50	1		ug/kg	Aroclor-1262	ND	50	1		ug/kg
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	96	50-130				2,4,5,6-Tetrachloro-m-Xylene	102	50-130			

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Date Received: 02/06/03
Work Order No: 03-02-0213
Preparation: EPA 3545
Method: EPA 8310

Project: 163466

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
B-FP3 ; 1.5-2.0	**03-02-0213-1**	**02/04/03**	**Solid**	**02/06/03**	**02/06/03**	**030206L01**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Naphthalene	ND	50	1		ug/kg	Benzo (a) Anthracene	ND	50	1		ug/kg
Acenaphthylene	ND	50	1		ug/kg	Chrysene	ND	50	1		ug/kg
Acenaphthene	ND	50	1		ug/kg	Benzo (b) Fluoranthene	ND	50	1		ug/kg
Fluorene	ND	50	1		ug/kg	Benzo (k) Fluoranthene	ND	50	1		ug/kg
Phenanthrene	ND	50	1		ug/kg	Benzo (a) Pyrene	ND	50	1		ug/kg
Anthracene	ND	50	1		ug/kg	Dibenz (a,h) Anthracene	ND	50	1		ug/kg
Fluoranthene	ND	50	1		ug/kg	Benzo (g,h,i) Perylene	ND	50	1		ug/kg
Pyrene	ND	50	1		ug/kg	Indeno (1,2,3-c,d) Pyrene	ND	50	1		ug/kg
Surrogates:	REC (%)	Control Limits		Qual							
Decafluorobiphenyl	87	40-160									

B-FP3 ; 5.0-5.5	03-02-0213-2	02/04/03	Solid	02/06/03	02/06/03	030206L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Naphthalene	ND	50	1		ug/kg	Benzo (a) Anthracene	ND	50	1		ug/kg
Acenaphthylene	ND	50	1		ug/kg	Chrysene	ND	50	1		ug/kg
Acenaphthene	ND	50	1		ug/kg	Benzo (b) Fluoranthene	ND	50	1		ug/kg
Fluorene	ND	50	1		ug/kg	Benzo (k) Fluoranthene	ND	50	1		ug/kg
Phenanthrene	ND	50	1		ug/kg	Benzo (a) Pyrene	ND	50	1		ug/kg
Anthracene	ND	50	1		ug/kg	Dibenz (a,h) Anthracene	ND	50	1		ug/kg
Fluoranthene	ND	50	1		ug/kg	Benzo (g,h,i) Perylene	ND	50	1		ug/kg
Pyrene	ND	50	1		ug/kg	Indeno (1,2,3-c,d) Pyrene	ND	50	1		ug/kg
Surrogates:	REC (%)	Control Limits		Qual							
Decafluorobiphenyl	77	40-160									

B-FP4 ; 2.0-2.5	03-02-0213-3	02/04/03	Solid	02/06/03	02/06/03	030206L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Naphthalene	ND	50	1		ug/kg	Benzo (a) Anthracene	ND	50	1		ug/kg
Acenaphthylene	ND	50	1		ug/kg	Chrysene	ND	50	1		ug/kg
Acenaphthene	ND	50	1		ug/kg	Benzo (b) Fluoranthene	ND	50	1		ug/kg
Fluorene	ND	50	1		ug/kg	Benzo (k) Fluoranthene	ND	50	1		ug/kg
Phenanthrene	ND	50	1		ug/kg	Benzo (a) Pyrene	ND	50	1		ug/kg
Anthracene	ND	50	1		ug/kg	Dibenz (a,h) Anthracene	ND	50	1		ug/kg
Fluoranthene	ND	50	1		ug/kg	Benzo (g,h,i) Perylene	ND	50	1		ug/kg
Pyrene	ND	50	1		ug/kg	Indeno (1,2,3-c,d) Pyrene	ND	50	1		ug/kg
Surrogates:	REC (%)	Control Limits		Qual							
Decafluorobiphenyl	79	40-160									

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Date Received: 02/06/03
Work Order No: 03-02-0213
Preparation: EPA 3545
Method: EPA 8310

Project: 163466

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
B-FP4 ; 5-5.5	03-02-0213-4	02/04/03	Solid	02/06/03	02/06/03	030206L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Naphthalene	ND	50	1		ug/kg	Benzo (a) Anthracene	ND	50	1		ug/kg
Acenaphthylene	ND	50	1		ug/kg	Chrysene	ND	50	1		ug/kg
Acenaphthene	ND	50	1		ug/kg	Benzo (b) Fluoranthene	ND	50	1		ug/kg
Fluorene	ND	50	1		ug/kg	Benzo (k) Fluoranthene	ND	50	1		ug/kg
Phenanthrene	ND	50	1		ug/kg	Benzo (a) Pyrene	ND	50	1		ug/kg
Anthracene	ND	50	1		ug/kg	Dibenz (a,h) Anthracene	ND	50	1		ug/kg
Fluoranthene	ND	50	1		ug/kg	Benzo (g,h,i) Perylene	ND	50	1		ug/kg
Pyrene	ND	50	1		ug/kg	Indeno (1,2,3-c,d) Pyrene	ND	50	1		ug/kg
Surrogates:	REC (%)	Control Limits		Qual							
Decafluorobiphenyl	87	40-160									

B-FP5 ; 2-2.5	03-02-0213-5	02/04/03	Solid	02/06/03	02/06/03	030206L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Naphthalene	ND	50	1		ug/kg	Benzo (a) Anthracene	ND	50	1		ug/kg
Acenaphthylene	ND	50	1		ug/kg	Chrysene	ND	50	1		ug/kg
Acenaphthene	ND	50	1		ug/kg	Benzo (b) Fluoranthene	ND	50	1		ug/kg
Fluorene	ND	50	1		ug/kg	Benzo (k) Fluoranthene	ND	50	1		ug/kg
Phenanthrene	ND	50	1		ug/kg	Benzo (a) Pyrene	ND	50	1		ug/kg
Anthracene	ND	50	1		ug/kg	Dibenz (a,h) Anthracene	ND	50	1		ug/kg
Fluoranthene	ND	50	1		ug/kg	Benzo (g,h,i) Perylene	ND	50	1		ug/kg
Pyrene	ND	50	1		ug/kg	Indeno (1,2,3-c,d) Pyrene	ND	50	1		ug/kg
Surrogates:	REC (%)	Control Limits		Qual							
Decafluorobiphenyl	75	40-160									

B-FP5 ; 5-5.5	03-02-0213-6	02/04/03	Solid	02/06/03	02/06/03	030206L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Naphthalene	ND	50	1		ug/kg	Benzo (a) Anthracene	ND	50	1		ug/kg
Acenaphthylene	ND	50	1		ug/kg	Chrysene	ND	50	1		ug/kg
Acenaphthene	ND	50	1		ug/kg	Benzo (b) Fluoranthene	ND	50	1		ug/kg
Fluorene	ND	50	1		ug/kg	Benzo (k) Fluoranthene	ND	50	1		ug/kg
Phenanthrene	ND	50	1		ug/kg	Benzo (a) Pyrene	ND	50	1		ug/kg
Anthracene	ND	50	1		ug/kg	Dibenz (a,h) Anthracene	ND	50	1		ug/kg
Fluoranthene	ND	50	1		ug/kg	Benzo (g,h,i) Perylene	ND	50	1		ug/kg
Pyrene	ND	50	1		ug/kg	Indeno (1,2,3-c,d) Pyrene	ND	50	1		ug/kg
Surrogates:	REC (%)	Control Limits		Qual							
Decafluorobiphenyl	79	40-160									

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Date Received: 02/06/03
Work Order No: 03-02-0213
Preparation: EPA 3545
Method: EPA 8310

Project: 163466

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-07-002-268**	**N/A**	**Solid**	**02/06/03**	**02/06/03**	**030206L01**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Naphthalene	ND	50	1		ug/kg	Benzo (a) Anthracene	ND	50	1		ug/kg
Acenaphthylene	ND	50	1		ug/kg	Chrysene	ND	50	1		ug/kg
Acenaphthene	ND	50	1		ug/kg	Benzo (b) Fluoranthene	ND	50	1		ug/kg
Fluorene	ND	50	1		ug/kg	Benzo (k) Fluoranthene	ND	50	1		ug/kg
Phenanthrene	ND	50	1		ug/kg	Benzo (a) Pyrene	ND	50	1		ug/kg
Anthracene	ND	50	1		ug/kg	Dibenz (a,h) Anthracene	ND	50	1		ug/kg
Fluoranthene	ND	50	1		ug/kg	Benzo (g,h,i) Perylene	ND	50	1		ug/kg
Pyrene	ND	50	1		ug/kg	Indeno (1,2,3-c,d) Pyrene	ND	50	1		ug/kg

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	96	40-160	

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Date Received: 02/06/03
Work Order No: 03-02-0213
Preparation: Total Digestion
Method: EPA 6010B

Project: 163466

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B-FP3 ; 5.0-5.5	**Solid**	**ICP 3300**	**02/06/03**	**02/07/03**	**030206S04**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	47	42	50-115	10	0-20	3
Arsenic	100	101	75-125	1	0-20	
Barium	117	114	75-125	1	0-20	
Beryllium	99	100	75-125	1	0-20	
Cadmium	84	85	75-125	1	0-20	
Chromium (Total)	262	146	75-125	34	0-20	3,4
Cobalt	104	105	75-125	1	0-20	
Copper	103	104	75-125	1	0-20	
Lead	99	99	75-125	0	0-20	
Molybdenum	93	91	75-125	3	0-20	
Nickel	4X	4X	75-125	4X	0-20	Q
Selenium	93	92	75-125	1	0-20	
Silver	102	103	75-125	1	0-20	
Thallium	96	93	75-125	4	0-20	
Vanadium	86	91	75-125	3	0-20	
Zinc	107	102	75-125	3	0-20	

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Project: 163466

Date Received: 02/06/03
Work Order No: 03-02-0213
Preparation: Total Digestion
Method: EPA 6010B

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-4,036	Solid	ICP 3300	02/06/03	02/06/03	030206L04

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	90	85	80-120	5	0-20	
Arsenic	97	92	80-120	6	0-20	
Barium	110	106	80-120	3	0-20	
Beryllium	90	86	80-120	5	0-20	
Cadmium	95	89	80-120	7	0-20	
Chromium (Total)	93	88	80-120	5	0-20	
Cobalt	101	95	80-120	6	0-20	
Copper	92	85	80-120	7	0-20	
Lead	94	89	80-120	5	0-20	
Molybdenum	92	87	80-120	5	0-20	
Nickel	98	93	80-120	6	0-20	
Selenium	88	83	80-120	5	0-20	
Silver	98	94	80-120	4	0-20	
Thallium	94	91	80-120	3	0-20	
Vanadium	91	87	80-120	5	0-20	
Zinc	98	90	80-120	9	0-20	

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Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Project: 163466

Date Received: 02/06/03
Work Order No: 03-02-0213
Preparation: Total Digestion
Method: EPA 7471A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
03-02-0188-5	Solid	Mercury	02/06/03	02/06/03	030206S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	119	115	76-136	3	0-16	

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Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Project: 163466

Date Received: 02/06/03
Work Order No: 03-02-0213
Preparation: Total Digestion
Method: EPA 7471A

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-04-007-1,867	Solid	Mercury	02/06/03	030206-L01	030206L01

Parameter	Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Mercury	0.835	0.799	96	82-124	

000054

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Project: 163466

Date Received: 02/06/03
Work Order No: 03-02-0213
Preparation: EPA 3545
Method: EPA 8082

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B-FP5 ; 5-5.5	**Solid**	**GC 10**	**02/06/03**	**02/07/03**	**030206S05**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1260	97	91	50-135	6	0-25	

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Project: 163466

Date Received: 02/06/03
Work Order No: 03-02-0213
Preparation: EPA 3545
Method: EPA 8082

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-07-009-215	Solid	GC 10	02/06/03	02/07/03	030206L05

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1260	134	130	50-135	3	0-25	

000056

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Project: 163466

Date Received: 02/06/03
Work Order No: 03-02-0213
Preparation: EPA 3545
Method: EPA 8310

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
03-02-0210-6	Solid	HPLC 6	02/06/03	02/06/03	030206S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzo (b) Fluoranthene	90	90	40-160	0	0-20	
Benzo (k) Fluoranthene	95	96	40-160	0	0-20	
Benzo (a) Pyrene	72	72	40-160	0	0-20	
Dibenz (a,h) Anthracene	90	91	40-160	0	0-20	
Benzo (g,h,i) Perylene	75	74	40-160	1	0-20	
Indeno (1,2,3-c,d) Pyrene	83	83	40-160	0	0-20	

000057

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Project: 163466

Date Received: 02/06/03
Work Order No: 03-02-0213
Preparation: EPA 3545
Method: EPA 8310

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-07-002-268	Solid	HPLC 6	02/06/03	02/06/03	030206L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzo (b) Fluoranthene	117	117	40-160	0	0-20	
Benzo (k) Fluoranthene	119	119	40-160	0	0-20	
Benzo (a) Pyrene	111	110	40-160	1	0-20	
Dibenz (a,h) Anthracene	120	121	40-160	0	0-20	
Benzo (g,h,i) Perylene	116	115	40-160	1	0-20	
Indeno (1,2,3-c,d) Pyrene	113	113	40-160	0	0-20	

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Calscience Environmental Laboratories, Inc.

GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 03-02-0213

Qualifier	Definition
3	Spike or Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
ND	Not detected at indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the sample concentration exceeding the spike concentration by a factor of four or greater.

7440 Lincoln Way, Garden Grove, CA 92841-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 03-[0][2]-[0][2][1][3]

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: CURTIS and TOMPKINS DATE: 02/06/03

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.
_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

_____ °C Temperature blank.
4 °C IR thermometer.
_____ Ambient temperature.

Initial: TH

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Applicable (N/A): ✓

Initial: TH

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation			✓

Initial: TH

COMMENTS:

000000

1 of 2

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900
(510) 486-0532

Project Number: 163466

Subcontract Laboratory:
Cal Science
7440 Lincoln Way
Garden Grove, CA 92641-1432
(714) 895-5494
ATTN: Jody McInerney x132

0213

Results due: ~~2/13/03~~ 02/11/03)HP 2/5/03 2/12/03 Report Level: II

Please send report to: James Brownfield
** Please report using Sample ID rather than C&T Lab #.

Sample ID	Sampled	Matrix	Analysis	C&T Lab # Comments
[redacted]FP3;1.5-2.0	02/04	Soil	8310	163466-002
B-FP3;1.5-2.0	02/04	Soil	PCB	163466-002
B-FP3;1.5-2.0	02/04	Soil	T26 MET	163466-002
[redacted]FP3;1.5-2.0	02/04	Soil	T26/HG	163466-002
[redacted]FP3;1.5-2.0	02/04	Soil	T26/ICP	163466-002
B-FP3;5.0-5.5	02/04	Soil	8310	163466-004
[redacted]FP3;5.0-5.5	02/04	Soil	PCB	163466-004
[redacted]FP3;5.0-5.5	02/04	Soil	T26 MET	163466-004
B-FP3;5.0-5.5	02/04	Soil	T26/HG	163466-004
B-FP3;5.0-5.5	02/04	Soil	T26/ICP	163466-004
[redacted]FP4;2.0-2.5	02/04	Soil	8310	163466-008
B-FP4;2.0-2.5	02/04	Soil	PCB	163466-008
B-FP4;2.0-2.5	02/04	Soil	T26 MET	163466-008
[redacted]FP4;2.0-2.5	02/04	Soil	T26/HG	163466-008
[redacted]FP4;2.0-2.5	02/04	Soil	T26/ICP	163466-008
B-FP4;5-5.5	02/04	Soil	8310	163466-010
[redacted]FP4;5-5.5	02/04	Soil	PCB	163466-010
[redacted]FP4;5-5.5	02/04	Soil	T26 MET	163466-010
B-FP4;5-5.5	02/04	Soil	T26/HG	163466-010
B-FP4;5-5.5	02/04	Soil	T26/ICP	163466-010
[redacted]FP5;2-2.5	02/04	Soil	8310	163466-014
[redacted]FP5;2-2.5	02/04	Soil	PCB	163466-014
B-FP5;2-2.5	02/04	Soil	T26 MET	163466-014
[redacted]FP5;2-2.5	02/04	Soil	T26/HG	163466-014
[redacted]FP5;2-2.5	02/04	Soil	T26/ICP	163466-014
B-FP5;5-5.5	02/04	Soil	8310	163466-016
[redacted]FP5;5-5.5	02/04	Soil	PCB	163466-016
[redacted]FP5;5-5.5	02/04	Soil	T26 MET	163466-016
B-FP5;5-5.5	02/04	Soil	T26/HG	163466-016
B-FP5;5-5.5	02/04	Soil	T26/ICP	163466-016

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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900
(510) 486-0532

0213

Notes:	Relinquished By:	Received By:
	Date/Time: 2-5-03 4:30 P.M.	Date/Time: 2/6/03 830

Signature on this form constitutes a firm Purchase Order for the services reque

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Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

ANALYTICAL REPORT

Prepared for:

Baseline Environmental
5900 Hollis Street
Suite D
Emeryville, CA 94608

Date: 24-FEB-03
Lab Job Number: 163482
Project ID: Y0323-01
Location: 751-785 Brush St.

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Reviewed by: _____
Project Manager

Reviewed by: _____
Operations Manager

100033

163482

BASELINE
5900 Hollis Street, Suite D
Emeryville, CA 94608
Tel: (510) 420-8686 Fax: (510) 420-1707

CHAIN OF CUSTODY RECORD

Lab: Curtis + Tompkins
BASELINE Contact Person: Rhodora Polisena

Project Number: Y0323-01

Project Name and Location: 751-785 Brush ST.

Samplers: (Signature) [signature]

Containers — Type: SS, 40-ml VOA, L-AG, 500 ml Poly, L-Poly; Preservative: None (Ice), HCl, NO_3, SO_4, NaOH

Analyses: TPH as gasoline; TPH as diesel w/silica gel clean up; VOC; PAHs; PCBs; Total 22 metals *(Filter at Lab); Cr^{+6}; Cyanide

Lab No.	Sample ID No. Station	Date	Time	Media	No.	40-ml VOA	L-AG	500 ml Poly	None (Ice)	HCl	NaOH	TPH as gasoline	TPH as diesel w/silica gel clean up	VOC	PAHs	PCBs	Total 22 metals *(Filter at Lab)	Cr^{+6}	Cyanide	Remarks/ Composite
34	B-FP3	2/4/03	12:20	W	3	X				X		X								
	B-FP3	2/4/03	12:20	W	1		X		X				X							
35	B-FP5	2/5/03	8:00	W	6	X				X		X		X						
	B-FP5	2/5/03	8:00	W	3		X		X				X		X	X				
	B-FP5	↓	8:00	W	2			X	X								X	X		
	B-FP5		8:00	W	1			X			X								X	
36	B-FP4	2/5/03	8:30	W	6	X				X		X		X						one voa w/ no sample in it JGW 2-5-03
	B-FP4	↓	8:30	W	3		X		X				X		X	X				
	B-FP4		8:30	W	2			X	X								X	X		
	B-FP4		8:30	W	1			X			X								X	

Received ☒ On Ice ☒ Cold ☐ Ambient ☒ Intact
Preservation Correct? ☒ Yes ☐ No ☐ N/A

Relinquished by: (Signature)	Custody Seal	Date/Time	Received by: (Signature)	Custody Seal intact	Date/Time
[signature]	Yes (No)	2/5/03/12:20	[signature]	Yes No NA	2/5/03 1220
	Yes No			Yes No NA	
	Yes No			Yes No NA	

Conditions of Samples Upon Arrival at Laboratory:

Remarks: Please Fax chain of Custody To Rhodora @ 420-1707
* Filter at Lab Metals Sample

Received at laboratory with intact custody seal: (Signature)

Date/Time

Comments: receive extra container w/ HNO_3 for B-FP4 JHB 2/5/03

D:\Graphic\Chain of Custody Record\Master.cdr 5/02

000097

B[redacted]E | T034[redacted]8 | **CHAIN OF CUSTODY RECORD** [redacted] Lab [redacted] Curtis [redacted] TOMPKINS

5900 Hollis Street, Suite D
Emeryville, CA 94608
Tel: (510) 420-8686 Fax: (510) 420-1707

BASELINE Contact Person: Rhodora Odisanto

Project Number: Y0323-01

Project Name and Location: 751-785 Brush ST

Samplers: (Signature) [signature]

	Sample ID No. Station	Date:	Time:	Media	No.	SS	40-ml VOA	L-AG	250 ml Poly	L-Poly	Encore	None (Ice)	HCl	NO_3	SO_4	TPH as gasoline	TPH as diesel with silica gel clean up	VOC	PAHs (8310)	PCB	Cyanide	Title 22 metals *		Remarks/ Composite
-1	B-FP-6; 2-2.5	2/5/03	7:50	S	1	X						X					X		X	X	X	X		
-2	B-FP6; 2.5	↓	7:50	S	5						X	↓				X		X						
-3	B-FP6; 5-5.5		8:00	S	1	X											X		X	X	X	X		
-4	B-FP6; 5.5		8:00	S	5						X					X		X						
-5	B FP6; 10-10.5		8:20	S	1	X																		Hold
-6	B FP6; 15-15.5	↓	8:30	S	1	X																		Hold
-7	BFP7; 2.5	2/5/03	9:00	S	5						X					X		X						
-8	BFP7; 2.5-3.0		9:00	S	1	X											X		X	X	X	X		
-9	BFP7; 5-5.5		9:20	S	1	X											X		X	X	X	X		
-10	BFP7; 5.5		9:20	S	5						X					X		X						Hold
-11	BFP7; 10-10.5		9:40	S	1	X																		Hold
-12	BFP7; 15-15.5		9:50	S	1	X						↓												

Preservation Correct? ☑ Yes ☐ No ☐ N/A

Received ☑ On Ice ☑ Cold ☐ Ambient ☑ Intact

Relinquished by: (Signature)	Custody Seal	Date/Time	Received by: (Signature)	Custody Seal intact	Date/Time	Conditions of Samples Upon Arrival at Laboratory:
[signature]	Yes (No)	2/5/03 12:20	[signature]	Yes No NA	2/5/03 12:20	
Relinquished by: (Signature)	Custody Seal Yes No	Date/Time	Received by: (Signature)	Custody Seal intact Yes No NA	Date/Time	Remarks:
Relinquished by: (Signature)	Custody Seal Yes No	Date/Time	Received by: (Signature)	Custody Seal intact Yes No NA	Date/Time	*WETS Run Soluble if 10 X STLC

Received at laboratory with intact custody seal: (Signature) | Date/Time | Comments:

D:\Graphics\Chain of Custody Record\Master.cdr 5/02

163482

BASELINE
5900 Hollis Street, Suite D
Emeryville, CA 94608
Tel: (510) 420-8686 Fax: (510) 420-1707

CHAIN OF CUSTODY RECORD

Turn-around Time: 5-Day
Lab: Curtis + Tompkins
BASELINE Contact Person: Rhodora Delisens

Project Number: Y0323-01

Project Name and Location: 751-785 Brush ST

Samplers: (Signature) [signature]

	Sample ID No. Station	Date:	Time:	Media	No.	SS	Encore	L-AG	40-ml VOA	L-Poly	250 ml Poly	Encore	None	HCl	NO_3	SO_4		TPH as gasoline	TPH as diesel	VOC	PAHs (8310)	PCB	Cyanide	Title 22 metals *		Remarks/ Composite
-13	B-FP-2; 2.5	2/5/03	10:10	S	5							X	X					X		X						
-14	B-FP2; 2.5-3.0	↓	10:10	S	1	X							X						X		X	X	X	X		
-15	B-FP2; 5.5		10:20	S	5							X	X					X		X						
-16	B-FP2; 5.5-6.0		10:20	S	1	X							X						X		X	X	X	X		
-17	B-FP2; 10-10.5		10:40	S	1	X							X													HOLD
-18	B-FP2; 15-15.5		10:50	S	1	X							X													HOLD
													X													
-19	B-FP1; 2.5	2/5/03	11:10	S	5							X	X					X		X						
-20	B-FP1; 2.5-3.0		11:10	S	1	X							X						X		X	X	X	X		
-21	B-FP1; 5.5		11:20	S	5							X	X					X		X						
-22	B-FP1; 5.5-6.0		11:20	S	1	X							X						X		X	X	X	X		
-23	B-FP1; 10-10.5		11:40	S	1	X							X													HOLD
-24	B-FP1; 15-15.5	↓	11:50	S	1	X							X													HOLD

Preservation Correct? ☑ Yes ☐ No ☐ N/A

Received ☑ On Ice ☑ Cold ☐ Ambient ☑ Intact

Relinquished by: (Signature)	Custody Seal	Date/Time	Received by: (Signature)	Custody Seal intact	Date/Time	Conditions of Samples Upon Arrival at Laboratory:
[signature]	Yes (No)	2/5/03/12:20	[signature]	Yes No NA	2/5/03 12:20 pm	
Relinquished by: (Signature)	Custody Seal Yes No	Date/Time	Received by: (Signature)	Custody Seal intact Yes No NA	Date/Time	Remarks: If analyzing for MTBE, confirm any hits with EPA method 8260
Relinquished by: (Signature)	Custody Seal Yes No	Date/Time	Received by: (Signature)	Custody Seal intact Yes No NA	Date/Time	* Run Soluble if 10 X STLC.

Received at laboratory with intact custody seal: (Signature) | Date/Time | Comments:

[redacted]

CHAIN OF CUSTODY RECORD

5900 Hollis Street, Suite D
Emeryville, CA 94608
Tel: (510) 420-8686 Fax: (510) 420-1707

BASELINE Contact Person: Phyllis DeSantis

Project Number	Project Name and Location:
Y0323-01	751-785 Brush ST.

Samplers: (Signature)

Sample ID No. Station	Date:	Time:	Media	Containers: No.	Type: SS	Type: 40-ml VOA	Type: L-AG	Type: 250 ml Poly	Type: L-Poly	Preservative: None (Ice)	Preservative: HCl	Preservative: NO_3	Preservative: SO_4	TPH as gasoline	TPH as diesel w/silica gel cleanup	VOC	PAH (8310)	PCBs	cyanide	Title 22 metals + Cr	Remarks/ Composite
-25 ~~BF~~ B-FP3; 7-7.5	2/4/03	8:35	S	1	X					X				X	X	X	X	X	X	X	"Comp FY" -29
-26 B-FP4; 7-7.5	2/4/03	10:45	S	1	X					X											
-27 B-FP2; 7-7.5	2/5/03	10:30	S	1	X					X											
-28 B-FP1; 7-7.5	2/5/03	11:30	S	1	X					X											
-30 B-FP5; 7-7.5	2/4/03	13:20	S	1	X					X				X	X	X	X	X	X	X	"Comp RY" -33
-31 B-FP6; 7-7.5	2/5/03	8:10	S	1	X					X											
-32 B-FP7; 7-7.5	2/5/03	9:30	S	1	X					X											

Preservation Correct? ☒ Yes ☐ No ☐ N/A

Received ☐ ~~On Ice~~ ☐ Cold ☐ Ambient ☒ Intact

Relinquished by: (Signature)	Custody Seal Yes / No	Date/Time	Received by: (Signature)	Custody Seal intact Yes / No / NA	Date/Time	Conditions of Samples Upon Arrival at Laboratory:
	Yes (No)	2-5-03 / 12:20		Yes No NA	12-20 2-5-03	
Relinquished by: (Signature)	Custody Seal Yes / No	Date/Time	Received by: (Signature)	Custody Seal intact Yes / No / NA	Date/Time	Remarks:
Relinquished by: (Signature)	Custody Seal Yes / No	Date/Time	Received by: (Signature)	Custody Seal intact Yes / No / NA	Date/Time	
Received at laboratory with intact custody seal: (Signature)		Date/Time	Comments:			

Graphic/Chain of Custody Record\Master.cdr 5/02

[redacted]

Curtis & Tompkins, Ltd.

Laboratory Number: **163482**
Client: **Baseline**
Project Name: **751-785 Brush St.**

Order Date: **02/05/03**

CASE NARRATIVE

This hardcopy data package contains sample results and batch QC results for three water and thirty-one soil samples received from the above referenced project. The samples were received cold and intact.

Total Volatile Hydrocarbons: No analytical problems were encountered.

Total Extractable Hydrocarbons: No analytical problems were encountered.

Volatile Organic Compounds: No analytical problems were encountered.

Metals (Filtrate): The matrix spike recoveries for thallium were outside acceptance limits. The associated blank spike recoveries were acceptable for all target elements, therefore, there is no affect on the quality of the sample results. No other analytical problems were encountered.

General Chemistry: The soil matrix spike recoveries for hexavalent chromium were outside acceptance limits. The associated laboratory control sample (LCS) recovery was acceptable, therefore, there is no affect on the quality of the sample results. No other analytical problems were encountered.

Metals (Soil), PCBs, Polyaromatic Hydrocarbons: Calscience Environmental Laboratories, Inc. in Garden Grove, California performed the analyses. Please see the Calscience case narrative.

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-01	Analysis:	8015B
Matrix:	Water	Batch#:	79023
Units:	ug/L	Received:	02/05/03
Diln Fac:	1.000	Analyzed:	02/07/03

Field ID: B-FP3 Lab ID: 163482-034
Type: SAMPLE Sampled: 02/04/03

Analyte	Result	RL
Gasoline C7-C12	150 Y Z	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	106	68-145
Bromofluorobenzene (FID)	107	66-143

Field ID: B-FP5 Lab ID: 163482-035
Type: SAMPLE Sampled: 02/05/03

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	104	68-145
Bromofluorobenzene (FID)	111	66-143

Field ID: B-FP4 Lab ID: 163482-036
Type: SAMPLE Sampled: 02/05/03

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	104	68-145
Bromofluorobenzene (FID)	106	66-143

Type: BLANK Lab ID: QC204075

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	68-145
Bromofluorobenzene (FID)	99	66-143

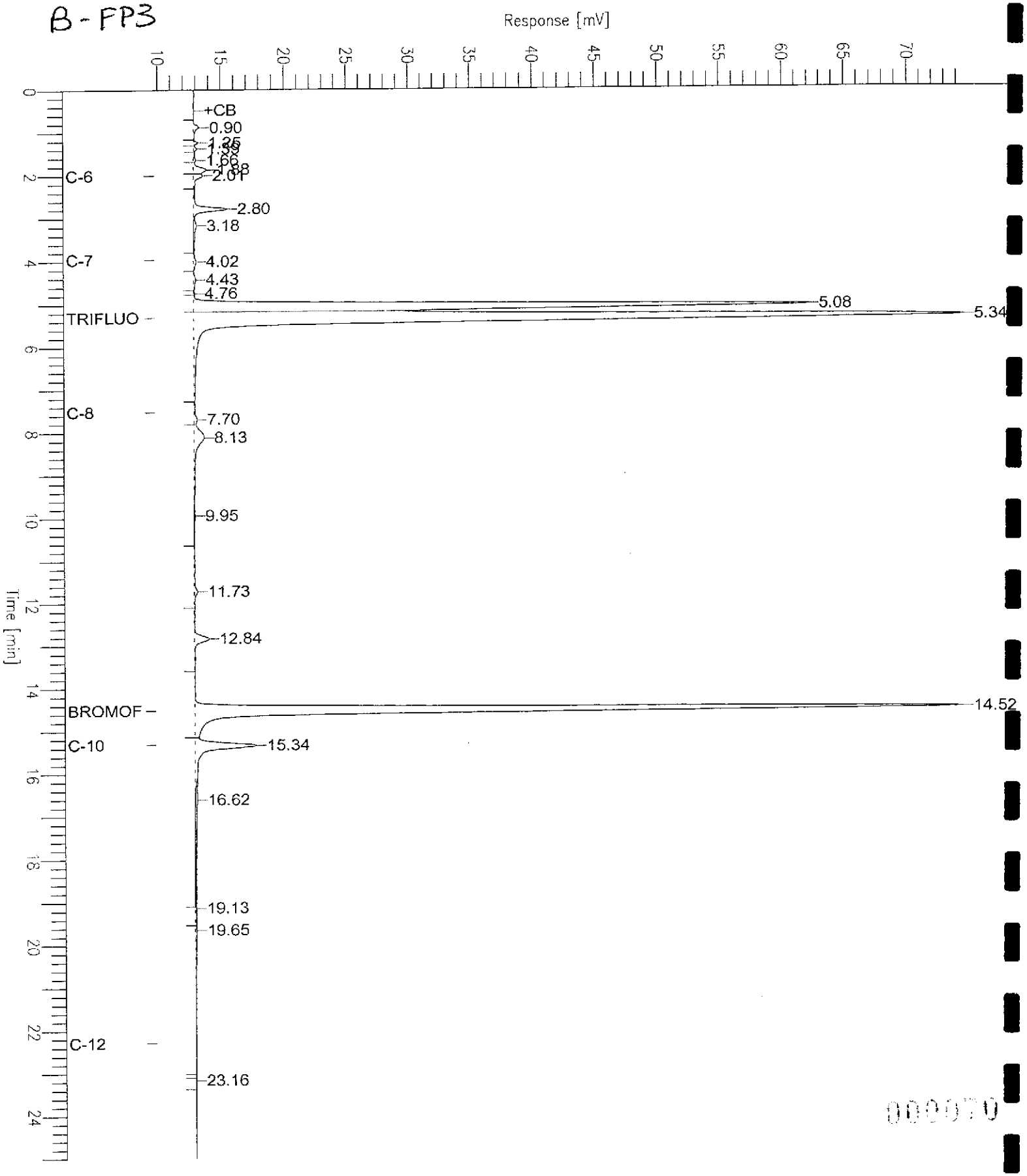
Y= Sample exhibits fuel pattern which does not resemble standard
Z= Sample exhibits unknown single peak or peaks
ND= Not Detected
RL= Reporting Limit

Chromatogram

Sample Name : 163482-034,79023
FileName : G:\GC05\DATA\037G030.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 25.00 min
Scale Factor: 1.0 Plot Offset: 10 mV

Sample #: c7
Date : 2/7/03 05:21 AM
Time of Injection: 2/7/03 04:56 AM
Low Point : 9.73 mV High Point : 74.52 mV
Plot Scale: 64.8 mV

B-FP3



Chromatogram

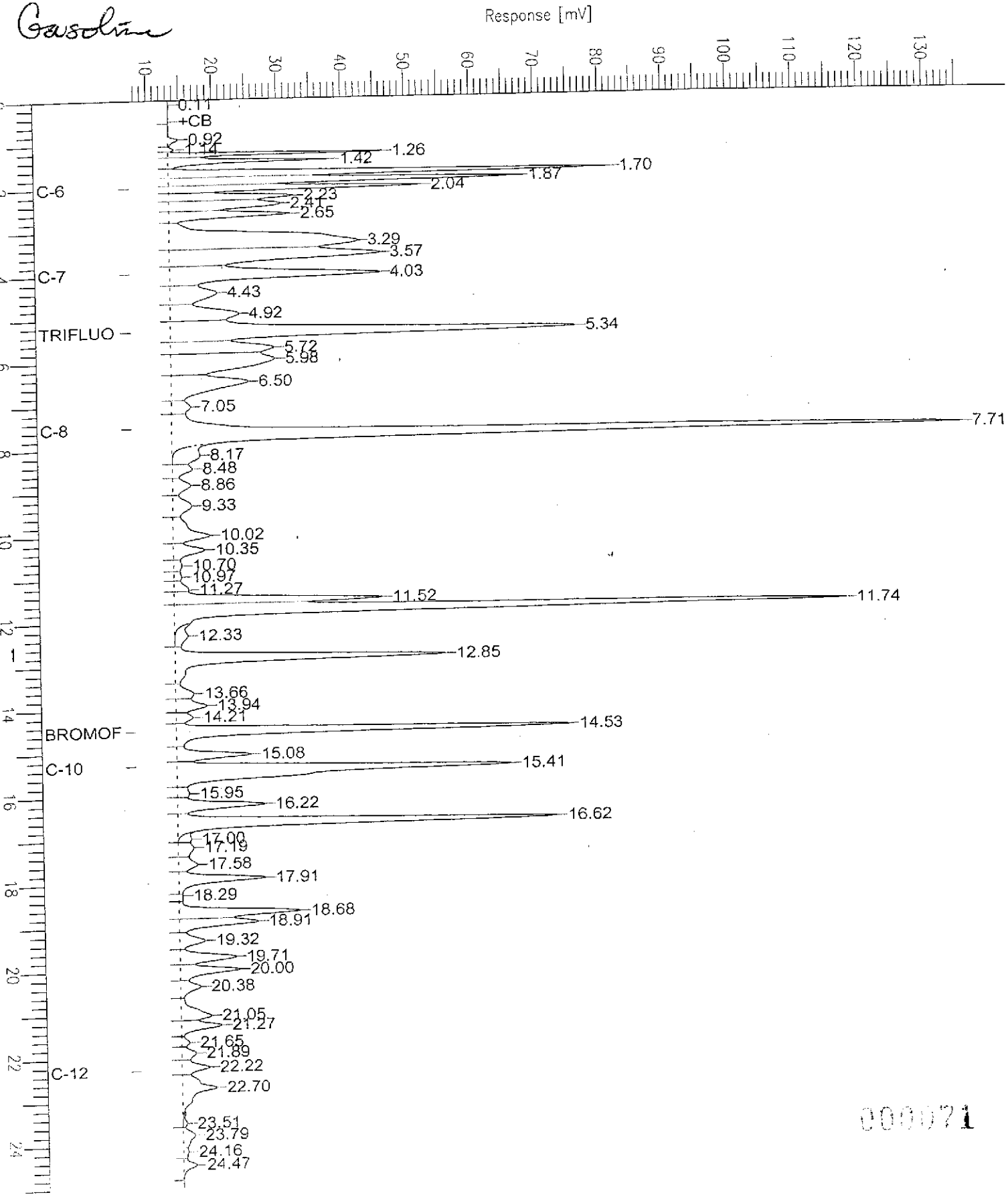
Sample Name : ccv/lcs,qc204076,79023,03ws0130,5/5000
File Name : G:\GC05\DATA\037G023.raw
Method : TVHBTXE
Start Time : 0.00 min
Scale Factor: 1.0

End Time : 25.00 min
Plot Offset: 7 mV

Sample #:
Date : 2/7/03 01:27 AM
Time of Injection: 2/7/03 01:02 AM
Low Point : 7.28 mV
Plot Scale: 128.1 mV

High Point : 135.42 mV

Gasoline



000071

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-01	Analysis:	8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC204076	Batch#:	79023
Matrix:	Water	Analyzed:	02/07/03
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	2,051	103	79-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	121	68-145
Bromofluorobenzene (FID)	106	66-143

7.0

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-01	Analysis:	8015B
Field ID:	ZZZZZZZZZZ	Batch#:	79023
MSS Lab ID:	163430-005	Sampled:	02/03/03
Matrix:	Water	Received:	02/03/03
Units:	ug/L	Analyzed:	02/07/03
Diln Fac:	1.000		

Type: MS Lab ID: QC204077

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	17.02	2,000	2,031	101	67-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	121	68-145
Bromofluorobenzene (FID)	113	66-143

Type: MSD Lab ID: QC204078

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	2,022	100	67-120	0	20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	122	68-145
Bromofluorobenzene (FID)	112	66-143

RPD= Relative Percent Difference

000073

8.0

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Analysis:	8015B
Project#:	Y0323-01		
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	02/05/03
Basis:	as received	Received:	02/05/03

Field ID: B-FP6;2.5
Type: SAMPLE
Lab ID: 163482-002

Batch#: 78963
Analyzed: 02/05/03
Prep: EPA 5035

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	58-144
Bromofluorobenzene (FID)	102	60-146

Field ID: B-FP6;5.5
Type: SAMPLE
Lab ID: 163482-004

Batch#: 78963
Analyzed: 02/05/03
Prep: EPA 5035

Analyte	Result	RL
Gasoline C7-C12	ND	0.18

Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	58-144
Bromofluorobenzene (FID)	108	60-146

Field ID: B-FP7;2.5
Type: SAMPLE
Lab ID: 163482-007

Batch#: 78963
Analyzed: 02/05/03
Prep: EPA 5035

Analyte	Result	RL
Gasoline C7-C12	ND	0.21

Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	58-144
Bromofluorobenzene (FID)	106	60-146

Field ID: B-FP7;5.5
Type: SAMPLE
Lab ID: 163482-010

Batch#: 78963
Analyzed: 02/05/03
Prep: EPA 5035

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	100	58-144
Bromofluorobenzene (FID)	103	60-146

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Analysis:	8015B
Project#:	Y0323-01		
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	02/05/03
Basis:	as received	Received:	02/05/03

Field ID: B-FP-2;2.5
Type: SAMPLE
Lab ID: 163482-013
Batch#: 78963
Analyzed: 02/05/03
Prep: EPA 5035

Analyte	Result	RL
Gasoline C7-C12	ND	0.19

Surrogate	%REC	Limits
Trifluorotoluene (FID)	103	58-144
Bromofluorobenzene (FID)	107	60-146

Field ID: B-FP2;5.5
Type: SAMPLE
Lab ID: 163482-015
Batch#: 78963
Analyzed: 02/05/03
Prep: EPA 5035

Analyte	Result	RL
Gasoline C7-C12	ND	0.19

Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	58-144
Bromofluorobenzene (FID)	103	60-146

Field ID: B-FP1;2.5
Type: SAMPLE
Lab ID: 163482-019
Batch#: 78963
Analyzed: 02/05/03
Prep: EPA 5035

Analyte	Result	RL
Gasoline C7-C12	ND	0.19

Surrogate	%REC	Limits
Trifluorotoluene (FID)	101	58-144
Bromofluorobenzene (FID)	105	60-146

Field ID: B-FP1;5.5
Type: SAMPLE
Lab ID: 163482-021
Batch#: 78963
Analyzed: 02/05/03
Prep: EPA 5035

Analyte	Result	RL
Gasoline C7-C12	ND	0.16

Surrogate	%REC	Limits
Trifluorotoluene (FID)	101	58-144
Bromofluorobenzene (FID)	107	60-146

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Analysis:	8015B
Project#:	Y0323-01		
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	02/05/03
Basis:	as received	Received:	02/05/03

Field ID:	COMP FY	Batch#:	79000
Type:	SAMPLE	Analyzed:	02/06/03
Lab ID:	163482-029	Prep:	EPA 5030B

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	58-144
Bromofluorobenzene (FID)	99	60-146

Field ID:	COMP RY	Batch#:	79000
Type:	SAMPLE	Analyzed:	02/06/03
Lab ID:	163482-033	Prep:	EPA 5030B

Analyte	Result	RL
Gasoline C7-C12	ND	0.98

Surrogate	%REC	Limits
Trifluorotoluene (FID)	101	58-144
Bromofluorobenzene (FID)	100	60-146

Type:	BLANK	Analyzed:	02/05/03
Lab ID:	QC203851	Prep:	EPA 5035
Batch#:	78963		

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	58-144
Bromofluorobenzene (FID)	98	60-146

Type:	BLANK	Analyzed:	02/06/03
Lab ID:	QC203999	Prep:	EPA 5035
Batch#:	79000		

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	58-144
Bromofluorobenzene (FID)	103	60-146

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	8015B
Type:	LCS	Basis:	as received
Lab ID:	QC203852	Diln Fac:	1.000
Matrix:	Soil	Batch#:	78963
Units:	mg/Kg	Analyzed:	02/05/03

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	5.000	5.520	110	78-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	115	58-144
Bromofluorobenzene (FID)	108	60-146

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	8015B
Type:	LCS	Basis:	as received
Lab ID:	QC204000	Diln Fac:	1.000
Matrix:	Soil	Batch#:	79000
Units:	mg/Kg	Analyzed:	02/06/03

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	5.000	5.277	106	78-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	113	58-144
Bromofluorobenzene (FID)	106	60-146

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	8015B
Field ID:	B-FP4;5-5.5	Diln Fac:	1.000
MSS Lab ID:	163466-010	Batch#:	78963
Matrix:	Soil	Sampled:	02/04/03
Units:	mg/Kg	Received:	02/04/03
Basis:	as received	Analyzed:	02/05/03

Type: MS Lab ID: QC203886

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.1089	10.64	10.93	102	44-133

Surrogate	%REC	Limits
Trifluorotoluene (FID)	122	58-144
Bromofluorobenzene (FID)	110	60-146

Type: MSD Lab ID: QC203887

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.42	10.78	102	44-133	1	31

Surrogate	%REC	Limits
Trifluorotoluene (FID)	123	58-144
Bromofluorobenzene (FID)	112	60-146

RPD= Relative Percent Difference

000079 34.0

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	8015B
Field ID:	COMP FY	Diln Fac:	1.000
MSS Lab ID:	163482-029	Batch#:	79000
Matrix:	Soil	Sampled:	02/05/03
Units:	mg/Kg	Received:	02/05/03
Basis:	as received	Analyzed:	02/06/03

Type: MS Lab ID: QC204031

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.1261	10.42	11.03	105	44-133

Surrogate	%REC	Limits
Trifluorotoluene (FID)	123	58-144
Bromofluorobenzene (FID)	110	60-146

Type: MSD Lab ID: QC204032

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.00	10.54	104	44-133	1	31

Surrogate	%REC	Limits
Trifluorotoluene (FID)	124	58-144
Bromofluorobenzene (FID)	108	60-146

RPD= Relative Percent Difference

000060

36.0

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 3520C
Project#:	Y0323-01	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	79041
Units:	ug/L	Received:	02/05/03
Diln Fac:	1.000	Prepared:	02/07/03

Field ID: B-FP3
Type: SAMPLE
Lab ID: 163482-034
Sampled: 02/04/03
Analyzed: 02/11/03
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	50

Surrogate	%REC	Limits
Hexacosane	87	39-137

Field ID: B-FP5
Type: SAMPLE
Lab ID: 163482-035
Sampled: 02/05/03
Analyzed: 02/11/03
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	50

Surrogate	%REC	Limits
Hexacosane	87	39-137

Field ID: B-FP4
Type: SAMPLE
Lab ID: 163482-036
Sampled: 02/05/03
Analyzed: 02/11/03
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	50

Surrogate	%REC	Limits
Hexacosane	91	39-137

Type: BLANK
Lab ID: QC204140
Analyzed: 02/12/03
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	50

Surrogate	%REC	Limits
Hexacosane	90	39-137

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 3520C
Project#:	Y0323-01	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	79041
Units:	ug/L	Prepared:	02/07/03
Diln Fac:	1.000	Analyzed:	02/12/03

Type: BS
Lab ID: QC204141
Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	1,675	67	37-120

Surrogate	%REC	Limits
Hexacosane	75	39-137

Type: BSD
Lab ID: QC204142
Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	1,908	76	37-120	13	26

Surrogate	%REC	Limits
Hexacosane	83	39-137

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	SHAKER TABLE
Project#:	Y0323-01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	02/05/03
Basis:	as received	Received:	02/05/03

Field ID: B-FP-6;2-2.5
Type: SAMPLE
Lab ID: 163482-001
Batch#: 79146

Prepared: 02/12/03
Analyzed: 02/13/03
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	1.0

Surrogate	%REC	Limits
Hexacosane	77	48-137

Field ID: B-FP6;5-5.5
Type: SAMPLE
Lab ID: 163482-003
Batch#: 79146

Prepared: 02/12/03
Analyzed: 02/13/03
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	1.0

Surrogate	%REC	Limits
Hexacosane	118	48-137

Field ID: B-FP7;2.5-3.0
Type: SAMPLE
Lab ID: 163482-008
Batch#: 79146

Prepared: 02/12/03
Analyzed: 02/13/03
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	3.6 H Y	1.0

Surrogate	%REC	Limits
Hexacosane	99	48-137

Field ID: B-FP7;5-5.5
Type: SAMPLE
Lab ID: 163482-009
Batch#: 79054

Prepared: 02/08/03
Analyzed: 02/10/03
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	1.0

Surrogate	%REC	Limits
Hexacosane	96	48-137

H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits fuel pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

000083

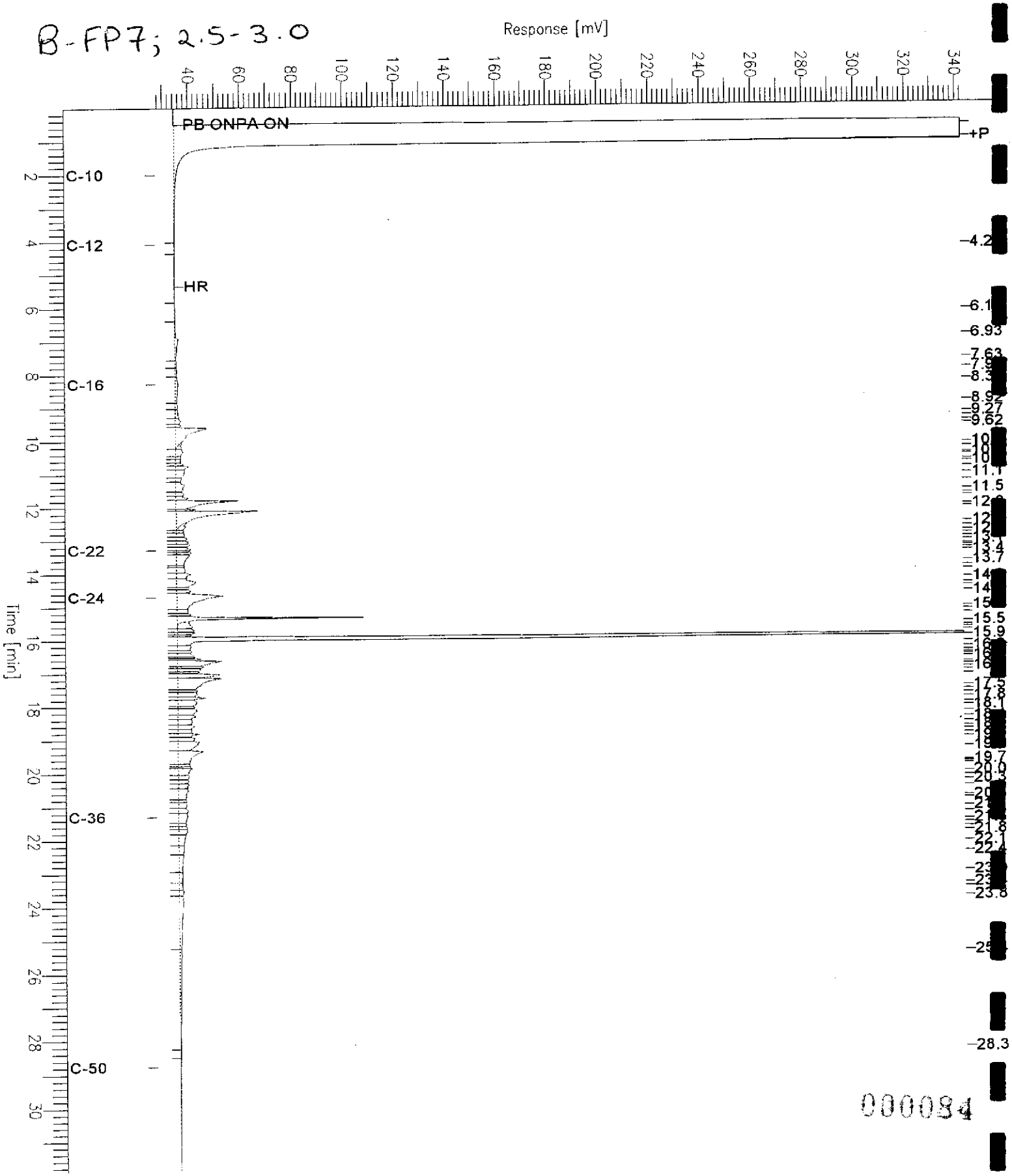
62.0

Chromatogram

Sample Name : 163482-008sg,79146
FileName : G:\GC15\CHB\043B011.RAW
Method : BTEH037.MTH
Start Time : 0.01 min End Time : 31.91 min
Scale Factor: 0.0 Plot Offset: 27 mV

Sample #: 79146 Page 1 of 1
Date : 2/13/03 09:43 AM
Time of Injection: 2/13/03 02:40 AM
Low Point : 27.13 mV High Point : 342.06 mV
Plot Scale: 314.9 mV

B-FP7; 2.5-3.0



000094

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	SHAKER TABLE
Project#:	Y0323-01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	02/05/03
Basis:	as received	Received:	02/05/03

Field ID:	B-FP2;2.5-3.0	Prepared:	02/08/03
Type:	SAMPLE	Analyzed:	02/10/03
Lab ID:	163482-014	Cleanup Method:	EPA 3630C
Batch#:	79054		

Analyte	Result	RL
Diesel C10-C24	ND	1.0

Surrogate	%REC	Limits
Hexacosane	75	48-137

Field ID:	B-FP2;5.5-6.0	Prepared:	02/08/03
Type:	SAMPLE	Analyzed:	02/10/03
Lab ID:	163482-016	Cleanup Method:	EPA 3630C
Batch#:	79054		

Analyte	Result	RL
Diesel C10-C24	ND	1.0

Surrogate	%REC	Limits
Hexacosane	66	48-137

Field ID:	B-FP1;2.5-3.0	Prepared:	02/08/03
Type:	SAMPLE	Analyzed:	02/12/03
Lab ID:	163482-020	Cleanup Method:	EPA 3630C
Batch#:	79054		

Analyte	Result	RL
Diesel C10-C24	ND	1.0

Surrogate	%REC	Limits
Hexacosane	95	48-137

Field ID:	B-FP1;5.5-6.0	Prepared:	02/08/03
Type:	SAMPLE	Analyzed:	02/10/03
Lab ID:	163482-022	Cleanup Method:	EPA 3630C
Batch#:	79054		

Analyte	Result	RL
Diesel C10-C24	ND	1.0

Surrogate	%REC	Limits
Hexacosane	109	48-137

H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits fuel pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	SHAKER TABLE
Project#:	Y0323-01	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	02/05/03
Basis:	as received	Received:	02/05/03

Field ID:	COMP FY	Prepared:	02/08/03
Type:	SAMPLE	Analyzed:	02/10/03
Lab ID:	163482-029	Cleanup Method:	EPA 3630C
Batch#:	79054		

Analyte	Result	RL
Diesel C10-C24	ND	1.0

Surrogate	%REC	Limits
Hexacosane	100	48-137

Field ID:	COMP RY	Prepared:	02/08/03
Type:	SAMPLE	Analyzed:	02/10/03
Lab ID:	163482-033	Cleanup Method:	EPA 3630C
Batch#:	79054		

Analyte	Result	RL
Diesel C10-C24	ND	1.0

Surrogate	%REC	Limits
Hexacosane	116	48-137

Type:	BLANK	Prepared:	02/08/03
Lab ID:	QC204206	Analyzed:	02/11/03
Batch#:	79054	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	1.0

Surrogate	%REC	Limits
Hexacosane	98	48-137

Type:	BLANK	Prepared:	02/12/03
Lab ID:	QC204539	Analyzed:	02/13/03
Batch#:	79146	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	1.0

Surrogate	%REC	Limits
Hexacosane	102	48-137

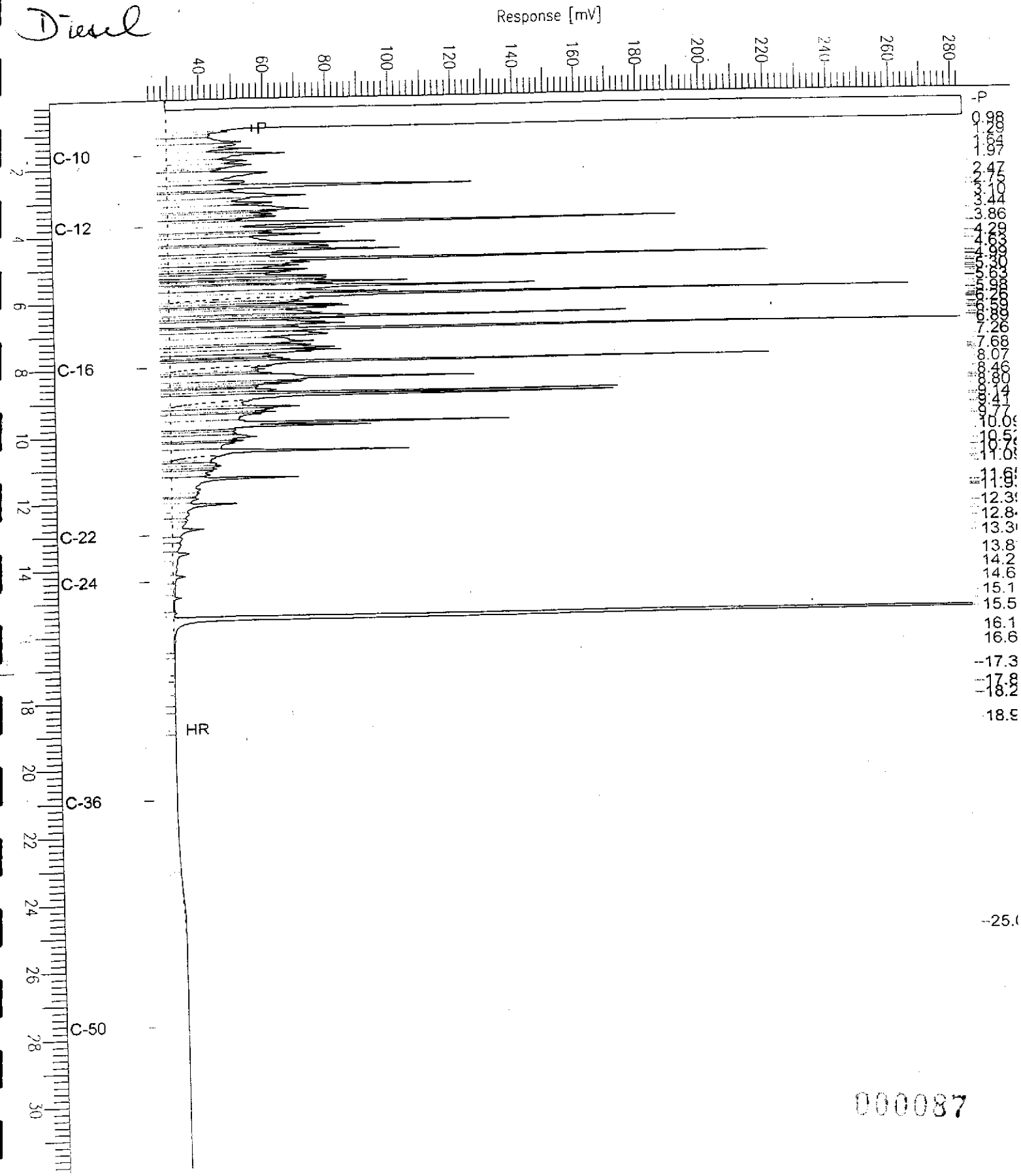
H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits fuel pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Chromatogram

Sample Name : ccv,02ws2069,dsl
FileName : G:\GC11\CHA\040A002.RAW
Method : ATEH036.MTH
Start Time : 0.01 min End Time : 31.91 min
Scale Factor: 0.0 Plot Offset: 22 mV

Sample #: 500mg/L
Date : 2/9/03 05:07 PM
Time of Injection: 2/9/03 03:18 PM
Low Point : 22.13 mV High Point : 283.63 mV
Plot Scale: 261.5 mV

Diesel



Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	SHAKER TABLE
Project#:	Y0323-01	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC204207	Batch#:	79054
Matrix:	Soil	Prepared:	02/08/03
Units:	mg/Kg	Analyzed:	02/11/03
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	50.12	37.85	76	56-121

Surrogate	%REC	Limits
Hexacosane	77	48-137

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	SHAKER TABLE
Project#:	Y0323-01	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC204540	Batch#:	79146
Matrix:	Soil	Prepared:	02/12/03
Units:	mg/Kg	Analyzed:	02/13/03
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.81	45.50	91	56-121

Surrogate	%REC	Limits
Hexacosane	97	48-137

000089

63.0

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	SHAKER TABLE
Project#:	Y0323-01	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	79146
MSS Lab ID:	163538-005	Sampled:	02/07/03
Matrix:	Soil	Received:	02/07/03
Units:	mg/Kg	Prepared:	02/12/03
Basis:	as received	Analyzed:	02/13/03
Diln Fac:	1.000		

Type: MS Lab ID: QC204541

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	2.913	50.02	45.24	85	37-128

Surrogate	%REC	Limits
Hexacosane	100	48-137

Type: MSD Lab ID: QC204542

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	49.85	46.09	87	37-128	2	37

Surrogate	%REC	Limits
Hexacosane	101	48-137

RPD= Relative Percent Difference

65.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-01	Analysis:	EPA 8260B
Field ID:	B-FP5	Batch#:	78985
Lab ID:	163482-035	Sampled:	02/05/03
Matrix:	Water	Received:	02/05/03
Units:	ug/L	Analyzed:	02/06/03
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	42	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-01	Analysis:	EPA 8260B
Field ID:	B-FP5	Batch#:	78985
Lab ID:	163482-035	Sampled:	02/05/03
Matrix:	Water	Received:	02/05/03
Units:	ug/L	Analyzed:	02/06/03
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	116	80-121
1,2-Dichloroethane-d4	107	77-130
Toluene-d8	96	80-120
Bromofluorobenzene	94	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-01	Analysis:	EPA 8260B
Field ID:	B-FP4	Batch#:	78985
Lab ID:	163482-036	Sampled:	02/05/03
Matrix:	Water	Received:	02/05/03
Units:	ug/L	Analyzed:	02/06/03
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	21	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-01	Analysis:	EPA 8260B
Field ID:	B-FP4	Batch#:	78985
Lab ID:	163482-036	Sampled:	02/05/03
Matrix:	Water	Received:	02/05/03
Units:	ug/L	Analyzed:	02/06/03
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	114	80-121
1,2-Dichloroethane-d4	107	77-130
Toluene-d8	95	80-120
Bromofluorobenzene	93	80-120

ND= Not Detected
RL= Reporting Limit

000094 10.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-01	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC203942	Batch#:	78985
Matrix:	Water	Analyzed:	02/06/03
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-01	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC203942	Batch#:	78985
Matrix:	Water	Analyzed:	02/06/03
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	109	80-121
1,2-Dichloroethane-d4	105	77-130
Toluene-d8	97	80-120
Bromofluorobenzene	93	80-120

ND= Not Detected
RL= Reporting Limit

000096 12.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-01	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	78985
Units:	ug/L	Analyzed:	02/06/03
Diln Fac:	1.000		

Type: BS Lab ID: QC203939

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	49.05	98	71-131
Benzene	50.00	47.78	96	76-120
Trichloroethene	50.00	47.55	95	78-120
Toluene	50.00	47.32	95	79-120
Chlorobenzene	50.00	48.91	98	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-121
1,2-Dichloroethane-d4	101	77-130
Toluene-d8	96	80-120
Bromofluorobenzene	86	80-120

Type: BSD Lab ID: QC203940

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	50.00	47.76	96	71-131	3	20
Benzene	50.00	45.56	91	76-120	5	20
Trichloroethene	50.00	45.91	92	78-120	4	20
Toluene	50.00	45.99	92	79-120	3	20
Chlorobenzene	50.00	48.06	96	80-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	109	80-121
1,2-Dichloroethane-d4	100	77-130
Toluene-d8	93	80-120
Bromofluorobenzene	88	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	EPA 8260B
Field ID:	B-FP6;2.5	Diln Fac:	0.9615
Lab ID:	163482-002	Batch#:	78961
Matrix:	Soil	Sampled:	02/05/03
Units:	ug/Kg	Received:	02/05/03
Basis:	as received	Analyzed:	02/05/03

Analyte	Result	RL
Freon 12	ND	9.6
Chloromethane	ND	9.6
Vinyl Chloride	ND	9.6
Bromomethane	ND	9.6
Chloroethane	ND	9.6
Trichlorofluoromethane	ND	4.8
Acetone	ND	19
Freon 113	ND	4.8
1,1-Dichloroethene	ND	4.8
Methylene Chloride	ND	19
Carbon Disulfide	ND	4.8
MTBE	ND	4.8
trans-1,2-Dichloroethene	ND	4.8
Vinyl Acetate	ND	48
1,1-Dichloroethane	ND	4.8
2-Butanone	ND	9.6
cis-1,2-Dichloroethene	ND	4.8
2,2-Dichloropropane	ND	4.8
Chloroform	ND	4.8
Bromochloromethane	ND	4.8
1,1,1-Trichloroethane	ND	4.8
1,1-Dichloropropene	ND	4.8
Carbon Tetrachloride	ND	4.8
1,2-Dichloroethane	ND	4.8
Benzene	ND	4.8
Trichloroethene	ND	4.8
1,2-Dichloropropane	ND	4.8
Bromodichloromethane	ND	4.8
Dibromomethane	ND	4.8
4-Methyl-2-Pentanone	ND	9.6
cis-1,3-Dichloropropene	ND	4.8
Toluene	ND	4.8
trans-1,3-Dichloropropene	ND	4.8
1,1,2-Trichloroethane	ND	4.8
2-Hexanone	ND	9.6
1,3-Dichloropropane	ND	4.8
Tetrachloroethene	ND	4.8

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	EPA 8260B
Field ID:	B-FP6;2.5	Diln Fac:	0.9615
Lab ID:	163482-002	Batch#:	78961
Matrix:	Soil	Sampled:	02/05/03
Units:	ug/Kg	Received:	02/05/03
Basis:	as received	Analyzed:	02/05/03

Analyte	Result	RL
Dibromochloromethane	ND	4.8
1,2-Dibromoethane	ND	4.8
Chlorobenzene	ND	4.8
1,1,1,2-Tetrachloroethane	ND	4.8
Ethylbenzene	ND	4.8
m,p-Xylenes	ND	4.8
o-Xylene	ND	4.8
Styrene	ND	4.8
Bromoform	ND	4.8
Isopropylbenzene	ND	4.8
1,1,2,2-Tetrachloroethane	ND	4.8
1,2,3-Trichloropropane	ND	4.8
Propylbenzene	ND	4.8
Bromobenzene	ND	4.8
1,3,5-Trimethylbenzene	ND	4.8
2-Chlorotoluene	ND	4.8
4-Chlorotoluene	ND	4.8
tert-Butylbenzene	ND	4.8
1,2,4-Trimethylbenzene	ND	4.8
sec-Butylbenzene	ND	4.8
para-Isopropyl Toluene	ND	4.8
1,3-Dichlorobenzene	ND	4.8
1,4-Dichlorobenzene	ND	4.8
n-Butylbenzene	ND	4.8
1,2-Dichlorobenzene	ND	4.8
1,2-Dibromo-3-Chloropropane	ND	4.8
1,2,4-Trichlorobenzene	ND	4.8
Hexachlorobutadiene	ND	4.8
Naphthalene	ND	4.8
1,2,3-Trichlorobenzene	ND	4.8

Surrogate	%REC	Limits
Dibromofluoromethane	103	74-124
1,2-Dichloroethane-d4	114	75-128
Toluene-d8	100	80-111
Bromofluorobenzene	106	75-127

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	EPA 8260B
Field ID:	B-FP6;5.5	Diln Fac:	0.8772
Lab ID:	163482-004	Batch#:	78961
Matrix:	Soil	Sampled:	02/05/03
Units:	ug/Kg	Received:	02/05/03
Basis:	as received	Analyzed:	02/05/03

Analyte	Result	RL
Freon 12	ND	8.8
Chloromethane	ND	8.8
Vinyl Chloride	ND	8.8
Bromomethane	ND	8.8
Chloroethane	ND	8.8
Trichlorofluoromethane	ND	4.4
Acetone	ND	18
Freon 113	ND	4.4
1,1-Dichloroethene	ND	4.4
Methylene Chloride	ND	18
Carbon Disulfide	ND	4.4
MTBE	ND	4.4
trans-1,2-Dichloroethene	ND	4.4
Vinyl Acetate	ND	44
1,1-Dichloroethane	ND	4.4
2-Butanone	ND	8.8
cis-1,2-Dichloroethene	ND	4.4
2,2-Dichloropropane	ND	4.4
Chloroform	ND	4.4
Bromochloromethane	ND	4.4
1,1,1-Trichloroethane	5.0	4.4
1,1-Dichloropropene	ND	4.4
Carbon Tetrachloride	ND	4.4
1,2-Dichloroethane	ND	4.4
Benzene	ND	4.4
Trichloroethene	ND	4.4
1,2-Dichloropropane	ND	4.4
Bromodichloromethane	ND	4.4
Dibromomethane	ND	4.4
4-Methyl-2-Pentanone	ND	8.8
cis-1,3-Dichloropropene	ND	4.4
Toluene	ND	4.4
trans-1,3-Dichloropropene	ND	4.4
1,1,2-Trichloroethane	ND	4.4
2-Hexanone	ND	8.8
1,3-Dichloropropane	ND	4.4
Tetrachloroethene	ND	4.4

ND= Not Detected
RL= Reporting Limit

000100 17.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	EPA 8260B
Field ID:	B-FP6;5.5	Diln Fac:	0.8772
Lab ID:	163482-004	Batch#:	78961
Matrix:	Soil	Sampled:	02/05/03
Units:	ug/Kg	Received:	02/05/03
Basis:	as received	Analyzed:	02/05/03

Analyte	Result	RL
Dibromochloromethane	ND	4.4
1,2-Dibromoethane	ND	4.4
Chlorobenzene	ND	4.4
1,1,1,2-Tetrachloroethane	ND	4.4
Ethylbenzene	ND	4.4
m,p-Xylenes	ND	4.4
o-Xylene	ND	4.4
Styrene	ND	4.4
Bromoform	ND	4.4
Isopropylbenzene	ND	4.4
1,1,2,2-Tetrachloroethane	ND	4.4
1,2,3-Trichloropropane	ND	4.4
Propylbenzene	ND	4.4
Bromobenzene	ND	4.4
1,3,5-Trimethylbenzene	ND	4.4
2-Chlorotoluene	ND	4.4
4-Chlorotoluene	ND	4.4
tert-Butylbenzene	ND	4.4
1,2,4-Trimethylbenzene	ND	4.4
sec-Butylbenzene	ND	4.4
para-Isopropyl Toluene	ND	4.4
1,3-Dichlorobenzene	ND	4.4
1,4-Dichlorobenzene	ND	4.4
n-Butylbenzene	ND	4.4
1,2-Dichlorobenzene	ND	4.4
1,2-Dibromo-3-Chloropropane	ND	4.4
1,2,4-Trichlorobenzene	ND	4.4
Hexachlorobutadiene	ND	4.4
Naphthalene	ND	4.4
1,2,3-Trichlorobenzene	ND	4.4

Surrogate	%REC	Limits
Dibromofluoromethane	106	74-124
1,2-Dichloroethane-d4	114	75-128
Toluene-d8	102	80-111
Bromofluorobenzene	106	75-127

ND= Not Detected
RL= Reporting Limit

000101 17.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	EPA 8260B
Field ID:	B-FP7;2.5	Diln Fac:	0.9434
Lab ID:	163482-007	Batch#:	78961
Matrix:	Soil	Sampled:	02/05/03
Units:	ug/Kg	Received:	02/05/03
Basis:	as received	Analyzed:	02/05/03

Analyte	Result	RL
Freon 12	ND	9.4
Chloromethane	ND	9.4
Vinyl Chloride	ND	9.4
Bromomethane	ND	9.4
Chloroethane	ND	9.4
Trichlorofluoromethane	ND	4.7
Acetone	ND	19
Freon 113	ND	4.7
1,1-Dichloroethene	ND	4.7
Methylene Chloride	ND	19
Carbon Disulfide	ND	4.7
MTBE	ND	4.7
trans-1,2-Dichloroethene	ND	4.7
Vinyl Acetate	ND	47
1,1-Dichloroethane	ND	4.7
2-Butanone	ND	9.4
cis-1,2-Dichloroethene	ND	4.7
2,2-Dichloropropane	ND	4.7
Chloroform	ND	4.7
Bromochloromethane	ND	4.7
1,1,1-Trichloroethane	ND	4.7
1,1-Dichloropropene	ND	4.7
Carbon Tetrachloride	ND	4.7
1,2-Dichloroethane	ND	4.7
Benzene	ND	4.7
Trichloroethene	ND	4.7
1,2-Dichloropropane	ND	4.7
Bromodichloromethane	ND	4.7
Dibromomethane	ND	4.7
4-Methyl-2-Pentanone	ND	9.4
cis-1,3-Dichloropropene	ND	4.7
Toluene	ND	4.7
trans-1,3-Dichloropropene	ND	4.7
1,1,2-Trichloroethane	ND	4.7
2-Hexanone	ND	9.4
1,3-Dichloropropane	ND	4.7
Tetrachloroethene	ND	4.7

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	EPA 8260B
Field ID:	B-FP7;2.5	Diln Fac:	0.9434
Lab ID:	163482-007	Batch#:	78961
Matrix:	Soil	Sampled:	02/05/03
Units:	ug/Kg	Received:	02/05/03
Basis:	as received	Analyzed:	02/05/03

Analyte	Result	RL
Dibromochloromethane	ND	4.7
1,2-Dibromoethane	ND	4.7
Chlorobenzene	ND	4.7
1,1,1,2-Tetrachloroethane	ND	4.7
Ethylbenzene	ND	4.7
m,p-Xylenes	ND	4.7
o-Xylene	ND	4.7
Styrene	ND	4.7
Bromoform	ND	4.7
Isopropylbenzene	ND	4.7
1,1,2,2-Tetrachloroethane	ND	4.7
1,2,3-Trichloropropane	ND	4.7
Propylbenzene	ND	4.7
Bromobenzene	ND	4.7
1,3,5-Trimethylbenzene	ND	4.7
2-Chlorotoluene	ND	4.7
4-Chlorotoluene	ND	4.7
tert-Butylbenzene	ND	4.7
1,2,4-Trimethylbenzene	ND	4.7
sec-Butylbenzene	ND	4.7
para-Isopropyl Toluene	ND	4.7
1,3-Dichlorobenzene	ND	4.7
1,4-Dichlorobenzene	ND	4.7
n-Butylbenzene	ND	4.7
1,2-Dichlorobenzene	ND	4.7
1,2-Dibromo-3-Chloropropane	ND	4.7
1,2,4-Trichlorobenzene	ND	4.7
Hexachlorobutadiene	ND	4.7
Naphthalene	ND	4.7
1,2,3-Trichlorobenzene	ND	4.7

Surrogate	%REC	Limits
Dibromofluoromethane	108	74-124
1,2-Dichloroethane-d4	111	75-128
Toluene-d8	100	80-111
Bromofluorobenzene	109	75-127

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	EPA 8260B
Field ID:	B-FP7;5.5	Diln Fac:	0.8929
Lab ID:	163482-010	Batch#:	78961
Matrix:	Soil	Sampled:	02/05/03
Units:	ug/Kg	Received:	02/05/03
Basis:	as received	Analyzed:	02/05/03

Analyte	Result	RL
Freon 12	ND	8.9
Chloromethane	ND	8.9
Vinyl Chloride	ND	8.9
Bromomethane	ND	8.9
Chloroethane	ND	8.9
Trichlorofluoromethane	ND	4.5
Acetone	ND	18
Freon 113	ND	4.5
1,1-Dichloroethene	ND	4.5
Methylene Chloride	ND	18
Carbon Disulfide	ND	4.5
MTBE	ND	4.5
trans-1,2-Dichloroethene	ND	4.5
Vinyl Acetate	ND	45
1,1-Dichloroethane	ND	4.5
2-Butanone	ND	8.9
cis-1,2-Dichloroethene	ND	4.5
2,2-Dichloropropane	ND	4.5
Chloroform	ND	4.5
Bromochloromethane	ND	4.5
1,1,1-Trichloroethane	ND	4.5
1,1-Dichloropropene	ND	4.5
Carbon Tetrachloride	ND	4.5
1,2-Dichloroethane	ND	4.5
Benzene	ND	4.5
Trichloroethene	ND	4.5
1,2-Dichloropropane	ND	4.5
Bromodichloromethane	ND	4.5
Dibromomethane	ND	4.5
4-Methyl-2-Pentanone	ND	8.9
cis-1,3-Dichloropropene	ND	4.5
Toluene	ND	4.5
trans-1,3-Dichloropropene	ND	4.5
1,1,2-Trichloroethane	ND	4.5
2-Hexanone	ND	8.9
1,3-Dichloropropane	ND	4.5
Tetrachloroethene	ND	4.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	EPA 8260B
Field ID:	B-FP7;5.5	Diln Fac:	0.8929
Lab ID:	163482-010	Batch#:	78961
Matrix:	Soil	Sampled:	02/05/03
Units:	ug/Kg	Received:	02/05/03
Basis:	as received	Analyzed:	02/05/03

Analyte	Result	RL
Dibromochloromethane	ND	4.5
1,2-Dibromoethane	ND	4.5
Chlorobenzene	ND	4.5
1,1,1,2-Tetrachloroethane	ND	4.5
Ethylbenzene	ND	4.5
m,p-Xylenes	ND	4.5
o-Xylene	ND	4.5
Styrene	ND	4.5
Bromoform	ND	4.5
Isopropylbenzene	ND	4.5
1,1,2,2-Tetrachloroethane	ND	4.5
1,2,3-Trichloropropane	ND	4.5
Propylbenzene	ND	4.5
Bromobenzene	ND	4.5
1,3,5-Trimethylbenzene	ND	4.5
2-Chlorotoluene	ND	4.5
4-Chlorotoluene	ND	4.5
tert-Butylbenzene	ND	4.5
1,2,4-Trimethylbenzene	ND	4.5
sec-Butylbenzene	ND	4.5
para-Isopropyl Toluene	ND	4.5
1,3-Dichlorobenzene	ND	4.5
1,4-Dichlorobenzene	ND	4.5
n-Butylbenzene	ND	4.5
1,2-Dichlorobenzene	ND	4.5
1,2-Dibromo-3-Chloropropane	ND	4.5
1,2,4-Trichlorobenzene	ND	4.5
Hexachlorobutadiene	ND	4.5
Naphthalene	ND	4.5
1,2,3-Trichlorobenzene	ND	4.5

Surrogate	%REC	Limits
Dibromofluoromethane	108	74-124
1,2-Dichloroethane-d4	118	75-128
Toluene-d8	99	80-111
Bromofluorobenzene	106	75-127

ND= Not Detected
RL= Reporting Limit

000105 19.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	EPA 8260B
Field ID:	B-FP-2;2.5	Diln Fac:	0.9434
Lab ID:	163482-013	Batch#:	78961
Matrix:	Soil	Sampled:	02/05/03
Units:	ug/Kg	Received:	02/05/03
Basis:	as received	Analyzed:	02/05/03

Analyte	Result	RL
Freon 12	ND	9.4
Chloromethane	ND	9.4
Vinyl Chloride	ND	9.4
Bromomethane	ND	9.4
Chloroethane	ND	9.4
Trichlorofluoromethane	ND	4.7
Acetone	ND	19
Freon 113	ND	4.7
1,1-Dichloroethene	ND	4.7
Methylene Chloride	ND	19
Carbon Disulfide	ND	4.7
MTBE	ND	4.7
trans-1,2-Dichloroethene	ND	4.7
Vinyl Acetate	ND	47
1,1-Dichloroethane	ND	4.7
2-Butanone	ND	9.4
cis-1,2-Dichloroethene	ND	4.7
2,2-Dichloropropane	ND	4.7
Chloroform	ND	4.7
Bromochloromethane	ND	4.7
1,1,1-Trichloroethane	ND	4.7
1,1-Dichloropropene	ND	4.7
Carbon Tetrachloride	ND	4.7
1,2-Dichloroethane	ND	4.7
Benzene	ND	4.7
Trichloroethene	ND	4.7
1,2-Dichloropropane	ND	4.7
Bromodichloromethane	ND	4.7
Dibromomethane	ND	4.7
4-Methyl-2-Pentanone	ND	9.4
cis-1,3-Dichloropropene	ND	4.7
Toluene	ND	4.7
trans-1,3-Dichloropropene	ND	4.7
1,1,2-Trichloroethane	ND	4.7
2-Hexanone	ND	9.4
1,3-Dichloropropane	ND	4.7
Tetrachloroethene	ND	4.7

ND= Not Detected
RL= Reporting Limit

Purgeable Organics by GC/MS

Curtis & Tompkins, Ltd.

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	EPA 8260B
Field ID:	B-FP-2;2.5	Diln Fac:	0.9434
Lab ID:	163482-013	Batch#:	78961
Matrix:	Soil	Sampled:	02/05/03
Units:	ug/Kg	Received:	02/05/03
Basis:	as received	Analyzed:	02/05/03

Analyte	Result	RL
Dibromochloromethane	ND	4.7
1,2-Dibromoethane	ND	4.7
Chlorobenzene	ND	4.7
1,1,1,2-Tetrachloroethane	ND	4.7
Ethylbenzene	ND	4.7
m,p-Xylenes	ND	4.7
o-Xylene	ND	4.7
Styrene	ND	4.7
Bromoform	ND	4.7
Isopropylbenzene	ND	4.7
1,1,2,2-Tetrachloroethane	ND	4.7
1,2,3-Trichloropropane	ND	4.7
Propylbenzene	ND	4.7
Bromobenzene	ND	4.7
1,3,5-Trimethylbenzene	ND	4.7
2-Chlorotoluene	ND	4.7
4-Chlorotoluene	ND	4.7
tert-Butylbenzene	ND	4.7
1,2,4-Trimethylbenzene	ND	4.7
sec-Butylbenzene	ND	4.7
para-Isopropyl Toluene	ND	4.7
1,3-Dichlorobenzene	ND	4.7
1,4-Dichlorobenzene	ND	4.7
n-Butylbenzene	ND	4.7
1,2-Dichlorobenzene	ND	4.7
1,2-Dibromo-3-Chloropropane	ND	4.7
1,2,4-Trichlorobenzene	ND	4.7
Hexachlorobutadiene	ND	4.7
Naphthalene	ND	4.7
1,2,3-Trichlorobenzene	ND	4.7

Surrogate	%REC	Limits
Dibromofluoromethane	101	74-124
1,2-Dichloroethane-d4	109	75-128
Toluene-d8	100	80-111
Bromofluorobenzene	100	75-127

ND= Not Detected
RL= Reporting Limit

20.0

000107

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	EPA 8260B
Field ID:	B-FP1;2.5	Diln Fac:	0.9804
Lab ID:	163482-019	Batch#:	78998
Matrix:	Soil	Sampled:	02/05/03
Units:	ug/Kg	Received:	02/05/03
Basis:	as received	Analyzed:	02/06/03

Analyte	Result	RL
Freon 12	ND	9.8
Chloromethane	ND	9.8
Vinyl Chloride	ND	9.8
Bromomethane	ND	9.8
Chloroethane	ND	9.8
Trichlorofluoromethane	ND	4.9
Acetone	ND	20
Freon 113	ND	4.9
1,1-Dichloroethene	ND	4.9
Methylene Chloride	ND	20
Carbon Disulfide	ND	4.9
MTBE	ND	4.9
trans-1,2-Dichloroethene	ND	4.9
Vinyl Acetate	ND	49
1,1-Dichloroethane	ND	4.9
2-Butanone	ND	9.8
cis-1,2-Dichloroethene	ND	4.9
2,2-Dichloropropane	ND	4.9
Chloroform	ND	4.9
Bromochloromethane	ND	4.9
1,1,1-Trichloroethane	ND	4.9
1,1-Dichloropropene	ND	4.9
Carbon Tetrachloride	ND	4.9
1,2-Dichloroethane	ND	4.9
Benzene	ND	4.9
Trichloroethene	ND	4.9
1,2-Dichloropropane	ND	4.9
Bromodichloromethane	ND	4.9
Dibromomethane	ND	9.8
4-Methyl-2-Pentanone	ND	4.9
cis-1,3-Dichloropropene	ND	4.9
Toluene	ND	4.9
trans-1,3-Dichloropropene	ND	4.9
1,1,2-Trichloroethane	ND	9.8
2-Hexanone	ND	4.9
1,3-Dichloropropane	ND	4.9
Tetrachloroethene	ND	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	EPA 8260B
Field ID:	B-FP1;2.5	Diln Fac:	0.9804
Lab ID:	163482-019	Batch#:	78998
Matrix:	Soil	Sampled:	02/05/03
Units:	ug/Kg	Received:	02/05/03
Basis:	as received	Analyzed:	02/06/03

Analyte	Result	RL
Dibromochloromethane	ND	4.9
1,2-Dibromoethane	ND	4.9
Chlorobenzene	ND	4.9
1,1,1,2-Tetrachloroethane	ND	4.9
Ethylbenzene	ND	4.9
m,p-Xylenes	ND	4.9
o-Xylene	ND	4.9
Styrene	ND	4.9
Bromoform	ND	4.9
Isopropylbenzene	ND	4.9
1,1,2,2-Tetrachloroethane	ND	4.9
1,2,3-Trichloropropane	ND	4.9
Propylbenzene	ND	4.9
Bromobenzene	ND	4.9
1,3,5-Trimethylbenzene	ND	4.9
2-Chlorotoluene	ND	4.9
4-Chlorotoluene	ND	4.9
tert-Butylbenzene	ND	4.9
1,2,4-Trimethylbenzene	ND	4.9
sec-Butylbenzene	ND	4.9
para-Isopropyl Toluene	ND	4.9
1,3-Dichlorobenzene	ND	4.9
1,4-Dichlorobenzene	ND	4.9
n-Butylbenzene	ND	4.9
1,2-Dichlorobenzene	ND	4.9
1,2-Dibromo-3-Chloropropane	ND	4.9
1,2,4-Trichlorobenzene	ND	4.9
Hexachlorobutadiene	ND	4.9
Naphthalene	ND	4.9
1,2,3-Trichlorobenzene	ND	4.9

Surrogate	%REC	Limits
Dibromofluoromethane	102	74-124
1,2-Dichloroethane-d4	110	75-128
Toluene-d8	101	80-111
Bromofluorobenzene	109	75-127

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	EPA 8260B
Field ID:	B-FP1;5.5	Diln Fac:	0.8772
Lab ID:	163482-021	Batch#:	78998
Matrix:	Soil	Sampled:	02/05/03
Units:	ug/Kg	Received:	02/05/03
Basis:	as received	Analyzed:	02/06/03

Analyte	Result	RL
Freon 12	ND	8.8
Chloromethane	ND	8.8
Vinyl Chloride	ND	8.8
Bromomethane	ND	8.8
Chloroethane	ND	8.8
Trichlorofluoromethane	ND	4.4
Acetone	ND	18
Freon 113	ND	4.4
1,1-Dichloroethene	ND	4.4
Methylene Chloride	ND	18
Carbon Disulfide	ND	4.4
MTBE	ND	4.4
trans-1,2-Dichloroethene	ND	4.4
Vinyl Acetate	ND	44
1,1-Dichloroethane	ND	4.4
2-Butanone	ND	8.8
cis-1,2-Dichloroethene	ND	4.4
2,2-Dichloropropane	ND	4.4
Chloroform	ND	4.4
Bromochloromethane	ND	4.4
1,1,1-Trichloroethane	ND	4.4
1,1-Dichloropropene	ND	4.4
Carbon Tetrachloride	ND	4.4
1,2-Dichloroethane	ND	4.4
Benzene	ND	4.4
Trichloroethene	ND	4.4
1,2-Dichloropropane	ND	4.4
Bromodichloromethane	ND	4.4
Dibromomethane	ND	4.4
4-Methyl-2-Pentanone	ND	8.8
cis-1,3-Dichloropropene	ND	4.4
Toluene	ND	4.4
trans-1,3-Dichloropropene	ND	4.4
1,1,2-Trichloroethane	ND	4.4
2-Hexanone	ND	8.8
1,3-Dichloropropane	ND	4.4
Tetrachloroethene	ND	4.4

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	EPA 8260B
Field ID:	B-FP1;5.5	Diln Fac:	0.8772
Lab ID:	163482-021	Batch#:	78998
Matrix:	Soil	Sampled:	02/05/03
Units:	ug/Kg	Received:	02/05/03
Basis:	as received	Analyzed:	02/06/03

Analyte	Result	RL
Dibromochloromethane	ND	4.4
1,2-Dibromoethane	ND	4.4
Chlorobenzene	ND	4.4
1,1,1,2-Tetrachloroethane	ND	4.4
Ethylbenzene	ND	4.4
m,p-Xylenes	ND	4.4
o-Xylene	ND	4.4
Styrene	ND	4.4
Bromoform	ND	4.4
Isopropylbenzene	ND	4.4
1,1,2,2-Tetrachloroethane	ND	4.4
1,2,3-Trichloropropane	ND	4.4
Propylbenzene	ND	4.4
Bromobenzene	ND	4.4
1,3,5-Trimethylbenzene	ND	4.4
2-Chlorotoluene	ND	4.4
4-Chlorotoluene	ND	4.4
tert-Butylbenzene	ND	4.4
1,2,4-Trimethylbenzene	ND	4.4
sec-Butylbenzene	ND	4.4
para-Isopropyl Toluene	ND	4.4
1,3-Dichlorobenzene	ND	4.4
1,4-Dichlorobenzene	ND	4.4
n-Butylbenzene	ND	4.4
1,2-Dichlorobenzene	ND	4.4
1,2-Dibromo-3-Chloropropane	ND	4.4
1,2,4-Trichlorobenzene	ND	4.4
Hexachlorobutadiene	ND	4.4
Naphthalene	ND	4.4
1,2,3-Trichlorobenzene	ND	4.4

Surrogate	%REC	Limits
Dibromofluoromethane	95	74-124
1,2-Dichloroethane-d4	110	75-128
Toluene-d8	100	80-111
Bromofluorobenzene	107	75-127

ND= Not Detected
RL= Reporting Limit

000113 23.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC203834	Diln Fac:	1.000
Matrix:	Soil	Batch#:	78958
Units:	ug/Kg	Analyzed:	02/05/03

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC203834	Diln Fac:	1.000
Matrix:	Soil	Batch#:	78958
Units:	ug/Kg	Analyzed:	02/05/03

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	89	74-124
1,2-Dichloroethane-d4	91	75-128
Toluene-d8	97	80-111
Bromofluorobenzene	102	75-127

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC203843	Diln Fac:	1.000
Matrix:	Soil	Batch#:	78961
Units:	ug/Kg	Analyzed:	02/05/03

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC203843	Diln Fac:	1.000
Matrix:	Soil	Batch#:	78961
Units:	ug/Kg	Analyzed:	02/05/03

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	103	74-124
1,2-Dichloroethane-d4	109	75-128
Toluene-d8	99	80-111
Bromofluorobenzene	104	75-127

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC203991	Diln Fac:	1.000
Matrix:	Soil	Batch#:	78998
Units:	ug/Kg	Analyzed:	02/06/03

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC203991	Diln Fac:	1.000
Matrix:	Soil	Batch#:	78998
Units:	ug/Kg	Analyzed:	02/06/03

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	97	74-124
1,2-Dichloroethane-d4	108	75-128
Toluene-d8	100	80-111
Bromofluorobenzene	103	75-127

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	EPA 8260B
Type:	LCS	Basis:	as received
Lab ID:	QC203833	Diln Fac:	1.000
Matrix:	Soil	Batch#:	78958
Units:	ug/Kg	Analyzed:	02/05/03

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	42.92	86	70-131
Benzene	50.00	43.32	87	77-120
Trichloroethene	50.00	46.97	94	79-120
Toluene	50.00	43.75	88	80-120
Chlorobenzene	50.00	44.14	88	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	89	74-124
1,2-Dichloroethane-d4	90	75-128
Toluene-d8	97	80-111
Bromofluorobenzene	96	75-127

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	EPA 8260B
Type:	LCS	Basis:	as received
Lab ID:	QC203842	Diln Fac:	1.000
Matrix:	Soil	Batch#:	78961
Units:	ug/Kg	Analyzed:	02/05/03

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	46.94	94	70-131
Benzene	50.00	48.80	98	77-120
Trichloroethene	50.00	51.06	102	79-120
Toluene	50.00	49.71	99	80-120
Chlorobenzene	50.00	53.27	107	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	100	74-124
1,2-Dichloroethane-d4	108	75-128
Toluene-d8	99	80-111
Bromofluorobenzene	101	75-127

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	EPA 8260B
Type:	LCS	Basis:	as received
Lab ID:	QC203990	Diln Fac:	1.000
Matrix:	Soil	Batch#:	78998
Units:	ug/Kg	Analyzed:	02/06/03

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	42.95	86	70-131
Benzene	50.00	45.80	92	77-120
Trichloroethene	50.00	47.38	95	79-120
Toluene	50.00	46.82	94	80-120
Chlorobenzene	50.00	46.81	94	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	99	74-124
1,2-Dichloroethane-d4	110	75-128
Toluene-d8	101	80-111
Bromofluorobenzene	99	75-127

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.042
MSS Lab ID:	163459-012	Batch#:	78958
Matrix:	Soil	Sampled:	02/04/03
Units:	ug/Kg	Received:	02/04/03
Basis:	as received	Analyzed:	02/05/03

Type: MS Lab ID: QC203893

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.3400	52.08	42.76	82	57-134
Benzene	<0.08400	52.08	44.70	86	55-125
Trichloroethene	<0.3300	52.08	48.48	93	37-133
Toluene	<0.2000	52.08	44.78	86	48-131
Chlorobenzene	<0.1600	52.08	44.19	85	42-128

Surrogate	%REC	Limits
Dibromofluoromethane	89	74-124
1,2-Dichloroethane-d4	91	75-128
Toluene-d8	97	80-111
Bromofluorobenzene	96	75-127

Type: MSD Lab ID: QC203894

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	52.08	43.04	83	57-134	1	20
Benzene	52.08	43.74	84	55-125	2	20
Trichloroethene	52.08	47.31	91	37-133	2	21
Toluene	52.08	45.11	87	48-131	1	20
Chlorobenzene	52.08	44.86	86	42-128	1	23

Surrogate	%REC	Limits
Dibromofluoromethane	90	74-124
1,2-Dichloroethane-d4	93	75-128
Toluene-d8	97	80-111
Bromofluorobenzene	95	75-127

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5035
Project#:	Y0323-01	Analysis:	EPA 8260B
Field ID:	B-FP4;5-5.5	Diln Fac:	0.9804
MSS Lab ID:	163466-010	Batch#:	78961
Matrix:	Soil	Sampled:	02/04/03
Units:	ug/Kg	Received:	02/04/03
Basis:	as received	Analyzed:	02/05/03

Type: MS Lab ID: QC203845

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.4300	49.02	39.00	80	57-134
Benzene	<0.2900	49.02	41.24	84	55-125
Trichloroethene	<0.5400	49.02	42.72	87	37-133
Toluene	<0.3500	49.02	41.88	85	48-131
Chlorobenzene	<0.4400	49.02	43.66	89	42-128

Surrogate	%REC	Limits
Dibromofluoromethane	103	74-124
1,2-Dichloroethane-d4	110	75-128
Toluene-d8	99	80-111
Bromofluorobenzene	101	75-127

Type: MSD Lab ID: QC203846

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	49.02	40.17	82	57-134	3	20
Benzene	49.02	42.58	87	55-125	3	20
Trichloroethene	49.02	45.14	92	37-133	6	21
Toluene	49.02	43.91	90	48-131	5	20
Chlorobenzene	49.02	43.40	89	42-128	1	23

Surrogate	%REC	Limits
Dibromofluoromethane	105	74-124
1,2-Dichloroethane-d4	110	75-128
Toluene-d8	100	80-111
Bromofluorobenzene	104	75-127

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-01		
Field ID:	B-FP5	Diln Fac:	1.000
Lab ID:	163482-035	Sampled:	02/05/03
Matrix:	Filtrate	Received:	02/05/03
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	60	79039	02/07/03	02/11/03	EPA 6010B
Arsenic	ND	5.0	79039	02/07/03	02/11/03	EPA 6010B
Barium	62	10	79039	02/07/03	02/11/03	EPA 6010B
Beryllium	ND	2.0	79039	02/07/03	02/11/03	EPA 6010B
Cadmium	ND	5.0	79039	02/07/03	02/11/03	EPA 6010B
Chromium	17	10	79039	02/07/03	02/11/03	EPA 6010B
Cobalt	ND	20	79039	02/07/03	02/11/03	EPA 6010B
Copper	ND	10	79039	02/07/03	02/11/03	EPA 6010B
Lead	ND	3.0	79039	02/07/03	02/11/03	EPA 6010B
Mercury	ND	0.20	79060	02/10/03	02/10/03	EPA 7470A
Molybdenum	ND	20	79039	02/07/03	02/11/03	EPA 6010B
Nickel	96	20	79039	02/07/03	02/11/03	EPA 6010B
Selenium	11	5.0	79039	02/07/03	02/11/03	EPA 6010B
Silver	ND	5.0	79039	02/07/03	02/11/03	EPA 6010B
Thallium	ND	5.0	79039	02/07/03	02/11/03	EPA 6010B
Vanadium	ND	10	79039	02/07/03	02/11/03	EPA 6010B
Zinc	ND	20	79039	02/07/03	02/11/03	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-01		
Field ID:	B-FP4	Diln Fac:	1.000
Lab ID:	163482-036	Sampled:	02/05/03
Matrix:	Filtrate	Received:	02/05/03
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	60	79039	02/07/03	02/11/03	EPA 6010B
Arsenic	ND	5.0	79039	02/07/03	02/11/03	EPA 6010B
Barium	110	10	79039	02/07/03	02/11/03	EPA 6010B
Beryllium	ND	2.0	79039	02/07/03	02/11/03	EPA 6010B
Cadmium	ND	5.0	79039	02/07/03	02/11/03	EPA 6010B
Chromium	ND	10	79039	02/07/03	02/11/03	EPA 6010B
Cobalt	ND	20	79039	02/07/03	02/11/03	EPA 6010B
Copper	ND	10	79039	02/07/03	02/11/03	EPA 6010B
Lead	ND	3.0	79039	02/07/03	02/11/03	EPA 6010B
Mercury	ND	0.20	79060	02/10/03	02/10/03	EPA 7470A
Molybdenum	ND	20	79039	02/07/03	02/11/03	EPA 6010B
Nickel	32	20	79039	02/07/03	02/11/03	EPA 6010B
Selenium	ND	5.0	79039	02/07/03	02/11/03	EPA 6010B
Silver	ND	5.0	79039	02/07/03	02/11/03	EPA 6010B
Thallium	ND	5.0	79039	02/07/03	02/11/03	EPA 6010B
Vanadium	ND	10	79039	02/07/03	02/11/03	EPA 6010B
Zinc	ND	20	79039	02/07/03	02/11/03	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-01	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC204131	Batch#:	79039
Matrix:	Filtrate	Prepared:	02/07/03
Units:	ug/L	Analyzed:	02/11/03

Analyte	Result	RL
Antimony	ND	60
Arsenic	ND	5.0
Barium	ND	10
Beryllium	ND	2.0
Cadmium	ND	5.0
Chromium	ND	10
Cobalt	ND	20
Copper	ND	10
Lead	ND	3.0
Molybdenum	ND	20
Nickel	ND	20
Selenium	ND	5.0
Silver	ND	5.0
Thallium	ND	5.0
Vanadium	ND	10
Zinc	ND	20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-01	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	79060
Lab ID:	QC204229	Prepared:	02/10/03
Matrix:	Water	Analyzed:	02/10/03
Units:	ug/L		

Result	RL
ND	0.20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-01	Analysis:	EPA 6010B
Matrix:	Filtrate	Batch#:	79039
Units:	ug/L	Prepared:	02/07/03
Diln Fac:	1.000	Analyzed:	02/11/03

Type: BS Lab ID: QC204132

Analyte	Spiked	Result	%REC	Limits
Antimony	500.0	459.0	92	75-126
Arsenic	100.0	104.0	104	79-123
Barium	2,000	2,010	101	80-120
Beryllium	50.00	50.90	102	80-120
Cadmium	50.00	49.10	98	80-120
Chromium	200.0	199.0	100	79-120
Cobalt	500.0	488.0	98	80-120
Copper	250.0	253.0	101	80-120
Lead	100.0	104.0	104	78-120
Molybdenum	400.0	417.0	104	80-120
Nickel	500.0	499.0	100	78-120
Selenium	100.0	101.0	101	72-121
Silver	50.00	52.80	106	80-120
Thallium	100.0	97.90	98	70-121
Vanadium	500.0	505.0	101	80-120
Zinc	500.0	492.0	98	78-120

Type: BSD Lab ID: QC204133

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	467.0	93	75-126	2	20
Arsenic	100.0	98.10	98	79-123	6	20
Barium	2,000	1,970	99	80-120	2	20
Beryllium	50.00	48.10	96	80-120	6	20
Cadmium	50.00	45.90	92	80-120	7	20
Chromium	200.0	188.0	94	79-120	6	20
Cobalt	500.0	463.0	93	80-120	5	20
Copper	250.0	248.0	99	80-120	2	20
Lead	100.0	95.00	95	78-120	9	20
Molybdenum	400.0	390.0	98	80-120	7	20
Nickel	500.0	472.0	94	78-120	6	20
Selenium	100.0	95.70	96	72-121	5	20
Silver	50.00	50.90	102	80-120	4	20
Thallium	100.0	94.20	94	70-121	4	20
Vanadium	500.0	483.0	97	80-120	4	20
Zinc	500.0	468.0	94	78-120	5	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-01	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	79060
Matrix:	Water	Prepared:	02/10/03
Units:	ug/L	Analyzed:	02/10/03
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC204230	5.000	5.060	101	78-120		
BSD	QC204231	5.000	5.060	101	78-120	0	22

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-01	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	79039
MSS Lab ID:	163334-002	Sampled:	01/28/03
Matrix:	Filtrate	Received:	01/28/03
Units:	ug/L	Prepared:	02/07/03
Diln Fac:	1.000	Analyzed:	02/11/03

Type: MS Lab ID: QC204134

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	40.80	500.0	584.0	109	62-135
Arsenic	8.060	100.0	107.0	99	66-134
Barium	1,120	2,000	3,050	97	66-123
Beryllium	<0.1600	50.00	47.10	94	65-128
Cadmium	<0.3100	50.00	43.50	87	61-124
Chromium	<1.400	200.0	181.0	91	64-123
Cobalt	<0.9900	500.0	440.0	88	65-120
Copper	<2.500	250.0	252.0	101	62-130
Lead	2.420	100.0	91.10	89	58-129
Molybdenum	18.20	400.0	375.0	89	68-122
Nickel	2.110	500.0	453.0	90	60-126
Selenium	11.90	100.0	113.0	101	62-131
Silver	<0.8200	50.00	32.70	65	47-138
Thallium	<4.900	100.0	38.00	38 *	57-126
Vanadium	12.20	500.0	482.0	94	59-132
Zinc	7.620	500.0	469.0	92	49-139

Type: MSD Lab ID: QC204135

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	591.0	110	62-135	1	20
Arsenic	100.0	109.0	101	66-134	2	29
Barium	2,000	3,060	97	66-123	0	20
Beryllium	50.00	47.40	95	65-128	1	20
Cadmium	50.00	44.00	88	61-124	1	20
Chromium	200.0	183.0	92	64-123	1	20
Cobalt	500.0	445.0	89	65-120	1	20
Copper	250.0	253.0	101	62-130	0	20
Lead	100.0	93.70	91	58-129	3	28
Molybdenum	400.0	393.0	94	68-122	5	20
Nickel	500.0	451.0	90	60-126	0	20
Selenium	100.0	115.0	103	62-131	2	23
Silver	50.00	33.10	66	47-138	1	20
Thallium	100.0	41.70	42 *	57-126	9	29
Vanadium	500.0	486.0	95	59-132	1	20
Zinc	500.0	465.0	91	49-139	1	31

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

45.0

000131

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-01	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	79060
Field ID:	ZZZZZZZZZZ	Sampled:	01/27/03
MSS Lab ID:	163321-015	Received:	01/27/03
Matrix:	Water	Prepared:	02/10/03
Units:	ug/L	Analyzed:	02/10/03
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC204232	0.04200	5.000	5.030	100	47-143		
MSD	QC204233		5.000	5.140	102	47-143	2	35

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Hexavalent Chromium

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-01	Analysis:	EPA 7196A
Analyte:	Hexavalent Chromium	Batch#:	78991
Matrix:	Water	Sampled:	02/05/03
Units:	mg/L	Received:	02/05/03
Diln Fac:	1.000	Analyzed:	02/05/03

Field ID	Type	Lab ID	Result	RL
B-FP5	SAMPLE	163482-035	0.01	0.01
B-FP4	SAMPLE	163482-036	ND	0.01
	BLANK	QC203959	ND	0.01

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Hexavalent Chromium

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-01	Analysis:	EPA 7196A
Analyte:	Hexavalent Chromium	Diln Fac:	1.000
Field ID:	B-FP4	Batch#:	78991
MSS Lab ID:	163482-036	Sampled:	02/05/03
Matrix:	Water	Received:	02/05/03
Units:	mg/L	Analyzed:	02/05/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
LCS	QC203960		0.8420	0.7790	92	80-120		
MS	QC203961	<0.01000	0.8420	0.6860	81	55-145		
MSD	QC203962		0.8420	0.7210	86	55-145	5	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Hexavalent Chromium

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-01	Analysis:	EPA 7196A
Analyte:	Hexavalent Chromium	Batch#:	79115
Matrix:	Soil	Sampled:	02/05/03
Units:	mg/Kg	Received:	02/05/03
Basis:	as received	Analyzed:	02/11/03
Diln Fac:	1.000		

Field ID	Type	Lab ID	Result	RL
COMP FY	SAMPLE	163482-029	ND	0.05
COMP RY	SAMPLE	163482-033	ND	0.05
	BLANK	QC204422	ND	0.05

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Hexavalent Chromium

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-01	Analysis:	EPA 7196A
Analyte:	Hexavalent Chromium	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	79115
MSS Lab ID:	163380-001	Sampled:	01/22/03
Matrix:	Soil	Received:	01/22/03
Units:	mg/Kg	Analyzed:	02/11/03
Basis:	as received		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
LCS	QC204423		4.000	3.719	93	80-116		
MS	QC204424	<0.05000	4.000	1.743	44 *	62-132		
MSD	QC204425		4.000	1.738	43 *	62-132	0	24

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Total Cyanide

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-01	Analysis:	EPA 335.2
Analyte:	Cyanide	Batch#:	79029
Matrix:	Water	Sampled:	02/05/03
Units:	mg/L	Received:	02/05/03
Diln Fac:	1.000	Analyzed:	02/07/03

Field ID	Type	Lab ID	Result	RL
B-FP5	SAMPLE	163482-035	ND	0.01
B-FP4	SAMPLE	163482-036	ND	0.01
	BLANK	QC204101	ND	0.01

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Cyanide

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-01	Analysis:	EPA 335.2
Analyte:	Cyanide	Diln Fac:	1.000
Field ID:	B-FP4	Batch#:	79029
MSS Lab ID:	163482-036	Sampled:	02/05/03
Matrix:	Water	Received:	02/05/03
Units:	mg/L	Analyzed:	02/07/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC204102	<0.01000	0.1930	0.1830	95	56-134		
MSD	QC204103		0.1930	0.1890	98	56-134	3	30
LCS	QC204104		0.1930	0.1900	98	70-124		

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Total Cyanide

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-01	Analysis:	EPA 335.2
Analyte:	Cyanide	Batch#:	79064
Matrix:	Soil	Sampled:	02/05/03
Units:	mg/Kg	Received:	02/05/03
Basis:	as received	Analyzed:	02/10/03
Diln Fac:	1.000		

Field ID	Type	Lab ID	Result	RL
B-FP-6;2-2.5	SAMPLE	163482-001	ND	1.0
B-FP6;5-5.5	SAMPLE	163482-003	ND	1.0
B-FP7;2.5-3.0	SAMPLE	163482-008	ND	1.0
B-FP7;5-5.5	SAMPLE	163482-009	11	1.0
B-FP2;2.5-3.0	SAMPLE	163482-014	ND	1.0
B-FP2;5.5-6.0	SAMPLE	163482-016	ND	1.0
B-FP1;2.5-3.0	SAMPLE	163482-020	ND	1.0
B-FP1;5.5-6.0	SAMPLE	163482-022	ND	1.0
COMP FY	SAMPLE	163482-029	ND	1.0
COMP RY	SAMPLE	163482-033	ND	1.0
	BLANK	QC204243	ND	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Cyanide

Lab #:	163482	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-01	Analysis:	EPA 335.2
Analyte:	Cyanide	Diln Fac:	1.000
Field ID:	COMP RY	Batch#:	79064
MSS Lab ID:	163482-033	Sampled:	02/05/03
Matrix:	Soil	Received:	02/05/03
Units:	mg/Kg	Analyzed:	02/10/03
Basis:	as received		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC204244	<1.000	9.840	9.830	100	70-130		
MSD	QC204245		9.360	9.320	100	70-130	5	30
LCS	QC204246		9.540	9.590	101	80-120		

RPD= Relative Percent Difference

Calscience
Environmental
Laboratories, Inc.

February 12, 2003

James Brownfield
Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Subject: **Calscience Work Order No.:** **03-02-0305**
Client Reference: **163482**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 2/7/2003 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Don Burley
Project Manager

Michael J. Crisostomo
Quality Assurance Manager

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Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Date Received: 02/07/03
Work Order No: 03-02-0305
Preparation: Total Digestion
Method: EPA 6010B / EPA 7471A

Project: 163482

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
B-FP-6 ; 2-2.5	03-02-0305-1	02/05/03	Solid	02/07/03	02/10/03	030207L06

Comment(s): Mercury was analyzed on 2/7/2003 5:51:45 PM with batch 030207L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury	0.415	0.083	1		mg/kg
Arsenic	3.44	0.75	1		mg/kg	Molybdenum	1.95	0.25	1		mg/kg
Barium	134	0.500	1		mg/kg	Nickel	368	0.250	1		mg/kg
Beryllium	ND	0.250	1		mg/kg	Selenium	ND	0.750	1		mg/kg
Cadmium	0.689	0.500	1		mg/kg	Silver	ND	0.250	1		mg/kg
Chromium (Total)	220	0.250	1		mg/kg	Thallium	ND	0.750	1		mg/kg
Cobalt	5.17	0.25	1		mg/kg	Vanadium	19.3	0.2	1		mg/kg
Copper	19.7	0.5	1		mg/kg	Zinc	1260	10	10	D	mg/kg
Lead	1260	5	10	D	mg/kg						

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
B-FP6 ; 5-5.5	03-02-0305-2	02/05/03	Solid	02/07/03	02/10/03	030207L06

Comment(s): Mercury was analyzed on 2/7/2003 5:54:46 PM with batch 030207L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury	ND	0.0835	1		mg/kg
Arsenic	1.78	0.75	1		mg/kg	Molybdenum	ND	0.250	1		mg/kg
Barium	49.2	0.5	1		mg/kg	Nickel	320	0.250	1		mg/kg
Beryllium	0.339	0.250	1		mg/kg	Selenium	ND	0.750	1		mg/kg
Cadmium	ND	0.500	1		mg/kg	Silver	ND	0.250	1		mg/kg
Chromium (Total)	49.1	0.2	1		mg/kg	Thallium	ND	0.750	1		mg/kg
Cobalt	11.3	0.2	1		mg/kg	Vanadium	35.8	0.2	1		mg/kg
Copper	7.76	0.50	1		mg/kg	Zinc	22.3	1.0	1		mg/kg
Lead	3.95	0.50	1		mg/kg						

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
B-FP7 ; 2.5-3.0	03-02-0305-3	02/05/03	Solid	02/07/03	02/10/03	030207L06

Comment(s): Mercury was analyzed on 2/7/2003 5:57:47 PM with batch 030207L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury	0.139	0.083	1		mg/kg
Arsenic	4.44	0.75	1		mg/kg	Molybdenum	0.650	0.250	1		mg/kg
Barium	108	0.500	1		mg/kg	Nickel	39.0	0.2	1		mg/kg
Beryllium	ND	0.250	1		mg/kg	Selenium	ND	0.750	1		mg/kg
Cadmium	ND	0.500	1		mg/kg	Silver	ND	0.250	1		mg/kg
Chromium (Total)	38.8	0.2	1		mg/kg	Thallium	ND	0.750	1		mg/kg
Cobalt	4.55	0.25	1		mg/kg	Vanadium	21.5	0.2	1		mg/kg
Copper	24.6	0.5	1		mg/kg	Zinc	94.0	1.0	1		mg/kg
Lead	141	0.500	1		mg/kg						

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Date Received: 02/07/03
Work Order No: 03-02-0305
Preparation: Total Digestion
Method: EPA 6010B / EPA 7471A

Project: 163482

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
B-FP7 ; 5-5.5	03-02-0305-4	02/05/03	Solid	02/07/03	02/10/03	030207L06

Comment(s): Mercury was analyzed on 2/7/2003 6:00:50 PM with batch 030207L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury	ND	0.0835	1		mg/kg
Arsenic	ND	0.750	1		mg/kg	Molybdenum	ND	0.250	1		mg/kg
Barium	81.0	0.5	1		mg/kg	Nickel	164	0.250	1		mg/kg
Beryllium	0.418	0.250	1		mg/kg	Selenium	ND	0.750	1		mg/kg
Cadmium	ND	0.500	1		mg/kg	Silver	ND	0.250	1		mg/kg
Chromium (Total)	84.6	0.2	1		mg/kg	Thallium	ND	0.750	1		mg/kg
Cobalt	7.33	0.25	1		mg/kg	Vanadium	46.5	0.2	1		mg/kg
Copper	9.69	0.50	1		mg/kg	Zinc	27.7	1.0	1		mg/kg
Lead	4.11	0.50	1		mg/kg						

B-FP2 ; 2.5-3.0	03-02-0305-5	02/05/03	Solid	02/07/03	02/10/03	030207L06

Comment(s): Mercury was analyzed on 2/7/2003 6:03:51 PM with batch 030207L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury	ND	0.0835	1		mg/kg
Arsenic	ND	0.750	1		mg/kg	Molybdenum	ND	0.250	1		mg/kg
Barium	56.1	0.5	1		mg/kg	Nickel	17.4	0.2	1		mg/kg
Beryllium	ND	0.250	1		mg/kg	Selenium	ND	0.750	1		mg/kg
Cadmium	ND	0.500	1		mg/kg	Silver	ND	0.250	1		mg/kg
Chromium (Total)	29.1	0.2	1		mg/kg	Thallium	ND	0.750	1		mg/kg
Cobalt	4.21	0.25	1		mg/kg	Vanadium	20.0	0.2	1		mg/kg
Copper	5.74	0.50	1		mg/kg	Zinc	16.3	1.0	1		mg/kg
Lead	2.44	0.50	1		mg/kg						

B-FP2 ; 5.5-6.0	03-02-0305-6	02/05/03	Solid	02/07/03	02/10/03	030207L06

Comment(s): Mercury was analyzed on 2/7/2003 6:06:55 PM with batch 030207L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury	ND	0.0835	1		mg/kg
Arsenic	ND	0.750	1		mg/kg	Molybdenum	ND	0.250	1		mg/kg
Barium	70.6	0.5	1		mg/kg	Nickel	99.2	0.2	1		mg/kg
Beryllium	0.321	0.250	1		mg/kg	Selenium	ND	0.750	1		mg/kg
Cadmium	ND	0.500	1		mg/kg	Silver	ND	0.250	1		mg/kg
Chromium (Total)	83.4	0.2	1		mg/kg	Thallium	ND	0.750	1		mg/kg
Cobalt	6.88	0.25	1		mg/kg	Vanadium	34.9	0.2	1		mg/kg
Copper	10.2	0.5	1		mg/kg	Zinc	24.4	1.0	1		mg/kg
Lead	3.33	0.50	1		mg/kg						

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Date Received: 02/07/03
Work Order No: 03-02-0305
Preparation: Total Digestion
Method: EPA 6010B / EPA 7471A

Project: 163482

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
B-FP1 ; 2.5-3.0	**03-02-0305-7**	**02/05/03**	**Solid**	**02/07/03**	**02/10/03**	**030207L06**

Comment(s): Mercury was analyzed on 2/7/2003 6:09:58 PM with batch 030207L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury	ND	0.0835	1		mg/kg
Arsenic	1.15	0.75	1		mg/kg	Molybdenum	ND	0.250	1		mg/kg
Barium	52.7	0.5	1		mg/kg	Nickel	16.1	0.2	1		mg/kg
Beryllium	ND	0.250	1		mg/kg	Selenium	ND	0.750	1		mg/kg
Cadmium	ND	0.500	1		mg/kg	Silver	ND	0.250	1		mg/kg
Chromium (Total)	28.1	0.2	1		mg/kg	Thallium	ND	0.750	1		mg/kg
Cobalt	3.89	0.25	1		mg/kg	Vanadium	19.6	0.2	1		mg/kg
Copper	5.31	0.50	1		mg/kg	Zinc	14.9	1.0	1		mg/kg
Lead	2.25	0.50	1		mg/kg						

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
B-FP1 ; 5.5-6.0	**03-02-0305-8**	**02/05/03**	**Solid**	**02/07/03**	**02/10/03**	**030207L06**

Comment(s): Mercury was analyzed on 2/7/2003 6:13:00 PM with batch 030207L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury	ND	0.0835	1		mg/kg
Arsenic	1.04	0.75	1		mg/kg	Molybdenum	ND	0.250	1		mg/kg
Barium	60.2	0.5	1		mg/kg	Nickel	53.6	0.2	1		mg/kg
Beryllium	0.382	0.250	1		mg/kg	Selenium	ND	0.750	1		mg/kg
Cadmium	ND	0.500	1		mg/kg	Silver	ND	0.250	1		mg/kg
Chromium (Total)	49.2	0.2	1		mg/kg	Thallium	ND	0.750	1		mg/kg
Cobalt	16.8	0.2	1		mg/kg	Vanadium	34.8	0.2	1		mg/kg
Copper	9.01	0.50	1		mg/kg	Zinc	23.7	1.0	1		mg/kg
Lead	3.75	0.50	1		mg/kg						

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
COMP FY	**03-02-0305-9**	**02/05/03**	**Solid**	**02/07/03**	**02/10/03**	**030207L06**

Comment(s): Mercury was analyzed on 2/7/2003 6:22:10 PM with batch 030207L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury	ND	0.0835	1		mg/kg
Arsenic	1.19	0.75	1		mg/kg	Molybdenum	ND	0.250	1		mg/kg
Barium	64.2	0.5	1		mg/kg	Nickel	75.4	0.2	1		mg/kg
Beryllium	0.278	0.250	1		mg/kg	Selenium	ND	0.750	1		mg/kg
Cadmium	ND	0.500	1		mg/kg	Silver	ND	0.250	1		mg/kg
Chromium (Total)	54.2	0.2	1		mg/kg	Thallium	ND	0.750	1		mg/kg
Cobalt	7.79	0.25	1		mg/kg	Vanadium	31.8	0.2	1		mg/kg
Copper	7.49	0.50	1		mg/kg	Zinc	22.9	1.0	1		mg/kg
Lead	2.98	0.50	1		mg/kg						

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Date Received: 02/07/03
Work Order No: 03-02-0305
Preparation: Total Digestion
Method: EPA 6010B / EPA 7471A

Project: 163482

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
COMP RY	**03-02-0305-10**	**02/05/03**	**Solid**	**02/07/03**	**02/10/03**	**030207L06**

Comment(s): Mercury was analyzed on 2/7/2003 6:25:14 PM with batch 030207L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Mercury	ND	0.0835	1		mg/kg
Arsenic	ND	0.750	1		mg/kg	Molybdenum	ND	0.250	1		mg/kg
Barium	66.3	0.5	1		mg/kg	Nickel	55.4	0.2	1		mg/kg
Beryllium	0.266	0.250	1		mg/kg	Selenium	ND	0.750	1		mg/kg
Cadmium	ND	0.500	1		mg/kg	Silver	ND	0.250	1		mg/kg
Chromium (Total)	48.2	0.2	1		mg/kg	Thallium	ND	0.750	1		mg/kg
Cobalt	6.87	0.25	1		mg/kg	Vanadium	30.6	0.2	1		mg/kg
Copper	7.79	0.50	1		mg/kg	Zinc	22.4	1.0	1		mg/kg
Lead	2.76	0.50	1		mg/kg						

Method Blank	**099-04-007-1,871**	**N/A**	**Solid**	**02/07/03**	**02/07/03**	**030207L01**

Parameter	Result	RL	DF	Qual	Units
Mercury	ND	0.0835	1		mg/kg

Method Blank	**097-01-002-4,043**	**N/A**	**Solid**	**02/07/03**	**02/10/03**	**030207L06**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Antimony	ND	0.750	1		mg/kg	Molybdenum	ND	0.250	1		mg/kg
Arsenic	ND	0.750	1		mg/kg	Nickel	ND	0.250	1		mg/kg
Barium	ND	0.500	1		mg/kg	Selenium	ND	0.750	1		mg/kg
Beryllium	ND	0.250	1		mg/kg	Silver	ND	0.250	1		mg/kg
Cadmium	ND	0.500	1		mg/kg	Thallium	ND	0.750	1		mg/kg
Chromium (Total)	ND	0.250	1		mg/kg	Vanadium	ND	0.250	1		mg/kg
Cobalt	ND	0.250	1		mg/kg	Zinc	ND	1.00	1		mg/kg
Copper	ND	0.500	1		mg/kg	Lead	ND	0.500	1		mg/kg

000145

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Date Received: 02/07/03
Work Order No: 03-02-0305
Preparation: EPA 3545
Method: EPA 8082

Project: 163482

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
B-FP-6 ; 2-2.5	**03-02-0305-1**	**02/05/03**	**Solid**	**02/07/03**	**02/07/03**	**030207L06**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Aroclor-1016	ND	50	1		ug/kg	Aroclor-1248	ND	50	1		ug/kg
Aroclor-1221	ND	50	1		ug/kg	Aroclor-1254	ND	50	1		ug/kg
Aroclor-1232	ND	50	1		ug/kg	Aroclor-1260	ND	50	1		ug/kg
Aroclor-1242	ND	50	1		ug/kg	Aroclor-1262	ND	50	1		ug/kg
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	120	50-130				2,4,5,6-Tetrachloro-m-Xylene	87	50-130			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
B-FP6 ; 5-5.5	**03-02-0305-2**	**02/05/03**	**Solid**	**02/07/03**	**02/07/03**	**030207L06**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Aroclor-1016	ND	50	1		ug/kg	Aroclor-1248	ND	50	1		ug/kg
Aroclor-1221	ND	50	1		ug/kg	Aroclor-1254	ND	50	1		ug/kg
Aroclor-1232	ND	50	1		ug/kg	Aroclor-1260	ND	50	1		ug/kg
Aroclor-1242	ND	50	1		ug/kg	Aroclor-1262	ND	50	1		ug/kg
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	71	50-130				2,4,5,6-Tetrachloro-m-Xylene	86	50-130			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
B-FP7 ; 2.5-3.0	**03-02-0305-3**	**02/05/03**	**Solid**	**02/07/03**	**02/07/03**	**030207L06**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Aroclor-1016	ND	50	1		ug/kg	Aroclor-1248	ND	50	1		ug/kg
Aroclor-1221	ND	50	1		ug/kg	Aroclor-1254	ND	50	1		ug/kg
Aroclor-1232	ND	50	1		ug/kg	Aroclor-1260	ND	50	1		ug/kg
Aroclor-1242	ND	50	1		ug/kg	Aroclor-1262	ND	50	1		ug/kg
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	90	50-130				2,4,5,6-Tetrachloro-m-Xylene	99	50-130			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
B-FP7 ; 5-5.5	**03-02-0305-4**	**02/05/03**	**Solid**	**02/07/03**	**02/07/03**	**030207L06**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Aroclor-1016	ND	50	1		ug/kg	Aroclor-1248	ND	50	1		ug/kg
Aroclor-1221	ND	50	1		ug/kg	Aroclor-1254	ND	50	1		ug/kg
Aroclor-1232	ND	50	1		ug/kg	Aroclor-1260	ND	50	1		ug/kg
Aroclor-1242	ND	50	1		ug/kg	Aroclor-1262	ND	50	1		ug/kg
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	92	50-130				2,4,5,6-Tetrachloro-m-Xylene	95	50-130			

000146

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Date Received: 02/07/03
Work Order No: 03-02-0305
Preparation: EPA 3545
Method: EPA 8082

Project: 163482

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
B-FP2 ; 2.5-3.0	03-02-0305-5	02/05/03	Solid	02/07/03	02/07/03	030207L06

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Aroclor-1016	ND	50	1		ug/kg	Aroclor-1248	ND	50	1		ug/kg
Aroclor-1221	ND	50	1		ug/kg	Aroclor-1254	ND	50	1		ug/kg
Aroclor-1232	ND	50	1		ug/kg	Aroclor-1260	ND	50	1		ug/kg
Aroclor-1242	ND	50	1		ug/kg	Aroclor-1262	ND	50	1		ug/kg
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	90	50-130				2,4,5,6-Tetrachloro-m-Xylene	99	50-130			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
B-FP2 ; 5.5-6.0	03-02-0305-6	02/05/03	Solid	02/07/03	02/07/03	030207L06

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Aroclor-1016	ND	50	1		ug/kg	Aroclor-1248	ND	50	1		ug/kg
Aroclor-1221	ND	50	1		ug/kg	Aroclor-1254	ND	50	1		ug/kg
Aroclor-1232	ND	50	1		ug/kg	Aroclor-1260	ND	50	1		ug/kg
Aroclor-1242	ND	50	1		ug/kg	Aroclor-1262	ND	50	1		ug/kg
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	74	50-130				2,4,5,6-Tetrachloro-m-Xylene	68	50-130			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
B-FP1 ; 2.5-3.0	03-02-0305-7	02/05/03	Solid	02/07/03	02/07/03	030207L06

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Aroclor-1016	ND	50	1		ug/kg	Aroclor-1248	ND	50	1		ug/kg
Aroclor-1221	ND	50	1		ug/kg	Aroclor-1254	ND	50	1		ug/kg
Aroclor-1232	ND	50	1		ug/kg	Aroclor-1260	ND	50	1		ug/kg
Aroclor-1242	ND	50	1		ug/kg	Aroclor-1262	ND	50	1		ug/kg
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	87	50-130				2,4,5,6-Tetrachloro-m-Xylene	97	50-130			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
B-FP1 ; 5.5-6.0	03-02-0305-8	02/05/03	Solid	02/07/03	02/07/03	030207L06

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Aroclor-1016	ND	50	1		ug/kg	Aroclor-1248	ND	50	1		ug/kg
Aroclor-1221	ND	50	1		ug/kg	Aroclor-1254	ND	50	1		ug/kg
Aroclor-1232	ND	50	1		ug/kg	Aroclor-1260	ND	50	1		ug/kg
Aroclor-1242	ND	50	1		ug/kg	Aroclor-1262	ND	50	1		ug/kg
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	87	50-130				2,4,5,6-Tetrachloro-m-Xylene	92	50-130			

000147

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Date Received: 02/07/03
Work Order No: 03-02-0305
Preparation: EPA 3545
Method: EPA 8082

Project: 163482

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
COMP FY	**03-02-0305-9**	**02/05/03**	**Solid**	**02/07/03**	**02/07/03**	**030207L06**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Aroclor-1016	ND	50	1		ug/kg	Aroclor-1248	ND	50	1		ug/kg
Aroclor-1221	ND	50	1		ug/kg	Aroclor-1254	ND	50	1		ug/kg
Aroclor-1232	ND	50	1		ug/kg	Aroclor-1260	ND	50	1		ug/kg
Aroclor-1242	ND	50	1		ug/kg	Aroclor-1262	ND	50	1		ug/kg
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	89	50-130				2,4,5,6-Tetrachloro-m-Xylene	90	50-130			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
COMP RY	**03-02-0305-10**	**02/05/03**	**Solid**	**02/07/03**	**02/07/03**	**030207L06**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Aroclor-1016	ND	50	1		ug/kg	Aroclor-1248	ND	50	1		ug/kg
Aroclor-1221	ND	50	1		ug/kg	Aroclor-1254	ND	50	1		ug/kg
Aroclor-1232	ND	50	1		ug/kg	Aroclor-1260	ND	50	1		ug/kg
Aroclor-1242	ND	50	1		ug/kg	Aroclor-1262	ND	50	1		ug/kg
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	87	50-130				2,4,5,6-Tetrachloro-m-Xylene	93	50-130			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-07-009-216**	**N/A**	**Solid**	**02/07/03**	**02/07/03**	**030207L06**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Aroclor-1016	ND	50	1		ug/kg	Aroclor-1248	ND	50	1		ug/kg
Aroclor-1221	ND	50	1		ug/kg	Aroclor-1254	ND	50	1		ug/kg
Aroclor-1232	ND	50	1		ug/kg	Aroclor-1260	ND	50	1		ug/kg
Aroclor-1242	ND	50	1		ug/kg	Aroclor-1262	ND	50	1		ug/kg
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	76	50-130				2,4,5,6-Tetrachloro-m-Xylene	91	50-130			

000148

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Date Received: 02/07/03
Work Order No: 03-02-0305
Preparation: EPA 3510B
Method: EPA 8082

Project: 163482

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
B-FP5	**03-02-0305-11**	**02/05/03**	**Aqueous**	**02/07/03**	**02/08/03**	**030207L04**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Aroclor-1016	ND	1.0	1		ug/L	Aroclor-1248	ND	1.0	1		ug/L
Aroclor-1221	ND	1.0	1		ug/L	Aroclor-1254	ND	1.0	1		ug/L
Aroclor-1232	ND	1.0	1		ug/L	Aroclor-1260	ND	1.0	1		ug/L
Aroclor-1242	ND	1.0	1		ug/L	Aroclor-1262	ND	1.0	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	50	50-135				2,4,5,6-Tetrachloro-m-Xylene	90	50-135			

B-FP4	**03-02-0305-12**	**02/05/03**	**Aqueous**	**02/07/03**	**02/08/03**	**030207L04**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Aroclor-1016	ND	1.0	1		ug/L	Aroclor-1248	ND	1.0	1		ug/L
Aroclor-1221	ND	1.0	1		ug/L	Aroclor-1254	ND	1.0	1		ug/L
Aroclor-1232	ND	1.0	1		ug/L	Aroclor-1260	ND	1.0	1		ug/L
Aroclor-1242	ND	1.0	1		ug/L	Aroclor-1262	ND	1.0	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	55	50-135				2,4,5,6-Tetrachloro-m-Xylene	92	50-135			

Method Blank	**099-07-010-102**	**N/A**	**Aqueous**	**02/07/03**	**02/07/03**	**030207L04**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Aroclor-1016	ND	1.0	1		ug/L	Aroclor-1248	ND	1.0	1		ug/L
Aroclor-1221	ND	1.0	1		ug/L	Aroclor-1254	ND	1.0	1		ug/L
Aroclor-1232	ND	1.0	1		ug/L	Aroclor-1260	ND	1.0	1		ug/L
Aroclor-1242	ND	1.0	1		ug/L	Aroclor-1262	ND	1.0	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	97	50-135				2,4,5,6-Tetrachloro-m-Xylene	92	50-135			

000149

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Date Received: 02/07/03
Work Order No: 03-02-0305
Preparation: EPA 3545
Method: EPA 8310

Project: 163482

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
B-FP-6 ; 2-2.5	**03-02-0305-1**	**02/05/03**	**Solid**	**02/07/03**	**02/10/03**	**030207L01**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Naphthalene	ND	50	1		ug/kg	Benzo (a) Anthracene	ND	50	1		ug/kg
Acenaphthylene	ND	50	1		ug/kg	Chrysene	ND	50	1		ug/kg
Acenaphthene	ND	50	1		ug/kg	Benzo (b) Fluoranthene	ND	50	1		ug/kg
Fluorene	ND	50	1		ug/kg	Benzo (k) Fluoranthene	ND	50	1		ug/kg
Phenanthrene	ND	50	1		ug/kg	Benzo (a) Pyrene	ND	50	1		ug/kg
Anthracene	ND	50	1		ug/kg	Dibenz (a,h) Anthracene	ND	50	1		ug/kg
Fluoranthene	ND	50	1		ug/kg	Benzo (g,h,i) Perylene	ND	50	1		ug/kg
Pyrene	ND	50	1		ug/kg	Indeno (1,2,3-c,d) Pyrene	ND	50	1		ug/kg
Surrogates:	REC (%)	Control Limits		Qual							
Decafluorobiphenyl	76	40-160									

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
B-FP6 ; 5-5.5	**03-02-0305-2**	**02/05/03**	**Solid**	**02/07/03**	**02/10/03**	**030207L01**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Naphthalene	ND	50	1		ug/kg	Benzo (a) Anthracene	ND	50	1		ug/kg
Acenaphthylene	ND	50	1		ug/kg	Chrysene	ND	50	1		ug/kg
Acenaphthene	ND	50	1		ug/kg	Benzo (b) Fluoranthene	ND	50	1		ug/kg
Fluorene	ND	50	1		ug/kg	Benzo (k) Fluoranthene	ND	50	1		ug/kg
Phenanthrene	ND	50	1		ug/kg	Benzo (a) Pyrene	ND	50	1		ug/kg
Anthracene	ND	50	1		ug/kg	Dibenz (a,h) Anthracene	ND	50	1		ug/kg
Fluoranthene	ND	50	1		ug/kg	Benzo (g,h,i) Perylene	ND	50	1		ug/kg
Pyrene	ND	50	1		ug/kg	Indeno (1,2,3-c,d) Pyrene	ND	50	1		ug/kg
Surrogates:	REC (%)	Control Limits		Qual							
Decafluorobiphenyl	84	40-160									

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
B-FP7 ; 2.5-3.0	**03-02-0305-3**	**02/05/03**	**Solid**	**02/07/03**	**02/10/03**	**030207L01**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Naphthalene	1800	50	1		ug/kg	Benzo (a) Anthracene	1500	500	10	D	ug/kg
Acenaphthylene	550	50	1		ug/kg	Chrysene	2200	500	10	D	ug/kg
Acenaphthene	140	50	1		ug/kg	Benzo (b) Fluoranthene	2000	500	10	D	ug/kg
Fluorene	91	50	1		ug/kg	Benzo (k) Fluoranthene	850	500	10	D	ug/kg
Phenanthrene	1300	500	10	D	ug/kg	Benzo (a) Pyrene	3900	500	10	D	ug/kg
Anthracene	200	50	1		ug/kg	Dibenz (a,h) Anthracene	2600	500	10	D	ug/kg
Fluoranthene	3000	500	10	D	ug/kg	Benzo (g,h,i) Perylene	3400	500	10	D	ug/kg
Pyrene	4600	500	10	D	ug/kg	Indeno (1,2,3-c,d) Pyrene	2400	500	10	D	ug/kg
Surrogates:	REC (%)	Control Limits		Qual							
Decafluorobiphenyl	105	40-160									

000150

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Date Received: 02/07/03
Work Order No: 03-02-0305
Preparation: EPA 3545
Method: EPA 8310

Project: 163482

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
B-FP7 ; 5-5.5	03-02-0305-4	02/05/03	Solid	02/07/03	02/11/03	030207L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Naphthalene	ND	50	1		ug/kg	Benzo (a) Anthracene	ND	50	1		ug/kg
Acenaphthylene	ND	50	1		ug/kg	Chrysene	ND	50	1		ug/kg
Acenaphthene	ND	50	1		ug/kg	Benzo (b) Fluoranthene	ND	50	1		ug/kg
Fluorene	ND	50	1		ug/kg	Benzo (k) Fluoranthene	ND	50	1		ug/kg
Phenanthrene	ND	50	1		ug/kg	Benzo (a) Pyrene	ND	50	1		ug/kg
Anthracene	ND	50	1		ug/kg	Dibenz (a,h) Anthracene	ND	50	1		ug/kg
Fluoranthene	ND	50	1		ug/kg	Benzo (g,h,i) Perylene	ND	50	1		ug/kg
Pyrene	ND	50	1		ug/kg	Indeno (1,2,3-c,d) Pyrene	ND	50	1		ug/kg
Surrogates:	REC (%)	Control Limits		Qual							
Decafluorobiphenyl	68	40-160									

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
B-FP2 ; 2.5-3.0	03-02-0305-5	02/05/03	Solid	02/07/03	02/10/03	030207L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Naphthalene	ND	50	1		ug/kg	Benzo (a) Anthracene	ND	50	1		ug/kg
Acenaphthylene	ND	50	1		ug/kg	Chrysene	ND	50	1		ug/kg
Acenaphthene	ND	50	1		ug/kg	Benzo (b) Fluoranthene	ND	50	1		ug/kg
Fluorene	ND	50	1		ug/kg	Benzo (k) Fluoranthene	ND	50	1		ug/kg
Phenanthrene	ND	50	1		ug/kg	Benzo (a) Pyrene	ND	50	1		ug/kg
Anthracene	ND	50	1		ug/kg	Dibenz (a,h) Anthracene	ND	50	1		ug/kg
Fluoranthene	ND	50	1		ug/kg	Benzo (g,h,i) Perylene	ND	50	1		ug/kg
Pyrene	ND	50	1		ug/kg	Indeno (1,2,3-c,d) Pyrene	ND	50	1		ug/kg
Surrogates:	REC (%)	Control Limits		Qual							
Decafluorobiphenyl	88	40-160									

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
B-FP2 ; 5.5-6.0	03-02-0305-6	02/05/03	Solid	02/07/03	02/10/03	030207L01

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Naphthalene	ND	50	1		ug/kg	Benzo (a) Anthracene	ND	50	1		ug/kg
Acenaphthylene	ND	50	1		ug/kg	Chrysene	ND	50	1		ug/kg
Acenaphthene	ND	50	1		ug/kg	Benzo (b) Fluoranthene	ND	50	1		ug/kg
Fluorene	ND	50	1		ug/kg	Benzo (k) Fluoranthene	ND	50	1		ug/kg
Phenanthrene	ND	50	1		ug/kg	Benzo (a) Pyrene	ND	50	1		ug/kg
Anthracene	ND	50	1		ug/kg	Dibenz (a,h) Anthracene	ND	50	1		ug/kg
Fluoranthene	ND	50	1		ug/kg	Benzo (g,h,i) Perylene	ND	50	1		ug/kg
Pyrene	ND	50	1		ug/kg	Indeno (1,2,3-c,d) Pyrene	ND	50	1		ug/kg
Surrogates:	REC (%)	Control Limits		Qual							
Decafluorobiphenyl	70	40-160									

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Date Received: 02/07/03
Work Order No: 03-02-0305
Preparation: EPA 3545
Method: EPA 8310

Project: 163482

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
B-FP1 ; 2.5-3.0	**03-02-0305-7**	**02/05/03**	**Solid**	**02/07/03**	**02/10/03**	**030207L01**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Naphthalene	ND	50	1		ug/kg	Benzo (a) Anthracene	ND	50	1		ug/kg
Acenaphthylene	ND	50	1		ug/kg	Chrysene	ND	50	1		ug/kg
Acenaphthene	ND	50	1		ug/kg	Benzo (b) Fluoranthene	ND	50	1		ug/kg
Fluorene	ND	50	1		ug/kg	Benzo (k) Fluoranthene	ND	50	1		ug/kg
Phenanthrene	ND	50	1		ug/kg	Benzo (a) Pyrene	ND	50	1		ug/kg
Anthracene	ND	50	1		ug/kg	Dibenz (a,h) Anthracene	ND	50	1		ug/kg
Fluoranthene	ND	50	1		ug/kg	Benzo (g,h,i) Perylene	ND	50	1		ug/kg
Pyrene	ND	50	1		ug/kg	Indeno (1,2,3-c,d) Pyrene	ND	50	1		ug/kg
Surrogates:	REC (%)	Control Limits		Qual							
Decafluorobiphenyl	64	40-160									

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
B-FP1 ; 5.5-6.0	**03-02-0305-8**	**02/05/03**	**Solid**	**02/07/03**	**02/10/03**	**030207L01**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Naphthalene	ND	50	1		ug/kg	Benzo (a) Anthracene	ND	50	1		ug/kg
Acenaphthylene	ND	50	1		ug/kg	Chrysene	ND	50	1		ug/kg
Acenaphthene	ND	50	1		ug/kg	Benzo (b) Fluoranthene	ND	50	1		ug/kg
Fluorene	ND	50	1		ug/kg	Benzo (k) Fluoranthene	ND	50	1		ug/kg
Phenanthrene	ND	50	1		ug/kg	Benzo (a) Pyrene	ND	50	1		ug/kg
Anthracene	ND	50	1		ug/kg	Dibenz (a,h) Anthracene	ND	50	1		ug/kg
Fluoranthene	ND	50	1		ug/kg	Benzo (g,h,i) Perylene	ND	50	1		ug/kg
Pyrene	ND	50	1		ug/kg	Indeno (1,2,3-c,d) Pyrene	ND	50	1		ug/kg
Surrogates:	REC (%)	Control Limits		Qual							
Decafluorobiphenyl	66	40-160									

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
COMP FY	**03-02-0305-9**	**02/05/03**	**Solid**	**02/07/03**	**02/10/03**	**030207L01**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Naphthalene	ND	50	1		ug/kg	Benzo (a) Anthracene	ND	50	1		ug/kg
Acenaphthylene	ND	50	1		ug/kg	Chrysene	ND	50	1		ug/kg
Acenaphthene	ND	50	1		ug/kg	Benzo (b) Fluoranthene	ND	50	1		ug/kg
Fluorene	ND	50	1		ug/kg	Benzo (k) Fluoranthene	ND	50	1		ug/kg
Phenanthrene	ND	50	1		ug/kg	Benzo (a) Pyrene	ND	50	1		ug/kg
Anthracene	ND	50	1		ug/kg	Dibenz (a,h) Anthracene	ND	50	1		ug/kg
Fluoranthene	ND	50	1		ug/kg	Benzo (g,h,i) Perylene	ND	50	1		ug/kg
Pyrene	ND	50	1		ug/kg	Indeno (1,2,3-c,d) Pyrene	ND	50	1		ug/kg
Surrogates:	REC (%)	Control Limits		Qual							
Decafluorobiphenyl	79	40-160									

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Date Received: 02/07/03
Work Order No: 03-02-0305
Preparation: EPA 3545
Method: EPA 8310

Project: 163482

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
COMP RY	**03-02-0305-10**	**02/05/03**	**Solid**	**02/07/03**	**02/10/03**	**030207L01**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Naphthalene	ND	50	1		ug/kg	Benzo (a) Anthracene	ND	50	1		ug/kg
Acenaphthylene	ND	50	1		ug/kg	Chrysene	ND	50	1		ug/kg
Acenaphthene	ND	50	1		ug/kg	Benzo (b) Fluoranthene	ND	50	1		ug/kg
Fluorene	ND	50	1		ug/kg	Benzo (k) Fluoranthene	ND	50	1		ug/kg
Phenanthrene	ND	50	1		ug/kg	Benzo (a) Pyrene	ND	50	1		ug/kg
Anthracene	ND	50	1		ug/kg	Dibenz (a,h) Anthracene	ND	50	1		ug/kg
Fluoranthene	ND	50	1		ug/kg	Benzo (g,h,i) Perylene	ND	50	1		ug/kg
Pyrene	ND	50	1		ug/kg	Indeno (1,2,3-c,d) Pyrene	ND	50	1		ug/kg
Surrogates:	REC (%)	Control Limits		Qual							
Decafluorobiphenyl	65	40-160									

Method Blank	**099-07-002-270**	**N/A**	**Solid**	**02/07/03**	**02/07/03**	**030207L01**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Naphthalene	ND	50	1		ug/kg	Benzo (a) Anthracene	ND	50	1		ug/kg
Acenaphthylene	ND	50	1		ug/kg	Chrysene	ND	50	1		ug/kg
Acenaphthene	ND	50	1		ug/kg	Benzo (b) Fluoranthene	ND	50	1		ug/kg
Fluorene	ND	50	1		ug/kg	Benzo (k) Fluoranthene	ND	50	1		ug/kg
Phenanthrene	ND	50	1		ug/kg	Benzo (a) Pyrene	ND	50	1		ug/kg
Anthracene	ND	50	1		ug/kg	Dibenz (a,h) Anthracene	ND	50	1		ug/kg
Fluoranthene	ND	50	1		ug/kg	Benzo (g,h,i) Perylene	ND	50	1		ug/kg
Pyrene	ND	50	1		ug/kg	Indeno (1,2,3-c,d) Pyrene	ND	50	1		ug/kg
Surrogates:	REC (%)	Control Limits		Qual							
Decafluorobiphenyl	97	40-160									

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

ANALYTICAL REPORT

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Date Received: 02/07/03
Work Order No: 03-02-0305
Preparation: EPA 3510B
Method: EPA 8310

Project: 163482

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
B-FP5	**03-02-0305-11**	**02/05/03**	**Aqueous**	**02/07/03**	**02/10/03**	**030207L02**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Naphthalene	ND	1.0	1		ug/L	Benzo (a) Anthracene	ND	1.0	1		ug/L
Acenaphthylene	ND	1.0	1		ug/L	Chrysene	ND	1.0	1		ug/L
Acenaphthene	ND	1.0	1		ug/L	Benzo (b) Fluoranthene	ND	1.0	1		ug/L
Fluorene	ND	1.0	1		ug/L	Benzo (k) Fluoranthene	ND	1.0	1		ug/L
Phenanthrene	ND	1.0	1		ug/L	Benzo (a) Pyrene	ND	0.20	1		ug/L
Anthracene	ND	1.0	1		ug/L	Dibenz (a,h) Anthracene	ND	1.0	1		ug/L
Fluoranthene	ND	1.0	1		ug/L	Benzo (g,h,i) Perylene	ND	1.0	1		ug/L
Pyrene	ND	1.0	1		ug/L	Indeno (1,2,3-c,d) Pyrene	ND	1.0	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual							
Decafluorobiphenyl	69	40-160									

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
B-FP4	**03-02-0305-12**	**02/05/03**	**Aqueous**	**02/07/03**	**02/10/03**	**030207L02**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Naphthalene	ND	1.0	1		ug/L	Benzo (a) Anthracene	ND	1.0	1		ug/L
Acenaphthylene	ND	1.0	1		ug/L	Chrysene	ND	1.0	1		ug/L
Acenaphthene	ND	1.0	1		ug/L	Benzo (b) Fluoranthene	ND	1.0	1		ug/L
Fluorene	ND	1.0	1		ug/L	Benzo (k) Fluoranthene	ND	1.0	1		ug/L
Phenanthrene	ND	1.0	1		ug/L	Benzo (a) Pyrene	ND	0.20	1		ug/L
Anthracene	ND	1.0	1		ug/L	Dibenz (a,h) Anthracene	ND	1.0	1		ug/L
Fluoranthene	ND	1.0	1		ug/L	Benzo (g,h,i) Perylene	ND	1.0	1		ug/L
Pyrene	ND	1.0	1		ug/L	Indeno (1,2,3-c,d) Pyrene	ND	1.0	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual							
Decafluorobiphenyl	93	40-160									

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-07-003-234**	**N/A**	**Aqueous**	**02/07/03**	**02/07/03**	**030207L02**

Parameter	Result	RL	DF	Qual	Units	Parameter	Result	RL	DF	Qual	Units
Naphthalene	ND	1.0	1		ug/L	Benzo (a) Anthracene	ND	1.0	1		ug/L
Acenaphthylene	ND	1.0	1		ug/L	Chrysene	ND	1.0	1		ug/L
Acenaphthene	ND	1.0	1		ug/L	Benzo (b) Fluoranthene	ND	1.0	1		ug/L
Fluorene	ND	1.0	1		ug/L	Benzo (k) Fluoranthene	ND	1.0	1		ug/L
Phenanthrene	ND	1.0	1		ug/L	Benzo (a) Pyrene	ND	0.20	1		ug/L
Anthracene	ND	1.0	1		ug/L	Dibenz (a,h) Anthracene	ND	1.0	1		ug/L
Fluoranthene	ND	1.0	1		ug/L	Benzo (g,h,i) Perylene	ND	1.0	1		ug/L
Pyrene	ND	1.0	1		ug/L	Indeno (1,2,3-c,d) Pyrene	ND	1.0	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual							
Decafluorobiphenyl	76	40-160									

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Date Received: 02/07/03
Work Order No: 03-02-0305
Preparation: Total Digestion
Method: EPA 6010B

Project: 163482

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B-FP1 ; 2.5-3.0	Solid	ICP 3300	02/07/03	02/10/03	030207S06

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	71	69	50-115	2	0-20	
Arsenic	99	97	75-125	2	0-20	
Barium	114	113	75-125	1	0-20	
Beryllium	98	96	75-125	2	0-20	
Cadmium	96	95	75-125	2	0-20	
Chromium (Total)	102	96	75-125	4	0-20	
Cobalt	103	101	75-125	1	0-20	
Copper	102	101	75-125	1	0-20	
Lead	96	95	75-125	2	0-20	
Molybdenum	96	96	75-125	1	0-20	
Nickel	104	102	75-125	2	0-20	
Selenium	96	93	75-125	4	0-20	
Silver	97	95	75-125	2	0-20	
Thallium	91	93	75-125	2	0-20	
Vanadium	103	100	75-125	2	0-20	
Zinc	99	97	75-125	2	0-20	

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Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Project: 163482

Date Received: 02/07/03
Work Order No: 03-02-0305
Preparation: Total Digestion
Method: EPA 6010B

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-002-4,043	Solid	ICP 3300	02/10/03	030207-I-06	030207L06

Parameter	Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Antimony	50.0	42.2	84	80-120	
Arsenic	50.0	44.2	88	80-120	
Barium	50.0	52.0	104	80-120	
Beryllium	50.0	46.7	93	80-120	
Cadmium	50.0	46.9	94	80-120	
Chromium (Total)	50.0	46.2	92	80-120	
Cobalt	50.0	49.9	100	80-120	
Copper	50.0	46.2	92	80-120	
Lead	50.0	46.6	93	80-120	
Molybdenum	50.0	47.5	95	80-120	
Nickel	50.0	47.9	96	80-120	
Selenium	50.0	44.4	89	80-120	
Silver	25.0	22.8	91	80-120	
Thallium	50.0	46.9	94	80-120	
Vanadium	50.0	45.7	91	80-120	
Zinc	50.0	47.7	95	80-120	

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Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Project: 163482

Date Received: 02/07/03
Work Order No: 03-02-0305
Preparation: Total Digestion
Method: EPA 7471A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
03-02-0302-2	Solid	Mercury	02/07/03	02/07/03	030207S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	116	117	76-136	1	0-16	

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Quality Control - Laboratory Control Sample

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Project: 163482

Date Received: 02/07/03
Work Order No: 03-02-0305
Preparation: Total Digestion
Method: EPA 7471A

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-04-007-1,871	Solid	Mercury	02/07/03	030207L01	030207L01

Parameter	Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Mercury	0.835	0.843	101	82-124	

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Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Project: 163482

Date Received: 02/07/03
Work Order No: 03-02-0305
Preparation: EPA 3545
Method: EPA 8082

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
03-02-0303-3	Solid	GC 10	02/07/03	02/07/03	030207S06

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1260	253	307	50-135	19	0-25	3

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Project: 163482

Date Received: 02/07/03
Work Order No: 03-02-0305
Preparation: EPA 3545
Method: EPA 8082

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-07-009-216	Solid	GC 10	02/07/03	02/07/03	030207L06

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1260	114	116	50-135	1	0-25	

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Project: 163482

Date Received: 02/07/03
Work Order No: 03-02-0305
Preparation: EPA 3510B
Method: EPA 8082

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-07-010-102	Aqueous	GC 10	02/07/03	02/07/03	030207L04

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Aroclor-1260	114	112	50-135	2	0-25	

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Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Project: 163482

Date Received: 02/07/03
Work Order No: 03-02-0305
Preparation: EPA 3545
Method: EPA 8310

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
03-02-0304-4	Solid	HPLC 5	02/07/03	02/07/03	030207S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzo (b) Fluoranthene	109	109	40-160	0	0-20	
Benzo (k) Fluoranthene	110	110	40-160	0	0-20	
Benzo (a) Pyrene	102	102	40-160	0	0-20	
Dibenz (a,h) Anthracene	112	112	40-160	0	0-20	
Benzo (g,h,i) Perylene	108	107	40-160	0	0-20	
Indeno (1,2,3-c,d) Pyrene	105	105	40-160	0	0-20	

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Quality Control - LCS/LCS Duplicate

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Berkeley, CA 94710-2407

Project: 163482

Date Received: 02/07/03
Work Order No: 03-02-0305
Preparation: EPA 3545
Method: EPA 8310

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-07-002-270	Solid	HPLC 5	02/07/03	02/07/03	030207L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzo (b) Fluoranthene	108	107	40-160	1	0-20	
Benzo (k) Fluoranthene	110	110	40-160	0	0-20	
Benzo (a) Pyrene	99	97	40-160	2	0-20	
Dibenz (a,h) Anthracene	112	111	40-160	0	0-20	
Benzo (g,h,i) Perylene	105	104	40-160	1	0-20	
Indeno (1,2,3-c,d) Pyrene	105	105	40-160	0	0-20	

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Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Project: 163482

Date Received: 02/07/03
Work Order No: 03-02-0305
Preparation: EPA 3510B
Method: EPA 8310

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
03-02-0292-5	Aqueous	HPLC 5	02/07/03	02/07/03	030207S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzo (b) Fluoranthene	106	106	40-160	0	0-20	
Benzo (k) Fluoranthene	108	107	40-160	0	0-20	
Benzo (a) Pyrene	100	99	40-160	1	0-20	
Dibenz (a,h) Anthracene	109	109	40-160	0	0-20	
Benzo (g,h,i) Perylene	103	102	40-160	1	0-20	
Indeno (1,2,3-c,d) Pyrene	102	102	40-160	0	0-20	

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Curtis & Tompkins, Ltd.
2323 Fifth Street
Berkeley, CA 94710-2407

Project: 163482

Date Received: 02/07/03
Work Order No: 03-02-0305
Preparation: EPA 3510B
Method: EPA 8310

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-07-003-234	Aqueous	HPLC 5	02/07/03	02/07/03	030207L02

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzo (b) Fluoranthene	98	99	40-160	1	0-20	
Benzo (k) Fluoranthene	100	101	40-160	1	0-20	
Benzo (a) Pyrene	89	90	40-160	1	0-20	
Dibenz (a,h) Anthracene	100	102	40-160	2	0-20	
Benzo (g,h,i) Perylene	94	95	40-160	0	0-20	
Indeno (1,2,3-c,d) Pyrene	94	95	40-160	1	0-20	

000165

Calscience Environmental Laboratories, Inc.

GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 03-02-0305

Qualifier	Definition
3	Spike or Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
D	The sample data was reported from a diluted analysis.
ND	Not detected at indicated reporting limit.

000166

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 03-02-0305

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: C+T DATE: 2/7/03

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.
_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

2 °C Temperature blank.
_____ °C IR thermometer.
_____ Ambient temperature.

Initial: NC

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Applicable (N/A): ✓

Initial: NC

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers for analyses requested	✓		
Proper preservation noted on sample label(s)	✓		
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation			✓

Initial: NC

COMMENTS:

000167

0305

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900
(510) 486-0532

Project Number: 163482

Subcontract Laboratory:
Cal Science
7440 Lincoln Way
Garden Grove, CA 92641-1432
(714) 895-5494
ATTN: Jody McInerney x132

Results due: ~~02/12/03~~ 02/13/03 JM Report Level: II

Please send report to: James Brownfield
*** Please report using Sample ID rather than C&T Lab #.

Sample ID	Sampled	Matrix	Analysis	C&T Lab #	Comments
B-FP-6;2-2.5	02/05	Soil	8310	163482-001	
B-FP-6;2-2.5	02/05	Soil	PCB	163482-001	
B-FP-6;2-2.5	02/05	Soil	T26 MET	163482-001	1
B-FP-6;2-2.5	02/05	Soil	T26/HG	163482-001	
B-FP-6;2-2.5	02/05	Soil	T26/ICP	163482-001	
B-FP6;5-5.5	02/05	Soil	8310	163482-003	
B-FP6;5-5.5	02/05	Soil	PCB	163482-003	
B-FP6;5-5.5	02/05	Soil	T26 MET	163482-003	2
B-FP6;5-5.5	02/05	Soil	T26/HG	163482-003	
B-FP6;5-5.5	02/05	Soil	T26/ICP	163482-003	
B-FP7;2.5-3.0	02/05	Soil	8310	163482-008	
B-FP7;2.5-3.0	02/05	Soil	PCB	163482-008	
B-FP7;2.5-3.0	02/05	Soil	T26 MET	163482-008	3
B-FP7;2.5-3.0	02/05	Soil	T26/HG	163482-008	
B-FP7;2.5-3.0	02/05	Soil	T26/ICP	163482-008	
B-FP7;5-5.5	02/05	Soil	8310	163482-009	
B-FP7;5-5.5	02/05	Soil	PCB	163482-009	
B-FP7;5-5.5	02/05	Soil	T26 MET	163482-009	4
B-FP7;5-5.5	02/05	Soil	T26/HG	163482-009	
B-FP7;5-5.5	02/05	Soil	T26/ICP	163482-009	
B-FP2;2.5-3.0	02/05	Soil	8310	163482-014	
B-FP2;2.5-3.0	02/05	Soil	PCB	163482-014	
B-FP2;2.5-3.0	02/05	Soil	T26 MET	163482-014	5
B-FP2;2.5-3.0	02/05	Soil	T26/HG	163482-014	
B-FP2;2.5-3.0	02/05	Soil	T26/ICP	163482-014	
B-FP2;5.5-6.0	02/05	Soil	8310	163482-016	
B-FP2;5.5-6.0	02/05	Soil	PCB	163482-016	
B-FP2;5.5-6.0	02/05	Soil	T26 MET	163482-016	6
B-FP2;5.5-6.0	02/05	Soil	T26/HG	163482-016	
B-FP2;5.5-6.0	02/05	Soil	T26/ICP	163482-016	
B-FP1;2.5-3.0	02/05	Soil	8310	163482-020	
B-FP1;2.5-3.0	02/05	Soil	PCB	163482-020	
B-FP1;2.5-3.0	02/05	Soil	T26 MET	163482-020	7

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0305

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900
(510) 486-0532

Sample ID	Sampled	Matrix	Analysis	C&T Lab #	Comments
B-FP1;2.5-3.0	02/05	Soil	T26/HG	163482-020	
B-FP1;2.5-3.0	02/05	Soil	T26/ICP	163482-020	
B-FP1;5.5-6.0	02/05	Soil	8310	163482-022	
B-FP1;5.5-6.0	02/05	Soil	PCB	163482-022	
B-FP1;5.5-6.0	02/05	Soil	T26 MET	163482-022	8
B-FP1;5.5-6.0	02/05	Soil	T26/HG	163482-022	
B-FP1;5.5-6.0	02/05	Soil	T26/ICP	163482-022	
COMP FY	02/05 -025,-026,-027,-028	Soil	8310	163482-029 comp	
COMP FY	02/05 -025,-026,-027,-028	Soil	PCB	163482-029 comp	Already Comp'ed JHB 2/6
COMP FY	02/05 -025,-026,-027,-028	Soil	T26 MET	163482-029 comp	9
COMP FY	02/05 -025,-026,-027,-028	Soil	T26/HG	163482-029 comp	
COMP FY	02/05 -025,-026,-027,-028	Soil	T26/ICP	163482-029 comp	
COMP RY	02/05 -030,-031,-032	Soil	8310	163482-033 comp	
COMP RY	02/05 -030,-031,-032	Soil	PCB	163482-033 comp	Already Comp'ed JHB 2/6
COMP RY	02/05 -030,-031,-032	Soil	T26 MET	163482-033 comp	10
COMP RY	02/05 -030,-031,-032	Soil	T26/HG	163482-033 comp	
COMP RY	02/05 -030,-031,-032	Soil	T26/ICP	163482-033 comp	
B-FP5	02/05	Water	8310	163482-035	11
B-FP5	02/05	Water	PCB	163482-035	
B-FP4	02/05	Water	8310	163482-036	
B-FP4	02/05	Water	PCB	163482-036	12

Notes:	Relinquished By:	Received By:
	Date/Time: 2-6-03 4:30 PM	Date/Time: 2/7/03 9:30

Signature on this form constitutes a firm Purchase Order for the services requested above.

000169

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

ANALYTICAL REPORT

Prepared for:

Baseline Environmental
5900 Hollis Street
Suite D
Emeryville, CA 94608

Date: 13-FEB-03
Lab Job Number: 163562
Project ID: Y0323-01
Location: 751-785 Brush St.

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Reviewed by: _____
Project Manager

Reviewed by: _____
Operations Manager

000170

[redacted] 5900 Hollis Street, Suite D
Emeryville, CA 94608
Tel (510) 420-8686 Fax: (510) 420-1707

CHAIN OF CUSTODY RECORD

[redacted] Lab
BASELINE Contact Person

Project Number	Project Name and Location
Y0323-01	751 - 785 Brush St.

Samplers: (Signature)

	Sample ID No. Station	Date:	Time:	Media	Containers: Type: No.	SS	40-ml VOA	LaG	250 ml Poly	L-Poly	Enzyme	Preservative: None (Ice)	HCl	NO_3	SO_4		Tph-g gasoline	Tph-d diesel (with silica gel cleanup)	VOC	PAH (8310)	PCB	T.Ni 22 metals	Cyanide	Cr +6	pH (added 2/10/03)	Remarks/ Composite
-1	B-FP3; 1.5	2/4/03	8:10	S	4						X	X					X		X						
-2	B-FP3; 1.5-2.0		8:10	S	1	X						X						X		X	X	X	X	X	X
-3	B-FP3; 5.0		8:30	S	4						X	X					X		X						Hold WLS
-4	B-FP3; 5.0-5.5		8:30	S	1	X						X						X		X	X	X	X	X	Hold WLS
-5	B-FP3; 10-10.5		8:40	S	1	X						X													Hold
-6	B-FP3; 15-15.5		8:50	S	1	X						X													Hold
-7	B-FP3; 20-20.5		9:40	S	1	X						X													Hold
-8	B-FP4; 2.0-2.5		10:15	S	1	X						X						X		X	X	X	X	X	X (stored in cooler)
-9	B-FP4; 2.5-		10:25	S	5						X	X					X		X						
-10	B-FP4; 5-5.5		10:40	S	1	X						X					X	X	X	X	X	X	X	X	Hold WLS
-11	B-FP4; 10-10.5		10:55	S	1	X						X													Hold
-12	B-FP4; 15-15.5		11:10	S	1	X						X													Hold
-13	B-FP4; 19.5-20		11:40	S	1	X						X													Hold

Relinquished by (Signature)	Custody Seal: Yes / No	Date/Time	Received by (Signature)	Custody Seal intact: Yes / No / NA	Date/Time	Conditions of Samples Upon Arrival at Laboratory
[signature]	Yes / No	2-4-03 / 15:30				Intact & cold
Relinquished by: (Signature)	Custody Seal: Yes / No	Date/Time	Received by: (Signature)	Custody Seal intact: Yes / No / NA	Date/Time	Remarks: Please FAX chain of custody To Phoebe @ 420 1707 *If Total Metals > 10 x STLC run Soluable Metal
Relinquished by: (Signature)	Custody Seal: Yes / No	Date/Time	Received by: (Signature)	Custody Seal intact: Yes / No / NA	Date/Time	
Received at laboratory with intact custody seal: (Signature) [signature]		Date/Time 2-4-03 / 1645	Comments			

B-3, B-4

163466

BASELINE
5900 Hollis Street, Suite D
Emeryville, CA 94608
Tel (510) 420-8686 Fax (510) 420-1707

CHAIN OF CUSTODY RECORD

Turn-around Time: 5-day
Lab: Curtis & Tompkins
BASELINE Contact Person: Rhodam Delicado

Project Number	Project Name and Location
Y0 323-01	751-765 Bryant St

Samplers: (Signature) [signature]

	Sample ID No. Station	Date	Time	Media	No.	SS	40 ml VOA	L-AG	250 ml Poly	L-Poly	Encore		None (Ice)	HCl	NO_3	SO_4		TPH as gasoline	TPH as diesel (w/ sgcl)	VOC	PAHs (8270)	PCB	Title 22 metals +	Cyanide	Cr 6+	pH added 2/10/03	Remarks/ Composite
-14	B-FPS; 2-2.5	2/4/03	13:00	S	1	X							X						X		X	X	X	X	X	⊗	
-15	B-FPS; 2.5	2/4/03	13:00	S	5						X		X					X		X							
-16	B-FPS; 5-5.5	↓	13:10	S	1	X							X						X		X	X	X	X	X	⊗	
-17	B-FPS; 5.5	↓	13:10	S	5						X		X					X		X							
-18	B-FPS; 10-10.5	↓	13:30	S	1	X							X														Hold
-19	B-FPS; 15-15.5	↓	13:40	S	1	X							X														Hold

Relinquished by: (Signature)	Custody Seal	Date/Time	Received by: (Signature)	Custody Seal intact	Date/Time	Conditions of Samples Upon Arrival at Laboratory
[signature]	(Yes) No	2-4-03 / 15:30		Yes No NA		Intact & cold
Relinquished by: (Signature)	Custody Seal Yes No	Date/Time	Received by: (Signature)	Custody Seal intact Yes No NA	Date/Time	Remarks: Please fax chain of custody to Rhodam @ 420-1707
Relinquished by: (Signature)	Custody Seal Yes No	Date/Time	Received by: (Signature)	Custody Seal intact Yes No NA	Date/Time	* If Total Metal is > 10 x STLC then run Soluble metal

Received at laboratory with intact custody seal (Signature)	Date/Time	Comments:
[signature]	2-4-03 / 1645	

D:\Graphic\Chain of Custody Record\Baseline.cdr 9/02

000172

B-5

Feb-05-03 11:00am From-CURTIS & TOMPKINS 5104860532 T-846 P.03/03 F-834

Sent By: BASELINE; 510 420 1707; Feb-10-03 15:35; Page 2

Tracy Babjar

From: Rhodora Del Rosario <rhodora@baseline-env.com>
To: <tracy@ctberk.com>
Sent: Monday, February 10, 2003 4:17 PM
Subject: Fwd: Re: Fw: EDD

One clarification. Discrete encore samples need not be analyzed for pH. Thanks, Rhodora

Date: Mon, 10 Feb 2003 15:56:07 -0800
To: "Tracy Babjar" <tracy@ctberk.com>
From: Rhodora Del Rosario <rhodora@baseline-env.com>
Subject: Re: Fw: EDD

Hey Tracy,
Got your voicemail. It looks like I actually need some of the samples analyzed for pH as well as chromium 6.

From CT# 163466

Please analyze **ALL DISCRETE** samples that are NOT on hold for pH!!! Please analyze **composite samples Comp-FY and Comp-RY** for pH also.

Please analyze the following for chromium 6:
1) B-FP1; 2.5-3.0
2) B-FP1; 5.5-6.0
3) B-FP2; 2.5-3.0
4) B-FP2; 5.5-6.0
5) B-FP6; 2-2.5
6) B-FP6; 5-5.5
7) B-FP7; 2.5-3.0
8) B-FP7; 5-5.5

Let me know if you have any questions. Thanks, Rhodora

At 03:38 PM 2/10/03 -0800, you wrote:

> EDD from Cal Science.
> ----- Original Message -----
> From: Don Burley <dburley@calscience.com>
> To: <tracy@ctberk.com>
> Sent: Monday, February 10, 2003 3:25 PM
> Subject: EDD
>
> > Tracy,
> >
> > Attached is project 163466 in an Excel spreadsheet.
> >
> > Don
>
> ---
>
> >
> >

000173

2/10/03

CURTIS & TOMPKINS, LTD. BERKELEY LOGIN CHANGE FORM

Reason for change: ___X___ Client Request: By: Rhodra Dol Rosa Date/Time: 2-10-03 Initials: TO
_____ Login Review _____ Data Review

Current Lab ID	Previous Lab ID	Client ID	Matrix	Add/Cancel	Analysis	Duedate
163562 -001	163466-003	B-FP3; 1.5-2.0	Soil	Add	pH	2
-002	163466-004	B-FP3; 5.0-5.5	Soil	Add	pH	
-003	163466-008	B-FP4; 2.0-2.5	Soil	Add	pH	
-004	163466-010	B-FP4; 5.5-5.5	Soil	Add	pH	
-005	163466-014	B-FP5; 2-2.5	Soil	Add	pH	
163562 -006	163466-016	B-FP5; 5.5	Soil	Add	pH	17

Curtis & Tompkins, Ltd.

P270000

Curtis & Tompkins, Ltd.

pH

Lab #:	163562	Location:	751-785 Brush St.
Client:	Baseline Environmental	Analysis:	EPA 9045C
Project#:	Y0323-01		
Analyte:	pH	Batch#:	79135
Matrix:	Soil	Sampled:	02/04/03
Units:	SU	Received:	02/04/03
Diln Fac:	1.000	Analyzed:	02/12/03

Field ID	Lab ID	Result	RL
B-FP3;1.5-2.0	163562-001	7.0	1.0
B-FP3;5.0-5.5	163562-002	6.4	1.0
B-FP4;2.0-2.5	163562-003	5.9	1.0
B-FP4;5-5.5	163562-004	7.5	1.0
B-FP5;2-2.5	163562-005	7.8	1.0
B-FP5;5-5.5	163562-006	7.5	1.0

RL= Reporting Limit

Curtis & Tompkins, Ltd.

pH

Lab #:	163562	Location:	751-785 Brush St.
Client:	Baseline Environmental	Analysis:	EPA 9045C
Project#:	Y0323-01		
Analyte:	pH	Units:	SU
Field ID:	B-FP5;5-5.5	Diln Fac:	1.000
Type:	SDUP	Batch#:	79135
MSS Lab ID:	163562-006	Sampled:	02/04/03
Lab ID:	QC204491	Received:	02/04/03
Matrix:	Soil	Analyzed:	02/12/03

MSS Result	Result	RL	RPD	Lim
7.500	7.560	1.0	1	20

RL= Reporting Limit
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

ANALYTICAL REPORT

Prepared for:

Baseline Environmental
5900 Hollis Street
Suite D
Emeryville, CA 94608

Date: 24-FEB-03
Lab Job Number: 163565
Project ID: Y0323-01
Location: 751-785 Brush St.

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Reviewed by: _____
Project Manager

Reviewed by: _____
Operations Manager

BASELINE
5900 Hollis Street, Suite D
Emeryville, CA 94608
Tel: (510) 420-8686 Fax: (510) 420-1707

CHAIN OF CUSTODY RECORD

Turn-around Time:
Lab: Curtis + Tompkins
BASELINE Contact Person: Rhodora Delisano

Project Number: Y0323-01

Project Name and Location: 751-785 Brush ST

Samplers: (Signature) [signature]

Sample ID No. Station	Date	Time	Media	No.	SS	Encore	L-AQ	40-ml VOA	L-Poly	250 ml Poly	[illegible]	None	HCl	NO_3	SO_4	TPH as gasoline	TPH as diesel	VOC	PAHs (8310)	PCB	Cyanide	Title 22 metals *	Cr 6+ (added 2/10/03)	pH (added 2/10/03)	Remarks/Composite
B-FP-2; 2.5	2/5/03	10:10	S	5							X	X				X		X							
B-FP2; 2.5-3.0	↓	10:10	S	1	X							X					X		X	X	X	X	(X)	(X)	
B-FP2; 5.5		10:20	S	5							X	X				X		X							
B-FP2; 5.5-6.0		10:20	S	1	X							X					X		X	X	X	X	(X)	(X)	
B-FP2; 10-10.5		10:40	S	1	X							X													HOLD
B-FP2; 15-15.5		10:50	S	1	X							X													HOLD
B-FP1; 2.5	2/5/03	11:10	S	5							X	X				X		X							
B-FP1; 2.5-3.0	↓	11:10	S	1	X							X					X		X	X	X	X	(X)	(X)	
B-FP1; 5.5		11:20	S	5							X	X				X		X							
B-FP1; 5.5-6.0		11:20	S	1	X							X					X		X	X	X	X	(X)	(X)	
B-FP1; 10-10.5		11:40	S	1	X							X													HOLD
B-FP1; 15-15.5		11:50	S	1	X							X													HOLD

Preservation Correct? ☒ Yes ☐ No ☐ N/A

Received ☒ On Ice ☒ Cold ☐ Ambient ☒ Intact

Relinquished by: (Signature)	Custody Seal	Date/Time	Received by: (Signature)	Custody Seal intact	Date/Time
[signature]	Yes (No)	2/5/03/12:20	[signature]	Yes No NA	2/5/03 12:20 pm
Relinquished by: (Signature)	Yes No	Date/Time	Received by: (Signature)	Yes No NA	Date/Time
Relinquished by: (Signature)	Yes No	Date/Time	Received by: (Signature)	Yes No NA	Date/Time

Conditions of Samples Upon Arrival at Laboratory:

Remarks: If analyzing for MTBE, confirm any hits with EPA method 8260

* Run soluble if 10X STLC.

Received at laboratory with intact custody seal: (Signature) | Date/Time | Comments:

D:\Graphics\Chain of Custody Record\A Intranet.cdr 5/02

0008200

B-2B

[redacted] B ASE[redacted] E [redacted] CHA[redacted]F C[redacted] RE[redacted] BASELINE[redacted]act [redacted]

5900 Hollis Street, Suite D
Emeryville, CA 94608
Tel: (510) 420-8686 Fax: (510) 420-1707

Project Number: Y0323-01

Project Name and Location: 751-785 Brush ST

Samplers: (Signature) [signature]

Containers: Type (No., SS, 40-ml VOA, L-AG, 250 ml Poly, L-Poly, Encore); Preservative (None (Ice), HCl, HNO_3, H_2SO_4)

Analyses: TPH as gasoline; TPH as diesel with silica gel cleanup; VOC; PAHs (8310); PCB; Cyanide; DHS 22 metals *; Cr+6 (added 2/10/03); pH (added 2/10/03)

Sample ID No. Station	Date	Time	Media	No.	SS	Encore	None (Ice)	TPH as gasoline	TPH as diesel	VOC	PAHs (8310)	PCB	Cyanide	DHS 22 metals *	Cr+6	pH	Remarks/ Composite
B-FP-6; 2-2.5	2/5/03	7:50	S	1	X		X		X		X	X	X	X	X	X	
B-FP6; 2.5	↓	7:50	S	[illegible]		X		X		X							
B-FP6; 5-5.5		8:00	S	1	X				X		X	X	X	X	X	X	
B-FP6; 5.5		8:00	S	5		X		X		X							
B FP6; 10-10.5		8:20	S	1	X												Hold
BFP6; 15-15.5	↓	8:30	S	1	X		↓										Hold
BFP7; 2.5	2/5/03	9:00	S	5		X		X		X							
BFP7; 2.5-3.0		9:00	S	1	X				X		X	X	X	X	X	X	
BFP7; 5-5.5		9:20	S	1	X				X		X	X	X	X	X	X	
BFP7; 5.5		9:20	S	5		X		X		X							
BFP7; 10-10.5		9:40	S	1	X												Hold
BFP7; 15-15.5	↓	9:50	S	1	X		↓										Hold

Preservation Correct? ☒ Yes ☐ No ☐ N/A

Received ☒ On Ice ☒ Cold ☐ Ambient ☒ Intact

Relinquished by: (Signature)	Custody Seal	Date/Time	Received by: (Signature)	Custody Seal intact	Date/Time	Conditions of Samples Upon Arrival at Laboratory:
[signature]	Yes (No)	2/5/03 12:20	[signature]	Yes No NA	2/5/03 12:20	
Relinquished by: (Signature)	Custody Seal Yes No	Date/Time	Received by: (Signature)	Custody Seal intact Yes No NA	Date/Time	Remarks: *wts Run Soluble if 10 x STLC
Relinquished by: (Signature)	Custody Seal Yes No	Date/Time	Received by: (Signature)	Custody Seal intact Yes No NA	Date/Time	

Received at laboratory with intact custody seal: (Signature) | Date/Time | Comments:

D:Graphics\Chain of Custody Record\lab letter.cdr 5/02

B-6, B-7

CHAIN OF CUSTODY RECORD

BASELINE
5900 Hollis Street, Suite D
Emeryville, CA 94608
Tel: (510) 420-8686 Fax: (510) 420-1707

Lab BASELINE Contact Person Phyllis Watson

Project Number	Project Name and Location:
Y0323-01	751-785 Brush ST.

Samplers: (Signature)

Sample ID No. Station	Date:	Time:	Media	Containers No.	Type: SS	40-ml VOA	L-AG	250 ml Poly	L-Poly	Preservative: None (Ice)	HCl	NO_3	SO_4	TPH as gasoline	TPH as diesel	VOC	PAH (8270)	PCBs	Cyanide	Title 22 metals	Cr +6	Remarks/ Composite
B-FP3; 7-7.5	2/4/03	8:75	S	1	X					X				X	X	X	X	X	X	X	X	Comp FY
B-FP4; 7-7.5	2/4/03	10:45	S	1	X					X				X	X	X	X	X	X	X	X	
B-FP2; 7-7.5	2/5/03	10:30	S	1	X					X				X	X	X	X	X	X	X	X	
B-FP1; 7-7.5	2/5/03	11:30	S	1	X					X				X	X	X	X	X	X	X	X	
B-FP5; 7-7.5	2/4/03	13:20	S	1	X					X				X	X	X	X	X	X	X	X	
B-FP6; 7-7.5	2/5/03	8:10	S	1	X					X				X	X	X	X	X	X	X	X	
B-FP7; 7-7.5	2/5/03	9:30	S	1	X					X				X	X	X	X	X	X	X	X	5" Comp RY

Preservation Correct? ☒ Yes ☐ No ☐ N/A

Received ☐ On Ice ☐ Cold ☐ Ambient ☒ Intact

Relinquished by: (Signature)	Custody Seal Yes No	Date/Time	Received by: (Signature)	Custody Seal intact Yes No NA	Date/Time	Conditions of Samples Upon Arrival at Laboratory:
	Yes (No)	2-5-03/12:20			12-20 2-5-03	
Relinquished by: (Signature)	Custody Seal Yes No	Date/Time	Received by: (Signature)	Custody Seal intact Yes No NA	Date/Time	Remarks:
Relinquished by: (Signature)	Custody Seal Yes No	Date/Time	Received by: (Signature)	Custody Seal intact Yes No NA	Date/Time	
Received at laboratory with intact custody seal: (Signature)		Date/Time	Comments:			

Comp RY, Comp FY

D:\Graphics\Chain of Custody Record\Master.cdr 5/03

CURTIS & TOMPKINS, LTD. BERKELEY LOGIN CHANGE FORM

Reason for change: ___X___ Client Request: By: Rhodora Date/Time: 2-10-02 5:3 Initials: TD

_____ Login Review _____ Data Review

Current Lab ID	Previous Lab ID	Client ID	Matrix	Add/Cancel	Analysis	Duedate
163565 -001	163482-020	B-FP1; 2.5-3.0	Soil	Add	pH, HexCr	
-002	163482-022	B-FP1; 5.5-6.0	Soil	Add		
-003	-014	B-FP2; 2.5-3.0	Soil	Add		
-004	-016	B-FP2; 5.5-6.0	Soil	Add		
-005	-001	B-FP6-2-2.5	Soil	Add		
-006	-003	B-FP6-5-5.5	Soil	Add		
-007	-008	B-FP7; 2.5-3.0	Soil	Add		
-008	-009	B-FP7; 5-5.5	Soil	Add	pH, HexCr	
-009	163482-025	B-FP3; 7-7.5		Add	Hold	
-010	-026	B-FP4; 7-7.5		Add	Hold	
-011	-027	B-FP2; 7-7.5		Add	Hold	
-012	-028	B-FP1; 7-7.5		Add	Hold	
-013	-029	Comp F4		Add	Comp4, HexCr & pH	
-014	-030	B-FP5; 7-7.5		Add	Hold	
-015	-031	B-FP6; 7-7.5		Add	Hold	
-016	-032	B-FP7, 7-7.5		Add	Hold	
163565 -017	163482-033	Comp R4		Add	Comp3 HexCr & pH	

Curtis & Tompkins, Ltd.

0001181

Tracy Babjar

From: Rhodora Del Rosario <rhodora@baseline-env.com>
To: <tracy@ctberk.com>
Sent: Monday, February 10, 2003 4:17 PM
Subject: Fwd: Re: Fw: EDD

One clarification. Discrete encore samples need not be analyzed for pH. Thanks, Rhodora

Date: Mon, 10 Feb 2003 15:56:07 -0800
To: "Tracy Babjar" <tracy@ctberk.com>
From: Rhodora Del Rosario <rhodora@baseline-env.com>
Subject: Re: Fw: EDD

Hey Tracy,
Got your voicemail. It looks like I actually need some of the samples analyzed for pH as well as chromium 6.

Please analyze **ALL DISCRETE** samples that are NOT on hold for pH!!! Please analyze **composite samples Comp FY and Comp RY** for pH also.

Please analyze the following for chromium 6:
1) B-FP1; 2.5-3.0
2) B-FP1; 5.5-6.0
3) B-FP2; 2.5-3.0
4) B-FP2; 5.5-6.0
5) B-FP6; 2-2.5
6) B-FP6; 5-5.5
7) B-FP7; 2.5-3.0
8) B-FP7; 5-5.5

Samples from 5+2 CT#163482

Let me know if you have any questions. Thanks, Rhodora

At 03:38 PM 2/10/03 -0800, you wrote:

EDD from Cal Science.
----- Original Message -----
From: Don Burley <dburley@calscience.com>
To: <tracy@ctberk.com>
Sent: Monday, February 10, 2003 3:25 PM
Subject: EDD

> Tracy,
>
> Attached is project 163466 in an Excel spreadsheet.
>
> Don

>
>

Curtis & Tompkins, Ltd.

Hexavalent Chromium

Lab #:	163565	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-01	Analysis:	EPA 7196A
Analyte:	Hexavalent Chromium	Batch#:	79170
Matrix:	Soil	Sampled:	02/05/03
Units:	mg/Kg	Received:	02/05/03
Basis:	as received	Analyzed:	02/12/03
Diln Fac:	1.000		

Field ID	Type	Lab ID	Result	RL
B-FP1;2.5-3.0	SAMPLE	163565-001	ND	0.05
B-FP1;5.5-6.0	SAMPLE	163565-002	0.59	0.05
B-FP2;2.5-3.0	SAMPLE	163565-003	ND	0.05
B-FP2;5.5-6.0	SAMPLE	163565-004	ND	0.05
B-FP-6;2-2.5	SAMPLE	163565-005	ND	0.05
B-FP6;5-5.5	SAMPLE	163565-006	ND	0.05
B-FP7;2.5-3.0	SAMPLE	163565-007	ND	0.05
B-FP7;5-5.5	SAMPLE	163565-008	0.09	0.05
	BLANK	QC204630	ND	0.05

ND= Not Detected
RL= Reporting Limit

3.0

000183

Curtis & Tompkins, Ltd.

Hexavalent Chromium

Lab #:	163565	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-01	Analysis:	EPA 7196A
Analyte:	Hexavalent Chromium	Diln Fac:	1.000
Field ID:	B-FP7;5-5.5	Batch#:	79170
MSS Lab ID:	163565-008	Sampled:	02/05/03
Matrix:	Soil	Received:	02/05/03
Units:	mg/Kg	Analyzed:	02/12/03
Basis:	as received		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
LCS	QC204631		4.000	3.493	87	80-116		
MS	QC204632	0.08700	4.000	3.214	78	62-132		
MSD	QC204633		4.000	3.254	79	62-132	1	24

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

pH

Lab #:	163565	Location:	751-785 Brush St.
Client:	Baseline Environmental	Analysis:	EPA 9045C
Project#:	Y0323-01		
Analyte:	pH	Batch#:	79116
Matrix:	Soil	Sampled:	02/05/03
Units:	SU	Received:	02/05/03
Diln Fac:	1.000	Analyzed:	02/11/03

Field ID	Lab ID	Result	RL
B-FP1;2.5-3.0	163565-001	5.9	1.0
B-FP1;5.5-6.0	163565-002	6.3	1.0
B-FP2;2.5-3.0	163565-003	5.7	1.0
B-FP2;5.5-6.0	163565-004	5.2	1.0
B-FP-6;2-2.5	163565-005	5.9	1.0
B-FP6;5-5.5	163565-006	6.1	1.0
B-FP7;2.5-3.0	163565-007	9.2	1.0
B-FP7;5-5.5	163565-008	8.0	1.0
COMP FY	163565-013	6.2	1.0
COMP RY	163565-017	7.4	1.0

RL= Reporting Limit

1.0

Curtis & Tompkins, Ltd.

pH

Lab #:	163565	Location:	751-785 Brush St.
Client:	Baseline Environmental	Analysis:	EPA 9045C
Project#:	Y0323-01		
Analyte:	pH	Units:	SU
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
Type:	SDUP	Batch#:	79116
MSS Lab ID:	163568-004	Sampled:	02/06/03
Lab ID:	QC204426	Received:	02/11/03
Matrix:	Soil	Analyzed:	02/11/03

MSS Result	Result	RL	RPD	Lim
10.61	10.52	1.0	1	20

RL= Reporting Limit
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

A N A L Y T I C A L R E P O R T

Prepared for:

Baseline Environmental
5900 Hollis Street
Suite D
Emeryville, CA 94608

Date: 04-MAR-03
Lab Job Number: 163599
Project ID: Y0323-01
Location: 751-785 Brush St.

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Reviewed by: _____
Project Manager

Reviewed by: _____
Operations Manager

Curtis & Tompkins, Ltd.

Laboratory Number: **163599** Order Date: **02/12/03**
Client: **Baseline**
Project Name: **751-785 Brush St., Oakland**

CASE NARRATIVE

This hardcopy data package contains sample results and batch QC results for three water samples received from the above referenced project. The samples were received cold and intact.

Total Volatile Hydrocarbons: No analytical problems were encountered.

Total Extractable Hydrocarbons: No analytical problems were encountered.

Volatile Organic Compounds: No analytical problems were encountered.

PCBs: No analytical problems were encountered.

Polyaromatic Hydrocarbons: No analytical problems were encountered.

Metals: The matrix spike recoveries for all elements except antimony, arsenic, copper, selenium, silver, and zinc were outside acceptance limits. The associated blank spike recoveries were acceptable for all target elements, therefore, there is no affect on the quality of the sample results. No other analytical problems were encountered.

General Chemistry: No analytical problems were encountered.

163599

BASELINE
5900 Hollis Street, Suite D
Emeryville, CA 94608
Tel: (510) 420-8686 Fax: (510) 420-1707

CHAIN OF CUSTODY RECORD

Turn-around Time: 5-Day
Lab: Curtis + Tompkins
BASELINE Contact Person: Rhodora Del[illegible]

Project Number: Y0323-01
Project Name and Location: 751-785 Brush ST, Oakland

Samplers: (Signature) [signature]

Sample ID No. Station	Date	Time	Media	No.	SS	Encore	L-AG	40-ml VOA	L-Poly	500 ml Poly	1 L poly	None	HCl	NO_3	SO_4	TPH as Gasoline	TPH as diesel with silica gel clean up	VOC	PAHs	PCB	Total 22 metals *	Cr^{+6}	Cyanide	Remarks/ Composite
MW-FP2	2/12/03	8:30	W	6				X					X			X		X						
MW-FP2	2/12/03	8:30	W	3			X					X					X		X	X				
MW-FP2	2/12/03	8:30	W	1							X	X										X	X	
MW-FP2	2/12/03	8:30	W	1						X		X									X			
MW-FP1	2/12/03	10:30	W	6				X					X			X		X						
MW-FP1	2/12/03	10:30	W	3			X					X					X		X	X				
MW-FP1	2/12/03	10:30	W	1							X	X										X	X	
MW-FP1	2/12/03	10:30	W	1						X		X									X			
Trip Blank			W	2																				

2-12-03

Received ☒ On Ice ☒ Cold ☐ Ambient ☒ Intact

Preservation Correct? ☒ Yes ☐ No ☐ N/A

Relinquished by: (Signature)	Custody Seal	Date/Time	Received by: (Signature)	Custody Seal intact	Date/Time	
[signature]	Yes (No)	2/12/03 / 11:25	[signature]	Yes No NA	2/12/03 11:25	Conditions of Samples Upon Arrival at Laboratory:
Relinquished by: (Signature)	Custody Seal Yes No	Date/Time	Received by: (Signature)	Custody Seal intact Yes No NA	Date/Time	Remarks: If analyzing for MTBE, confirm any hits with EPA method 8260. Filter Sample @ Lab.
Relinquished by: (Signature)	Custody Seal Yes No	Date/Time	Received by: (Signature)	Custody Seal intact Yes No NA	Date/Time	

Received at laboratory with intact custody seal: (Signature) | Date/Time | Comments:

D:\Graphic\Chain of Custody Record\Master.cdr 5/02

000189

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	163599	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-01	Analysis:	8015B
Matrix:	Water	Sampled:	02/12/03
Units:	ug/L	Received:	02/12/03
Diln Fac:	1.000	Analyzed:	02/12/03
Batch#:	79138		

Field ID: MW-FP2 Lab ID: 163599-001
Type: SAMPLE

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	117	68-145
Bromofluorobenzene (FID)	113	66-143

Field ID: MW-FP1 Lab ID: 163599-002
Type: SAMPLE

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	122	68-145
Bromofluorobenzene (FID)	123	66-143

Type: BLANK Lab ID: QC204501

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	120	68-145
Bromofluorobenzene (FID)	120	66-143

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	163599	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-01	Analysis:	8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC204502	Batch#:	79138
Matrix:	Water	Analyzed:	02/12/03
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	2,195	110	79-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	137	68-145
Bromofluorobenzene (FID)	121	66-143

8.0

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	163599	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-01	Analysis:	8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	163554-001	Batch#:	79138
Matrix:	Water	Sampled:	02/08/03
Units:	ug/L	Received:	02/10/03

Type: MS
Lab ID: QC204534

Analyzed: 02/12/03

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	39.54	2,000	2,051	101	67-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	141	68-145
Bromofluorobenzene (FID)	131	66-143

Type: MSD
Lab ID: QC204535

Analyzed: 02/13/03

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	2,040	100	67-120	1	20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	136	68-145
Bromofluorobenzene (FID)	122	66-143

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	163599	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 3520C
Project#:	Y0323-01	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	02/12/03
Units:	ug/L	Received:	02/12/03
Batch#:	79181	Prepared:	02/13/03

Field ID: MW-FP2
Type: SAMPLE
Lab ID: 163599-001
Cleanup Method: EPA 3630C

Analyte	Result	RL	Diln Fac	Analyzed
Diesel C10-C24	110 H Y	50	1.000	02/20/03

Surrogate	%REC	Limits	Diln Fac	Analyzed
Hexacosane	75	39-137	2.000	02/24/03

Field ID: MW-FP1
Type: SAMPLE
Lab ID: 163599-002
Diln Fac: 1.000
Analyzed: 02/20/03
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	260 H Y	50

Surrogate	%REC	Limits
Hexacosane	84	39-137

Type: BLANK
Lab ID: QC204676
Diln Fac: 1.000
Analyzed: 02/20/03
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	50

Surrogate	%REC	Limits
Hexacosane	134	39-137

H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits fuel pattern which does not resemble standard
D= Not Detected
L= Reporting Limit

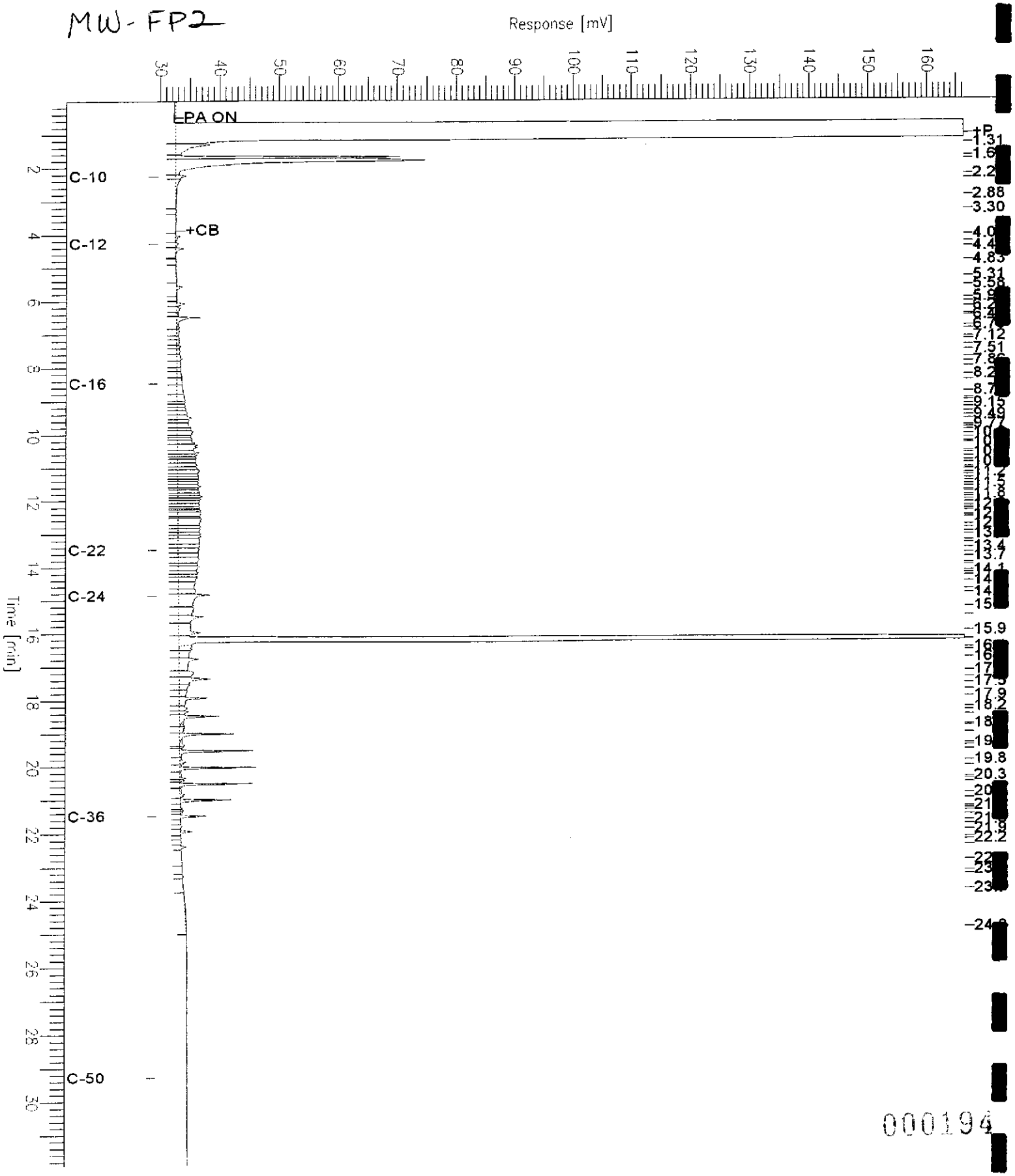
28.0

Chromatogram

Sample Name : 163599-001sg,79181
FileName : G:\GC17\CHA\049A065.RAW
Method : ATEH050.MTH
Start Time : 0.01 min End Time : 31.91 min
Scale Factor: 0.0 Plot Offset: 30 mV

Sample #: 79181
Date : 2/21/03 08:47 AM
Time of Injection: 2/20/03 07:36 PM
Low Point : 29.59 mV High Point : 166.28 mV
Plot Scale: 136.7 mV

MW-FP2

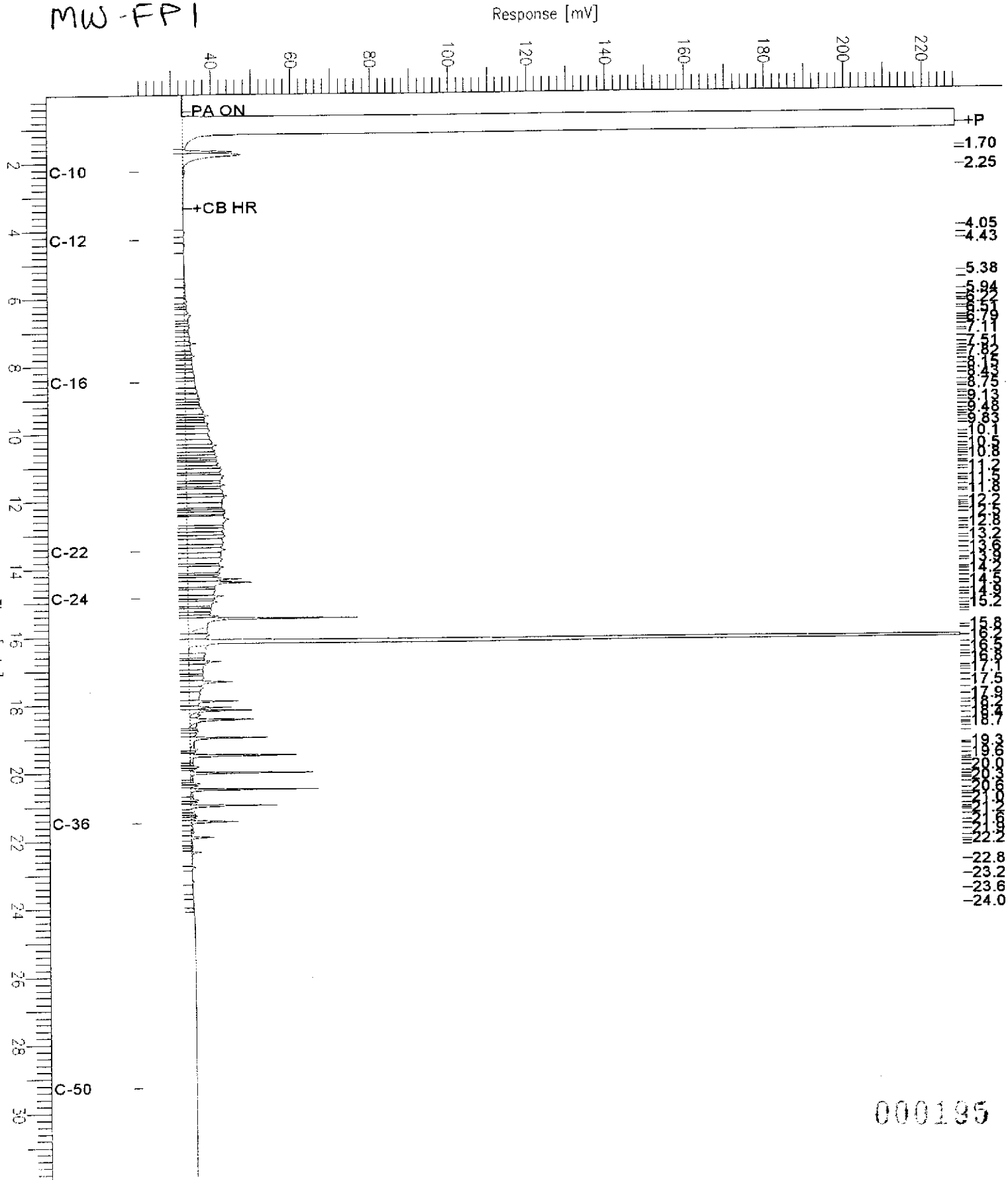


Chromatogram

Sample Name : 163599-002sg,79181
FileName : G:\GC17\CHA\049A066.RAW
Method : ATEH050.MTH
Start Time : 0.01 min End Time : 31.91 min
Scale Factor: 0.0 Plot Offset: 22 mV

Sample #: 79181 Page 1 of 1
Date : 2/21/03 08:48 AM
Time of Injection: 2/20/03 08:15 PM
Low Point : 21.95 mV High Point : 228.30 mV
Plot Scale: 206.4 mV

MW-FP1



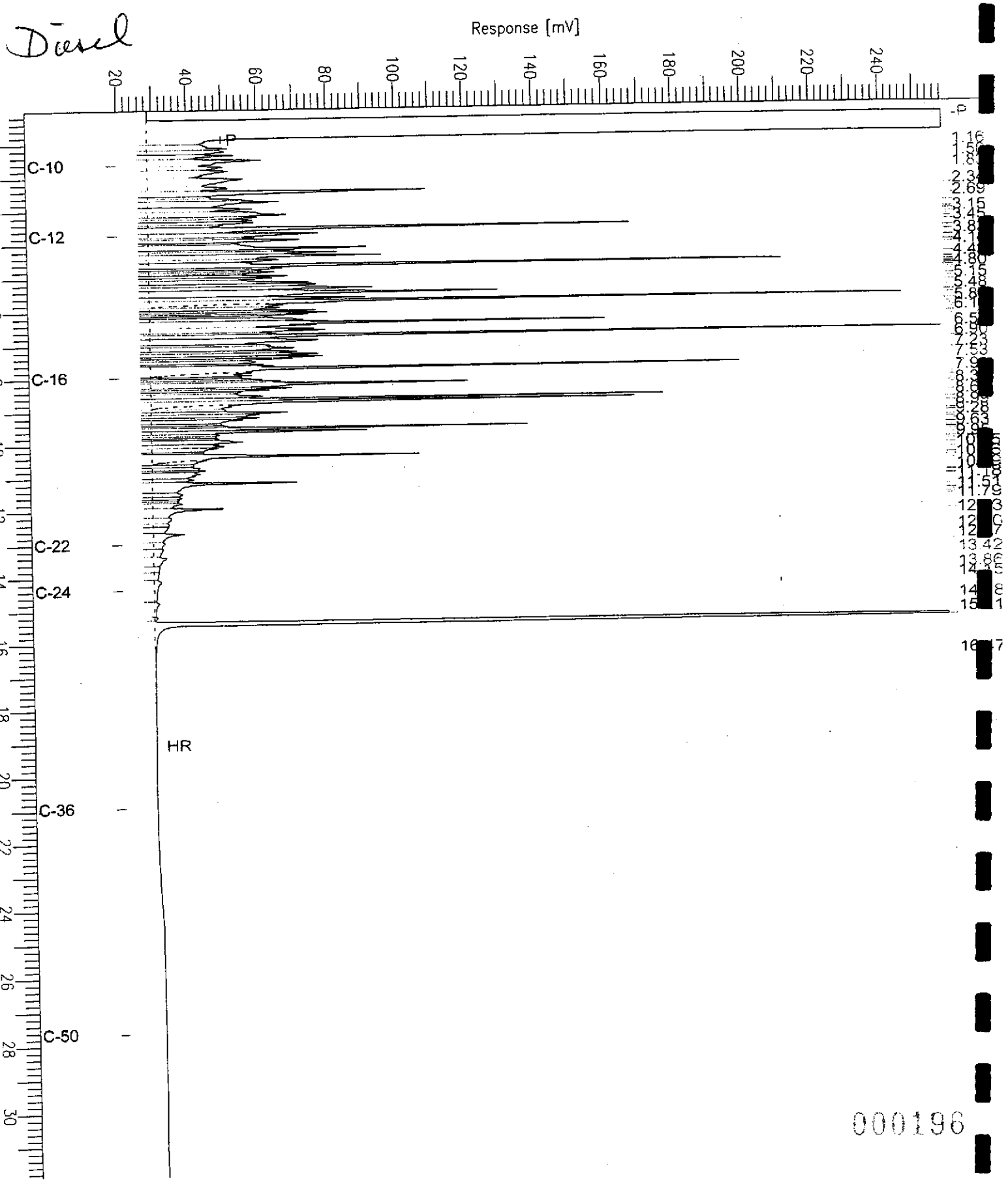
000195

Chromatogram

ample Name : ccv,03ws0276,dsl
ileName : G:\GC11\CHA\051A002.RAW
ethod : ATEH036.MTH
tart Time : 0.01 min End Time : 31.91 min
cale Factor: 0.0 Plot Offset: 20 mV

Sample #: 500mg/L
Date : 2/20/03 10:40 AM
Time of Injection: 2/20/03 09:09 AM
Low Point : 19.84 mV High Point : 258.44 mV
Plot Scale: 238.6 mV

Diesel



Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	163599	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 3520C
Project#:	Y0323-01	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC204677	Batch#:	79181
Matrix:	Water	Prepared:	02/13/03
Units:	ug/L	Analyzed:	02/20/03

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,808	112	37-120

Surrogate	%REC	Limits
Hexacosane	132	39-137

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	163599	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 3520C
Project#:	Y0323-01	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	79181
MSS Lab ID:	163636-011	Sampled:	02/12/03
Matrix:	Water	Received:	02/12/03
Units:	ug/L	Prepared:	02/13/03
Diln Fac:	1.000	Analyzed:	02/20/03

Type: MS Lab ID: QC204678

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	<33.00	2,500	2,386	95	44-131

Surrogate	%REC	Limits
Hexacosane	109	39-137

Type: MSD Lab ID: QC204679

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,360	94	44-131	1	26

Surrogate	%REC	Limits
Hexacosane	107	39-137

RPD= Relative Percent Difference

30.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163599	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-01	Analysis:	EPA 8260B
Field ID:	MW-FP2	Batch#:	79132
Lab ID:	163599-001	Sampled:	02/12/03
Matrix:	Water	Received:	02/12/03
Units:	ug/L	Analyzed:	02/12/03
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163599	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-01	Analysis:	EPA 8260B
Field ID:	MW-FP2	Batch#:	79132
Lab ID:	163599-001	Sampled:	02/12/03
Matrix:	Water	Received:	02/12/03
Units:	ug/L	Analyzed:	02/12/03
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	112	80-121
1,2-Dichloroethane-d4	106	77-130
Toluene-d8	94	80-120
Bromofluorobenzene	92	80-120

ND= Not Detected
RL= Reporting Limit

1.0

000200

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163599	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-01	Analysis:	EPA 8260B
Field ID:	MW-FP1	Batch#:	79132
Lab ID:	163599-002	Sampled:	02/12/03
Matrix:	Water	Received:	02/12/03
Units:	ug/L	Analyzed:	02/12/03
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected
RL= Reporting Limit

000301

2.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163599	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-01	Analysis:	EPA 8260B
Field ID:	MW-FP1	Batch#:	79132
Lab ID:	163599-002	Sampled:	02/12/03
Matrix:	Water	Received:	02/12/03
Units:	ug/L	Analyzed:	02/12/03
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	110	80-121
1,2-Dichloroethane-d4	106	77-130
Toluene-d8	92	80-120
Bromofluorobenzene	91	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163599	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-01	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC204481	Batch#:	79132
Matrix:	Water	Analyzed:	02/12/03
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163599	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-01	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC204481	Batch#:	79132
Matrix:	Water	Analyzed:	02/12/03
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	111	80-121
1,2-Dichloroethane-d4	108	77-130
Toluene-d8	94	80-120
Bromofluorobenzene	93	80-120

ND= Not Detected
RL= Reporting Limit

000204

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163599	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-01	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC204522	Batch#:	79132
Matrix:	Water	Analyzed:	02/12/03
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163599	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-01	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC204522	Batch#:	79132
Matrix:	Water	Analyzed:	02/12/03
Units:	ug/L		

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	110	80-121
1,2-Dichloroethane-d4	106	77-130
Toluene-d8	94	80-120
Bromofluorobenzene	92	80-120

ND= Not Detected
RL= Reporting Limit

4.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163599	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-01	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC204480	Batch#:	79132
Matrix:	Water	Analyzed:	02/12/03
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	50.53	101	71-131
Benzene	50.00	43.84	88	76-120
Trichloroethene	50.00	43.78	88	78-120
Toluene	50.00	44.59	89	79-120
Chlorobenzene	50.00	47.95	96	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-121
1,2-Dichloroethane-d4	104	77-130
Toluene-d8	92	80-120
Bromofluorobenzene	89	80-120

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	163599	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	Y0323-01	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	79132
MSS Lab ID:	163586-003	Sampled:	02/11/03
Matrix:	Water	Received:	02/11/03
Units:	ug/L	Analyzed:	02/12/03
Diln Fac:	1.000		

Type: MS Lab ID: QC204482

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.3900	50.00	47.07	94	71-134
Benzene	<0.1700	50.00	46.72	93	79-120
Trichloroethene	<0.2000	50.00	45.92	92	47-141
Toluene	<0.1500	50.00	46.69	93	75-120
Chlorobenzene	<0.1200	50.00	47.06	94	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	113	80-121
1,2-Dichloroethane-d4	111	77-130
Toluene-d8	98	80-120
Bromofluorobenzene	89	80-120

Type: MSD Lab ID: QC204483

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	50.00	48.10	96	71-134	2	20
Benzene	50.00	44.35	89	79-120	5	20
Trichloroethene	50.00	42.58	85	47-141	8	20
Toluene	50.00	44.76	90	75-120	4	20
Chlorobenzene	50.00	46.09	92	80-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	112	80-121
1,2-Dichloroethane-d4	108	77-130
Toluene-d8	95	80-120
Bromofluorobenzene	89	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	163599	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 3520C
Project#:	Y0323-01	Analysis:	EPA 8082
Matrix:	Water	Sampled:	02/12/03
Units:	ug/L	Received:	02/12/03
Diln Fac:	1.000	Prepared:	02/13/03
Batch#:	79176	Analyzed:	02/15/03

Field ID: MW-FP2 Lab ID: 163599-001
Type: SAMPLE

Analyte	Result	RL
Aroclor-1016	ND	0.49
Aroclor-1221	ND	0.97
Aroclor-1232	ND	0.49
Aroclor-1242	ND	0.49
Aroclor-1248	ND	0.49
Aroclor-1254	ND	0.49
Aroclor-1260	ND	0.49

Surrogate	%REC	Limits
TCMX	90	37-140
Decachlorobiphenyl	73	17-150

Field ID: MW-FP1 Lab ID: 163599-002
Type: SAMPLE

Analyte	Result	RL
Aroclor-1016	ND	0.47
Aroclor-1221	ND	0.94
Aroclor-1232	ND	0.47
Aroclor-1242	ND	0.47
Aroclor-1248	ND	0.47
Aroclor-1254	ND	0.47
Aroclor-1260	ND	0.47

Surrogate	%REC	Limits
TCMX	87	37-140
Decachlorobiphenyl	55	17-150

Type: BLANK Lab ID: QC204659

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	76	37-140
Decachlorobiphenyl	66	17-150

ND= Not Detected
RL= Reporting Limit

14.0

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	163599	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 3520C
Project#:	Y0323-01	Analysis:	EPA 8082
Matrix:	Water	Batch#:	79176
Units:	ug/L	Prepared:	02/13/03
Diln Fac:	1.000	Analyzed:	02/15/03

Type: BS Lab ID: QC204660

Analyte	Spiked	Result	%REC	Limits
Aroclor-1242	5.000	5.349	107	60-123

Surrogate	%REC	Limits
TCMX	87	37-140
Decachlorobiphenyl	74	17-150

Type: BSD Lab ID: QC204661

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1242	5.000	5.427	109	60-123	1	25

Surrogate	%REC	Limits
TCMX	88	37-140
Decachlorobiphenyl	68	17-150

RPD= Relative Percent Difference

15.0

000210

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	163599	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 3520C
Project#:	Y0323-01	Analysis:	EPA 8310
Field ID:	MW-FP2	Batch#:	79222
Lab ID:	163599-001	Sampled:	02/12/03
Matrix:	Water	Received:	02/12/03
Units:	ug/L	Prepared:	02/14/03
Diln Fac:	1.000	Analyzed:	02/18/03

Analyte	Result	RL
Naphthalene	ND	0.94
Acenaphthylene	ND	1.9
Acenaphthene	ND	0.94
Fluorene	ND	0.19
Phenanthrene	ND	0.09
Anthracene	ND	0.09
Fluoranthene	ND	0.19
Pyrene	ND	0.09
Benzo(a)anthracene	ND	0.09
Chrysene	ND	0.09
Benzo(b)fluoranthene	ND	0.19
Benzo(k)fluoranthene	ND	0.09
Benzo(a)pyrene	ND	0.09
Dibenz(a,h)anthracene	ND	0.19
Benzo(g,h,i)perylene	ND	0.19
Indeno(1,2,3-cd)pyrene	ND	0.09

Surrogate	%REC	Limits
2-Methylnaphthalene (UV)	78	37-134
2-Methylnaphthalene (F)	83	36-141

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	163599	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 3520C
Project#:	Y0323-01	Analysis:	EPA 8310
Field ID:	MW-FP1	Batch#:	79222
Lab ID:	163599-002	Sampled:	02/12/03
Matrix:	Water	Received:	02/12/03
Units:	ug/L	Prepared:	02/14/03
Diln Fac:	1.000	Analyzed:	02/18/03

Analyte	Result	RL
Naphthalene	ND	0.94
Acenaphthylene	ND	1.9
Acenaphthene	ND	0.94
Fluorene	ND	0.19
Phenanthrene	ND	0.09
Anthracene	ND	0.09
Fluoranthene	ND	0.19
Pyrene	ND	0.09
Benzo(a)anthracene	ND	0.09
Chrysene	ND	0.09
Benzo(b)fluoranthene	ND	0.19
Benzo(k)fluoranthene	ND	0.09
Benzo(a)pyrene	ND	0.09
Dibenz(a,h)anthracene	ND	0.19
Benzo(g,h,i)perylene	ND	0.19
Indeno(1,2,3-cd)pyrene	ND	0.09

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	82	37-134
1-Methylnaphthalene (F)	88	36-141

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	163599	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 3520C
Project#:	Y0323-01	Analysis:	EPA 8310
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC204824	Batch#:	79222
Matrix:	Water	Prepared:	02/14/03
Units:	ug/L	Analyzed:	02/18/03

Analyte	Result	RL
Naphthalene	ND	1.0
Acenaphthylene	ND	2.0
Acenaphthene	ND	1.0
Fluorene	ND	0.20
Phenanthrene	ND	0.10
Anthracene	ND	0.10
Fluoranthene	ND	0.20
Pyrene	ND	0.10
Benzo(a)anthracene	ND	0.10
Chrysene	ND	0.10
Benzo(b)fluoranthene	ND	0.20
Benzo(k)fluoranthene	ND	0.10
Benzo(a)pyrene	ND	0.10
Dibenz(a,h)anthracene	ND	0.20
Benzo(g,h,i)perylene	ND	0.20
Indeno(1,2,3-cd)pyrene	ND	0.10

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	91	37-134
1-Methylnaphthalene (F)	96	36-141

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Polynuclear Aromatics by HPLC

Lab #:	163599	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 3520C
Project#:	Y0323-01	Analysis:	EPA 8310
Matrix:	Water	Batch#:	79222
Units:	ug/L	Prepared:	02/14/03
Diln Fac:	1.000	Analyzed:	02/18/03

Type: BS Lab ID: QC204825

Analyte	Spiked	Result	%REC	Limits
Naphthalene	10.00	9.509	95	51-127
Acenaphthylene	20.00	19.94	100	49-128
Acenaphthene	10.00	10.32	103	49-132
Fluorene	2.000	1.883	94	49-128
Phenanthrene	1.000	1.073	107	50-123
Anthracene	1.000	0.9872	99	47-122
Benzo(k)fluoranthene	1.000	1.110	111	50-128
Indeno(1,2,3-cd)pyrene	1.000	1.108	111	50-130

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	88	37-134
1-Methylnaphthalene (F)	95	36-141

Type: BSD Lab ID: QC204826

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Naphthalene	10.00	7.935	79	51-127	18	22
Acenaphthylene	20.00	17.02	85	49-128	16	20
Acenaphthene	10.00	8.672	87	49-132	17	30
Fluorene	2.000	1.602	80	49-128	16	21
Phenanthrene	1.000	0.8777	88	50-123	20	20
Anthracene	1.000	0.8335	83	47-122	17	20
Benzo(k)fluoranthene	1.000	0.9016	90	50-128	21	24
Indeno(1,2,3-cd)pyrene	1.000	0.8965	90	50-130	21	25

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	70	37-134
1-Methylnaphthalene (F)	75	36-141

RPD= Relative Percent Difference

27.0

000214

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	163599	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-01		
Field ID:	MW-FP2	Diln Fac:	1.000
Lab ID:	163599-001	Sampled:	02/12/03
Matrix:	Filtrate	Received:	02/12/03
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	60	79228	02/14/03	02/19/03	EPA 6010B
Arsenic	ND	5.0	79228	02/14/03	02/19/03	EPA 6010B
Barium	74	10	79228	02/14/03	02/19/03	EPA 6010B
Beryllium	ND	2.0	79228	02/14/03	02/19/03	EPA 6010B
Cadmium	ND	5.0	79228	02/14/03	02/19/03	EPA 6010B
Chromium	61	10	79228	02/14/03	02/19/03	EPA 6010B
Cobalt	ND	20	79228	02/14/03	02/19/03	EPA 6010B
Copper	ND	10	79228	02/14/03	02/19/03	EPA 6010B
Lead	ND	3.0	79228	02/14/03	02/19/03	EPA 6010B
Mercury	ND	0.20	79155	02/13/03	02/13/03	EPA 7470A
Molybdenum	ND	20	79228	02/14/03	02/19/03	EPA 6010B
Nickel	ND	20	79228	02/14/03	02/19/03	EPA 6010B
Selenium	ND	5.0	79228	02/14/03	02/19/03	EPA 6010B
Silver	ND	5.0	79228	02/14/03	02/19/03	EPA 6010B
Thallium	ND	5.0	79228	02/14/03	02/19/03	EPA 6010B
Vanadium	ND	10	79228	02/14/03	02/19/03	EPA 6010B
Zinc	ND	20	79228	02/14/03	02/19/03	EPA 6010B

ND= Not Detected
RL= Reporting Limit

16.0

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	163599	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-01		
Field ID:	MW-FP1	Diln Fac:	1.000
Lab ID:	163599-002	Sampled:	02/12/03
Matrix:	Filtrate	Received:	02/12/03
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	60	79228	02/14/03	02/19/03	EPA 6010B
Arsenic	ND	5.0	79228	02/14/03	02/19/03	EPA 6010B
Barium	67	10	79228	02/14/03	02/19/03	EPA 6010B
Beryllium	ND	2.0	79228	02/14/03	02/19/03	EPA 6010B
Cadmium	ND	5.0	79228	02/14/03	02/19/03	EPA 6010B
Chromium	ND	10	79228	02/14/03	02/19/03	EPA 6010B
Cobalt	ND	20	79228	02/14/03	02/19/03	EPA 6010B
Copper	ND	10	79228	02/14/03	02/19/03	EPA 6010B
Lead	ND	3.0	79228	02/14/03	02/19/03	EPA 6010B
Mercury	ND	0.20	79155	02/13/03	02/13/03	EPA 7470A
Molybdenum	ND	20	79228	02/14/03	02/19/03	EPA 6010B
Nickel	24	20	79228	02/14/03	02/19/03	EPA 6010B
Selenium	ND	5.0	79228	02/14/03	02/19/03	EPA 6010B
Silver	ND	5.0	79228	02/14/03	02/19/03	EPA 6010B
Thallium	ND	5.0	79228	02/14/03	02/19/03	EPA 6010B
Vanadium	ND	10	79228	02/14/03	02/19/03	EPA 6010B
Zinc	ND	20	79228	02/14/03	02/19/03	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	163599	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-01	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC204857	Batch#:	79228
Matrix:	Filtrate	Prepared:	02/14/03
Units:	ug/L	Analyzed:	02/19/03

Analyte	Result	RL
Antimony	ND	60
Arsenic	ND	5.0
Barium	ND	10
Beryllium	ND	2.0
Cadmium	ND	5.0
Chromium	ND	10
Cobalt	ND	20
Copper	ND	10
Lead	ND	3.0
Molybdenum	ND	20
Nickel	ND	20
Selenium	ND	5.0
Silver	ND	5.0
Thallium	ND	5.0
Vanadium	ND	10
Zinc	ND	20

ND= Not Detected
RL= Reporting Limit

19.0

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	163599	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-01	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	79155
Lab ID:	QC204575	Prepared:	02/13/03
Matrix:	Filtrate	Analyzed:	02/13/03
Units:	ug/L		

Result	RL
ND	0.20

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	163599	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-01	Analysis:	EPA 6010B
Matrix:	Filtrate	Batch#:	79228
Units:	ug/L	Prepared:	02/14/03
Diln Fac:	1.000	Analyzed:	02/19/03

Type: BS Lab ID: QC204858

Analyte	Spiked	Result	%REC	Limits
Antimony	500.0	581.0	116	75-126
Arsenic	100.0	101.0	101	79-123
Barium	2,000	1,990	100	80-120
Beryllium	50.00	50.20	100	80-120
Cadmium	50.00	46.90	94	80-120
Chromium	200.0	193.0	97	79-120
Cobalt	500.0	473.0	95	80-120
Copper	250.0	247.0	99	80-120
Lead	100.0	97.00	97	78-120
Molybdenum	400.0	424.0	106	80-120
Nickel	500.0	479.0	96	78-120
Selenium	100.0	95.10	95	72-121
Silver	50.00	50.00	100	80-120
Thallium	100.0	93.70	94	70-121
Vanadium	500.0	490.0	98	80-120
Zinc	500.0	467.0	93	78-120

Type: BSD Lab ID: QC204859

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	556.0	111	75-126	4	20
Arsenic	100.0	99.40	99	79-123	2	20
Barium	2,000	2,000	100	80-120	1	20
Beryllium	50.00	50.40	101	80-120	0	20
Cadmium	50.00	46.80	94	80-120	0	20
Chromium	200.0	194.0	97	79-120	1	20
Cobalt	500.0	474.0	95	80-120	0	20
Copper	250.0	247.0	99	80-120	0	20
Lead	100.0	96.60	97	78-120	0	20
Molybdenum	400.0	425.0	106	80-120	0	20
Nickel	500.0	481.0	96	78-120	0	20
Selenium	100.0	97.10	97	72-121	2	20
Silver	50.00	50.00	100	80-120	0	20
Thallium	100.0	96.10	96	70-121	3	20
Vanadium	500.0	491.0	98	80-120	0	20
Zinc	500.0	468.0	94	78-120	0	20

RPD= Relative Percent Difference

22.0

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	163599	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-01	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	79155
Matrix:	Filtrate	Prepared:	02/13/03
Units:	ug/L	Analyzed:	02/13/03
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC204576	5.000	4.810	96	78-120		
BSD	QC204577	5.000	4.920	98	78-120	2	22

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	163599	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-01	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	79228
MSS Lab ID:	163586-001	Sampled:	02/11/03
Matrix:	Filtrate	Received:	02/11/03
Units:	ug/L	Prepared:	02/14/03
Diln Fac:	1.000	Analyzed:	02/19/03

Type: MS Lab ID: QC204860

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	<12.00	500.0	407.0	81	62-135
Arsenic	3.800	100.0	75.30	72	66-134
Barium	96.60	2,000	1,340	62 *	66-123
Beryllium	1.690	50.00	27.60	52 *	65-128
Cadmium	4.440	50.00	28.10	47 *	61-124
Chromium	<1.400	200.0	107.0	54 *	64-123
Cobalt	16.80	500.0	272.0	51 *	65-120
Copper	15.90	250.0	224.0	83	62-130
Lead	<1.700	100.0	54.60	55 *	58-129
Molybdenum	4.250	400.0	248.0	61 *	68-122
Nickel	21.50	500.0	275.0	51 *	60-126
Selenium	8.320	100.0	77.20	69	62-131
Silver	1.130	50.00	44.80	87	47-138
Thallium	15.30	100.0	63.80	49 *	57-126
Vanadium	<0.8200	500.0	290.0	58 *	59-132
Zinc	12.20	500.0	345.0	67	49-139

Type: MSD Lab ID: QC204861

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	409.0	82	62-135	0	20
Arsenic	100.0	77.40	74	66-134	3	29
Barium	2,000	1,330	62 *	66-123	1	20
Beryllium	50.00	27.70	52 *	65-128	0	20
Cadmium	50.00	28.30	48 *	61-124	1	20
Chromium	200.0	109.0	55 *	64-123	2	20
Cobalt	500.0	274.0	51 *	65-120	1	20
Copper	250.0	225.0	84	62-130	0	20
Lead	100.0	55.50	56 *	58-129	2	28
Molybdenum	400.0	260.0	64 *	68-122	5	20
Nickel	500.0	278.0	51 *	60-126	1	20
Selenium	100.0	78.20	70	62-131	1	23
Silver	50.00	45.70	89	47-138	2	20
Thallium	100.0	68.00	53 *	57-126	6	29
Vanadium	500.0	292.0	58 *	59-132	1	20
Zinc	500.0	347.0	67	49-139	1	31

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

23.0

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	163599	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-01	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	79155
Field ID:	ZZZZZZZZZZ	Sampled:	02/10/03
MSS Lab ID:	163591-001	Received:	02/12/03
Matrix:	Filtrate	Prepared:	02/13/03
Units:	ug/L	Analyzed:	02/13/03
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC204578	<0.04000	5.000	5.600	112	47-143		
MSD	QC204579		5.000	5.650	113	47-143	1	35

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Hexavalent Chromium

Lab #:	163599	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-01	Analysis:	EPA 7196A
Analyte:	Hexavalent Chromium	Batch#:	79204
Matrix:	Water	Sampled:	02/12/03
Units:	mg/L	Received:	02/12/03
Diln Fac:	1.000	Analyzed:	02/12/03

Field ID	Type	Lab ID	Result	RL
MW-FP2	SAMPLE	163599-001	0.07	0.01
MW-FP1	SAMPLE	163599-002	ND	0.01
	BLANK	QC204748	ND	0.01

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Hexavalent Chromium

Lab #:	163599	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-01	Analysis:	EPA 7196A
Analyte:	Hexavalent Chromium	Diln Fac:	1.000
Field ID:	MW-FP2	Batch#:	79204
MSS Lab ID:	163599-001	Sampled:	02/12/03
Matrix:	Water	Received:	02/12/03
Units:	mg/L	Analyzed:	02/12/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
LCS	QC204749		0.6730	0.6390	95	80-120		
MS	QC204750	0.07300	0.8420	0.8250	89	55-145		
MSD	QC204751		0.8420	0.8600	93	55-145	4	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Total Cyanide

Lab #:	163599	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-01	Analysis:	EPA 335.2
Analyte:	Cyanide	Batch#:	79263
Matrix:	Water	Sampled:	02/12/03
Units:	mg/L	Received:	02/12/03
Diln Fac:	1.000	Analyzed:	02/18/03

Field ID	Type	Lab ID	Result	RL
MW-FP2	SAMPLE	163599-001	ND	0.01
MW-FP1	SAMPLE	163599-002	ND	0.01
	BLANK	QC205002	ND	0.01

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Cyanide

Lab #:	163599	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	METHOD
Project#:	Y0323-01	Analysis:	EPA 335.2
Analyte:	Cyanide	Diln Fac:	1.000
Field ID:	MW-FP1	Batch#:	79263
MSS Lab ID:	163599-002	Sampled:	02/12/03
Matrix:	Water	Received:	02/12/03
Units:	mg/L	Analyzed:	02/18/03

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC205003	<0.01000	0.1930	0.1950	101	56-134		
MSD	QC205004		0.1930	0.1880	97	56-134	4	30
LCS	QC205005		0.1930	0.1910	99	70-124		

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

ANALYTICAL REPORT

Prepared for:

Baseline Environmental
5900 Hollis Street
Suite D
Emeryville, CA 94608

Date: 04-MAR-03
Lab Job Number: 163694
Project ID: Y0323-01
Location: 751-785 Brush St.

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Reviewed by: _____
Project Manager

Reviewed by: _____
Operations Manager

CURTIS & TOMPKINS, LTD. BERKELEY LOGIN CHANGE FORM

Reason for change: x Client Request: By: R. Rosario Date/Time: 2/18/03 1040 Initials: SES
____ Login Review ____ Data Review

Client/Acct: BASELINE

Current Lab ID	Previous Lab ID	Client ID	Matrix	Add/Cancel	Analysis	Holddate	Duedate
163694-001	163466-004	B-FP3; 5.0-5.5	Soil	Add	WET Ni		2/24
-002	163482-001	B-FP6; 2-2.5	↓	↓	WET Ni, PB TCLP Pb		↓
-003	-003	B-FP6; 5-5.5			WET Ni		
-004	-008	B-FP7; 2.5-3.0			WET Pb TCLP Pb		

00828

Subject: Re: Results for C&T Job 163565
From: Rhodora Del Rosario <rhodora@baseline-env.com>
Date: Tue, 18 Feb 2003 10:07:22 -0800
To: "S. Stanley" <steve@ctberk.com>

I would like to have additional analyses conducted for a few of the samples from login 163466 and 163482. Please perform the following analyses:

1) WET Nickel for samples
   B-FP3;5.0-5.5
   B-FP6;2-2.5
   B-FP6;5-5.5

2) WET and TCLP Lead for samples
   B-FP6;2-2.5
   B-FP7;2.5-3.0

I've received the pdf files for all pH and hex. chrom results. Thank you. Just awaiting the EDD versions for all data.

- Rhodora

At 10:02 PM 2/17/03 +0000, you wrote:

> Content-Disposition: inline
> Content-Length: 69
> Content-Transfer-Encoding: binary
> Content-Type: text/plain
>
> Attached is a PDF version of the hardcopy reports for C&T job 163565.

000229

Curtis & Tompkins, Ltd.

Lead

Lab #:	163694	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 3010
Project#:	Y0323-01	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	79325
Field ID:	B-FP-6;2-2.5	Sampled:	02/05/03
Matrix:	TCLP Leachate	Received:	02/05/03
Units:	ug/L	Prepared:	02/19/03
Diln Fac:	1.000	Analyzed:	02/20/03

Type	Lab ID	Result	RL
SAMPLE	163694-002	ND	300
BLANK	QC205215	ND	300

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Lead

Lab #:	163694	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	EPA 3010
Project#:	Y0323-01	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	79325
Field ID:	ZZZZZZZZZZ	Sampled:	02/13/03
MSS Lab ID:	163671-001	Received:	02/14/03
Matrix:	TCLP Leachate	Prepared:	02/19/03
Units:	ug/L	Analyzed:	02/20/03
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	RL	%REC	Limits	RPD	Lim
BS	QC205216		2,000	2,029		101	78-120		
BSD	QC205217		2,000	2,092		105	78-120	3	20
SDUP	QC205218	<300.0		ND	300			NC	28
SSPIKE	QC205219	<66.00	2,000	1,934		97	58-129		

NC= Not Calculated
ND= Not Detected
RL= Reporting Limit
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Nickel

Lab #:	163694	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	WET
Project#:	Y0323-01	Analysis:	EPA 6010B
Analyte:	Nickel	Batch#:	79360
Matrix:	WET Leachate	Prepared:	02/20/03
Units:	ug/L	Analyzed:	02/20/03
Diln Fac:	1.000		

Field ID	Type	Lab ID	Result	RL	Sampled	Received
B-FP3;5.0-5.5	SAMPLE	163694-001	31,000	100	02/04/03	02/04/03
B-FP-6;2-2.5	SAMPLE	163694-002	17,000	100	02/05/03	02/05/03
B-FP6;5-5.5	SAMPLE	163694-003	26,000	100	02/05/03	02/05/03
	BLANK	QC205347	ND	100		

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Nickel

Lab #:	163694	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	WET
Project#:	Y0323-01	Analysis:	EPA 6010B
Analyte:	Nickel	Batch#:	79360
Field ID:	ZZZZZZZZZZ	Sampled:	02/07/03
MSS Lab ID:	163635-001	Received:	02/10/03
Matrix:	WET Leachate	Prepared:	02/20/03
Units:	ug/L	Analyzed:	02/20/03
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	RL	%REC	Limits	RPD	Lim
BS	QC205348		500.0	471.6		94	78-120		
BSD	QC205349		500.0	489.4		98	78-120	4	20
SDUP	QC205350	<100.0		ND	100			NC	20
SSPIKE	QC205351	<64.00	2,500	2,565		103	60-126		

NC= Not Calculated
ND= Not Detected
RL= Reporting Limit
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Lead

Lab #:	163694	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	WET
Project#:	Y0323-01	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	79360
Field ID:	B-FP-6;2-2.5	Sampled:	02/05/03
Matrix:	WET Leachate	Received:	02/05/03
Units:	ug/L	Prepared:	02/20/03
Diln Fac:	1.000	Analyzed:	02/20/03

Type	Lab ID	Result	RL
SAMPLE	163694-002	1,500	1,500
BLANK	QC205347	ND	1,500

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Lead

Lab #:	163694	Location:	751-785 Brush St.
Client:	Baseline Environmental	Prep:	WET
Project#:	Y0323-01	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	79360
Field ID:	ZZZZZZZZZZ	Sampled:	02/07/03
MSS Lab ID:	163635-001	Received:	02/10/03
Matrix:	WET Leachate	Prepared:	02/20/03
Units:	ug/L	Analyzed:	02/20/03
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	RL	%REC	Limits	RPD	Lim
BS	QC205348		2,000	1,809		90	78-120		
BSD	QC205349		2,000	1,880		94	78-120	4	20
SDUP	QC205350	<1,500		ND	1,500			NC	28
SSPIKE	QC205351	<330.0	10,000	9,955		100	58-129		

NC= Not Calculated
ND= Not Detected
RL= Reporting Limit
RPD= Relative Percent Difference

APPENDIX G

OAKLAND RBCA ELIGIBILITY CHECKLIST

Oakland RBCA Cover Sheet

Project Proponent: The Brush Street Group
Site Address: 751-785 Brush Street, Oakland
Alameda County Parcel Number(s): Block 97, Lots 9, 10, 11, 12, 13, 14, 15, 16, 17, and 18 in Kellersberger's Map of Oakland, filed September 2, 1853, Map Book 7, Page 3, Alameda County Records

Chemicals of Concern		
(1) Benzo(a)pyrene	(4) Benzo(a)anthracene	(7)
(2) Benzo(b)fluoranthene	(5) Dibenz(a,h)anthracene	(8)
(3) Benzo(k)fluoranthene	(6) Indeno(1,2,3-cd)pyrene	(9)

Exposure Pathways of Concern

Surficial Soil
- X Ingestion/dermal contact/inhalation

Subsurface Soil
- ☐ Ingestion of groundwater impacted by leachate
- X Inhalation of indoor air vapors
- X Inhalation of outdoor air vapors

Groundwater
- ☐ Ingestion of groundwater
- X Inhalation of indoor air vapors
- X Inhalation of outdoor air vapors

Water Used for Recreation
- ☐ Ingestion/dermal contact

Land Use Scenario

X Residential X Commercial/Industrial

Method of Analysis

X Tier 1
☐ Tier 2 (specify soil type: ☐ Merritt sands ☐ sandy silts ☐ clayey silts)
☐ Tier 3 Model(s) employed: ☐ Oakland RBCA ☐ Other(s) (specify:)

Application of RBCA Levels

☐ As evidence that no further action required
X As target cleanup levels for removal or treatment of chemical(s) of concern
X Other (specify: as indication of need for risk management measures)

Containment Measures

X Cap (specify material: existing concrete) ☐ Vapor barrier (specify material:)
☐ Other(s) (specify:)
Exposure pathways that will be affected: Ingestion, dermal contact, inhalation

Institutional Controls

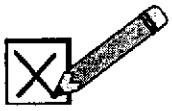
X Permit tracking ☐ Deed restriction ☐ Deed Notice ☐ Water well restriction
☐ Access control X Other(s) (specify: Risk management plan for site improvement/redevelopment)

Public Notification

Specify all actions to be taken: None anticipated at this time.

Submitted by: The Brush Street Group **Date submitted:** April 29, 2003

Oakland RBCA Eligibility Checklist



The Oakland Tier 1 RBSLs and Tier 2 SSTLs are intended to address human health concerns at the majority of sites in Oakland where commonly-found contaminants are present. Complicated sites—especially those with continuing releases, ecological concerns or unusual subsurface conditions—will likely require a Tier 3 analysis. The following checklist is designed to assist you in determining your site's eligibility for the Oakland RBCA levels.

CRITERIA	YES	NO
1. Is there a continuing, *primary* source of a chemical of concern, such as a leaking container, tank or pipe? (This does *not* include residual sources.)	☐	☒
2. Is there any mobile or potentially-mobile free product?	☐	☒
3. Are there more than five chemicals of concern at the site at a concentration greater than the lowest applicable Oakland RBCA level?	☒	☐
4. Are there any preferential vapor migration pathways—such as gravel channels or utility corridors—that are potential conduits for the migration, on-site or off-site, of a volatilized chemical of concern?	☐	☒
5. Do both of the following conditions exist? (a) Groundwater is at depths less than 300 cm (10 feet) (b) Inhalation of volatilized chemicals of concern from groundwater in indoor or outdoor air is a pathway of concern but groundwater ingestion is *not**	☐	☒
6. Are there any existing on-site or off-site structures intended for future use where exposure to indoor air vapors from either soil or groundwater is of concern *and* one of the following three conditions is present? (a) A slab-on-grade foundation that is less than 15 cm (6 inches) thick (b) An enclosed, below-grade space (e.g., a basement) that has floors or walls less than 15 cm (6 inches) thick (c) A crawl space that is not ventilated	☐	☒
7. Are there any immediate, acute health risks to humans associated with contamination at the site, including explosive levels of a chemical?	☐	☒
8. Are there any complete exposure pathways to nearby ecological receptors, such as endangered species, wildlife refuge areas, wetlands, surface water bodies or other protected areas?	☐	☒

*If groundwater ingestion *is* a pathway of concern, the associated Oakland RBCA levels will be more stringent than those for any groundwater-related inhalation scenario, rendering depth to groundwater irrelevant in the risk analysis.

If you answer "no" to all questions, your site is eligible for the Oakland RBCA levels. If you answer "yes" to any of the questions, your site is *not* eligible for the Oakland RBCA levels at this time.