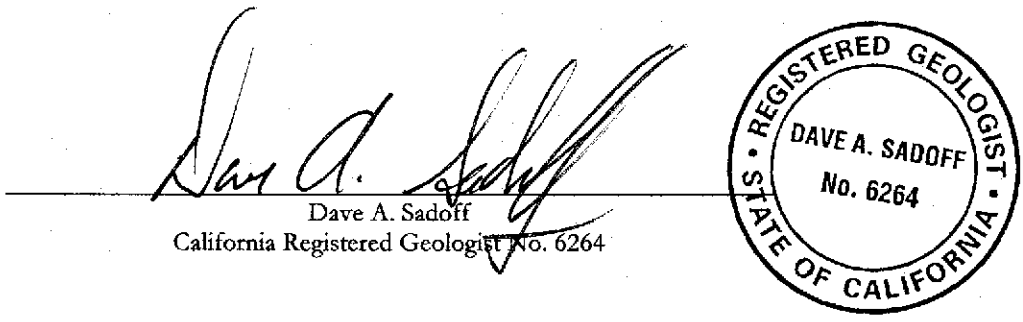
SUBSURFACE EXPLORATION
AND MONITORING
WELL INSTALLATION
Project #150-561B-R1

ESTATE OF J. HOLLAND SR.
16301 EAST 14th STREET
SAN LEANDRO, CALIFORNIA

PREPARED BY ENVIRONMENTAL BIO-SYSTEMS, INC.
FOR
ESTATE OF J. HOLLAND SR.



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Environmental Bio-Systems, Inc.
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1. INTRODUCTION

Environmental Bio-Systems, Inc. (EBS) performed the subsurface exploration described within this report on behalf of the Estate of J. Holland Sr. (the Client). Work included in this project was performed according to a signed contract between EBS and the client (EBS proposal #P99036B-R1).

The purpose of the project was to further evaluate the vertical and lateral extents of subsurface hydrocarbon impact at the Site through the installation and sampling of forty three exploratory soil cores and two ground water monitoring wells. Tasks described within this document were conducted in response to requests made to the property owners by the Alameda County Health Care Services Agency (ACHCSA).

The principal project contacts are:

Client: Ms. Anne Marie Holland, Executress, 1498 Hamrick Lane, Hayward, CA 94544, 510-782-4307.

Consultant: Mr. Dave Sadoff, Project Manager, Environmental Bio-Systems, Inc., P.O. Box 7171, San Jose, CA, 95150-7171, 408-979-8600.

1.1. Scope of Work

A brief summary of major tasks encompassed in this project includes:

1. Work plan submission/approval.
2. Permitting.
3. Production of a site-specific health and safety plan.
4. Borehole utility clearance.
5. Continuously coring soil at ~~forty-four~~ **locations** (designated as cores SC 1 through SC 44).
6. Drilling two soil borings completed as ground water monitoring wells (designated as borings/wells MW4 and MW5).
7. Collecting ~~one hundred thirty one~~ soil samples from the cores and borings for chemical analyses.
8. Developing wells MW4 and MW5.
9. Sampling wells MW4 and MW5 in addition to pre-existing wells MW1, MW2 and MW3.
10. Analyzing soil and water samples for one or more of the following analytes:
    - Total petroleum hydrocarbons as gasoline (TPHg)
    - Total petroleum hydrocarbons as diesel (TPHd)
    - Total petroleum hydrocarbons as kerosene (TPHk)
    - Total petroleum hydrocarbons as stoddard solvent (TPHss)
    - Benzene, toluene, ethylbenzene and total xylenes (BTEX)
    - Methyl tertiary butyl ether (MtBE)
    - Total oil and grease (TOG)

11. Heavy Metals including: cadmium, chromium, nickel, lead and zinc (Cd, Cr, Ni, Pb, Zn)
12. Polychlorinated biphenyls (PCBs)
13. Percent organic content, percent total porosity, dry density, percent moisture content
14. Storing drill cuttings, purge water and decontamination water for later disposal.
15. Evaluating the direction and gradient of ground water flow beneath the Site.
16. Submission of this report.

1.2. Site Description

1.2.1. Location and Use

The site is located at 16301 E. 14th Street in San Leandro, California. The property encompasses approximately three acres in a mixed commercial and residential area within an unincorporated area of Alameda County. A site location map is included as Figure 1 of Appendix A.

The United States Geological Survey Hayward, California Quadrangle Map shows the site to be located in Section 5, Township 3 south, Range 2 west of the Mount Diablo Base and Meridian. The property is situated approximately 3 miles east of San Francisco Bay's east shoreline, and lies at an elevation of approximately 40 feet above mean sea level. The topography of the site dips gently to the west.

The site is bounded by a Little League baseball field to the south, Edendale School to the west and by used auto dealerships to the north and east.

The site was partially occupied by San Leandro Crane Service (SLCS) at the time the field portion of this project was performed. The remainder of the site remained vacant.

Known past uses of the site are limited to bulk fuel storage, blending, and retail sales carried out between approximately 1960 and the mid-1980s. A building in the southwest portion of the lot historically used for repair of service vehicles relating to the former bulk fuel operation was being used for storage and maintenance of equipment by SLCS at the time of our field work.

1.2.2. Regional Geology and Hydrogeology

The site is located in the East Bay Plain Area of the San Francisco Bay drainage basin. The Hayward Fault lies approximately 1,000 feet east-northeast of the site.

The flat, alluviated Plain lowlands are bounded to the north by the San Pablo Bay, to the east by the Hayward Fault and the Coast Range foothills, and to the south and west by the San Francisco Bay. Older alluvium in the area consists of Pliocene and Pleistocene clay, silt, sand, and gravel. These sediments were derived mainly from the hills to the east, and represent successive coalescing alluvial fans.

The site lies above the San Lorenzo Cone hydrogeologic sub-area. This sub-area consists of various sand and gravel strata within older alluvium. Three shallow aquifers have been identified within the adjacent Niles Cone sub-area: the Newark, Centerville, and Fremont aquifers (shallowest to deepest). Well yields range from a few tens of gallons per minute to over one thousand gallons per minute.

1.3. Previous Environmental Work

1990
Crosby and Overton, Inc. (C&O) drilled and sampled five exploratory soil borings near the two former diesel USTs. Soil samples collected from the borings were found to contain up to 25,000 milligrams per kilogram (mg/kg) total petroleum hydrocarbons as diesel (TPHd). Ground water was first encountered at approximately 15 feet below ground surface (bgs).

February 1996
Compliance & Closure, Inc. (CCI) directed the location of eight USTs at the Site. CCI reportedly located three gasoline, two kerosene, two diesel, and one stoddard solvent UST.

April 1996
CCI installed and sampled three ground water monitoring wells. Soils encountered during drilling activities were described as silty clay, thin beds of silty sand, and sand to 18 feet bgs.

Soil samples collected during well drilling activities reportedly contained up to 4,400 mg/kg total petroleum hydrocarbons as gasoline (TPHg) and 8,200 TPHd. These soil samples were also found to contain up to 0.024 mg/kg 1,4-dichlorobenzene and 0.4 mg/kg methylene chloride. Ground water samples collected from the wells were found to contain up to 33,000 micrograms per liter (µg/L) TPHg; up to 12 µg/L benzene, 83 µg/L toluene, 22 µg/L ethylbenzene, and 160 µg/L xylenes (BTEX, respectively); up to 9,700 µg/L TPHd, up to 41,000 µg/L total recoverable petroleum hydrocarbons (TRPH); and up to 3.1 µg/L 1,2-dichlorobenzene.

July 1996
CCI conducted quarterly monitoring of the ground water wells. Ground water samples were found to contain up to 1,400 µg/L TPHg; 17, 5.6, 7.6 and 32 µg/L BTEX components, respectively, and 4,600 µg/L TPHd.

October 1996
CCI conducted quarterly monitoring of the ground water wells. Ground water samples were found to contain up to 7,300 µg/L TPHg; 16, 8.9, 20 and 15 µg/L BTEX components, respectively, and 14,000 µg/L TPHd.

January 1997
CCI conducted quarterly monitoring of the ground water wells. Ground water samples were found to contain up to 2,600 µg/L TPHg; 6.4 µg/L benzene; 44 µg/L toluene, and 2,800 µg/L TPHd.

April 1997
CCI conducted quarterly monitoring of the ground water wells. Ground water samples were found to contain up to 2,700 µg/L TPHg; 16, 8, 10 and 25 µg/L BTEX components, respectively, and 500 µg/L TPHd.

August/September 1998
EBS directed Site mitigation activities. One hundred and forty three 55-gallon steel drums and approximately 60 smaller containers were inventoried at the Site. Approximately 4,636 total gallons of the contents were identified as oily water. Another 650 gallons of the drum contents were identified as oily water contaminated with halogenated constituents. ~~Approximately 100 total gallons (two 55-gallon drums) of oily water were contaminated with PCBs~~. A single 55-gallon drum contained approximately 50 gallons of sodium hypochlorite. All containers and

their contents were removed from the site and transported to appropriate recycling and/or disposal facilities.

Approximately 2,690 gallons of liquid and sludge was also removed from eight site underground storage tanks (USTs). All 8 USTs were subsequently excavated and removed from the site.

Approximately 5,200 gallons of liquid and sludge were removed from the 20 above ground storage tanks (ASTs). All 20 ASTs were then demolished and disposed of as scrap metal.

Two of the tanks (T2 and T3) were observed to have large holes in their bottoms. Tank T1 additionally exhibited severe pitting along its surface. A sheen was noted on ground water that was encountered in each of the 5 tank pits. Slight to moderate petroleum odor and greenish discoloration were observed in soils excavated from around each of the USTs.

A total of nine soil samples were collected from beneath USTs T1, T2, T3, T4, T5 and T6 at the air/ground water interface (approximately 10 feet bgs). Analyses of these samples revealed the presence of up to 6,900 mg/kg TPHg; up to 21, 28, 69, and 130 mg/kg BTEX, respectively; up to 3,200 mg/kg TPHd; up to 9,600 mg/kg total petroleum hydrocarbons as stoddard solvent (TPHss); and up to 11 mg/kg Pb.

Composite samples were collected from both UST overburden soil piles. The four-point composite soil sample collected from the stoddard solvent tank stockpile was not found to contain reportable concentrations of either TPHss or BTEX. The four-point composite soil sample collected from the kerosene tank overburden was found to contain 5,200 mg/kg TPHk.

Samples were collected from accumulated water within the pits from which tanks T1 and T2 were removed. Additional water samples were taken from the remaining 3 pits that formerly held tanks T3 and T4, T5 and T6 and T7 and T8, respectively. Analyses of these samples revealed the presence of up to 78,000 µg/L TPHg; up to 1,500, 8,400, 1,900, and 14,000 µg/L BTEX, respectively; up to 1,600,000 µg/L TPHd; and 490,000 µg/L TPHss. Neither MTBE nor Pb was found in any of the analyzed water samples at levels exceeding laboratory reporting limits.

~~Soil overburden was placed back into the pits with the concurrence of the ACHCSA and Client agreement that further assessment and remediation would be performed as found appropriate.~~ No soil compaction was performed at that time, per Client request.

2. WORK PLAN

EBS submitted Work Plan #150-561B to the ACHCSA for approval prior to commencement of field activities. A copy of this Work Plan is included in Appendix B. Hazardous Materials Specialist Mr. Scott Seery of the ACHCSA approved the Work Plan with minor revisions in correspondence dated 1 March 2000. A copy of this correspondence is included in Appendix B.

3. PERMITS

EBS secured sequentially numbered Well Drilling Permits W01-W012 from the Alameda County Public Works Agency prior to commencement of field activities. Copies of the permits are included in Appendix C.

4. HEALTH AND SAFETY PLAN

EBS produced a site-specific health and safety plan addressing necessary safety procedures for anticipated hazards associated with fieldwork during the course of the proposed subsurface exploration. The health and safety plan was signed by all field workers in tailgate safety meetings held at the beginning of each day of coring and/or drilling indicating their comprehension of its' contents.

5. FIELD PROCEDURES

Fieldwork was carried out between 5 January and 8 February 2001. Specific tasks performed are described in the following sections.

5.1. Soil Core and Borehole Locations

Mr. Seery of the AHCSA specified the locations of soil cores and wells in correspondence to the Client dated 15 March 1999. A copy of this correspondence is included in Appendix B.

The locations of soil cores SC1 through SC22, and monitoring wells MW4 and MW5 are shown on Figures 3 through 19 of Appendix A. Soil cores SC43 and SC44 sampled to provide background physical soil data are shown only on Figure 3.

The locations of cores SC1 through SC8 were selected to evaluate potential impact to Site soil near the seven ASTs previously located adjacent to Building A. The locations of cores SC9 through SC14 were selected to evaluate potential impact to Site soil near seven ASTs previously located adjacent to Building C. The locations of cores SC15 through SC 20 were selected to evaluate potential impact to Site soil near six ASTs previously located adjacent to Building B. The locations of cores SC21 through SC42 were selected to evaluate potential impact to Site soil near 8 USTs previously located between Buildings A, B and C.

Core SC43 was intended for placement in an area assumed free of impact with the intention of providing background data for potential future risk-based corr[redacted]
The initially proposed location was abandoned when field observations from soil cuttings and core indicated the probable presence of petroleum impact. No samples were collected from this core.

A replacement location was selected for core SC43 and designated as core SC44. Placed to the southeast of core SC43, no obvious indications of petroleum hydrocarbon impact were encountered during coring. Soil samples collected from core SC44 were analyzed for selected physical parameters.

The locations of wells MW4 and MW5 were selected to evaluate impact to Site soil and ground water in the presumed down-gradient direction from known sources of impact.

5.1.1. Utility Clearance

EBS contacted Underground Service Alert (USA) on 2 January 2001 to mark the locations of underground utilities on public property and/or right of ways at and near proposed subsurface construction areas. USA issued tag #1802 on that date.

EBS also contracted CU Surveys of San Ramon, California (CU) to clear proposed boring locations on private property using electromagnetic instruments. CU pronounced all proposed boring locations clear of near-surface ferrous obstructions on 5 January 2001.

5.2. Coring and Drilling

EBS directed the drilling of forty four soil cores at the site by Fast-Tek Engineering Support of Point Richmond, California (FT) on 8,9, 10, and 11 January 2001. FT is a California licensed drilling contractor (C-57 #589008). All soil cores were advanced to a depth of 12 feet bgs using a Geoprobe™ Model 5400 direct push technology rig.

Soil borings MW4 and MW5 were drilled by Exploration Geo-Services of San Jose, California (EGS) on 12 January 2001. EGS is a California licensed drilling contractor (C-57 #484288). Both borings were advanced to a depth of 20 feet bgs using 8-inch nominal outer diameter hollow stem augers.

Soil collected from the cores and borings was logged by an EBS geologist according to the Uniform Soil Classification System. The borehole lithologic logs and well construction details are presented in Appendix D.

5.2.1. Storage of Drill Cuttings

All soil cuttings accumulated during drilling were placed within Department of Transportation (DOT) approved 55-gallon drums with bolt-down lids. The drums were labeled with a description of their contents and dates of accumulation, and were stored in the central portion of the lot pending later disposal.

5.2.2. Soil Sample Collection

Continuous soil cores were advanced at each core location. Soil was collected from within the cores inside a 4-foot long, 2-inch diameter clear acetate sleeve held within a barrel sampler. Soil samples for chemical analyses were cut from the acetate sleeves at depths of 2 feet, 5 feet, and between 8 and 12 feet bgs within the cores. The deepest sample from within each core and boring was collected from the capillary fringe (unsaturated soil zone lying directly above ground water). Depths of collection from the deep interval varied depending upon the actual depth at which groundwater was first encountered at each location.

Soil samples from borings were collected using a 1½ foot California split-spoon sampler containing 3 stainless steel tubes. Soil samples were collected from consecutive five-foot intervals within each boring for lithologic logging and observation. Soil samples for chemical analyses were collected from depths of 5 and 9 feet bgs within the borings converted into wells MW4 and MW5.

The ends of all acetate and stainless steel tubes submitted to the laboratory were covered with Teflon™ sheets and sealed with plastic caps immediately upon retrieval from the samplers. Each tube was then labeled, sealed in a clean plastic bag, and stored in a cooler on top of crushed ice.

Chain of custody documentation was initiated in the field and accompanied all samples in transit to the laboratory. A copy of the analytical reports, chain of custody, and sample receipt form documents are included in Appendix E.

5.2.2.1. Soil Vapor Screening

All samples were field screened using a portable organic vapor meter (OVM). The Thermo Environmental Instruments, Co. Model 580D OVM used for this purpose was calibrated at the beginning of each day of use to a 100 part per million (ppm) isobutylene standard.

Approximately 50 to 100 grams of soil were collected from various depths during drilling, and from soil immediately adjacent to the locations intended for laboratory analysis. Each 50 to 100 gram sample was sealed within a plastic bag labeled with a unique designation for the project and allowed to remain undisturbed for approximately 20 minutes. The OVM was then used to measure the resulting accumulation of vapor in the headspace within the bags. The maximum value attained for each such sample was recorded on field logs.

Screened soil samples yielded readings between 0 and >1,000 ppm expressed as isobutylene equivalents.

5.3. Site Geology

Soils encountered during drilling typically included silty clay with minor angular clasts to approximately 3 feet bgs, at which depth gravely silty clay was encountered. Minor thin interbeds of gravels were found in several cores at approximately 4 to 4½ feet bgs; fine-grained sand was encountered in several cores at approximately 8½ feet bgs. Stiff dark gray clay was typically encountered at approximately 11½ feet bgs, and extended to the deepest drilled depth (20 feet bgs). The depths at which changes in lithology occurred were inconsistent within the cores and borings included in this exploration.

logs?

5.4. Site Hydrogeology

First water was encountered between approximately 9 and 11 feet bgs during coring and drilling. Depth to ground water measurements were subsequently taken during well sampling. Ground water was gauged at between 7.63 and 7.90 feet below the top of well casings at the time of sampling, indicating confined or semi-confined aquifer conditions.

5.5. Well Construction

Ground water monitoring wells MW4 and MW5 were constructed of two-inch diameter schedule 40 PVC casing. The perforated section of each well consisted of 0.020-inch factory slotted screen connected by threaded joints, and a threaded bottom end cap. Blank casing was used to complete the upper portion of the wells.

Both wells were screened from 7 feet to 20 feet bgs. Filter sand (Lonestar #3) was used to pack the annular space between the perforated well casing (screen) and borehole wall. The annular space was filled with sand to approximately one foot above the top of the perforated pipe section. A one-foot bentonite spacer was placed above the sand interval and hydrated in place. A neat cement slurry grout was then used to fill the annular space from this depth to approximately ½-feet bgs.

A locking well cap fitted with a watertight gasket was secured and locked in place over the top of the casing. A traffic box with a bolt-on lid was then placed over the well head and secured in

place with concrete. Well construction details are shown on the borehole lithologic logs included in Appendix D.

5.5.1. Well Development

EBS directed FS in the development of the wells on 16 January 2001. Development was accomplished employing alternate surging and bailing. Approximately 15 gallons of water were evacuated from each well during this process (30 gallons total) and contained on-site in a labeled DOT approved 55-gallon drum. All drums remain on site as of the drafting of this report.

5.6. Well Sampling

Sampling of ground water wells MW1 through MW5 was performed on 8 February 2001 by an EBS field technician. Transparent polyethylene bailers were first used to withdraw ground water from the wells prior to purging. Water contained within each bailer was observed for light non-aqueous phase liquid (LNAPL) or hydrocarbon sheen. Observations were recorded on the sample collection log. Both sheen and odor were noted on ground water collected from well MW1. Neither LNAPL nor hydrocarbon sheen were observed in water collected from wells MW2 through MW5.

The depth to water and total well depth was measured upon opening the wells using an electronic ground water interface probe. Depth to ground water was measured at 7.77, 7.87, 7.63, 7.90, and 7.82 feet below the top of casings respectively in ground water monitoring wells MW1 through MW5. Total well depths were measured at approximately 15.8, 19.0, 21.1, 19.2, and 19.7 feet below the respective tops of casings of these wells.

Water was purged from the wells using a stainless steel bailer. Effluent measurements of pH, temperature, and conductivity were made during the purging process. Bailing was continued until the measured results values for pH, temperature and conductivity were found to stabilize in the effluent. A minimum of four casing volumes of water was purged from each well prior to sampling.

Approximately 5.5 gallons of water was purged from well MW1, 7.5 gallons from well MW2, 9.5 gallons from well MW3, 7.5 gallons from well MW4, and 8 gallons from well MW5 prior to sampling. All water removed from the wells was contained on-site in labeled DOT approved 55 gallon drums where it remains as of the drafting of this report.

A new polyethylene disposable bailer was used to collect each water sample from the wells. Sampled water was contained in laboratory pre-cleaned 40 milliliter (ml) volatile organic analysis vials (VOAs) containing hydrochloric acid as a preservative, and in laboratory pre-cleaned 1-liter amber bottles. Unique labels were then affixed to each container before sealing them within clean plastic bags. Labeled samples were then stored in a cooler on top of crushed ice. Water samples were then transported under chain of custody to the analytical laboratory for analysis.

5.7. Decontamination & Storage of Waste Water

The split spoon samplers and Teflon™ bailer used during drilling were washed with a non-phosphate detergent solution and triple rinsed with clean distilled water between the collection of

soil samples and/or ground water samples. All other down-hole equipment was steam cleaned prior to first use, and subsequent to each use.

All decontamination water generated on site was collected and stored in DOT approved, labeled 55-gallon drums where they remain as of the drafting of this report. Disposable bailers used to sample ground water from the wells were discarded after a single use.

6. SAMPLE ANALYSIS

Soil and ground water samples were delivered to Analytical Sciences (AS) of Petaluma, California for analysis. AS is accredited through the California State Department of Toxic Substances Control environmental laboratory accreditation program (ELAP #2118) to perform all analyses used during this project.

Selected soil and ground water samples were analyzed for one or more of the following:

- TPHg by EPA Methods 5030 and 8015 (modified)
- TPHd by EPA Methods 3550 and 8015 (modified)
- TPHk be EPA Methods 3550 and 8015 (modified)
- TPHss by EPA Methods 3550 and 8015 (modified)
- BTEX and MTBE by EPA Methods 5030 and 8020
- TOG by EPA Method 418.1 (modified)
- PCBs by EPA Methods 3553 and 8080
- HVOCs by EPA Methods 5030 and 8010
- Heavy Metals (Cd, Cr, Ni, Pb, Zn) by EPA Methods 3050/7000 series/6010
- Percent Organic Content (core SC44 only)
- Percent Total Porosity (core SC44 only)
- Dry Density (core SC44 only)
- Percent Moisture Content (core SC44 only)

SVOCs ?

PCB analyses were run on all two-foot samples from borings SC9-SC14 (locations targeted to explore conditions surrounding ASTs 8-14) as well as the five-foot samples from the borings of wells MW4 and MW5. Sam[redacted]d to explore soil conditions surrounding [redacted] subjected to PCB analyses only if that sample was [redacted] to contain [redacted] boiling hyd[redacted]

The decision to use the EPA 8015 as a screening tool for samples to be analyzed for PCBs was based upon the probable detection of PCBs through this method. The EPA 8015 analysis should also incorporate PCBs within the reported result.

Analyses for soil samples collected from specific areas were selected based upon the known contents of ASTs or USTs in accordance with the correspondence from Mr. Seery to the Client dated 1 March 2000. A copy of this correspondence is included in Appendix B.

Cores SC1-SC8 were targeted to evaluate soil surrounding former ASTs 1-7. Products contained in these ASTs include waste oil and kerosene. Samples from these cores were analyzed for TPHg/BTEX/MTBE, TPHd/TPHk/TPHss (high boiling hydrocarbons), TOG, HVOCs, heavy metals, and PCBs (two foot depth only, subject to 8015 screening).

Cores SC9-SC14 were targeted to explore soil conditions surrounding former ASTs 8-14. Products contained in these ASTs include virgin motor oil, automatic transmission fluid and pale stock. Samples from these cores were analyzed for TOG and PCBs.

Cores SC15-SC20 targeted soil surrounding former ASTs 15-20. Products contained in these ASTs include waste oil, kerosene, virgin motor oil, automatic transmission fluid, gasoline and diesel. Samples from these cores were analyzed for TPHg/BTEX/MTBE, high boiling hydrocarbons, TOG, HVOCs, heavy metals, and PCBs (two-foot depth only, subject to 8015 screening).

Cores SC21-SC42 were intended to provide data on soil conditions surrounding former USTs T1-T8. USTs T1-T3 reportedly contained only gasoline. UST T4 was reported as having contained stoddard solvent. USTs T5 and T6 were reported to have contained kerosene. USTs T7 and T8 were reported to have contained diesel. Samples from the cores intended to evaluate soil surrounding the former USTs were analyzed for TPHg/BTEX/MTBE, high boiling hydrocarbons.

Core SC43 was not sampled as previously described. Samples from core SC44 were analyzed for percent organic content, percent total porosity, dry density, and percent moisture content.

Soil samples were collected from 5 and 9 feet bgs during drilling within the borings completed as wells MW4 and MW5. Samples from these borings were analyzed for TPHg, TPHd, TPHk, TPHss, BTEX, MTBE, TOG, HVOCs, and PCBs (five foot samples only).

6.1. Soil Sample Results

The results of soil sample analyses are summarized in Tables 1, 2 and 3. The results are also depicted on Figures 4 through 19. A copy of all certified analytical reports and chain of custody documents are presented in Appendix E.

High boiling hydrocarbons (diesel, kerosene and stoddard solvent) were stored in either the same tanks or in closely quartered adjacent tanks at several locations around the Site. Releases of these products from the same or closely placed tanks resulted in the potential for commingling of these compounds in analyzed samples. Speciation of the individual hydrocarbons present in each sample involved subjective determination by the laboratory. Chromatograms of all samples analyzed for high boiling fraction hydrocarbons were scrutinized by laboratory personnel and speciated as TPHd, TPHk, or TPHss to the best of their ability.

Samples that targeted the area surrounding former ASTs 1-6 (cores SC1-SC8) were found to contain significant concentrations of TPHg, high boiling hydrocarbons (speciated primarily as TPHd), and TOG. The range of concentrations reported for these analytes in these samples were non-detected (ND) to 820 mg/kg TPHg, ND to 8,200 mg/kg high boiling hydrocarbons and ND to 14,000 mg/kg TOG.

Two-foot samples from cores SC3 and SC6 were additionally found to contain elevated concentrations of a single heavy metal each. **Sample SC3-2' was found to contain 54 mg/kg Cr. Sample SC6-2' was found to contain 640 mg/kg Ni.** Both of these concentrations exceed the California Title 26 soluble threshold limit concentration (STLC) values for their respective metals by at least ten times. None of the other samples from this area that were analyzed for heavy metals contained concentrations that exceeded the STLC limits.

Samples targeted to examine soil conditions surrounding former ASTs 8-14 (cores SC9-SC14) were found to contain TOG concentrations from ND to 44,000 mg/kg. Low levels of PCBs were found in just four of the samples from these cores at concentrations ranging from 99-250 ug/kg.

Samples taken to evaluate soil surrounding former ASTs 15-20 (cores SC15-SC20) were found to contain TPHg, and high boiling hydrocarbons. The range of concentrations reported for these analytes in these samples were non-detected (ND) to 7,200 mg/kg TPHg and ND to 8,300 mg/kg high boiling hydrocarbons (sample speciation reported TPHd, TPHk and TPHss).

Samples that were intended to examine soil conditions surrounding the former USTs (cores SC16-SC42) were found to contain significant concentrations of TPHg and high boiling hydrocarbons (speciated entirely as TPHd). The range of concentrations reported for these analytes in these samples were non-detected (ND) to 7,200 mg/kg TPHg and ND to 8,300 mg/kg high boiling hydrocarbons (sample speciation reported of TPHd, TPHk and TPHss).

The three samples collected from core SC44 were found to contain organic content of between 1.4 and 7.2 percent; total porosity of between 23 and 47 percent; dry density of between 89 and 123 pcf, and a moisture content of from between 27 and 97 percent.

6.1.1. Kerosene & Stoddard Solvent

Although high boiling fraction hydrocarbons were found in many of the soil samples collected during this project, results speciated by the laboratory as being either kerosene or stoddard solvent were few. Of those samples, the represented samples were almost exclusively localized to the former locations of tanks reputed to have held these products.

A total of six samples in which high boiling hydrocarbons were found were reported as stoddard solvent. Of these all were collected from cores SC16, SC17 and SC18, both of which lie beneath former UST T4 (reported to have contained only stoddard solvent). Concentrations ranged in these samples from 410 mg/kg to 8,300 mg/kg.

A total of four samples reported as containing kerosene were found. Two of these samples were collected from core SC19. The position of this core lies directly beneath AST 15, which contained kerosene. Two samples collected from core SC3 were also found to contain 510 and 780 mg/kg TPHk. Core SC3 was placed adjacent to AST 5, which also contained kerosene.

Samples collected from the boring of well MW4 were found to contain up to 960 mg/kg TPHg, up to 2,300 TPHd, up to 4,700 mg/kg TOG, and up to 300 ug/kg PCBs. @ 5' bg

Soil samples collected from the boring of well MW5 were found to contain up to 280 mg/kg TPHg, up to 230 mg/kg TPHd, and up to 670 mg/kg TOG.

6.2. Trends of Dispersion

Three contaminants were by far the most prolific of those encountered in soil during the course of this exploration. Although various other analytes were discovered in localized areas and/or in low concentrations, it is apparent that TPHg, high boiling point hydrocarbons (speciated primarily as diesel), and TOG are present over large areas of the Site from surface to the depth at which ground water is encountered.

Figures 11-19 of Appendix A depict isoconcentration contours for each contaminant at shallow (2'), mid-depth (5') and deep (8-12') intervals. These figures represent our subjective interpretation of the lateral spread of the contaminants at each of the three depth intervals. Areas where insufficient data was available to form reasonable contaminant contours are marked with question marks (queries).

Several of the core locations chosen by the ACHSCA were within the former UST excavations. Shallow and mid-depth soil sample data collected from these cores represent soil that was previously excavated and returned to the pits as backfill. This soil is no longer representative of trends existing in undisturbed surrounding soils. We therefore omitted the shallow and mid-depth sample data from these cores in forming the isocontours displayed on our figures.

6.2.1. TPHg

The lateral spread of TPHg in soil samples collected in the shallow depth interval at two feet bgs is depicted on Figure 11. This figure shows three distinct areas of impact. An elongate area of impact measuring approximately 140 feet by 70 feet exists is oriented around core SC22. Another smaller elongate area of impact measuring approximately 30 feet by 60 feet is oriented around core SC18. The third, a circular area approximately 30 feet in diameter is oriented around core SC32.

Three areas of impact are also seen on Figure 12, which depicts dispersion of TPHg in mid-depth soil (samples at 5 feet bgs.). The largest area measures approximately 120 feet by 60 feet, more or less centered on an axis connecting cores SC22-SC26-SC32. Another smaller elongate area of TPHg impact (approximately 40 feet by 20 feet) is seen oriented approximately on core SC18. The third area of impact is seen at MW4 where insufficient data exists to predict trends of dispersion.

TPHg impact is more widespread within the capillary fringe, as shown on Figure 13. The areas of highest impact appear to be centered near core SC35 (in proximity to former UST T1) and core SC24 (in proximity to former UST T7). Impact at this depth appears to exist in two lobes, the first extending approximately from core SC7 to well MW4, the second approximately from core SC33 to well MW5.

6.2.2. High Boiling Point Hydrocarbons

The lateral dispersion of high boiling point hydrocarbons in shallow interval soil samples is shown on Figure 14. One large area, approximately 180 feet by 120 feet, is seen centered approximately in the middle of the property. A second elongate area measuring approximately 80 feet by 25 feet is oriented approximately on an axis connecting cores SC17 and SC18.

Areas of high boiling hydrocarbon impact appear to be more localized in soil at the mid-depth interval, as shown on Figure 15. Four zones of impact were interpreted at this depth. The first area, measuring approximately 80 feet by 50 feet, is seen centered approximately on the area represented by cores SC5, SC22, and SC26. A second area of approximately 50 feet by 20 feet is centered approximately around core SC32. A third elongate area of approximately 60 feet by 30 feet is shown oriented approximately around core SC18. A fourth area of queried impact is seen centered on well MW4.

The pattern of high boiling hydrocarbon dispersal in soil at the capillary fringe is almost a duplicate of that interpreted for TPHg at this depth. One large area of impact is predicted

extending from core SC7 to well MW4. A second large area appears to extend from core SC33 to well MW5.

6.2.3. TOG

The extent of TOG in shallow interval soil samples is depicted on Figure 17. One area measuring approximately 80 feet by 50 feet is seen centered on the area represented by cores SC5, SC6 and SC8. A second area measuring approximately 100 feet by 30 feet lies centered along an axis connecting cores SC9, SC12 and SC13. A third area measuring approximately 70 feet by 25 feet is found centered near the area of cores SC17 and SC18.

Mid-depth soil samples show TOG to in an elongate area measuring approximately 75 feet by 20 feet centered on cores SC3 and SC5. Another area of impact is predicted in an elongate pattern approximately 70 feet by 25 feet centered along an axis connecting cores SC12 and SC14. A third area of impact measuring approximately 70 feet by 35 feet was found centered near the location of core SC18. Another area lacking sufficient data to predict trends is seen at well MW4.

TOG was found within the capillary fringe in a large area measuring approximately 180 feet by 60 feet extending from cores SC1 to SC14. Isoconcentrations of TOG also show areas of impact centered near cores SC16 and SC17. Another queried area of impact is found at well MW4.

6.3. Ground Water Sample Results

Ground water sample results are summarized on Table 3 and on Figure 20. Certified analytical reports are included in Appendix E.

Ground water sample MW1-H_20 (well MW1) was found to contain 8,200 µg/L TPHg; 83, 60, 33 and 110 µg/L BTEX, respectively; 5,100 µg/L quantified as TPHss; and 28 mg/L TOG.

Ground water samples MW2-H_20 (well MW2) and MW3-H_20 (well MW3) were not found to contain reportable concentrations of any chosen analytes.

Ground water sample MW4-H_20 (well MW4) was found to contain 1,000 µg/L TPHg; 6.1, 2.2, 1.6 and 6.9 µg/L BTEX, respectively; 240 µg/L quantified as TPHss; and 1.4 mg/L TOG.

Ground water sample MW5-H_20 (well MW5) was found to contain 270 µg/L TPHg; 0.70 µg/L benzene, 2.8 µg/L total xylenes; and 9.2 µg/L MTBE.

7. GROUND WATER FLOW DIRECTION AND GRADIENT

The elevations of ground water monitoring well casings were surveyed by Fremont Engineers, Inc. of Fremont, California (FEI) on 20 February 2001. Charles Ludwig of FEI signed the survey plat. Mr. Ludwig is a California Professional Engineer (No. 31917). A copy of the surveyor's map is included in Appendix F.

The ground water flow direction and gradient was calculated using the surveyor's top of casing elevations and depth to ground water measurements made on 8 February 2001. Ground water flow beneath the Site was calculated to the northwest with a gradient of 0.007 ft/ft on that date. Figure 21 in Appendix A graphically depicts the ground water flow direction and gradient.

8. SUMMARY AND CONCLUSIONS

1. Forty-four exploratory soil cores and two soil borings were drilled and sampled at the site between 8 January and 11 January 2001. Soils encountered during coring and drilling typically included silty clay with minor angular clasts to approximately 3 feet bgs, at which depth gravely silty clay was encountered. **Minor thin interbeds of gravels were found in several cores at approximately 4 to 4½ feet bgs; a fine-grained sand was encountered in several cores at approximately 8½ feet bgs.** A stiff dark gray clay was typically encountered at approximately 11½ feet bgs, and extended to the deepest drilled depth (20 feet bgs). The depths at which each lithology change occurred were not consistent throughout the Site. Ground water was first encountered at between approximately 9 and 11 feet bgs within the cores and borings.

2. OVM Screening of soil samples yielded between 0 and >1,000 ppm, expressed in isobutylene equivalents.

3. A total of 131 soil samples were collected from the borings and analyzed for one or more of the following: TPHg, TPHd, TPHk, TPHss, BTEX, MTBE, TOG, PCBs, HVOCs, Cd, Cr, Ni, Pb, Zn, Percent Organic, Percent Total Porosity, Dry Density, and Percent Moisture Content.

4. Soil was not sampled from core SC43. A field determination was made that soil from this core exhibited obvious indications of petroleum impact and that such impact would skew physical parameter analyses. Replacement soil core SC44 was subsequently drilled to the east of SC43 and sampled for physical parameters.

5. Analysis of samples from both cores and borings showed the presence of up to 13,000 mg/kg TPHg, 8,400 mg/kg TPHd, 2,900 mg/kg TPHk, 8,300 mg/kg TPHss, mg/kg benzene, 35 mg/kg toluene, 240 mg/kg ethyl benzene, 1,100 mg/kg xylenes, 44,000 mg/kg TOG, and 310 µg/kg PCBs. Heavy metals were found at low levels in all but samples SC3-2' and SC6-2' where elevated concentrations of chromium and nickel were found, respectively. Results of HVOC analyses showed only low-level concentrations. None of the submitted soil samples were found to contain reportable concentrations of MTBE.

6. High boiling fraction hydrocarbons speciated in soil samples as either kerosene or stoddard solvent were found almost exclusively beneath single point sources of these products.

7. Interpretations of the lateral spread of the three most prevalent contaminants found in soil samples (TPHg, high boiling hydrocarbons and TOG) show prolific impact emanating outward from around at least three source areas of the Site.

8. Ground water monitoring wells MW4 and MW5 were constructed on 12 January 2001 and developed on 16 January 2001.

9. Ground water samples were collected from wells MW1 through MW5 on 8 February 2001 and analyzed for TPHg, TPHd, TPHk, TPHss, BTEX, MTBE, TOG and PCBs. Results of analyses run showed the presence of up to 8,200 µg/l TPHg, 5,100 µg/l TPHss, 83 µg/l benzene, 60 µg/l toluene, 33 µg/l ethyl benzene, 110 µg/l xylenes, and 28 mg/l TOG.

The highest levels of impact to ground water by compounds of concern were found in the sample collected from well MW1. This sample was found to contain 8,200 µg/L TPHg; 83, 60, 33 and 110 µg/L BTEX, respectively; 5,100 µg/L TPHss; and 28 mg/L TOG. The location of this well lies nearest to, and downgradient from the known source areas identified in our exploration.

Ground water samples from wells MW4 and MW5, located further downgradient from MW1, were found to contain low to moderate levels of contaminants. The sample collected from MW5 was, however, found to contain 9.2 µg/L MTBE. Wells MW2 and MW3, located cross-gradient from the known sources, were not found to contain reportable concentrations of any of the chosen analytes.

10. Ground water flow beneath the Site was calculated to the northwest with a gradient of 0.007 ft/ft at the time of measurement on 8 February 2001.

9. DISCUSSION & RECOMMENDATIONS

The results of our exploration have identified and partially defined multiple source areas of impact to both soil and ground water from products stored and handled by the former bulk fuel distribution business which operated at the site from 1960s to the late 1980s. Containment of multiple products within individual storage tanks as well as in closely situated tanks has apparently resulted in the widespread commingling of compounds associated with several of the products handled. This fact has resulted in the overlapping footprints of compounds interpreted in our isoconcentration maps (Figures 11-19)

Compounds represented by TPHg, TPHd and TOG are by far the most prevalent of those encountered. Significant kerosene and stoddard solvent impact was also found but appear to be limited to single point sources where these products were known to have been contained. Two soil samples yielded high concentrations of a single heavy metal each (one nickel, the other chromium), however surrounding soil samples at each location did not contain elevated concentrations of any of the chosen metals.

While the data generated by this study allowed reasonable predictions of the lateral spread of impact to site soil, further limited exploration is needed to more accurately predict the actual extents of contaminant dispersal. Elevated concentrations of impacting constituents in both soil and water samples from well MW4 suggest either a separate source of impact (possibly related to former vehicle maintenance activities performed within building C) or migration from the source areas already identified to the southeast and east. Other areas such as the northwest side of building C also lack sufficient information to predict trends in dispersal. Evaluation of our data also strongly suggests the possibility of the off-site migration of contaminants in both soil and ground water.

All future tasks relating to the assessment or remediation of impact potentially caused by contents of the former fuel USTs should first be pre-approved by the State UST Fund to preserve the Client's rights for reimbursement under Senate Bill SB2004. This report should be forwarded by the Client to any and all interested government agencies, as directed by such agencies or mandated under existing applicable guidelines and/or laws.

10. LIMITATIONS

This report was developed in accordance with generally accepted standards of current environmental practice in California. This report is time-dependent and should not be considered valid after a 1-year period from the issue of this report. After 1 year from the issue of this report, site conditions and recommendations contained within this report should be reviewed.

This study was performed solely for the purpose of evaluating environmental conditions of the site subsurface relative to hydrocarbon impact at the subject Site. No engineering or geotechnical references are implied or should be inferred.

Evaluation of the condition of the Site, for the purpose of this study, was made from a limited number of observation points. Subsurface conditions may deviate away from these points. Additional work, including further study of the subsurface, can reduce the inherent uncertainties associated with this type of work.

The project was performed, and the report was prepared for the sole use of our client, the Estate of J. Holland Sr. The report and the findings contained herein shall not be disclosed to nor used by any other party without the prior written consent of Environmental Bio-Systems, Inc. It is also the responsibility of the Client to convey all data, conclusions and recommendations to regulatory agencies and other parties, as appropriate.

The recommendations herein are professional opinions that our firm has endeavored to provide with competence and reasonable care. We are not able to eliminate the risks associated with environmental work. No guarantees or warrants, express or implied, are provided regarding our recommendations. It is the responsibility of the client to convey any and all recommendations to governmental agencies and other parties, as appropriate.

11. REFERENCES

Alameda County Health Care Services Agency, Letter to Ann Marie Holland, 15 March 1999.

Compliance & Closure, Inc., April 1997 Quarterly Report, Former Jack Holland Sr. Oil Company, 16301 East 145h Street, San Leandro, California, 14 April 1997.

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Environmental Bio-Systems, Inc., Site Mitigation Report, 16301 E. 14th Street, San Leandro, California, 9 December 1998.

Environmental Bio-Systems, Inc., Work Plan: Subsurface Exploration, 16301 E. 14th Street, San Leandro, California, 18 November 1999.

United States Geological Survey, Hayward, California Quadrangle Map, 7.5-Minute Series, Topographic, 1959, Photorevised 1980.

TABLE 1: TPHg/BTEX/MTBE, TPHd/TPHk/TPHss, TOG, Heavy Metals, PCBs in Soil (mg/kg unless otherwise noted)

Sample #	TPHg	MTBE	Benzene	Toluene	Ethyl Benzene	Xylenes	TPHd	TPHk	TPHss	TOG	Heavy Metals Cd/Cr/Ni/Pb/Zn	PCB's (µg/kg)
SC1-2'	1.5	ND	ND	0.010	0.011	0.024	190	ND[1]	ND[1]	97	ND/38/30/33/80	ND
SC1-5'	ND	ND	ND	ND	ND	ND	29	ND[1]	ND[1]	41	ND/33/4.6/36/40	NA
SC1-12'	1.9	ND	ND	ND	ND	0.016	61	ND[1]	ND[1]	140	ND/36/5.6/34/35	NA
SC2-2'	12	ND	ND	ND	0.057	0.99	79	ND[1]	ND[1]	880	ND/41/19/40/50	ND
SC2-5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND/28/4.5/33/32	NA
SC2-10'	ND	ND	ND	ND	ND	ND	ND	ND	ND	44	ND/43/5.6/46/48	NA
SC3-2'	ND	ND	ND	ND	0.014	0.18	ND	ND	ND	ND	ND/54/4.0/49/37	ND[2]
SC3-5'	510	ND	ND	ND	4.3	57	ND[1]	780	ND[1]	2,100	ND/31/9.8/19/39	NA
SC3-10'	130	ND	ND	ND	ND	7.3	ND[1]	510	ND[1]	47	ND/40/5.2/37/42	NA
SC4-2'	430	ND	1.2	ND	2.5	11	6,200	ND[1]	ND[1]	14,000	ND/37/14/38/59	ND
SC4-5'	170	ND	ND	ND	ND	3.3	1,900	ND[1]	ND[1]	2,800	ND/40/6.0/42/46	NA
SC4-9'	20	ND	0.13	0.08	0.03	0.20	110	ND[1]	ND[1]	26	ND/48/3.6/37/32	NA
SC5-2'	270	ND	ND	ND	ND	ND	1,300	ND[1]	ND[1]	6,400	ND/45/9.6/48/56	ND
SC5-5'	820	ND	ND	ND	1.6	ND	5,700	ND[1]	ND[1]	12,000	ND/32/5.6/33/38	NA
SC5-10'	290	ND	ND	ND	ND	ND	1,300	ND[1]	ND[1]	760	ND/40/6.9/42/55	NA
SC6-2'	770	ND	ND	2.4	2.6	15	6,000	ND[1]	ND[1]	11,000	ND/35/640/46/110	ND
SC6-5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND/41/6.0/45/52	NA
SC6-9'	21	ND	ND	ND	ND	ND	28	ND[1]	ND[1]	ND	ND/34/3.8/33/35	NA

Area A

Area A

TABLE 1: PAGE 2 OF 8

Sample #	TPHg	MTBE	Benzene	Toluene	Ethyl Benzene	Xylenes	TPHd	TPHk	TPHss	TOG	Heavy Metals Cd/Cr/Nl/Pb/Zn	PCB's (µg/kg)
SC7-2'	ND	ND	ND	ND	ND	ND	33	ND[1]	ND[1]	270	ND/33/6.6/29/52	[redacted]
SC7-5'	ND	ND	ND	ND	ND	ND	12	ND[1]	ND[1]	22	ND/35/5.0/40/44	NA
SC7-9.5'	230	ND	ND	ND	ND	ND	500	ND[1]	ND[1]	750	ND/29/4.7/30/39	NA
SC8-2'	110	ND	ND	0.28	0.9	2.0	390	ND[1]	ND[1]	6,200	ND/36/7.8/41/45	[redacted]
SC8-5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND/40/5.7/43/46	NA
SC8-10'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND/27/4.7/30/32	NA
SC9-2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	260	NA	ND
SC9-5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	110	NA	ND
SC9-9'	NA	NA	NA	NA	NA	NA	NA	NA	NA	4,500	NA	[redacted]
SC10-2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	180	NA	ND
SC10-9'	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,500	NA	ND
SC11-2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	ND
SC11-5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	38	NA	ND
SC11-9'	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,100	NA	[redacted]
SC12-2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	7,300	NA	ND
SC12-5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	8,900	NA	ND
SC12-9'	NA	NA	NA	NA	NA	NA	NA	NA	NA	29,000	NA	ND

Area A

Area B

Area A

Area B

TABLE 1: PAGE 3 OF 8

Sample #	TPHg	MTBE	Benzene	Toluene	Ethyl Benzene	Xylenes	TPHd	TPHk	TPHss	TOG	Heavy Metals Cd/Cr/Ni/Zn	PCB's (µg/kg)
SC13-2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	44,000	NA	240
SC13-5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	190	NA	ND
SC13-9'	NA	NA	NA	NA	NA	NA	NA	NA	NA	6,800	NA	ND
SC14-2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	240	NA	ND
SC14-5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	22,000	NA	99
SC14-8'	NA	NA	NA	NA	NA	NA	NA	NA	NA	10,000	NA	ND
SC15-2'	ND	ND	ND	ND	ND	ND	ND	ND	ND	28	ND/42/9.9/39/31	NA
SC15-5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND/39/6.4/[illegible]/51	NA
SC15-9'	230	ND	ND	ND	ND	ND	310	ND[1]	ND[1]	380	ND/27/4.9/31/33	NA
SC16-2'	1.6	ND	ND	ND	ND	0.022	ND	ND	ND	22	ND/36/7.0/39/27	NA
SC16-5'	1.5	ND	ND	ND	ND	0.028	ND	ND	ND	55	ND/47/7.4/[illegible]/61	NA
SC16-8.5'	5,400	ND	ND	3.0	17	110	ND[1]	ND[1]	6,600	7,000	ND/26/4.8/27/28	NA
SC17-2'	1,200	ND	ND	ND	1.4	3.8	ND[1]	ND[1]	1,900	4,700	ND/41/6.3/31/32	ND
SC17-5'	18	ND	ND	ND	ND	0.03	ND[1]	ND[1]	410	430	ND/38/6.5/49/54	NA
SC17-8'	5,300	ND	ND	5.8	9.2	68	ND[1]	ND[1]	5,500	5,000	ND/37/5.9/42/45	NA
SC18-2'	3,600	ND	ND	3.6	4.7	37	ND[1]	ND[1]	3,400	6,500	ND/35/16/29/26	ND
SC18-5'	7,200	ND	ND	7.6	13	97	ND[1]	ND[1]	8,300	9,200	ND/20/4.7/31/32	NA
SC18-8'	8.1	ND	ND	ND	0.02	0.12	ND	ND	ND	ND	ND/31/3.6/34/33	NA

Area B

Area C

Area B

Area C

TABLE 1: PAGE 4 OF 8

Sample #	TPHg	MTBE	Benzene	Toluene	Ethyl Benzene	Xylenes	TPHd	TPHk	TPHss	TOG	Heavy Metals Cd/Cr/Ni/Pb/Zn	PCB's (µg/kg)
SC19-2'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND/47/5.4/37/32	NA
SC19-5'	4,200	ND	ND	ND	ND	ND	ND[1]	2,900	ND[1]	2,100	ND/27/5.0/32/35	NA
SC19-8'	600	ND	ND	ND	ND	ND	ND[1]	1,600	ND[1]	1,100	ND/35/5.3/39/40	NA
SC20-2'	ND	ND	ND	ND	ND	ND	220	ND[1]	ND[1]	130	ND/38/15/45/40	ND
SC20-5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	66	ND/29/6.6/36/38	NA
SC20-9'	4.3	ND	ND	ND	ND	ND	42	ND[1]	ND[1]	ND	ND/27/5.1/32/39	NA
SC21-2'	11	ND	ND	0.018	ND	0.086	28	ND[1]	ND[1]	NA	NA	NA
SC21-9'	19	ND	ND	ND	ND	0.052	100	ND[1]	ND[1]	NA	NA	NA
SC22-2'	1,400	ND	ND	ND	4.2	15	2,000	ND[1]	ND[1]	NA	NA	NA
SC22-5'	930	ND	ND	ND	ND	ND	5,500	ND[1]	ND[1]	NA	NA	NA
SC22-9'	850	ND	ND	ND	1.8	ND	6,200	ND[1]	ND[1]	NA	NA	NA
SC23-2'	510	ND	ND	ND	1.0	4.9	2,400	ND[1]	ND[1]	NA	NA	NA
SC23-5'	350	ND	ND	ND	ND	ND	780	ND[1]	ND[1]	NA	NA	NA
SC23-9'	490	ND	ND	ND	2.4	4.6	1,400	ND[1]	ND[1]	NA	NA	NA
SC24-2'	190	ND	ND	ND	ND	ND	2,400	ND[1]	ND[1]	NA	NA	NA
SC24-5'	84	ND	ND	ND	ND	ND	730	ND[1]	ND[1]	NA	NA	NA
SC24-9'	1,200	ND	ND	ND	ND	ND	6,400	ND[1]	ND[1]	NA	NA	NA
SC25-2'	460	ND	ND	ND	ND	ND	4,200	ND[1]	ND[1]	NA	NA	NA
SC25-5'	1.2	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
SC25-9'	250	ND	ND	ND	ND	ND	770	ND[1]	ND[1]	NA	NA	NA

Area D

Area D

TABLE 1: PAGE 5 OF 8

Sample #	TPHg	MTBE	Benzene	Toluene	Ethyl Benzene	Xylenes	TPHd	TPHk	TPHss	TOG	Heavy Metals Cd/Cr/Ni/Pb/Zn	PCB's (µg/kg)
SC26-2'	4,500	ND	7.8	5.6	34	160	6,000	ND[1]	ND[1]	NA	NA	NA
SC26-5'	2,100	ND	ND	1.5	4.9	12	4,000	ND[1]	ND[1]	NA	NA	NA
SC26-9'	230	ND	ND	ND	ND	ND	610	ND[1]	ND[1]	NA	NA	NA
SC27-2'	470	ND	ND	ND	ND	ND	1,900	ND[1]	ND[1]	NA	NA	NA
SC27-5'	840	ND	ND	ND	1.9	3.8	1,900	ND[1]	ND[1]	NA	NA	NA
SC27-9'	180	ND	ND	ND	ND	2.2	150	ND[1]	ND[1]	NA	NA	NA
SC28-2'	ND	ND	ND	ND	ND	0.015	580	ND[1]	ND[1]	NA	NA	NA
SC28-5'	1.2	ND	ND	ND	ND	0.015	26	ND[1]	ND[1]	NA	NA	NA
SC28-8.5'	3.8	ND	ND	0.007	0.005	0.095	24	ND[1]	ND[1]	NA	NA	NA
SC29-2'	600	ND	ND	ND	1.3	7.3	1,900	ND[1]	ND[1]	NA	NA	NA
SC29-5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
SC29-9'	870	ND	ND	ND	1.7	11	2,300	ND[1]	ND[1]	NA	NA	NA
SC30-2'	1.0	ND	ND	ND	ND	0.029	980	ND[1]	ND[1]	NA	NA	NA
SC30-5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
SC30-8.5'	160	ND	ND	ND	ND	ND	200	ND[1]	ND[1]	NA	NA	NA
SC31-2'	1.7	ND	ND	ND	ND	ND	7.2	ND[1]	ND[1]	NA	NA	NA
SC31-5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
SC31-9'	2.1	ND	ND	ND	ND	0.044	5.2	ND[1]	ND[1]	NA	NA	NA

TABLE 1: PAGE 6 OF 8

Sample #	TPHg	MTBE	Benzene	Toluene	Ethyl Benzene	Xylenes	TPHd	TPHk	TPHss	TOG	Heavy Metals Cd/Cr/Ni/Pb/Zn	PCB's (µg/kg)
SC32-2'	1,900	ND	2.6	1.3	9.9	40	2,000	ND[1]	ND[1]	NA	NA	NA
SC32-5'	440	ND	ND	ND	ND	4.0	840	ND[1]	ND[1]	NA	NA	NA
SC32-9'	2,200	ND	6.5	2.1	29	41	3,900	ND[1]	ND[1]	NA	NA	NA
SC33-2'	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
SC33-5'	4,200	ND	26	6	46	100	5,200	ND[1]	ND[1]	NA	NA	NA
SC33-9'	960	ND	2.4	3	12	27	370	ND[1]	ND[1]	NA	NA	NA
SC34-2'	3.1	ND	0.020	0.030	0.015	0.038	270	ND[1]	ND[1]	NA	NA	NA
SC34-5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
SC34-9'	330	ND	ND	1.3	1.4	3.6	360	ND[1]	ND[1]	NA	NA	NA
SC35-2'	9.5	ND	0.094	0.045	0.62	1.2	130	ND[1]	ND[1]	NA	NA	NA
SC35-5'	5.0	ND	ND	ND	0.042	0.091	10	ND[1]	ND[1]	NA	NA	NA
SC35-8.5'	13,000	ND	61	35	240	1,100	7,400	ND[1]	ND[1]	NA	NA	NA
SC36-2'	3.4	ND	0.007	0.001	0.025	0.084	110	ND[1]	ND[1]	NA	NA	NA
SC36-5'	11	ND	0.025	0.001	0.022	0.054	350	ND[1]	ND[1]	NA	NA	NA
SC36-8'	1,200	ND	5.2	2.6	22	47	1,000	ND[1]	ND[1]	NA	NA	NA
SC37-2'	ND	ND	ND	ND	ND	ND	80	ND[2]	ND[1]	NA	NA	NA
SC37-5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
SC37-9'	1,900	ND	3.9	3.5	4.0	11	3,400	ND[2]	ND[1]	NA	NA	NA

Area D

Area E

Area D

Area E

Area E

Area E

TABLE 1: PAGE 7 OF 8

Sample #	TPHg	MTBE	Benzene	Toluene	Ethyl Benzene	Xylenes	TPHd	TPHk	TPHss	TOG	Heavy Metals Cd/Cr/Ni/Pb/Zn	PCB's (µg/kg)
SC38-2'	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
SC38-5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
SC38-9'	110	ND	ND	ND	ND	0.56	230	ND[2]	ND[1]	NA	NA	NA
SC39-2'	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
SC39-5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
SC39-8.5'	2.8	ND	ND	ND	ND	0.029	8.4	ND[2]	ND[1]	NA	NA	NA
SC40-2'	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
SC40-5'	ND	ND	ND	ND	ND	ND	30	ND[2]	ND[1]	NA	NA	NA
SC40-9'	450	ND	ND	1.1	1.1	3.2	620	ND[2]	ND[1]	NA	NA	NA
SC41-2'	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
SC41-5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
SC41-8'	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
SC42-2'	ND	ND	ND	ND	ND	ND	50	ND[2]	ND[1]	NA	NA	NA
SC42-5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
SC42-9'	400	ND	ND	ND	ND	5.2	760	ND[2]	ND[1]	NA	NA	NA
MW4-5'	300	ND	ND	ND	ND	6.6	[illegible]	ND[2]	ND[1]	4,700	NA	[illegible]
MW4-9'	960	ND	ND	ND	1.3	14	[illegible]	ND[2]	ND[1]	[illegible]	NA	NA
MW5-5'	ND	ND	ND	ND	ND	0.019	220	ND[2]	ND[1]	350	NA	ND
MW5-9'	280	ND	ND	ND	ND	2.3	230	ND[2]	ND[1]	670	NA	NA

TABLE 1: PAGE 8 OF 8

NOTES:

ND = Analyte not detected above laboratory detection limit (as stated on the corresponding certified laboratory report).
NA = Sample not analyzed for this analyte.
Shading = Denotes sample analyzed for PCBs dependant upon the results of an EPA Method 8015 screen.
ND[1] = Analytical Sciences made a determination based upon the chromatographic pattern whether the contamination was most like Stoddard Solvent, Kerosene or Diesel. The value reported reflects the total amount of semi-volatile hydrocarbons observed and is so reported as the determined source.
ND[2] = Sample not analyzed for PCBs because TPHd was not detected.

TABLE 2: HVOCs in Soil (µg/kg unless otherwise noted)

Sample ID	1,1-DCE	1,1-DCA	c-1,2-DCE	1,1,1-TCA	TCE	PCE	CB	CT	1,3-DCB	1,4-DCB	1,2-DCB
SC1-2"	ND	ND	11	ND	ND	ND	ND	ND	ND	ND	ND
SC1-5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SC1-12'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SC2-2'	ND	ND	2.1	ND	5.9	ND	ND	ND	ND	ND	ND
SC2-5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SC2-10'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SC3-2'	ND	2.1	ND	ND	ND	ND	ND	ND	ND	ND	ND
SC3-5'	12	84	1.8	100	1.2	4.2	ND	ND	ND	31	ND
SC3-10'	ND	4.1	ND	4.8	ND	ND	ND	ND	ND	1.3	ND
SC4-2'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SC4-5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SC4-9'	ND	ND	ND	ND	ND	ND	ND	ND	1.6	4.2	ND

TABLE 2: PAGE 2 OF 8

Sample ID	1,1-DCE	1,1-DCA	c-1,2-DCE	1,1,1-TCA	TCE	PCE	CB	CT	1,3-DCB	1,4-DCB	1,2-DCB
SC5-2'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SC5-5'	ND	ND	ND	ND	ND	ND	ND	ND	2.1	3.7	ND
SC5-10'	ND	ND	ND	ND	ND	ND	1.6	ND	[illegible]	[illegible]	ND
SC6-2'	ND	ND	5.4	ND	2.6	2.1	ND	ND	ND	2.0	2.1
SC6-5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SC6-9'	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0	ND
SC7-2'	ND	ND	1.3	ND	ND	ND	ND	ND	ND	ND	ND
SC7-5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SC7-9.5'	ND	ND	ND	ND	ND	ND	ND	ND	8.0	25	ND
SC7-12'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC8-2'	ND	ND	4.5	ND	1.6	3.6	13	24	5.9	12	75
SC8-5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SC8-10'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SC9-2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC9-5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC9-9'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC10-2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC10-9'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

2.6 1.8

TABLE 2: PAGE 3 OF 8

Sample ID	1,1-DCE	1,1-DCA	c-1,2-DCE	1,1,1-TCA	TCE	PCE	CB	CT	1,3-DCB	1,4-DCB	1,2-DCB
SC11-2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC11-5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC11-9'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC12-2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC12-5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC12-9'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC13-2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC13-5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC13-9'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC14-2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC14-5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC14-8'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC15-2'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SC15-5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SC15-9'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SC16-2'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SC16-5"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SC16-8.5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 2: PAGE 4 OF 8

Sample ID	1,1-DCE	1,1-DCA	c-1,2-DCE	1,1,1-TCA	TCE	PCE	CB	CT	1,3-DCB	1,4-DCB	1,2-DCB
SC17-2'	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND
SC17-5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SC17-8'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SC18-2'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SC18-5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SC18-8"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SC19-2'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SC19-5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SC19-8'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SC20-2'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SC20-5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SC20-9'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SC21-2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC21-9'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC22-2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC22-5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC22-9'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC23-2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC23-5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC23-9'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 2: PAGE 5 OF 8

Sample ID	1,1-DCE	1,1-DCA	c-1,2-DCE	1,1,1-TCA	TCE	PCE	CB	CT	1,3-DCB	1,4-DCB	1,2-DCB
SC24-2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC24-5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC24-9'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC25-2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC25-5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC25-9'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC26-2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC26-5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC26-9'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC27-2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC27-5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC27-9'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC28-2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC28-5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC28-8.5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC29-2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC29-5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC29-9'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 2: PAGE 6 OF 8

Sample ID	1,1-DCE	1,1-DCA	c-1,2-DCE	1,1,1-TCA	TCE	PCE	CB	CT	1,3-DCB	1,4-DCB	1,2-DCB
SC30-2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC30-5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC30-8.5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC31-2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC31-5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC31-9'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC32-2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC32-5"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC32-9'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC33-2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC33-5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC33-9'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC34-2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC34-5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC34-9'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC35-2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC35-5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC35-8.5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 2: PAGE 7 OF 8

Sample ID	1,1-DCE	1,1-DCA	c-1,2-DCE	1,1,1-TCA	TCE	PCE	CB	CT	1,3-DCB	1,4-DCB	1,2-DCB
SC36-2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC36-5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC36-8"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC37-2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC37-5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC37-9'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC38-2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC38-5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC38-9'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC39-2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC39-5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC39-8.5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC40-2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC40-5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC40-9'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC41-2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC41-5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC41-8'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 2: PAGE 8 OF 8

Sample ID	1,1-DCE	1,1-DCA	c-1,2-DCE	1,1,1-TCA	TCE	PCE	CB	CT	1,3-DCB	1,4-DCB	1,2-DCB
SC42-2'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC42-5'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SC42-9'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW4-5'	ND	ND	ND	ND	ND	ND	**2.0**	ND	ND	ND	ND
MW4-9'	ND	ND	ND	ND	ND	ND	**9.8**	ND	ND	ND	**1.0**
MW4-15'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW5-5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW5-9'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:

ND = Analyte not detected above laboratory detection limit (as stated on the corresponding certified laboratory report).
NA = Sample not analyzed for this analyte.
1,1-DCE = 1,1-Dichloroethylene
c-1,2-DCE = cis-1,2- Dichloroethylene
1,1,1-TCE = 1,1,1-Trichloroethylene
PCE = perchloroethylene (tetrachloroethylene)
CB = chlorobenzene
CT = chlorotoluene
1,3-DCB = 1,3-Dichlorobenzene
1,4-DCB = 1,4- Dichlorobenzene
1,2-DCB = 1,2- Dichlorobenzene

TABLE 3: SOIL PHYCICAL PARAMETERS

Sample #	% Organic Content	Total Porosity (%)	Dry Density (pcf)	Moisture Content (%)
SC44-2'	7.2	23	123	97
SC44-4'	5.8	47	89	29
SC44-9'	1.4	42	98	27

NOTES:
pcf = pounds per cubic foot

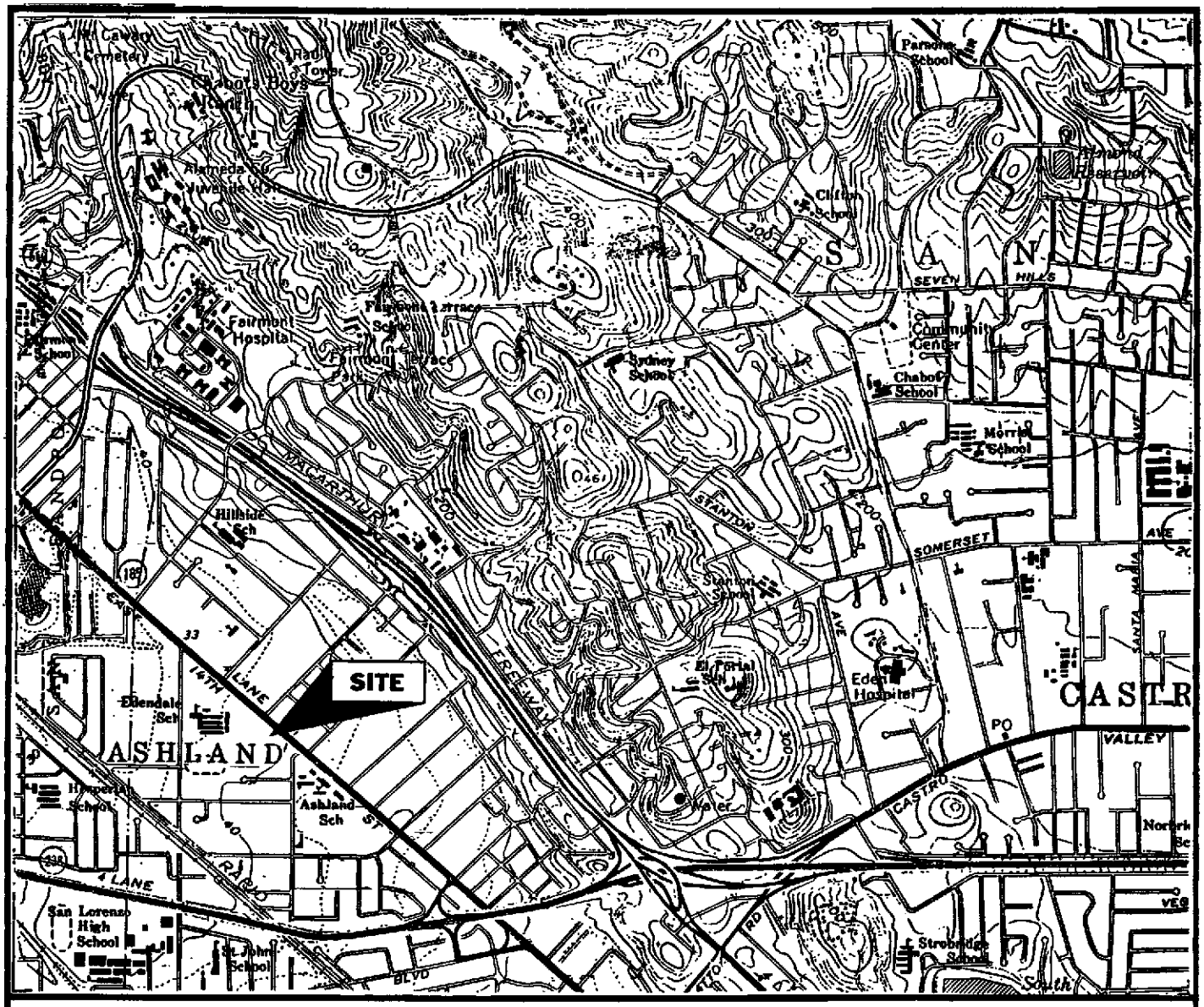
TABLE 4: WATER SAMPLE RESULTS (expressed in µg/l unless otherwise noted)

Sample #	TPHg	MTBE	Benzene	Toluene	Ethyl Benzene	Xylenes	TPHd	TPHk	TPHss	TOG (mg/L)	PCB's
MW1-H20	8,200	ND	83	60	33	110	ND[1]	ND[1]	5,100	28	ND
MW2- H20	ND	ND	ND	ND	ND	ND	ND[1]	ND[1]	ND[1]	ND[1]	ND
MW3- H20	ND	ND	ND	ND	ND	ND	ND[1]	ND[1]	ND[1]	ND[1]	ND
MW4- H20	1,000	ND	6.1	2.2	1.6	6.9	ND[1]	ND[1]	240	1.4	ND
MW5- H20	270	9.2	0.70	ND	ND	2.8	ND[1]	ND[1]	ND[1]	ND[1]	ND

NOTES:
ND = Analyte not detected above laboratory detection limit (as stated on the corresponding certified laboratory report).
ND[1] = Analytical Sciences made a determination based upon the chromatographic pattern whether the contamination was most like Stoddard Solvent, Kerosene or Diesel. The value reported reflects the total amount of semi-volatile hydrocarbons observed and is so reported as the determined source.

APPENDIX A:

FIGURES



Source: USGS Hayward, California 7.5-Minute Quadrangle Map

ENVIRONMENTAL BIO-SYSTEMS, INC.

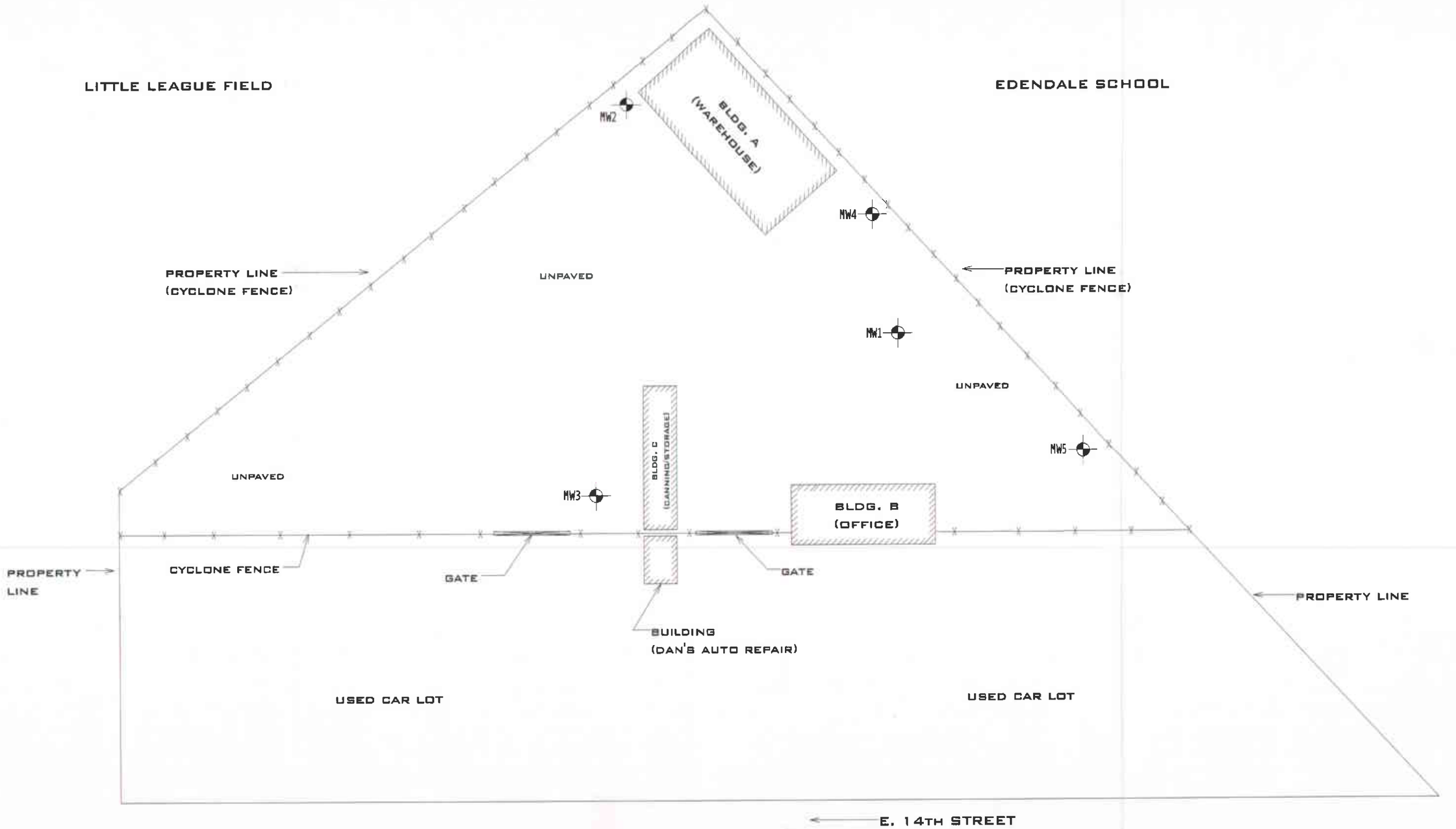
DATE: 5/4/01

DRAWN BY: DAS

SCALE: 1"=2,000'

FIGURE 1: SITE LOCATION MAP

ESTATE OF J. HOLLAND, SR.
16301 E. 14th STREET
SAN LEANDRO, CALIFORNIA



ENVIRONMENTAL BIO-SYSTEMS, INC.	DATE: 5/4/01	**FIGURE 2: SITE MAP**
	DRAWN BY: DAS/TMB	
	PROJECT # 150-561B-R1	ESTATE OF J. HOLLAND SR. 16301 E. 14th STREET SAN LEANDRO, CALIFORNIA
	SCALE: AS SHOWN	

SCALE (feet)

0 10 25 50 100 200

LEGEND

MW5 Ground water monitoring well

FORMER AST CONTENTS

1- waste oil/kerosene
2- waste oil/kerosene
3- waste oil/kerosene
4- waste oil/kerosene
5- waste oil/kerosene
6- waste oil/kerosene
7- waste oil/kerosene
8- virgin motor oil/automatic trans. fluid/pale stock
9- virgin motor oil/automatic trans. fluid/pale stock
10- virgin motor oil/automatic trans. fluid/pale stock
11- virgin motor oil/automatic trans. fluid/pale stock
12- virgin motor oil/automatic trans. fluid/pale stock
13- virgin motor oil/automatic trans. fluid/pale stock
14- virgin motor oil/automatic trans. fluid/pale stock
15- waste oil/kerosene/virgin motor oil/ automatic trans. fluid/gasoline/diesel/kerosene
16- waste oil/kerosene/virgin motor oil/ automatic trans. fluid/gasoline/diesel/kerosene
17- waste oil/kerosene/virgin motor oil/ automatic trans. fluid/gasoline/diesel/kerosene
18- waste oil/kerosene/virgin motor oil/ automatic trans. fluid/gasoline/diesel/kerosene
19- waste oil/kerosene/virgin motor oil/ automatic trans. fluid/gasoline/diesel/kerosene
20- waste oil/kerosene/virgin motor oil/ automatic trans. fluid/gasoline/diesel/kerosene

FORMER UST CONTENTS

T1- gasoline
T2- gasoline
T3- gasoline
T4- stoddard solvent
T5- kerosene
T6- kerosene
T7- diesel
T8- diesel

LEGEND

14 — Former vertical AST location.
20 — Former horizontal AST location.
T8 — Former UST location.
MW5 — Ground water monitoring well.
SC44 — Soil core location.

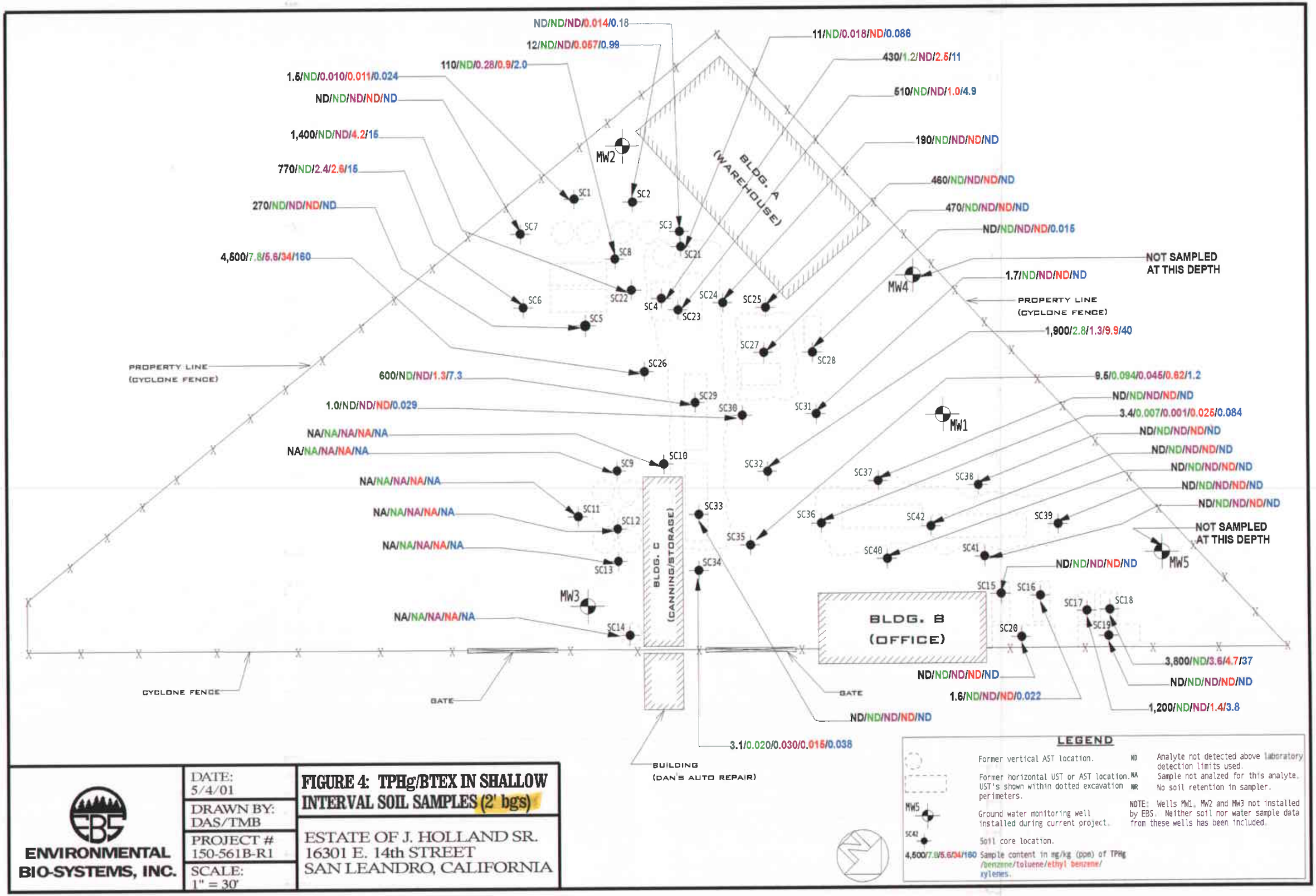
SCALE (feet)
10 50 200
0 25 100

ENVIRONMENTAL BIO-SYSTEMS, INC.

DATE: 5/4/01
DRAWN BY: DAS/TMB
PROJECT # 150-561B-R1
SCALE: AS SHOWN

FIGURE 3: CORE & WELL LOCATIONS WITH FORMER AST/UST OVERLAYS

ESTATE OF J. HOLLAND SR.
16301 E. 14th STREET
SAN LEANDRO, CALIFORNIA

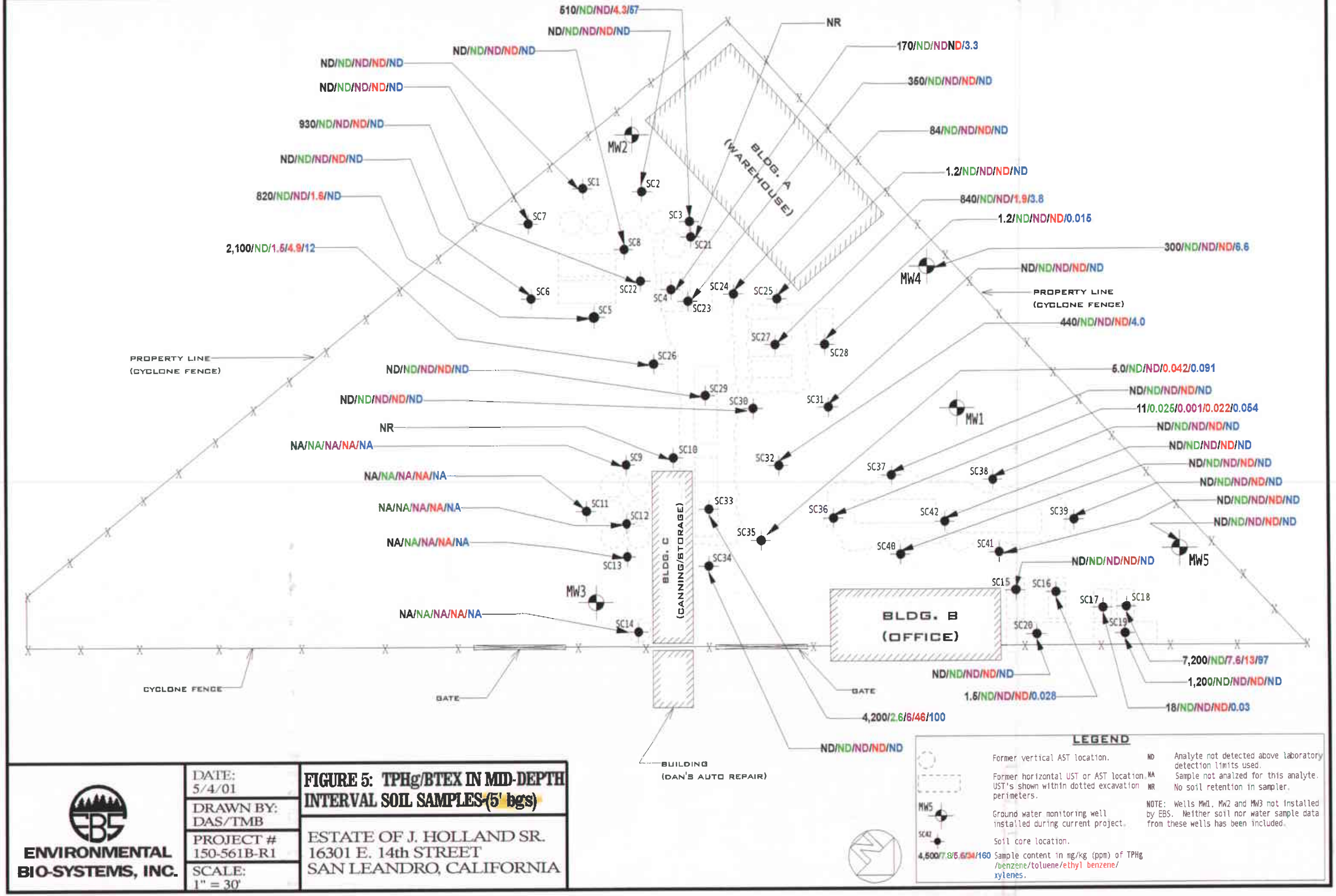


ENVIRONMENTAL BIO-SYSTEMS, INC.

DATE: 5/4/01
DRAWN BY: DAS/TMB
PROJECT # 150-561B-R1
SCALE: 1" = 30'

FIGURE 4: TPHg/BTEX IN SHALLOW INTERVAL SOIL SAMPLES (2' bgs)

ESTATE OF J. HOLLAND SR.
16301 E. 14th STREET
SAN LEANDRO, CALIFORNIA

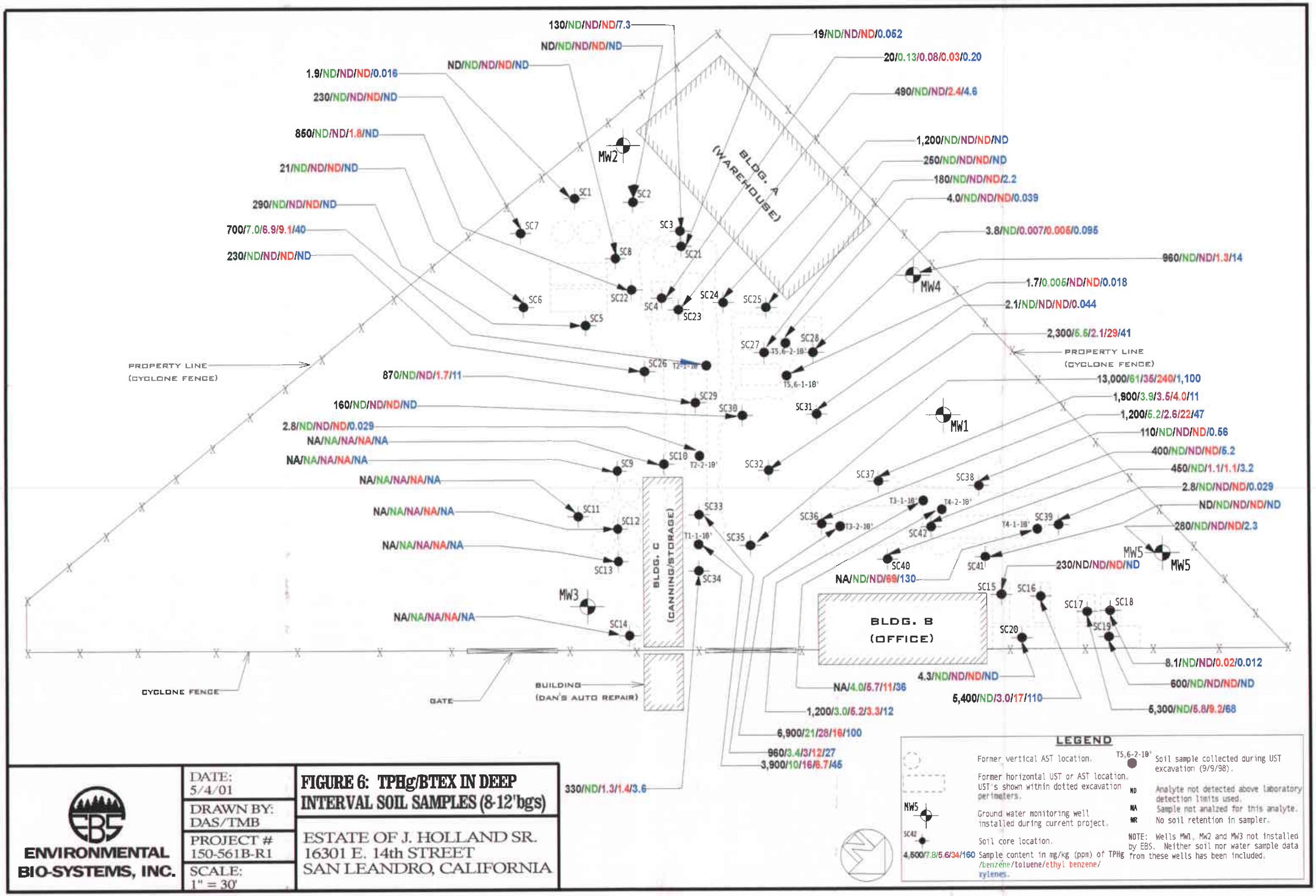


ENVIRONMENTAL BIO-SYSTEMS, INC.

DATE: 5/4/01
DRAWN BY: DAS/TMB
PROJECT # 150-561B-R1
SCALE: 1" = 30'

FIGURE 5: TPHg/BTEX IN MID-DEPTH INTERVAL SOIL SAMPLES (5' bgs)

ESTATE OF J. HOLLAND SR.
16301 E. 14th STREET
SAN LEANDRO, CALIFORNIA



ENVIRONMENTAL BIO-SYSTEMS, INC.

DATE:	5/4/01
DRAWN BY:	DAS/TMB
PROJECT #	150-561B-R1
SCALE:	1" = 30'

FIGURE 6: TPHg/BTEX IN DEEP INTERVAL SOIL SAMPLES (8-12'bgs)

ESTATE OF J. HOLLAND SR.
16301 E. 14th STREET
SAN LEANDRO, CALIFORNIA

ND/ND/ND
79/ND/ND
390/ND/ND
190/ND/ND
33/ND/ND
2,000/ND/ND
6,000/ND/ND
1,300/ND/ND
6,000/ND/ND
28/ND/ND
8,200/ND/ND
2,400/ND/ND
2,400/ND/ND
1,200/ND/ND
1,900/ND/ND
680/ND/ND
NOT SAMPLED AT THIS DEPTH
7.2/ND/ND
PROPERTY LINE (CYCLONE FENCE)
2,300/ND/ND
130/ND/ND
80/ND/ND
110/ND/ND
ND/ND/ND
50/ND/ND
ND/ND/ND
ND/ND/ND
ND/ND/ND
NOT SAMPLED AT THIS DEPTH
1,800/ND/ND
980/ND/ND
NA/NA/NA
NA/NA/NA
NA/NA/NA
NA/NA/NA
NA/NA/NA
NA/NA/NA
ND/ND/ND
220/ND/ND
ND/ND/3,400
ND/ND/ND
ND/ND/1,900
ND/ND/ND
270/ND/ND
PROPERTY LINE (CYCLONE FENCE)
MW1
MW2
MW3
MW4
MW5
SC1
SC2
SC3
SC4
SC5
SC6
SC7
SC8
SC9
SC10
SC11
SC12
SC13
SC14
SC15
SC16
SC17
SC18
SC19
SC20
SC21
SC22
SC23
SC24
SC25
SC26
SC27
SC28
SC29
SC30
SC31
SC32
SC33
SC34
SC35
SC36
SC37
SC38
SC39
SC40
SC41
SC42
BLDG. A (WAREHOUSE)
BLDG. B (OFFICE)
BLDG. C (CANNING/STORAGE)
CYCLONE FENCE
GATE
GATE
BUILDING (DAN'S AUTO REPAIR)

LEGEND

- Former vertical AST location.
- Former horizontal UST or AST location. UST's shown within dotted excavation perimeters.
- MW5 — Ground water monitoring well installed during current project.
- SC42 — Soil core location.
- 8,400/ND/ND — Sample content in mg/kg (ppm) of TPHd /TPHk /TPHss.

ND — Analyte not detected above laboratory detection limits used.
NA — Sample not analzed for this analyte.
NR — No soil retention in sampler.

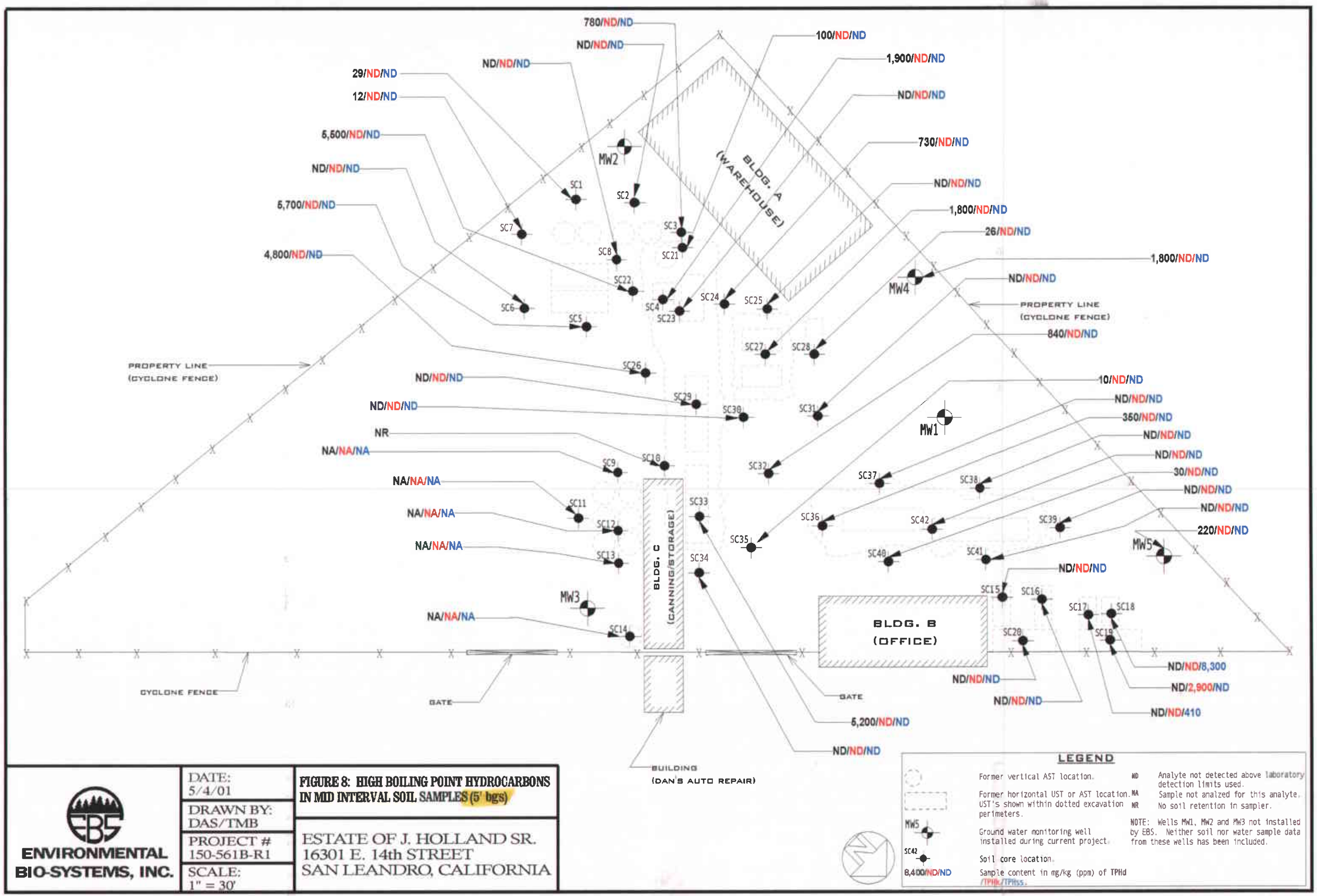
NOTE: Wells MW1, MW2 and MW3 not installed by EBS. Neither soil nor water sample data from these wells has been included.

ENVIRONMENTAL BIO-SYSTEMS, INC.

DATE: 5/4/01
DRAWN BY: DAS/TMB
PROJECT # 150-561B-R1
SCALE: 1" = 30'

FIGURE 7: HIGH BOILING POINT HYDROCARBONS IN SHALLOW INTERVAL SOIL SAMPLES (2' bgs)

ESTATE OF J. HOLLAND SR.
16301 E. 14th STREET
SAN LEANDRO, CALIFORNIA



ENVIRONMENTAL BIO-SYSTEMS, INC.

DATE: 5/4/01

DRAWN BY: DAS/TMB

PROJECT # 150-561B-R1

SCALE: 1" = 30'

FIGURE 8: HIGH BOILING POINT HYDROCARBONS IN MID INTERVAL SOIL SAMPLES (5' bgs)

ESTATE OF J. HOLLAND SR.
16301 E. 14th STREET
SAN LEANDRO, CALIFORNIA

ND/610/ND
ND/ND/ND
ND/ND/ND
61/ND/ND
500/ND/ND
6,200/ND/ND
28/ND/ND
1,300/ND/ND
610/ND/ND
100/ND/ND
ND/ND/ND
1,400/ND/ND
8,400/ND/ND
770/ND/ND
150/ND/ND
80/NA/NA
24/ND/ND
2,300/ND/ND
ND/NA/NA
6.2/ND/ND
3,900/ND/ND
7,400/ND/ND
3,400/ND/ND
1,000/ND/ND
230/ND/ND
760/ND/ND
620/ND/ND
8.4/ND/ND
ND/ND/ND
230/ND/ND
310/ND/ND
NA/NA/9,600
ND/ND/4,300
460/NA/NA
390/ND/ND
370/ND/ND
1,100/NA/NA
360/ND/ND
3,200/ND/ND
2,300/ND/ND
200/ND/ND
2,600/NA/NA
NA/NA/NA
NA/NA/NA
NA/NA/NA
NA/NA/NA
NA/NA/NA
NA/NA/NA
42/ND/ND
ND/ND/6,600
ND/ND/ND
ND/1,600/ND
ND/ND/5,500

MW1
MW2
MW3
MW4
MW5

SC1 SC2 SC3 SC4 SC5 SC6 SC7 SC8 SC9 SC10 SC11 SC12 SC13 SC14 SC15 SC16 SC17 SC18 SC19 SC20 SC21 SC22 SC23 SC24 SC25 SC26 SC27 SC28 SC29 SC30 SC31 SC32 SC33 SC34 SC35 SC36 SC37 SC38 SC39 SC40 SC41 SC42

T1-10' T2-1-10' T2-2-10' T3-1-10' T3-2-10' T4-1-10' T4-2-10' T5,6-1-10' T5,6-2-10'

BLDG. A (WAREHOUSE)
BLDG. B (OFFICE)
BLDG. C (CANNING/STORAGE)
BUILDING (DAN'S AUTO REPAIR)

PROPERTY LINE (CYCLONE FENCE)
PROPERTY LINE (CYCLONE FENCE)
CYCLONE FENCE
GATE

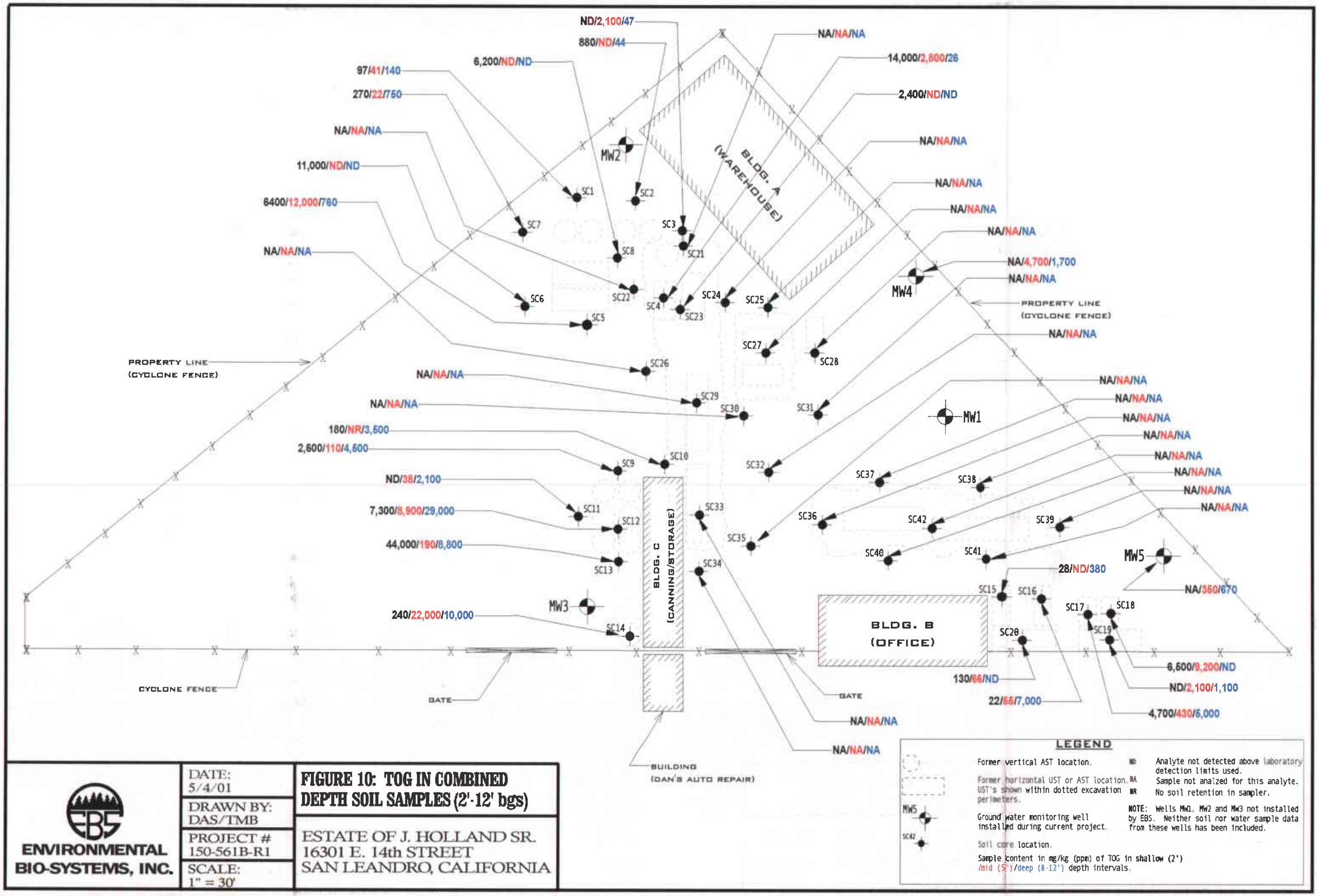
LEGEND

- Former vertical AST location.
- Former horizontal UST or AST location. UST's shown within dotted excavation perimeters.
- MW5 — Ground water monitoring well installed during current project.
- SC42 — Soil core location.
- 8,400/ND/ND — Sample content in mg/kg (ppm) of TPHd /TPHk/TPHss.
- T5,6-2-10' — Soil sample collected during UST excavation (9/9/98).
- ND — Analyte not detected above laboratory detection limits used.
- NA — Sample not analyzed for this analyte.
- NR — No soil retention in sampler.

NOTE: Wells MW1, MW2 and MW3 not installed by EBS. Neither soil nor water sample data from these wells has been included.

ENVIRONMENTAL BIO-SYSTEMS, INC.

DATE: 5/4/01	**FIGURE 9: HIGH BOILING POINT HYDROCARBONS IN DEEP INTERVAL SOIL SAMPLES (8-12' bgs)**
DRAWN BY: DAS/TMB	
PROJECT # 150-561B-R1	ESTATE OF J. HOLLAND SR. 16301 E. 14th STREET SAN LEANDRO, CALIFORNIA
SCALE: 1" = 30'	



ENVIRONMENTAL BIO-SYSTEMS, INC.

DATE: 5/4/01

DRAWN BY: DAS/TMB

PROJECT # 150-561B-R1

SCALE: 1" = 30'

FIGURE 10: TOG IN COMBINED DEPTH SOIL SAMPLES (2'-12' bgs)

ESTATE OF J. HOLLAND SR.
16301 E. 14th STREET
SAN LEANDRO, CALIFORNIA

ENVIRONMENTAL BIO-SYSTEMS, INC.	DATE: 5/4/01	**FIGURE 11: ISOCONCENTRATION MAP- TPHg IN 2' SOIL**
	DRAWN BY: DAS/TMB	ESTATE OF J. HOLLAND SR. 16301 E. 14th STREET SAN LEANDRO, CALIFORNIA
	PROJECT # 150-561B-R1	
	SCALE: 1" = 30'	

LEGEND

- Former vertical AST location.
- Former horizontal UST or AST location. USTs shown withing dotted excavation perimeters.
- MW5 — Ground water monitoring well.
- SC42 — Soil core location.
- SC42 — Soil sample from soil core located within previously excavated material.
- 7,200 — Sample content in mg/kg (ppm).
- ND — Analyte not detected above laboratory detection limits used.
- NA — Sample not analzed for this analyte.
- NR — No soil retention in sampler.
- 1,000 — Isoconcentration contour line in mg/kg (ppm).

NOTES:
*Wells MW1, MW2, MW3 not installed by EBS; sample data from these wells has been excluded.
*Data from cores SC21, SC23, SC24, SC27, SC29, and SC33 at this depth represent previously excavated material and were omitted in developing these isoconcentration contours.

LEGEND

- Former vertical AST location. 7,200 — Sample content in mg/kg (ppm).
- Former horizontal UST or AST location. USTs shown withing dotted excavation perimeters. ND — Analyte not detected above laboratory detection limits used.
- NA — Sample not analzed for this analyte.
- NR — No soil retention in sampler.
- MW5 — Ground water monitoring well.
- 1,000 — Isoconcentration contour line in mg/kg (ppm).
- SC42 — Soil core location.
- SC42 — Soil sample from soil core located within previously excavated material.

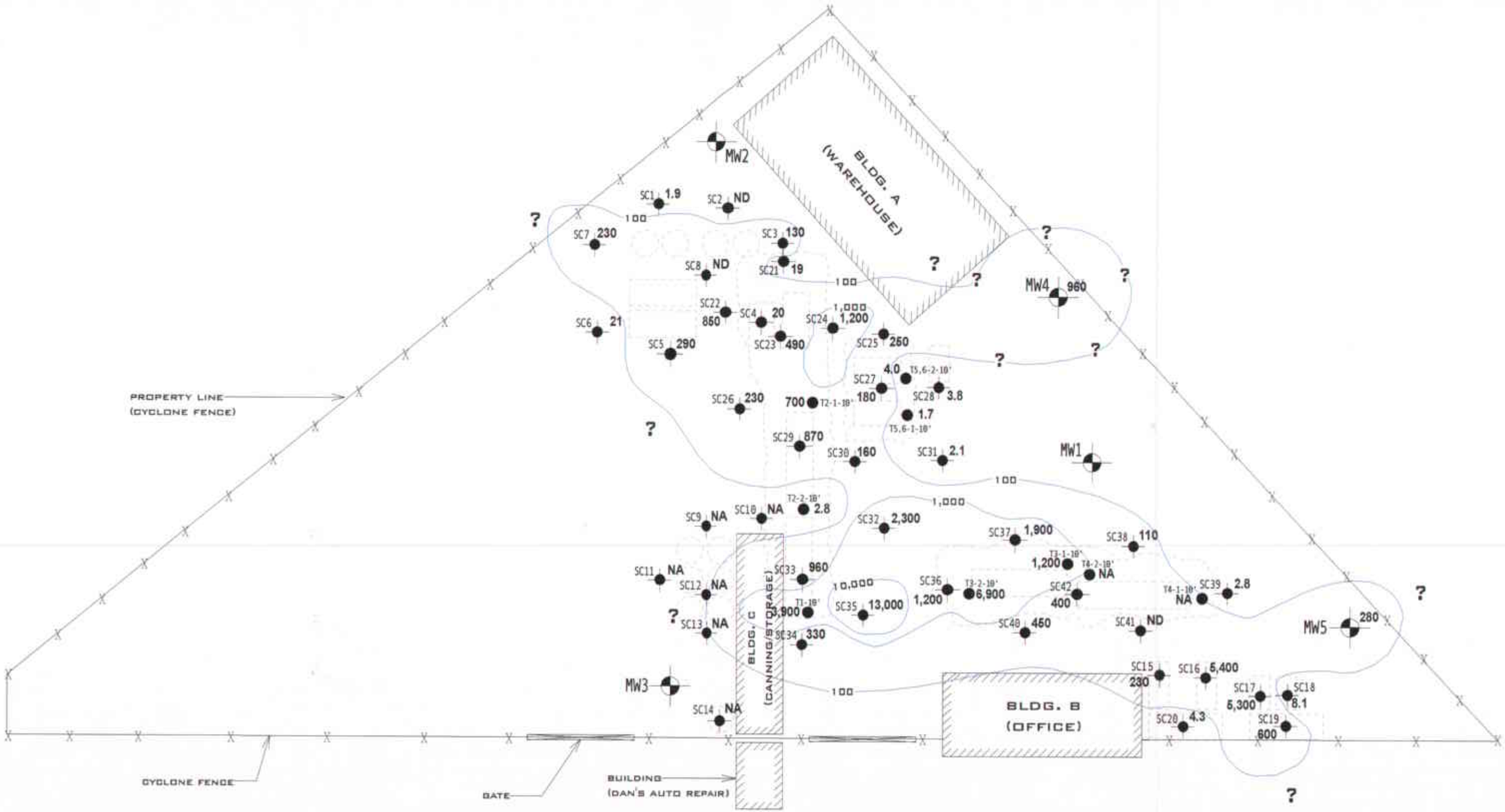
NOTES:
*Wells MW1, MW2, MW3 not installed by EBS; sample data from these wells has been excluded.
*Data from cores SC21, SC23, SC24, SC27, SC29, and SC33 at this depth represent previously excavated material and were omitted in developing these isoconcentration contours.

ENVIRONMENTAL BIO-SYSTEMS, INC.

DATE: 5/4/01
DRAWN BY: DAS/TMB
PROJECT # 150-561B-R1
SCALE: 1" = 30'

FIGURE 12: ISOCONCENTRATION MAP- TPHg IN 5' SOIL

ESTATE OF J. HOLLAND SR.
16301 E. 14th STREET
SAN LEANDRO, CALIFORNIA

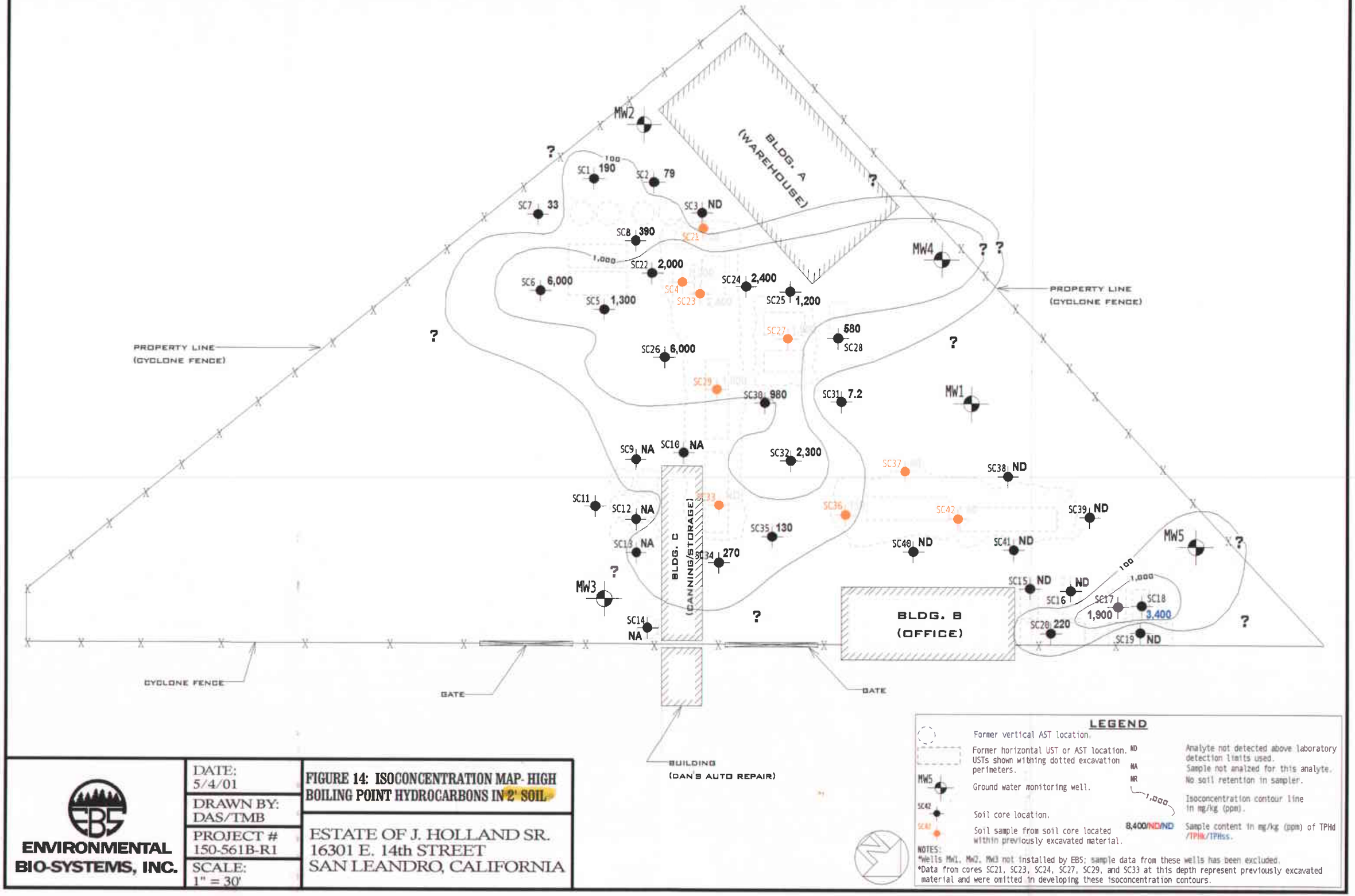


ENVIRONMENTAL BIO-SYSTEMS, INC.	DATE: 5/4/01	**FIGURE 13: ISOCONCENTRATION MAP- TPHg IN 8-12' SOIL**
	DRAWN BY: DAS/TMB	
	PROJECT # 150-561B-R1	ESTATE OF J. HOLLAND SR. 16301 E. 14th STREET SAN LEANDRO, CALIFORNIA
	SCALE: 1" = 30'	

LEGEND

- Former vertical AST location.
- Former horizontal UST or AST location. UST's shown within dotted excavation perimeters.
- MW5 — Ground water monitoring well installed during current project.
- SC42 — Soil core location.
- 6,900 — Sample content in mg/kg (ppm).
- T5,6-2-10' — Soil sample collected during UST excavation (9/9/98).
- ND — Analyte not detected above laboratory detection limits used.
- NA — Sample not analyzed for this analyte.
- NR — No soil retention in sampler.
- 1,000 — Isoconcentration contour line in mg/kg (ppm).

NOTE: Wells MW1, MW2 and MW3 not installed by EBS. Neither soil nor water sample data from these wells has been included.



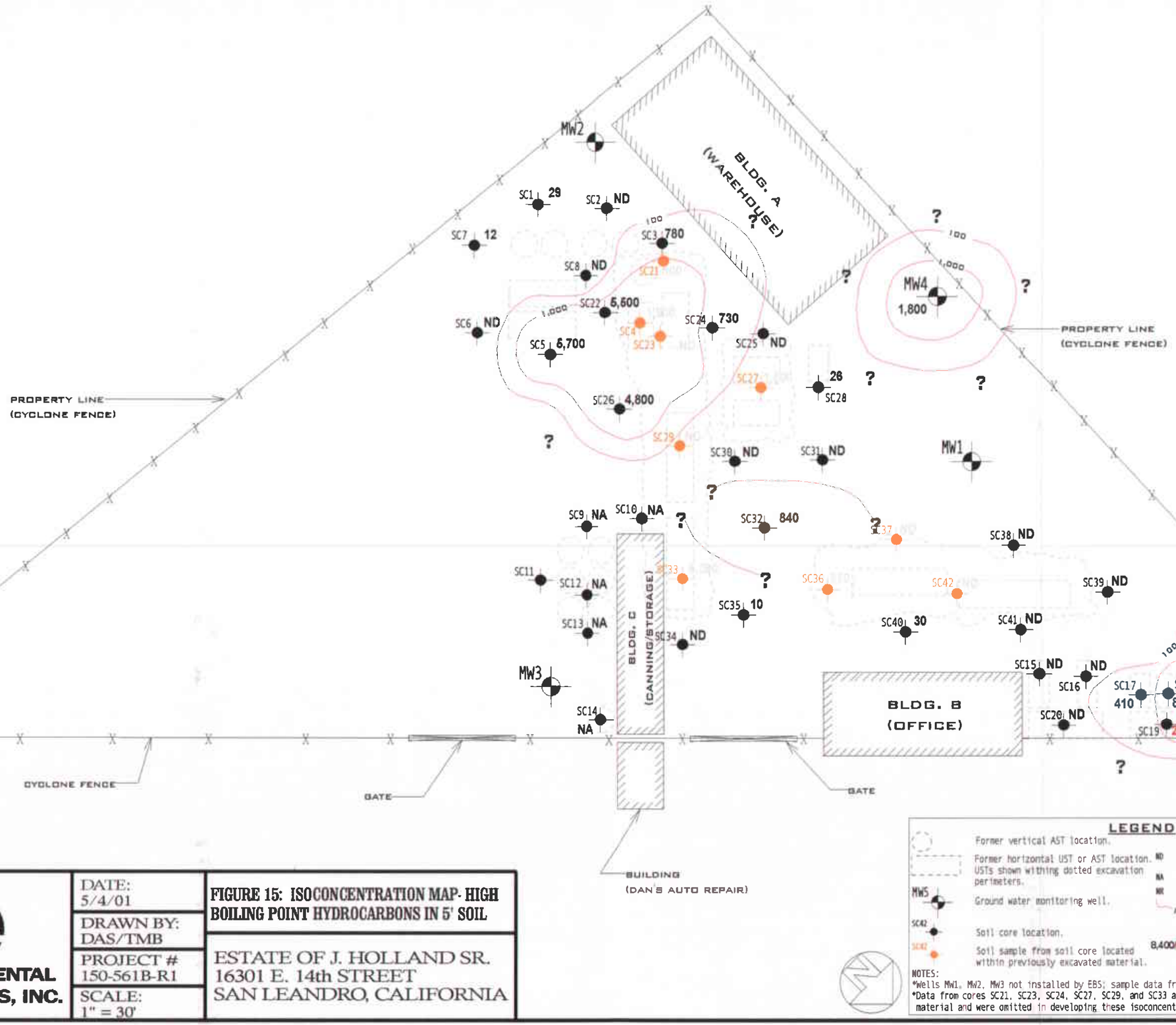
LEGEND

- Former vertical AST location.
- Former horizontal UST or AST location. USTs shown within dotted excavation perimeters.
- MW5 — Ground water monitoring well.
- SC42 — Soil core location.
- SC42 — Soil sample from soil core located within previously excavated material.
- ND — Analyte not detected above laboratory detection limits used.
- NA — Sample not analzed for this analyte.
- NR — No soil retention in sampler.
- 1,000 — Isoconcentration contour line in mg/kg (ppm).
- 8,400/ND/ND — Sample content in mg/kg (ppm) of TPHd /TPHk/TPHss.

NOTES:
*Wells MW1, MW2, MW3 not installed by EBS; sample data from these wells has been excluded.
*Data from cores SC21, SC23, SC24, SC27, SC29, and SC33 at this depth represent previously excavated material and were omitted in developing these isoconcentration contours.

ENVIRONMENTAL BIO-SYSTEMS, INC.

DATE: 5/4/01	FIGURE 14: ISOCONCENTRATION MAP- HIGH BOILING POINT HYDROCARBONS IN 2' SOIL
DRAWN BY: DAS/TMB	
PROJECT # 150-561B-R1	ESTATE OF J. HOLLAND SR. 16301 E. 14th STREET SAN LEANDRO, CALIFORNIA
SCALE: 1" = 30'	



LEGEND

- Former vertical AST location.
- Former horizontal UST or AST location. USTs shown withing dotted excavation perimeters.
- MW5 — Ground water monitoring well.
- SC42 — Soil core location.
- SC42 — Soil sample from soil core located within previously excavated material.
- ND — Analyte not detected above laboratory detection limits used.
- NA — Sample not analzed for this analyte.
- NR — No soil retention in sampler.
- 1,000 — Isoconcentration contour line in mg/kg (ppm).
- 8,400/ND/ND — Sample content in mg/kg (ppm) of TPHd /TPHk/TPHss.

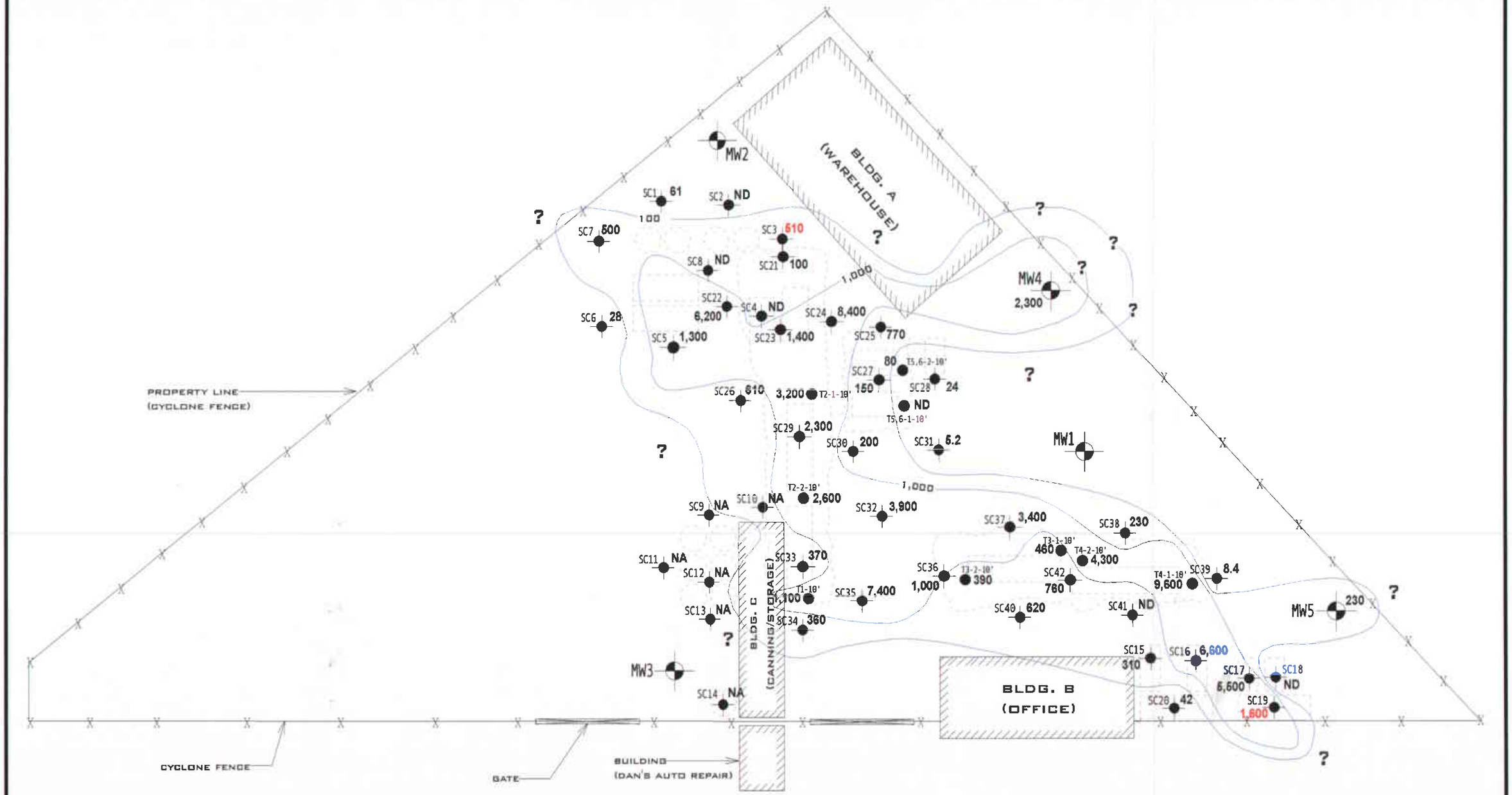
NOTES:
*Wells MW1, MW2, MW3 not installed by EBS; sample data from these wells has been excluded.
*Data from cores SC21, SC23, SC24, SC27, SC29, and SC33 at this depth represent previously excavated material and were omitted in developing these isoconcentration contours.

ENVIRONMENTAL BIO-SYSTEMS, INC.

DATE: 5/4/01
DRAWN BY: DAS/TMB
PROJECT # 150-561B-R1
SCALE: 1" = 30'

FIGURE 15: ISOCONCENTRATION MAP- HIGH BOILING POINT HYDROCARBONS IN 5' SOIL

ESTATE OF J. HOLLAND SR.
16301 E. 14th STREET
SAN LEANDRO, CALIFORNIA

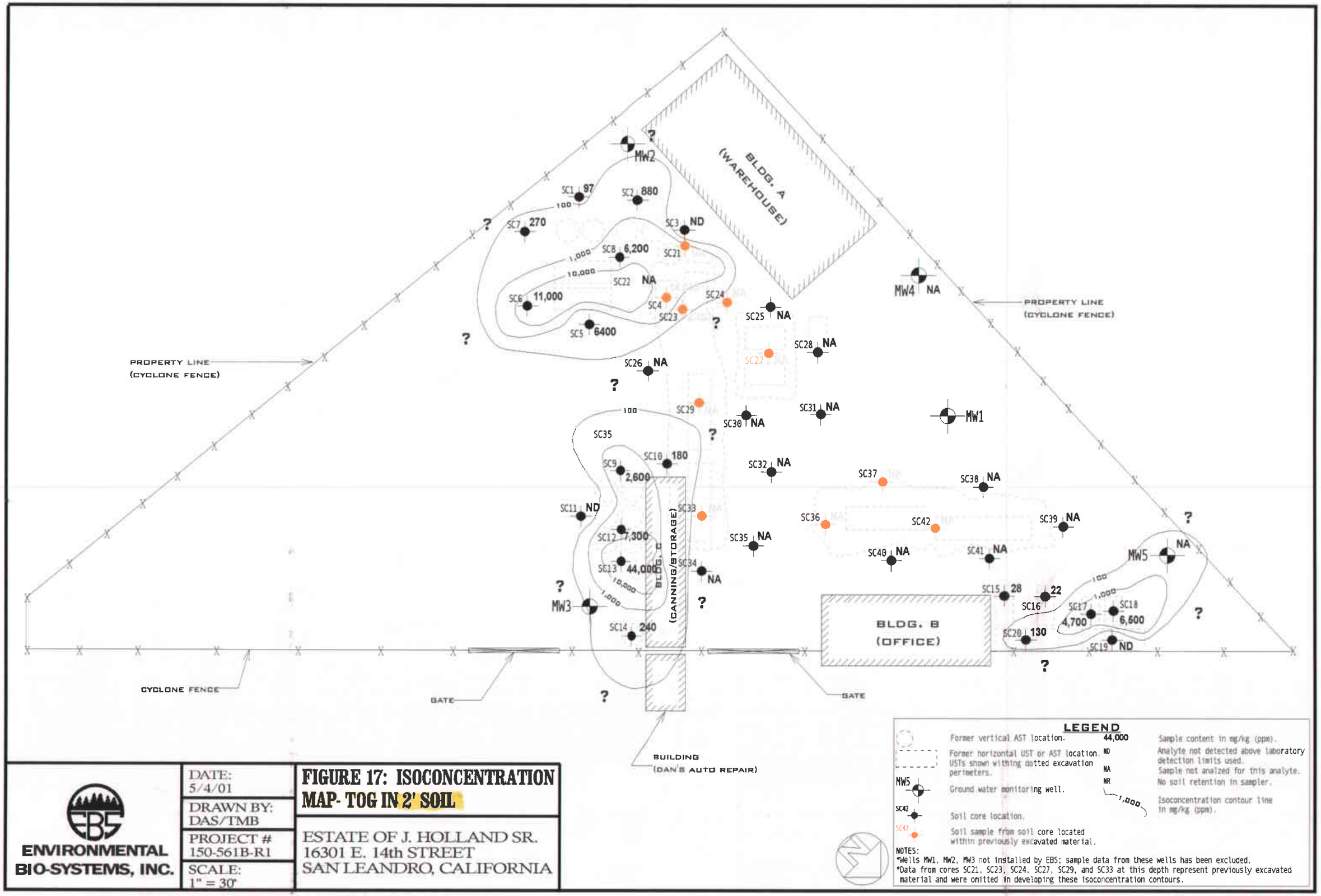


ENVIRONMENTAL BIO-SYSTEMS, INC.	DATE: 5/4/01	**FIGURE 16: ISOCONCENTRATION MAP- HIGH BOILING HYDROCARBONS IN 8-12' SOIL**
	DRAWN BY: DAS/TMB	
	PROJECT # 150-561B-R1	ESTATE OF J. HOLLAND SR. 16301 E. 14th STREET SAN LEANDRO, CALIFORNIA
	SCALE: 1" = 30'	

LEGEND

- Former vertical AST location.
- Former horizontal UST or AST location. UST's shown within dotted excavation perimeters.
- MW5 — Ground water monitoring well installed during current project.
- SC42 — Soil core location.
- 9,600 — Sample conteht in mg/kg (ppm).
- T5,6-2-10' — Soil sample collected during UST excavation (9/9/98).
- ND — Analyte not detected above laboratory detection limits used.
- NA — Sample not analzed for this analyte.
- NR — No soil retention in sampler.
- 1,000 — Isoconcentration contour line in mg/kg (ppm).

NOTE: Wells MW1, MW2 and MW3 not installed by EBS. Neither soil nor water sample data from these wells has been included.



LEGEND

- Former vertical AST location.
- Former horizontal UST or AST location. USTs shown withing dotted excavation perimeters.
- MW5 — Ground water monitoring well.
- SC42 — Soil core location.
- SC42 — Soil sample from soil core located within previously excavated material.
- 44,000 — Sample content in mg/kg (ppm).
- ND — Analyte not detected above laboratory detection limits used.
- NA — Sample not analyzed for this analyte.
- NR — No soil retention in sampler.
- 1,000 — Isoconcentration contour line in mg/kg (ppm).

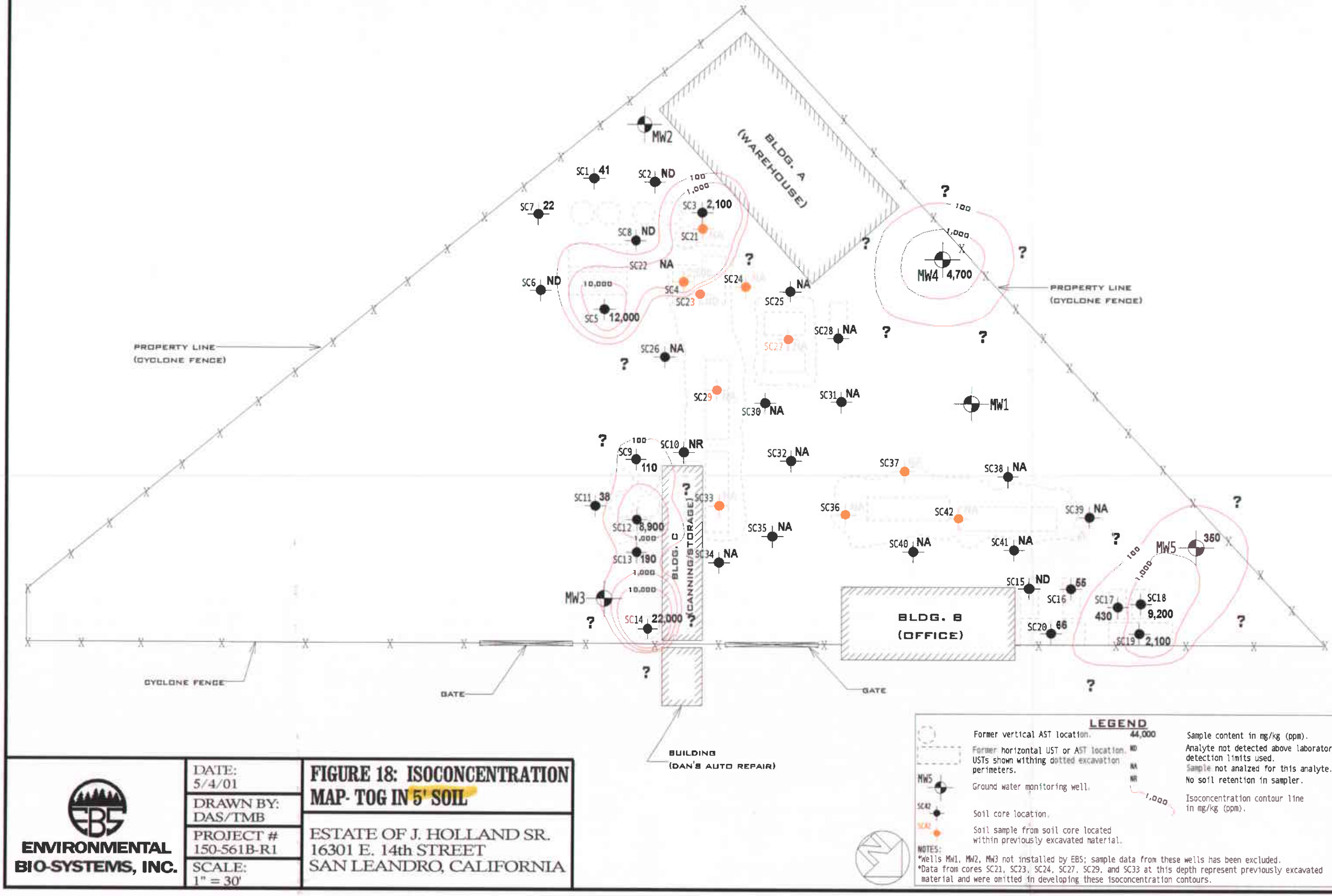
NOTES:
*Wells MW1, MW2, MW3 not installed by EBS; sample data from these wells has been excluded.
*Data from cores SC21, SC23, SC24, SC27, SC29, and SC33 at this depth represent previously excavated material and were omitted in developing these isoconcentration contours.

ENVIRONMENTAL BIO-SYSTEMS, INC.

DATE: 5/4/01
DRAWN BY: DAS/TMB
PROJECT # 150-561B-R1
SCALE: 1" = 30'

FIGURE 17: ISOCONCENTRATION MAP- TOG IN 2' SOIL

ESTATE OF J. HOLLAND SR.
16301 E. 14th STREET
SAN LEANDRO, CALIFORNIA



LEGEND

- Former vertical AST location.
- Former horizontal UST or AST location. USTs shown withing dotted excavation perimeters.
- MW5 — Ground water monitoring well.
- SC42 — Soil core location.
- SC42 — Soil sample from soil core located within previously excavated material.
- 44,000 — Sample content in mg/kg (ppm).
- ND — Analyte not detected above laboratory detection limits used.
- NA — Sample not analzed for this analyte.
- NR — No soil retention in sampler.
- 1,000 — Isoconcentration contour line in mg/kg (ppm).

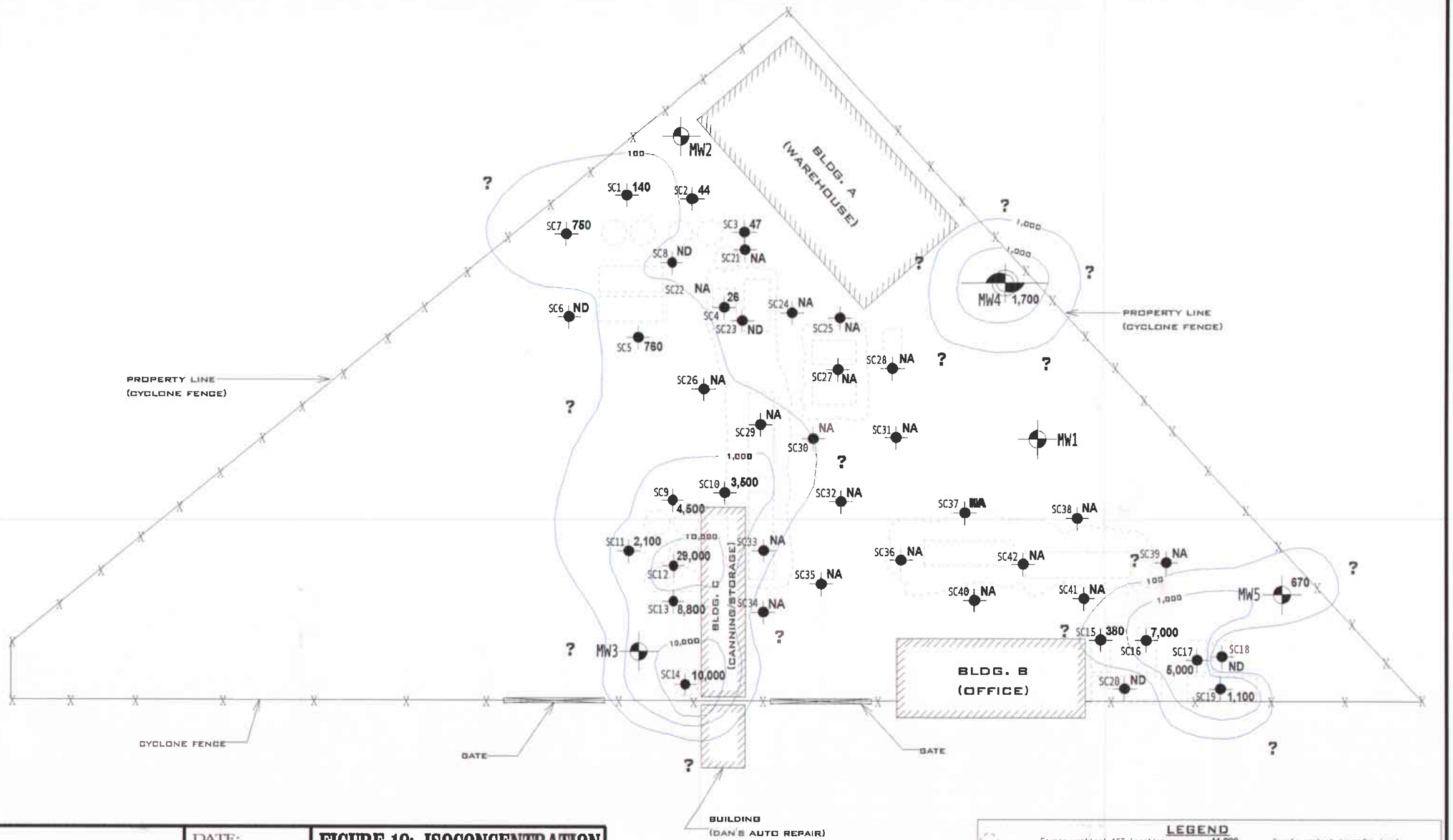
NOTES:
*Wells MW1, MW2, MW3 not installed by EBS; sample data from these wells has been excluded.
*Data from cores SC21, SC23, SC24, SC27, SC29, and SC33 at this depth represent previously excavated material and were omitted in developing these isoconcentration contours.

ENVIRONMENTAL BIO-SYSTEMS, INC.

DATE: 5/4/01
DRAWN BY: DAS/TMB
PROJECT # 150-561B-R1
SCALE: 1" = 30'

FIGURE 18: ISOCONCENTRATION MAP- TOG IN 5' SOIL

ESTATE OF J. HOLLAND SR.
16301 E. 14th STREET
SAN LEANDRO, CALIFORNIA

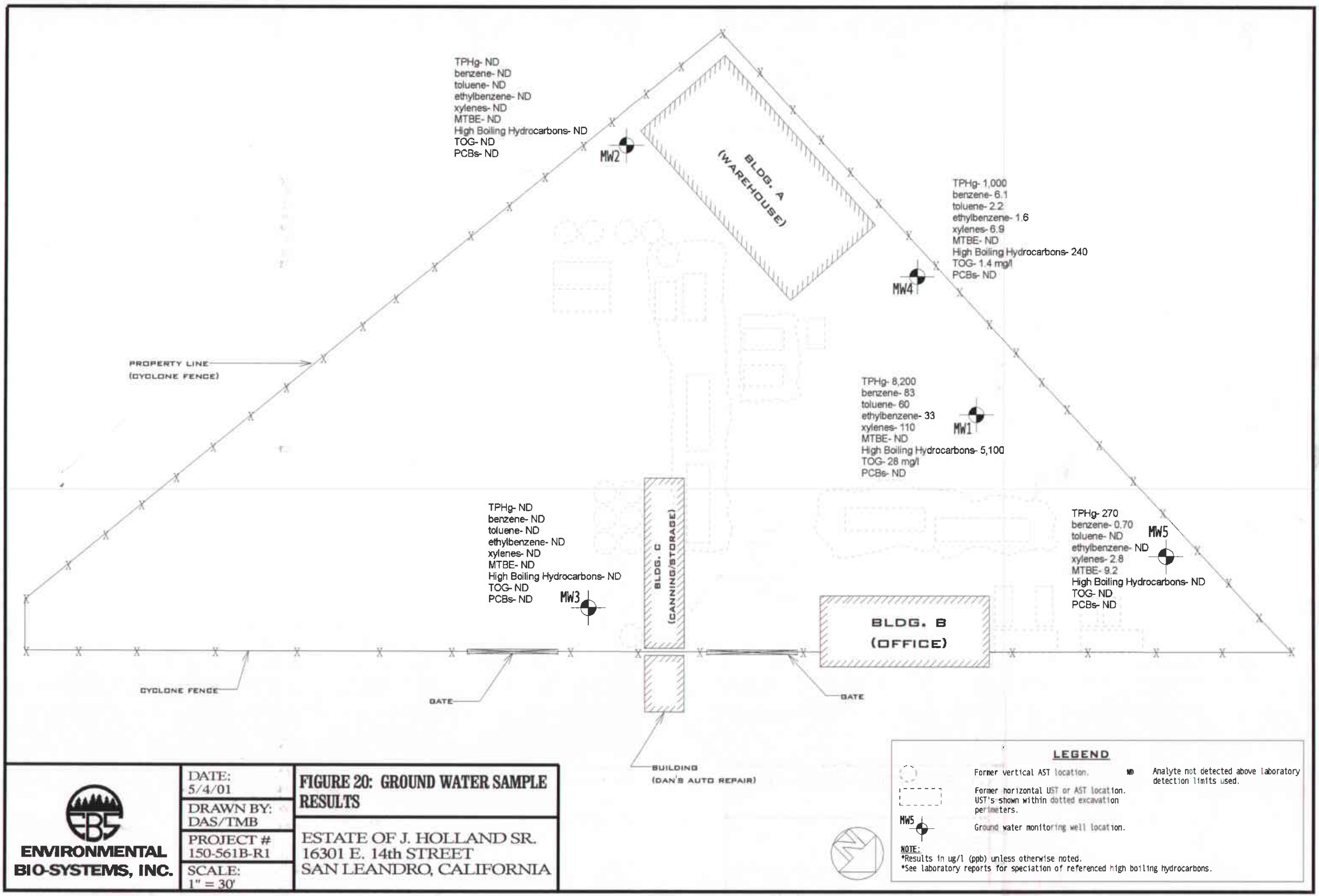


ENVIRONMENTAL BIO-SYSTEMS, INC.	DATE: 5/4/01	**FIGURE 19: ISOCONCENTRATION MAP- TOG IN 8-12' SOIL**
	DRAWN BY: DAS/TMB	
	PROJECT # 150-561B-R1	ESTATE OF J. HOLLAND SR. 16301 E. 14th STREET SAN LEANDRO, CALIFORNIA
	SCALE: 1" = 30'	

LEGEND

- Former vertical AST location. 44,000 — Sample content in mg/kg (ppm).
- Former horizontal UST or AST location. USTs shown within dotted excavation perimeters. ND — Analyte not detected above laboratory detection limits used.
- NA — Sample not analized for this analyte.
- NR — No soil retention in sampler.
- MW5 — Ground water monitoring well.
- 1,000 — Isoconcentration contour line in mg/kg (ppm).
- SC42 — Soil core location.

NOTES:
*Wells MW1, MW2, MW3 not installed by EBS; sample data from these wells has been excluded.



ENVIRONMENTAL BIO-SYSTEMS, INC.

DATE: 5/4/01	**FIGURE 20: GROUND WATER SAMPLE RESULTS**
DRAWN BY: DAS/TMB	
PROJECT # 150-561B-R1	ESTATE OF J. HOLLAND SR. 16301 E. 14th STREET SAN LEANDRO, CALIFORNIA
SCALE: 1" = 30'	

LITTLE LEAGUE FIELD

EDENDALE SCHOOL

MW2
29.46'

BLDG. A
(WAREHOUSE)

MW4
28.88'

UNPAVED

PROPERTY LINE
(CYCLONE FENCE)

29.50'

Ground Water Flow Direction

29.00'

MW1
28.83'

PROPERTY LINE
(CYCLONE FENCE)

28.50'

Gradient of 0.007 ft/ft.
Measured on 02/08/01.

MW5
28.45'

UNPAVED

MW3
29.74'

BLDG. C
(CANNING/STORAGE)

BLDG. B
(OFFICE)

PROPERTY
LINE

CYCLONE FENCE

GATE

GATE

PROPERTY LINE

BUILDING
(DAN'S AUTO REPAIR)

USED CAR LOT

USED CAR LOT

E. 14TH STREET

ENVIRONMENTAL
BIO-SYSTEMS, INC.

DATE: 5/4/01	**FIGURE 21: GROUND WATER POTENTIOMETRIC MAP**
DRAWN BY: DAS/TMB	
PROJECT # 150-561B-R1	ESTATE OF J. HOLLAND SR. 16301 E. 14th STREET SAN LEANDRO, CALIFORNIA
SCALE: AS SHOWN	

SCALE (feet)

10 50 200

0 25 100

LEGEND

- Former vertical AST location.
- Former horizontal UST or AST location. USTs shown withing dotted excavation perimeters.
- MW5 28.45' — Ground water monitoring well with elevation above mean seal level.
- 29.00' — Line of equipotential ground water elevation.

APPENDIX B:

WORK PLAN

WORK PLAN:
SUBSURFACE EXPLORATION
Project #150-540B

Jack Holland Sr. Oil Company
16301 E. 14th Street
San Leandro, California

PREPARED BY ENVIRONMENTAL BIO-SYSTEMS, INC.
FOR
ESTATE OF JACK HOLLAND SR.

Dave A. Sadoff
Project Geologist, California R.G. No. 6264

18 November 1999

TABLE OF CONTENTS

APPENDIX

1. INTRODUCTION

Environmental Bio-Systems, Inc. (EBS) has been retained by the Estate of Jack M. Holland, Senior (the Client) to prepare this work plan for subsurface exploration activities at former Jack Holland Oil Company, located at 16301 E. 14th Street in San Leandro, California (the Site). A site location map and site maps are included as Figures 1, 2 and 3 in Appendix A.

The site is currently owned by the Client and Ms. Barbara Holland. The principal project contacts are:

Client: Ms. Ann Marie Holland, executor of the Jack M. Holland, Sr. estate, 1498 Hamrick Lane, Hayward, CA, (510) 782-4307.

Consultant: Mr. Dave A. Sadoff, Project Manager, Environmental Bio-Systems, Inc., P.O. Box 7171, San Jose, CA 95150-7171, (408) 979-8600.

The scope of work described in this work plan is intended to evaluate the extent of petroleum hydrocarbon and stoddard solvent impact to site soil and ground water caused by unauthorized releases associated with prior bulk fuel distribution carried out at the Site. Preparation of this work plan has been mandated by the Alameda County Health Care Services Agency (ACHCSA), as expressed in their letter to the Client dated 15 March 1999.

EBS will begin the scope of work described in this document upon contract acceptance by the Client. Field work will not begin until the work plan has been approved by the ACHCSA .

2. PREVIOUS ENVIRONMENTAL WORK

1990

Crosby and Overton, Inc. (C&O) drilled and sampled five exploratory soil borings near the two diesel USTs. Soil samples collected from the borings were found to contain up to 25,000 milligrams per kilogram (mg/kg) total petroleum hydrocarbons as diesel (TPHd). An unauthorized fuel release form was filed with the ACHCSA. Ground water was first encountered at approximately 15 feet below ground surface (bgs).

February 1996

Compliance & Closure, Inc. (CCI) directed the locating of eight USTs at the Site. CCI reportedly located three gasoline, two kerosene, two diesel, and one stoddard solvent UST.

April 1996

CCI installed and sampled three ground water monitoring wells. Soils encountered during drilling activities were described as silty clay, thin beds of silty sand and sand to 18 feet bgs.

Soil samples collected during well drilling of the wells reportedly contained up to 4,400 mg/kg total petroleum hydrocarbons as gasoline (TPHg) and 8,200 TPHd. These soil samples were also found to contain up to 0.024 mg/kg 1,4-dichlorobenzene and 0.4 mg/kg methylene chloride.

Ground water samples collected from the wells were found to contain up to 33,000 micrograms per liter (µg/L) TPHg,; up to 12 µg/L benzene, 83 µg/L toluene, 22 µg/L ethylbenzene, and 160 µg/L xylenes (BTEX, respectively); up to 9,700 µg/L TPHd,; up to 41,000 µg/L total recoverable petroleum hydrocarbons (TRPH); and up to 3.1 µg/L 1,2-dichlorobenzene.

July 1996
CCI conducted quarterly monitoring of the ground water wells. Ground water samples were found to contain up to 1,400 µg/L TPHg; 17, 5.6, 7.6 and 32 µg/L BTEX components, respectively; and 4,600 µg/L TPHd.

October 1996
CCI conducted quarterly monitoring of the ground water wells. Ground water samples were found to contain up to 7,300 µg/L TPHg; 16, 8.9, 20 and 15 µg/L BTEX components, respectively; and 14,000 µg/L TPHd.

January 1997
CCI conducted quarterly monitoring of the ground water wells. Ground water samples were found to contain up to 2,600 µg/L TPHg; 6.4 µg/L benzene; 44 µg/L toluene; and 2,800 µg/L TPHd.

April 1997
CCI conducted quarterly monitoring of the ground water wells. Ground water samples were found to contain up to 2,700 µg/L TPHg; 16, 8, 10 and 25 µg/L BTEX components, respectively; and 500 µg/L TPHd.

August/September 1998
EBS directed Site mitigation activities. The contents of 143 55-gallon steel drums and approximately 60 smaller containers were inventoried and removed from the site via vacuum truck. Approximately 4,636 total gallons of oily water were transported to Evergreen's Newark, California facility for recycling. Approximately 650 gallons of oily water contaminated with halogenated constituents were disposed at the Solvent Service facility in San Jose, California. Two 55-gallon drums containing approximately 100 total gallons of oily water contaminated with PCBs were placed into 85-gallon overpack drums and were transported to Safety Kleen's Aragonite, Utah facility for incineration. One 55-gallon drum containing approximately 50 gallons of sodium hypochlorite was placed into an 85-gallon poly overpack drum and transported to Crosby and Overton's Long Beach, California facility for disposal. All evacuated 55-gallon drums were crushed, placed into a roll-off bin, and transported to Forward's Stockton, California facility for disposal. All of the smaller containers and miscellaneous debris encountered during the progression of the project were placed into a second roll-off bin staged on-site. The contents of this bin have been classified as a California hazardous waste due to lead content and the failure of aquatic bio-assay test. This bin remains on-site pending final disposition.

Approximately 2,690 gallons of liquid and sludge were removed from eight site underground storage tanks (USTs) via vacuum truck prior to UST removal. Approximately 5,200 gallons of liquid and sludge were removed from the site above ground storage tanks (ASTs) by vacuum truck prior to AST dismantling and removal. Twenty ASTs were demolished using an excavator-mounted shear. The demolished ASTs were loaded onto flatbed trucks and transported to Shnitzer Steel's Oakland, California facility for recycling.

Eight USTs were inerted, excavated, and transported on flatbed trucks to ECI's Richmond, California facility for recycling. Tanks T2 and T3 were observed to have large (up to 2" by 1") holes in their bottoms. Tank T1 was observed to be severely pitted. A sheen was noted on ground

water in each of the 5 tank pits. Slight to moderate petroleum odor and a typical greenish discoloration was observed in soils excavated from around the USTs.

A total of nine soil samples were collected from beneath USTs T1, T2, T3, T4, T5 and T6 at the air-ground water interface (approximately 10 feet bgs). Analyses of these samples revealed the presence of up to 6,900 mg/kg TPHg; up to 21, 28, 69, and 130 mg/kg BTEX, respectively; up to 3,200 mg/kg TPHd; up to 9,600 mg/kg total petroleum hydrocarbons calculated as stoddard solvent (TPHss); and up to 11 mg/kg Pb.

One four-point composite soil sample was collected from the stoddard solvent tank overburden. This sample was not found to contain reportable concentrations of TPHss or BTEX. One four-point composite soil sample was collected from the kerosene tank overburden. This sample was found to contain 5,200 mg/kg total petroleum hydrocarbons calculated as kerosene (TPHk). This sample was not found to contain reportable concentrations of BTEX.

Accumulated pit water samples were collected from connected tank pits T1 and T2, from T3, T4, connected pits T5 and T6, and from connected pits T7 and T8. Analyses of these samples revealed the presence of up to 78,000 µg/L TPHg; up to 1,500, 8,400, 1,900, and 14,000 µg/L BTEX, respectively; up to 1,600,000 µg/L TPHd; and 490,000 µg/L TPHss. Neither MTBE nor Pb was found in any of the water samples above the laboratory reporting limits.

Soil overburden was placed back into the pits with the concurrence of the ACHCSA. No engineered compaction was performed during backfilling activities.

3. FIELD PROCEDURES

The scope of work described in this work plan outlines the drilling of approximately 44 exploratory soil cores (to be designated SC1 through SC44), the installation of two additional ground water monitoring wells (to be designated MW4 and MW5), the collection and analysis of soil, vapor, and water samples, and the generation of a project report. All work will be performed by, or under, the direct supervision of a California Registered Geologist.

3.1. Health and Safety Plan

A site-specific health and safety plan will be produced prior to commencement of field work. This plan will include anticipated hazards, personal protective equipment requirements for site workers, and emergency procedures.

3.2. Soil Core Locations and Drilling Methods

Forty four soil cores will be advanced via direct push technology using a truck mounted Geoprobe (or similar) rig. The borings will be drilled at or near the locations depicted on Figures 2 and 3.

3.3. Subsurface Utility Locating

Underground service alert will be contacted at least 48 hours prior to planned commencement of field activities to locate member utilities on adjoining public property. A private utility locator will mark the surface expression of buried metallic objects using electromagnetic instruments near

proposed borehole locations. Any proposed boreholes found to lie near these markings will be relocated to the nearest accessible location greater than two feet from such markings.

3.4. Soil Sampling

Soil samples will be collected from 2, 5, and 10 feet below ground surface (bgs) from the cores in clear acetate sleeves housed within the push-probe. The sleeves will be visually inspected and cut to remove appropriate sampling intervals. Upon removal from the sampler, the ends of the cut sleeves will be sealed with Teflon™ sheets and tight fitting caps. Each sleeve section will be labeled with a unique designation for this project, placed into a reclosable plastic bag, and stored upon ice within an insulated cooler pending transportation to the laboratory. A chain of custody will be initiated in the field and will accompany all submitted samples to the laboratory.

3.5. Well Installation

Wells MW2 and MW3 will be drilled using hollow stem augers advanced by a truck mounted drilling rig at the locations depicted on Figure 2. Soil samples will be collected from 2, 5 and 10 feet bgs within these borings using a California modified split spoon samples. Sample tubes intended for submission to the laboratory will be sealed with tight fitting end caps. Each tube will be labeled with a unique designation for this project, placed into a reclosable plastic bag, and stored upon ice within an insulated cooler pending transportation to the laboratory. A chain of custody will be initiated in the field and will accompany all submitted samples to the laboratory.

3.5.1. Well Construction

Wells MW2 and MW3 will be constructed of 2 inch PVC screen and casing. The methods of construction used will be in accordance with the standards and guidelines of the California Department of Water Resources and the ACHCSA.

The wells will be constructed after advancing the augers to a depth of approximately 10 feet below first water encounter. The screened interval of the wells will be extended from this depth upward to approximately 4 feet above the depth at which water is encountered within the borings. Completion of the wells will include a filter pack of #2/12 or #3 sand to a depth of 1 foot above the tops of the screens, 1 foot bentonite clay spacers, Portland cement seal to grade, traffic boxes set in concrete, and locking well caps with water-tight seals.

3.5.2. Well Development

Wells MW4 and MW5 will be developed after allowing at least 72 hours to elapse following completion of the ground water monitoring well installation. The wells will be developed using alternate surging and bailing. They will be purged until free of sediment or until measured parameters of pH, temperature, and conductivity have been noted to have stabilized.

3.5.3. Well Sampling

Sampling of wells MW4 and MW5 will be performed subsequent to allowing a period of at least 48 hours for stabilization following development. Existing wells MW1, MW2 and MW3 will also be sampled at this time. A field log will be maintained by the sampling technician during purging and sampling. Observations of the presence or absence and/or thickness of free or emulsified product as well as the presence of sheen will be included on the sampling log. Other pertinent information

including well recharge rates, pH, temperature, conductivity, and physical conditions at the time of sampling will also be recorded.

A minimum of 4 casing volumes will be purged from the wells prior to collection of samples. When periodic measurements of pH, temperature, and conductivity are found to have stabilized, a water sample will be collected from the well using a new disposable bailer. No sample will be collected for laboratory analysis from wells exhibiting measurable free product.

Wells which fail to recharge sufficiently prior to the purging of at least 4 well casing volumes will be allowed to recover to 80% of their initial water level prior to sampling.

3.6. Well Survey

The top of casing and top of well box elevations of wells MW1 through MW5 will be surveyed subsequent to installation of MW4 and MW5. This survey will be conducted by a California Licensed Land Surveyor or Professional Engineer.

3.7. Drill Cuttings

All soil cuttings generated during drilling will be contained within Department of Transportation (DOT) approved 55-gallon drums. The labeled drums will be staged on-site pending analytical results.

3.8. Purge and Decontamination Water

All purge and decontamination water generated during this project will be contained within DOT approved 55-gallon drums. The drums will be profiled and then transported and disposed or recycled of at an approved facility.

3.9. Sample Analyses

All soil and ground water samples will be analyzed by Analytical Sciences, (AS) of Petaluma, California. AS is certified by the California environmental laboratory accreditation program (ELAP) for the requested analyses.

All soil samples submitted for laboratory analysis from Areas A, B and C.(see Figure 2 for area designations) will be analyzed for the following:

- Total Oil and Grease (TOG) using Standard Method 5520B, F.
- TPHd and TPHk using Environmental Protection Agency (EPA) Method 8015 (modified).
- TPHg using EPA Method 8015 (modified).
- BTEX and methyl t-butyl ether (MTBE) using EPA Method 8020. The sample exhibiting the highest level of MTBE will be confirmed using the EPA Method 8260.
- Polychlorinated biphenyls (PCBs, **2 feet bgs samples only**) using EPA Method 8080 (modified).

All samples from Areas D and E will be analyzed for the following:

- TPHd and TPHk using the Environmental Protection Agency (EPA) Method 8015 (modified). TPHg using EPA Method 8015 (modified).
- BTEX and MTBE using the EPA Method 8020. The sample exhibiting the highest level of MTBE will be confirmed using the EPA Method 8260.

All samples from Area E will be analyzed for the following:

- TPHd, TPHk, and total petroleum hydrocarbons as stoddard solvent (TPHss) using the Environmental Protection Agency (EPA) Method 8015 (modified).
- TPHg using EPA Method 8015 (modified).
- BTEX and MTBE using the EPA Method 8020. The sample exhibiting the highest level of MTBE will be confirmed using the EPA Method 8260.

3.10. Decontamination Procedures

All downhole drilling and sampling equipment will be cleaned using an Alconox solution, tap water rinse, and deionized water rinse prior to the drilling of each boring. All decontamination water will be stored in labeled drums approved by the Department of Transportation (DOT) for this purpose. The drums will be staged on-site pending analytical results.

4. DOCUMENTATION

A final report documenting the observations, results, conclusions, and recommendations will be prepared and submitted upon completion of field work. The report will include scaled diagrams, laboratory analytical reports, and chain of custody documentation.

5. CONDITIONS

The scope of work described in this work plan will be conducted in accordance with generally accepted standards of current environmental practice in California. All documentation generated during the project, including but not limited to additional Work Plans and reports with all conclusions, and recommendations contained therein, shall be time-dependent and should not be considered valid after a 1 year period from their issue. After 1 year from issue, site conditions and recommendations contained within Work Plans and reports should be reviewed.

Evaluation of the condition of the Site, for the purpose of this study, will be made from a limited number of observation points. Subsurface conditions may deviate away from these points. Additional work, including further study of the subsurface, can reduce the inherent uncertainties associated with this type of work.

This study will be performed, and the report prepared for the sole use of our client, the Estate of Jack Holland Sr.. All reports and the findings contained within are not to be disclosed to nor used by any other party without the prior written consent of Environmental Bio-Systems, Inc. It will be the responsibility of the client to convey any and all recommendations to regulatory agencies and other parties, as appropriate.

The recommendations to be provided in the summary project report will be professional opinions that our firm has endeavored to provide with competence and reasonable care. We are not able to eliminate the risks associated with environmental work. No guarantees or warrants, express or implied, are provided regarding our recommendations.

The maximum liability of EBS for any reason attendant to the services provided under this contract shall not exceed $1,600. The maximum liability of EBS for any reason attendant tot he services provided under subsequent contracts signed between the Client and EBS in completing work described within this plan or stemming from such work will be no more than twice the initial amount of such contract.

It is the clients' responsibility to identify property lines and easements. EBS is not responsible for the accuracy of any property line, easement, or other markers identified by the client. It is the clients' sole responsibility to inform EBS of any hazardous materials or conditions relating to the UST or the work area in general prior to the progression of field work, or immediately upon their subsequent discovery.

EBS will contact Underground Service Alert (USA), a public utilities locating service which is provided by the utility companies. USA will mark the location of utilities on public property. USA is not responsible for the location of utilities on private property. The services of a private utility locator will also be employed in locating subsurface metallic utilities. EBS will not be liable for any damages to underground structures as a result of subsurface activities.

6. REFERENCES

Alameda County Health Care Services Agency, Letter to Ann Marie Holland, 15 March 1999.

Compliance & Closure, Inc., April 1997 Quarterly Report, Former Jack Holland Sr. Oil Company, 16301 East 145h Street, San Leandro, California, 14 April 1997.

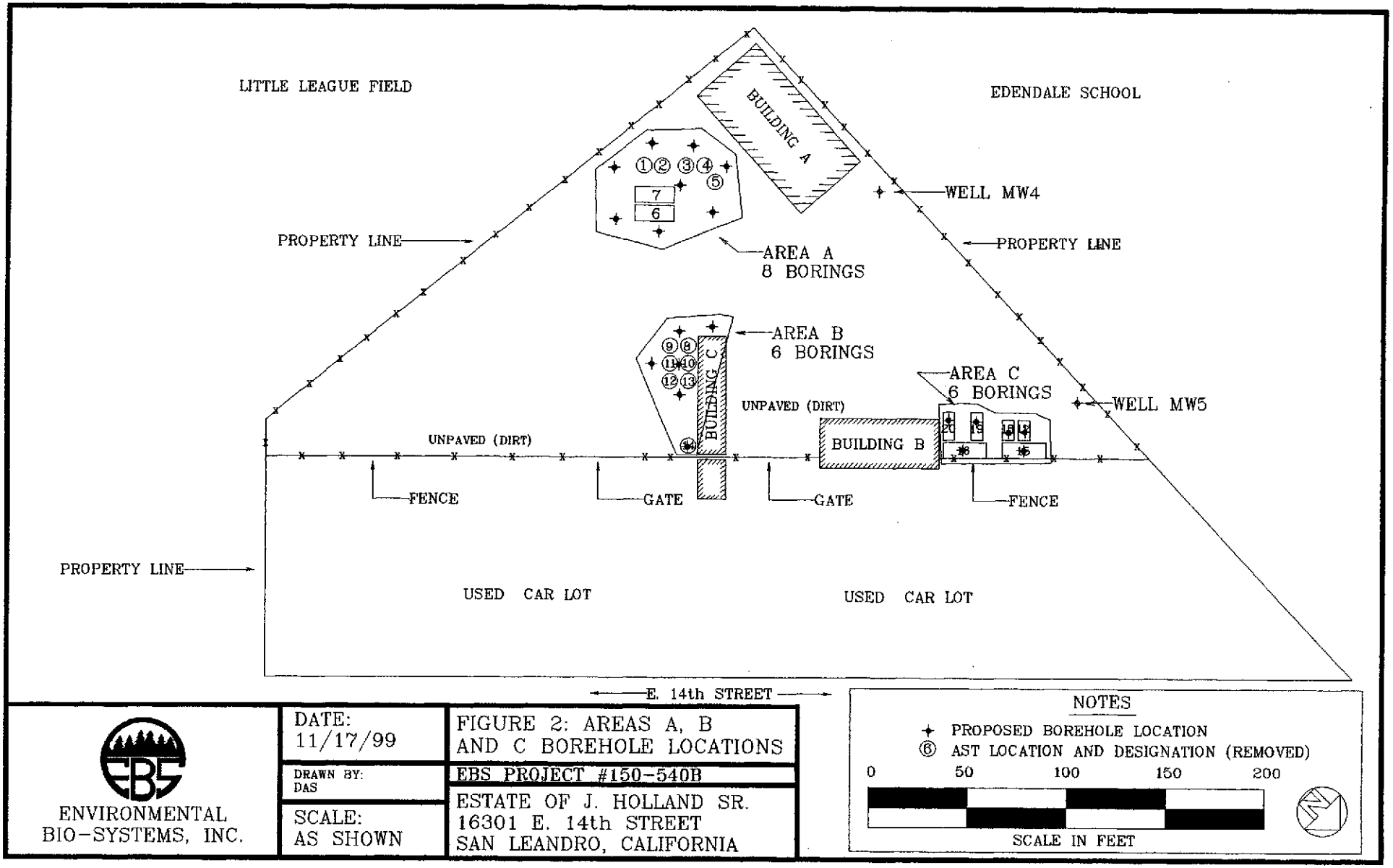
Compliance & Closure, Inc., Summary of Environmental Investigation Conducted at Jack Holland Sr. Oil Company Property, East 14th Street, San Leandro, California, 4 June 1998.

Environmental Bio-Systems, Inc., Site Mitigation Report, 16301 E. 14th Street, San Leandro, California, 9 December 1998.

United States Geological Survey, Hayward, California Quadrangle Map, 7.5-Minute Series, Topographic, 1959, Photorevised 1980.

APPENDIX A:

FIGURES



ENVIRONMENTAL
BIO-SYSTEMS, INC.

DATE: 11/17/99

DRAWN BY: DAS

SCALE: AS SHOWN

FIGURE 2: AREAS A, B AND C BOREHOLE LOCATIONS

EBS PROJECT #150-540B

ESTATE OF J. HOLLAND SR.
16301 E. 14th STREET
SAN LEANDRO, CALIFORNIA

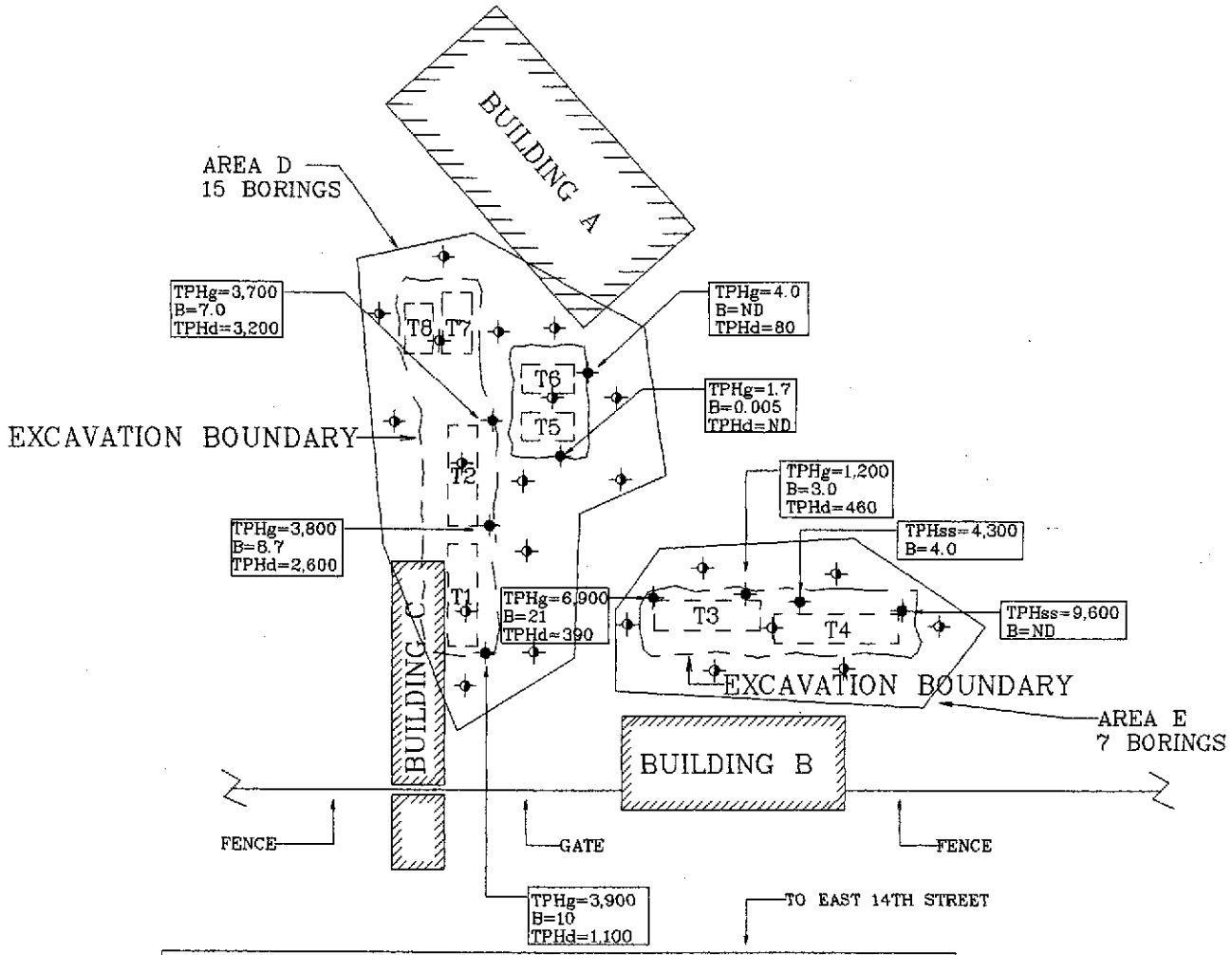
NOTES

✦ PROPOSED BOREHOLE LOCATION

⑥ AST LOCATION AND DESIGNATION (REMOVED)

0 50 100 150 200

SCALE IN FEET



NOTES

- PROPOSED BOREHOLE LOCATION
- PREVIOUS SOIL SAMPLE LOCATION AND RESULTS

(All Results in mg/kg)

TPHg	Total Petroleum Hydrocarbons as Gasoline
B	Benzene
TPHd	Total Petroleum Hydrocarbons as Diesel
TPHss	Total Petroleum Hydrocarbons as Stoddard Solvent

0 20 40

SCALE IN FEET

ENVIRONMENTAL BIO-SYSTEMS, INC.

DATE: 11/17/99

DRAWN BY: DAS

SCALE: AS SHOWN

FIGURE 3: AREAS D AND E BOREHOLE LOCATIONS

ESTATE OF J. HOLLAND SR.
16301 E. 14th STREET
SAN LEANDRO, CALIFORNIA

ENVIRONMENTAL BIO-SYSTEMS, INC., PROJECT #150-540B

APPENDIX C:

PERMITS

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-5554 MARI ON MAGALLANES/FRANK CODD (510) 670-5783
FAX (510)782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 1630 E. 14TH ST. SAN LEANDRO, CA 94578

CLIENT
Name ESTATE OF J. MACHADO SR.
Address 1498 HAMILTON Phone 782-4207
City HAYWARD, CA Zip 94541

APPLICANT
Name ENVIRONMENTAL 510-SYSTEMS, INC.
Fax (510) 690-9110
Address P.O. BOX 2171 Phone (510) 690-9109
City SAN JOSE, CA Zip 95150-2171

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 EAST-TEK

DRILLER'S LICENSE NO. C-57 # 589008
EXP. 11-30-01

WELL PROJECTS
Drill Hole Diameter 8 in. Maximum Depth 20 ft.
Casing Diameter 2 in.
Surface Seal Depth 5 ft. Owner's Well Number MW2/MW3

GEOTECHNICAL PROJECTS
Number of Borings 2
Hole Diameter 2 in. Maximum Depth 15 ft.

ESTIMATED STARTING DATE 1/8/01
ESTIMATED COMPLETION DATE 1/12/01

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

APPLICANT'S SIGNATURE [signature] DATE 1/2/01

PLEASE PRINT NAME DAVE A. SADOFF

Rev.5-12-00

FOR OFFICE USE

PERMIT NUMBER W01-012
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 1-3-01

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION (LOP)
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

March 1, 2000

STID 2423

Ann Marie Holland
1498 Hamrick Lane
Hayward, CA 94544

RE: JACK HOLLAND SR. OIL COMPANY, 16301 E. 14TH STREET, SAN LEANDRO

Dear Ms. Holland:

I have completed my review of the November 18, 1999 Environmental Bio-Systems, Inc. (EBS) work plan as well as their January 7, 2000 work plan addendum. As you are aware, the primary goal of this phase of the project is to collect additional soil and groundwater samples from five (5) areas of the site where above-and below-ground storage tanks were previously located (designated Areas A - D in the EBS work plan).

EBS proposes that a series of soil borings will be advanced within each target area using a Geoprobe® or similar push-tool sampling device. Soil samples will be collected from three discrete depth zones during boring advancement. Each soil sample will be analyzed for the chemical constituents that are consistent with the products and/or wastes that the subject tanks in each area once stored. In addition, two monitoring wells (MW-4 and –5) will be installed using a hollow stem auger drill rig. Both the new wells and existing wells will be sampled during this phase of work.

The cited EBS work plan, as amended, has been accepted for this phase of work at the site, with the following modifications:

1. In those instances where a range of products or wastes may have been stored in one or more tanks in a particular tank area, the target compounds sought from each sample must reflect the full suite of potential constituents, as follows:

   Area A and C - Total oil and grease (O&G), total petroleum hydrocarbons as gasoline (TPH-G), diesel (TPH-D), Stoddard solvent (TPH-SS), and kerosene (TPH-K); benzene, toluene, ethylbenzene, total xylene isomers (BTEX), and methyl tert-butyl ether (MtBE); halogenated volatile organic compounds (HVOC); semi-volatile organic compounds (SVOC), including polychlorinated biphenyl (PCB); and metals (Zn, Pb, Ni, Cd, Cr)

   Area D and E - TPH-G, TPH-D, TPH-SS, TPH-K, BTEX, MtBE

   Area B – O&G, SVOC (including PCB)

2. Target compounds sought in groundwater samples collected from the monitoring wells should mirror those that were *detected at elevated concentrations* in the soil samples collected from the various tank areas. Final determination of target compounds, consequently, should only occur after the consultant's receipt of the soil analyses report from the contracted laboratory, and following consultation with this office.

3. An additional Geoprobe® boring shall be emplaced in an unimpacted area of the site, upgradient of the known source areas, from which additional soil samples are to be collected. Sample depths shall be the same as with all other borings. Soil samples collected from this boring shall be analyzed for the anticipated physical parameters necessary to complete a *Risk-Based Corrective Action* (RBCA) evaluation. Sample parameters shall include, among others possible: fraction organic carbon (f_{oc}), total soil porosity (θ_T), soil bulk density (ρ_S), and volumetric water content in vadose zone and capillary fringe soils (θ_{WS} and θ_{Wcap}, respectively).

The referenced EBS workplan, as amended and modified herein, shall be implemented within 90 days of the date of this letter.

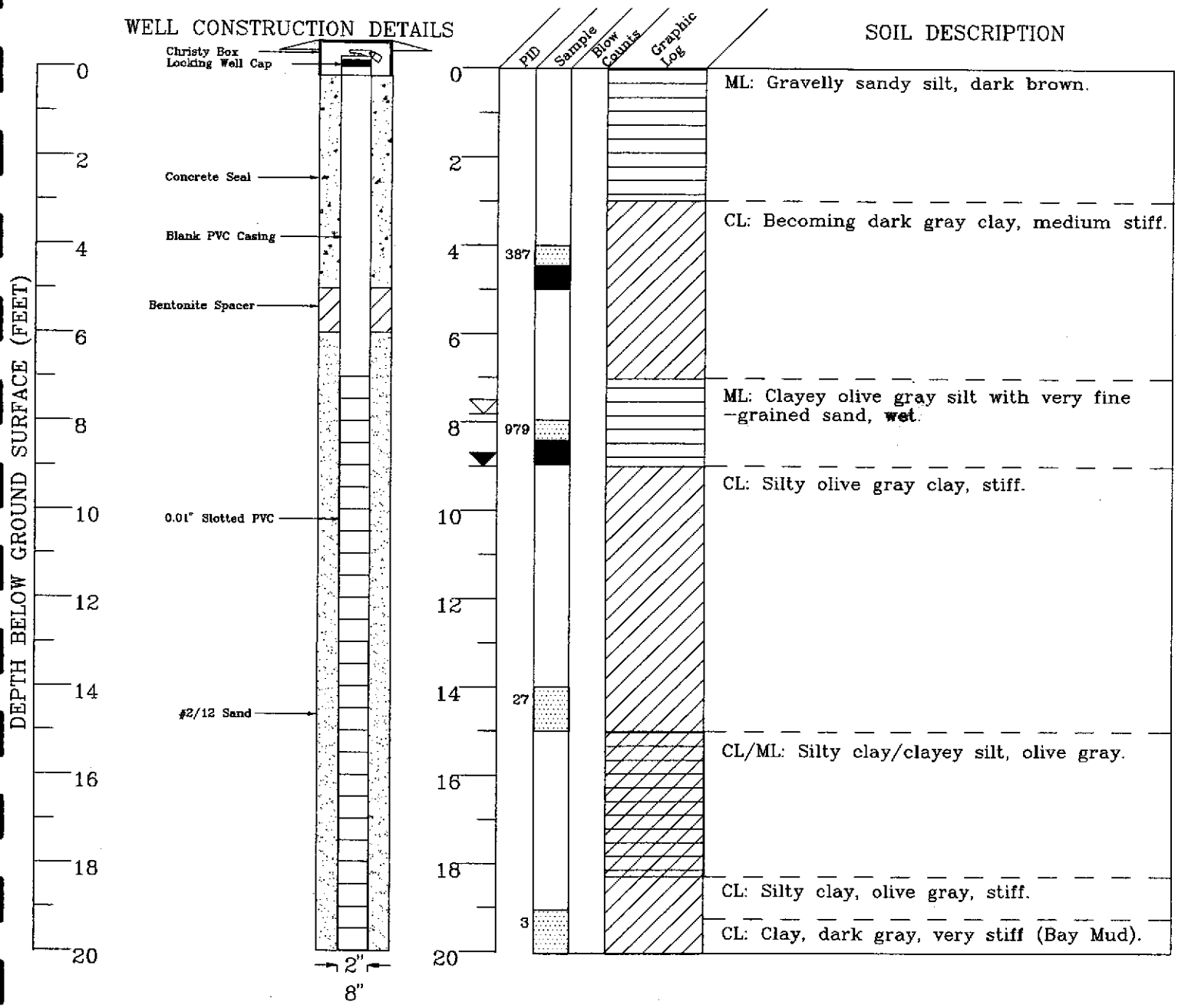
Please contact me at (510) 567-6783 to inform me when field work has been scheduled or should you have any questions.

Sincerely,

Scott O. Seery, CHMM
Hazardous Materials Specialist

cc: Larry Blazer, Alameda County District Attorney's Office
Chuck Headlee, RWQCB
Virginia A. Crisp, Coblenz, Patch, Duffy & Bass
222 Kearny St., 7th Floor, S.F., CA 94108
Edward E. Martins, 22698 Mission Blvd., Hayward, CA 94541
Gary Mulkey, Compliance & Closure, Inc.
7020 Koll Center Pkwy., Ste. 134, Pleasanton, CA 94566
Hal P. Reiland, Reiland & Reiland, P.O. Box 5490, Pleasanton, CA 94566
Dave Sadoff, Environmental Bio-Systems, Inc.
P.O. Box 7171, San Jose, CA 95150-7171

LOG OF SOIL BORING MW4



Logged by: DAS
Inspector: N/A
Date: 1/12/01

Drilling Contractor: GE
Drilling Method: HSA
Driller: John, Lauren

Sanitary Seal/Backfill: Cement
Sampler Type: Split Spoon
Total Boring Depth: 20 feet

ENVIRONMENTAL BIO-SYSTEMS, INC.

EXPLANATION

- water level during drilling
- potentiometric water level
- drill sample
- chemical analysis sample
- geotech. analysis sample
- grab sample
- gradational
- NR no recovery

CONTACTS:

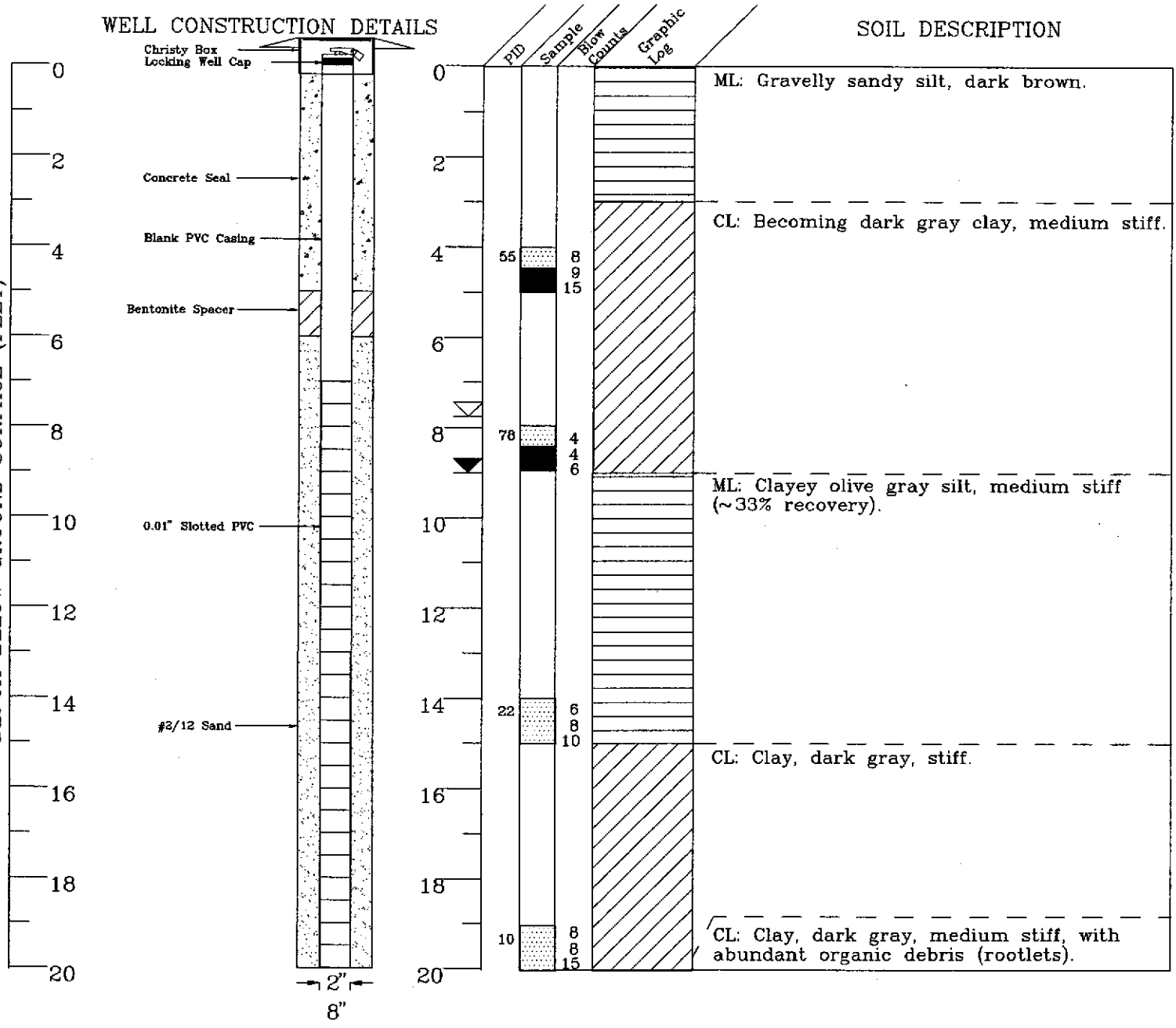
- certain
- approximate
- uncertain

SITE:
(FORMER) HOLLAND OIL CO.
16301 E. 14th STREET
SAN LEANDRO, CALIFORNIA

PROJECT #150-561B

CLIENT:
ESTATE OF J. HOLLAND SR.
1498 HAMRICK LANE
HAYWARD, CALIFORNIA

LOG OF SOIL BORING MW5



Logged by: DAS
Inspector: N/A
Date: 1/12/01

Drilling Contractor: GE
Drilling Method: HSA
Driller: John, Lauren

Sanitary Seal/Backfill: Cement
Sampler Type: Split Spoon
Total Boring Depth: 20 feet

ENVIRONMENTAL BIO-SYSTEMS, INC.

EXPLANATION

- water level during drilling
- potentiometric water level
- drill sample
- chemical analysis sample
- geotech. analysis sample
- grab sample
- gradational
- NR no recovery

CONTACTS:

- certain
- approximate
- uncertain

SITE:
(FORMER) HOLLAND OIL CO.
16301 E. 14th STREET
SAN LEANDRO, CALIFORNIA

PROJECT #150-561B

CLIENT:
ESTATE OF J. HOLLAND SR.
1498 HAMRICK LANE
HAYWARD, CALIFORNIA

APPENDIX E:

ANALYTICAL REPORTS AND CHAIN OF CUSTODY DOCUMENTATION

Analytical Sciences

January 29, 2001

Dave Sadoff
Environmental Bio-Systems, Inc.
P.O. Box 7171
San Jose, CA 95150-7171

Dear Dave,

Enclosed you will find Analytical Sciences' final report 1010902 for your Holland Estate – 150-561B project site. As required by the California Department of Health Services, the letterhead copy of the report for work performed by the subcontracted laboratory is included. An invoice for this work is enclosed.

Should you or your client have any questions regarding this report please contact me at your convenience. We appreciate you selecting Analytical Sciences for this work and look forward to serving your analytical chemistry needs on projects in the future.

Sincerely,

Analytical Sciences

Mark A. Valentini

PO Box 750336
Petaluma, CA 94975-0336
Telephone: (707) 769-3128

110 Liberty Street
Petaluma, CA 94952
Fax: (707) 769-8093

Analytical Sciences

Report Date: January 26, 2001

Environmental Bio-Systems, Inc.
P.O. Box 7171
San Jose, CA 95150-7171
ATTN: Dave Sadoff

LABORATORY REPORT

Project Name: **Holland Estate 150-561B**

Lab Project Number: **1010902**

This 73 page report of analytical data has been reviewed and approved for release.

Mark A. Valentini, Ph.D.
Laboratory Director

PO Box 750336
Petaluma, CA 94975-0336
Telephone: (707) 769-3128

110 Liberty Street
Petaluma, CA 94952
Fax: (707) 769-8093

TPH Gasoline in Soil

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01906	SC1-2'	TPH/Gasoline	1.5	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	0.010	0.005
		Ethyl Benzene	0.011	0.005
		Xylenes	0.024	0.015

Date Sampled: 01/08/01 Date Analyzed: 01/12/01 QC Batch #: 1598
Date Received: 01/09/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01907	SC1-5'	TPH/Gasoline	ND	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	ND	0.015

Date Sampled: 01/08/01 Date Analyzed: 01/11/01 QC Batch #: 1598
Date Received: 01/09/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01908	SC1-12'	TPH/Gasoline	1.9	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	0.016	0.015

Date Sampled: 01/08/01 Date Analyzed: 01/11/01 QC Batch #: 1598
Date Received: 01/09/01 Method: EPA 8015M/8020

Lab Project #: 1010902

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01909	SC2-2'	TPH/Gasoline	12	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	0.057	0.005
		Xylenes	0.99	0.015

Date Sampled: 01/08/01 Date Analyzed: 01/11/01 QC Batch #: 1598
Date Received: 01/09/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01910	SC2-10'	TPH/Gasoline	ND	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	ND	0.015

Date Sampled: 01/08/01 Date Analyzed: 01/12/01 QC Batch #: 1598
Date Received: 01/09/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01911	SC3-2'	TPH/Gasoline	ND	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	0.014	0.005
		Xylenes	0.18	0.015

Date Sampled: 01/08/01 Date Analyzed: 01/11/01 QC Batch #: 1598
Date Received: 01/09/01 Method: EPA 8015M/8020

Lab Project #: 1010902

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01912	SC3-5'	TPH/Gasoline	510	50
		MTBE	ND	5.0
		Benzene	ND	1.0
		Toluene	ND	1.0
		Ethyl Benzene	4.3	1.0
		Xylenes	57	3.0

Date Sampled: 01/08/01 Date Analyzed: 01/10/01, 01/12/01 QC Batch #: 1598
Date Received: 01/09/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01913	SC3-10'	TPH/Gasoline	130	50
		MTBE	ND	5.0
		Benzene	ND	1.0
		Toluene	ND	1.0
		Ethyl Benzene	ND	1.0
		Xylenes	7.3	3.0

Date Sampled: 01/08/01 Date Analyzed: 01/10/01, 01/11/01 QC Batch #: 1598
Date Received: 01/09/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01914	SC4-2'	TPH/Gasoline	430	50
		MTBE	ND	5.0
		Benzene	1.2	1.0
		Toluene	ND	1.0
		Ethyl Benzene	2.5	1.0
		Xylenes	11	3.0

Date Sampled: 01/08/01 Date Analyzed: 01/10/01, 01/12/01 QC Batch #: 1598
Date Received: 01/09/01 Method: EPA 8015M/8020

Lab Project #: 1010902

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01915	SC4-5'	TPH/Gasoline	170	50
		MTBE	ND	5.0
		Benzene	ND	1.0
		Toluene	ND	1.0
		Ethyl Benzene	ND	1.0
		Xylenes	3.3	3.0

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Analyzed: 01/10/01, 01/11/01
Method: EPA 8015M/8020
QC Batch #: 1598

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01916	SC4-9'	TPH/Gasoline	20	2.0
		MTBE	ND	0.10
		Benzene	0.13	0.02
		Toluene	0.08	0.02
		Ethyl Benzene	0.03	0.02
		Xylenes	0.20	0.06

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Analyzed: 01/10/01, 01/17/01
Method: EPA 8015M/8020
QC Batch #: 1620

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01917	SC5-2'	TPH/Gasoline	270	50
		MTBE	ND	5.0
		Benzene	ND	1.0
		Toluene	ND	1.0
		Ethyl Benzene	ND	1.0
		Xylenes	ND	3.0

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Analyzed: 01/10/01, 01/12/01
Method: EPA 8015M/8020
QC Batch #: 1620

Lab Project #: 1010902

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01918	SC5-5'	TPH/Gasoline	820	50
		MTBE	ND	5.0
		Benzene	ND	1.0
		Toluene	ND	1.0
		Ethyl Benzene	1.6	1.0
		Xylenes	ND	3.0

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Analyzed: 01/10/01, 01/12/01
Method: EPA 8015M/8020
QC Batch #: 1620

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01919	SC5-10'	TPH/Gasoline	290	50
		MTBE	ND	5.0
		Benzene	ND	1.0
		Toluene	ND	1.0
		Ethyl Benzene	ND	1.0
		Xylenes	ND	3.0

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Analyzed: 01/10/01, 01/12/01
Method: EPA 8015M/8020
QC Batch #: 1620

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01920	SC6-2'	TPH/Gasoline	770	50
		MTBE	ND	5.0
		Benzene	ND	1.0
		Toluene	2.4	1.0
		Ethyl Benzene	2.6	1.0
		Xylenes	15	3.0

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Analyzed: 01/10/01, 01/12/01
Method: EPA 8015M/8020
QC Batch #: 1620

Lab Project #: 1010902

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01921	SC6-5'	TPH/Gasoline	ND	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	ND	0.015

Date Sampled: 01/08/01 Date Analyzed: 01/17/01 QC Batch #: 1620
Date Received: 01/09/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01922	SC6-9'	TPH/Gasoline	21	10
		MTBE	ND	0.50
		Benzene	ND	0.10
		Toluene	ND	0.10
		Ethyl Benzene	ND	0.10
		Xylenes	ND	0.30

Date Sampled: 01/08/01 Date Analyzed: 01/12/01, 01/17/01 QC Batch #: 1620
Date Received: 01/09/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01923	SC7-2'	TPH/Gasoline	ND	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	ND	0.015

Date Sampled: 01/08/01 Date Analyzed: 01/17/01 QC Batch #: 1620
Date Received: 01/09/01 Method: EPA 8015M/8020

Lab Project #: 1010902 CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01924	SC7-5'	TPH/Gasoline	ND	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	ND	0.015

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Analyzed: 01/17/01
Method: EPA 8015M/8020
QC Batch #: 1620

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01925	SC7-9.5'	TPH/Gasoline	230	50
		MTBE	ND	5.0
		Benzene	ND	1.0
		Toluene	ND	1.0
		Ethyl Benzene	ND	1.0
		Xylenes	ND	3.0

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Analyzed: 01/10/01, 01/13/01
Method: EPA 8015M/8020
QC Batch #: 1620

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01927	SC8-2'	TPH/Gasoline	110	10
		MTBE	ND	0.50
		Benzene	ND	0.10
		Toluene	0.28	0.10
		Ethyl Benzene	0.39	0.10
		Xylenes	2.0	0.30

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Analyzed: 01/11/01, 01/17/01
Method: EPA 8015M/8020
QC Batch #: 1620

Lab Project #: 1010902

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01928	SC8-5'	TPH/Gasoline	ND	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	ND	0.015

Date Sampled: 01/08/01 Date Analyzed: 01/17/01 QC Batch #: 1620
Date Received: 01/09/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01929	SC8-10'	TPH/Gasoline	ND	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	ND	0.015

Date Sampled: 01/08/01 Date Analyzed: 01/18/01 QC Batch #: 1620
Date Received: 01/09/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01930	SC2-5'	TPH/Gasoline	ND	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	ND	0.015

Date Sampled: 01/08/01 Date Analyzed: 01/18/01 QC Batch #: 1620
Date Received: 01/09/01 Method: EPA 8015M/8020

Lab Project #: 1010902

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01931	SC21-2'	TPH/Gasoline	11	2.0
		MTBE	ND	0.05
		Benzene	ND	0.01
		Toluene	0.018	0.01
		Ethyl Benzene	ND	0.01
		Xylenes	0.086	0.03

Date Sampled: 01/08/01 Date Analyzed: 01/18/01 QC Batch #: 1620
Date Received: 01/09/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01932	SC21-9'	TPH/Gasoline	19	2.0
		MTBE	ND	0.05
		Benzene	ND	0.01
		Toluene	ND	0.01
		Ethyl Benzene	ND	0.01
		Xylenes	0.052	0.03

Date Sampled: 01/08/01 Date Analyzed: 01/18/01 QC Batch #: 1620
Date Received: 01/09/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01933	SC22-2'	TPH/Gasoline	1,400	200
		MTBE	ND	10
		Benzene	ND	2.0
		Toluene	ND	2.0
		Ethyl Benzene	4.2	2.0
		Xylenes	15	6.0

Date Sampled: 01/08/01 Date Analyzed: 01/17/01 QC Batch #: 1620
Date Received: 01/09/01 Method: EPA 8015M/8020

Lab Project #: 1010902

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01934	SC22-5'	TPH/Gasoline	930	200
		MTBE	ND	10
		Benzene	ND	2.0
		Toluene	ND	2.0
		Ethyl Benzene	ND	2.0
		Xylenes	ND	6.0

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Analyzed: 01/17/01
Method: EPA 8015M/8020
QC Batch #: 1620

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01935	SC22-9'	TPH/Gasoline	850	50
		MTBE	ND	5.0
		Benzene	ND	1.0
		Toluene	ND	1.0
		Ethyl Benzene	1.8	1.0
		Xylenes	ND	3.0

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Analyzed: 01/13/01, 01/16/01
Method: EPA 8015M/8020
QC Batch #: 1620

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01936	SC23-2'	TPH/Gasoline	510	25
		MTBE	ND	2.5
		Benzene	ND	0.50
		Toluene	ND	0.50
		Ethyl Benzene	1.0	0.50
		Xylenes	4.9	1.5

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Analyzed: 01/17/01, 01/19/01
Method: EPA 8015M/8020
QC Batch #: 1620

Lab Project #: 1010902

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01937	SC23-5'	TPH/Gasoline	350	50
		MTBE	ND	5.0
		Benzene	ND	1.0
		Toluene	ND	1.0
		Ethyl Benzene	ND	1.0
		Xylenes	ND	3.0

Date Sampled: 01/08/01 Date Analyzed: 01/17/01, 01/18/01 QC Batch #: 1621
Date Received: 01/09/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01938	SC23-9'	TPH/Gasoline	490	50
		MTBE	ND	5.0
		Benzene	ND	1.0
		Toluene	ND	1.0
		Ethyl Benzene	2.4	1.0
		Xylenes	4.6	3.0

Date Sampled: 01/08/01 Date Analyzed: 01/17/01, 01/18/01 QC Batch #: 1621
Date Received: 01/09/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01939	SC24-2'	TPH/Gasoline	190	50
		MTBE	ND	5.0
		Benzene	ND	1.0
		Toluene	ND	1.0
		Ethyl Benzene	ND	1.0
		Xylenes	ND	3.0

Date Sampled: 01/08/01 Date Analyzed: 01/16/01 QC Batch #: 1621
Date Received: 01/09/01 Method: EPA 8015M/8020

Lab Project #: 1010902 CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01940	SC24-9'	TPH/Gasoline	1,200	100
		MTBE	ND	10
		Benzene	ND	2.0
		Toluene	ND	2.0
		Ethyl Benzene	ND	2.0
		Xylenes	ND	6.0

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Analyzed: 01/11/01, 01/16/01
Method: EPA 8015M/8020
QC Batch #: 1621

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01941	SC24-5'	TPH/Gasoline	84	25
		MTBE	ND	2.5
		Benzene	ND	0.5
		Toluene	ND	0.5
		Ethyl Benzene	ND	0.5
		Xylenes	ND	1.5

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Analyzed: 01/17/01, 01/19/01
Method: EPA 8015M/8020
QC Batch #: 1621

Lab Project #: 1010902

CA Lab Accreditation #: 2303

TPH Diesel, Kerosene & Stoddard Solvent in Soil

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01906	SC1-2'	TPH/Diesel	190	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled: 01/08/01 | Date Extracted: 01/10/01 | QC Batch #: 1600
Date Received: 01/09/01 | Date Analyzed: 01/10/01 | Method: EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01907	SC1-5'	TPH/Diesel	29	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled: 01/08/01 | Date Extracted: 01/10/01 | QC Batch #: 1600
Date Received: 01/09/01 | Date Analyzed: 01/10/01 | Method: EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01908	SC1-12'	TPH/Diesel	61	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled: 01/08/01 | Date Extracted: 01/10/01 | QC Batch #: 1600
Date Received: 01/09/01 | Date Analyzed: 01/10/01 | Method: EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01909	SC2-2'	TPH/Diesel	79	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled: 01/08/01 | Date Extracted: 01/10/01 | QC Batch #: 1600
Date Received: 01/09/01 | Date Analyzed: 01/10/01 | Method: EPA 3550/8015M

Lab Project #: 1010902

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01910	SC2-10'	TPH/Diesel	ND	5.0
		TPH/Kerosene	ND	5.0
		TPH/Stoddard Solvent	ND	5.0

Date Sampled:	01/08/01	Date Extracted:	01/10/01	QC Batch #:	1600
Date Received:	01/09/01	Date Analyzed:	01/10/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01911	SC3-2'	TPH/Diesel	ND	5.0
		TPH/Kerosene	ND	5.0
		TPH/Stoddard Solvent	ND	5.0

Date Sampled:	01/08/01	Date Extracted:	01/10/01	QC Batch #:	1600
Date Received:	01/09/01	Date Analyzed:	01/10/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01912	SC3-5'	TPH/Diesel	①	5.0
		TPH/Kerosene	780	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled:	01/08/01	Date Extracted:	01/10/01	QC Batch #:	1600
Date Received:	01/09/01	Date Analyzed:	01/10/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01913	SC3-10'	TPH/Diesel	①	5.0
		TPH/Kerosene	510	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled:	01/08/01	Date Extracted:	01/10/01	QC Batch #:	1600
Date Received:	01/09/01	Date Analyzed:	01/10/01	Method:	EPA 3550/8015M

Lab Project #: 1010902

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01914	SC4-2'	TPH/Diesel	8,200	50
		TPH/Kerosene	①	50
		TPH/Stoddard Solvent	①	50

Date Sampled:	01/08/01	Date Extracted:	01/10/01	QC Batch #:	1600
Date Received:	01/09/01	Date Analyzed:	01/11/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01915	SC4-5'	TPH/Diesel	1,900	25
		TPH/Kerosene	①	25
		TPH/Stoddard Solvent	①	25

Date Sampled:	01/08/01	Date Extracted:	01/10/01	QC Batch #:	1600
Date Received:	01/09/01	Date Analyzed:	01/11/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01916	SC4-9'	TPH/Diesel	110	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled:	01/08/01	Date Extracted:	01/10/01	QC Batch #:	1600
Date Received:	01/09/01	Date Analyzed:	01/11/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01917	SC5-2'	TPH/Diesel	1,300	25
		TPH/Kerosene	①	25
		TPH/Stoddard Solvent	①	25

Date Sampled:	01/08/01	Date Extracted:	01/10/01	QC Batch #:	1600
Date Received:	01/09/01	Date Analyzed:	01/11/01	Method:	EPA 3550/8015M

Lab Project #: 1010902

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01918	SC5-5'	TPH/Diesel	5,700	25
		TPH/Kerosene	①	25
		TPH/Stoddard Solvent	①	25

Date Sampled:	01/08/01	Date Extracted:	01/10/01	QC Batch #:	1600
Date Received:	01/09/01	Date Analyzed:	01/11/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01919	SC5-10'	TPH/Diesel	1,300	25
		TPH/Kerosene	①	25
		TPH/Stoddard Solvent	①	25

Date Sampled:	01/08/01	Date Extracted:	01/10/01	QC Batch #:	1600
Date Received:	01/09/01	Date Analyzed:	01/11/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01920	SC6-2'	TPH/Diesel	6,000	50
		TPH/Kerosene	①	50
		TPH/Stoddard Solvent	①	50

Date Sampled:	01/08/01	Date Extracted:	01/10/01	QC Batch #:	1600
Date Received:	01/09/01	Date Analyzed:	01/11/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01921	SC6-5'	TPH/Diesel	ND	5.0
		TPH/Kerosene	ND	5.0
		TPH/Stoddard Solvent	ND	5.0

Date Sampled:	01/08/01	Date Extracted:	01/10/01	QC Batch #:	1600
Date Received:	01/09/01	Date Analyzed:	01/11/01	Method:	EPA 3550/8015M

Lab Project #: 1010902

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Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01922	SC6-9'	TPH/Diesel	28	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled:	01/08/01	Date Extracted:	01/10/01	QC Batch #:	1600
Date Received:	01/09/01	Date Analyzed:	01/11/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01923	SC7-2'	TPH/Diesel	33	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled:	01/08/01	Date Extracted:	01/10/01	QC Batch #:	1600
Date Received:	01/09/01	Date Analyzed:	01/11/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01924	SC7-5'	TPH/Diesel	12	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled:	01/08/01	Date Extracted:	01/10/01	QC Batch #:	1600
Date Received:	01/09/01	Date Analyzed:	01/11/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01925	SC7-9.5'	TPH/Diesel	500	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled:	01/08/01	Date Extracted:	01/10/01	QC Batch #:	1600
Date Received:	01/09/01	Date Analyzed:	01/11/01	Method:	EPA 3550/8015M

Lab Project #: 1010902

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01927	SC8-2'	TPH/Diesel	390	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled:	01/08/01	Date Extracted:	01/11/01	QC Batch #:	1605
Date Received:	01/09/01	Date Analyzed:	01/13/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01928	SC8-5'	TPH/Diesel	ND	5.0
		TPH/Kerosene	ND	5.0
		TPH/Stoddard Solvent	ND	5.0

Date Sampled:	01/08/01	Date Extracted:	01/11/01	QC Batch #:	1605
Date Received:	01/09/01	Date Analyzed:	01/12/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01929	SC8-10'	TPH/Diesel	ND	5.0
		TPH/Kerosene	ND	5.0
		TPH/Stoddard Solvent	ND	5.0

Date Sampled:	01/08/01	Date Extracted:	01/11/01	QC Batch #:	1605
Date Received:	01/09/01	Date Analyzed:	01/12/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01930	SC2-5'	TPH/Diesel	ND	5.0
		TPH/Kerosene	ND	5.0
		TPH/Stoddard Solvent	ND	5.0

Date Sampled:	01/08/01	Date Extracted:	01/11/01	QC Batch #:	1605
Date Received:	01/09/01	Date Analyzed:	01/12/01	Method:	EPA 3550/8015M

Lab Project #: 1010902

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01931	SC21-2'	TPH/Diesel	28	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled:	01/08/01	Date Extracted:	01/11/01	QC Batch #:	1605
Date Received:	01/09/01	Date Analyzed:	01/12/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01932	SC21-9'	TPH/Diesel	100	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled:	01/08/01	Date Extracted:	01/11/01	QC Batch #:	1605
Date Received:	01/09/01	Date Analyzed:	01/13/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01933	SC22-2'	TPH/Diesel	①	25
		TPH/Kerosene	2,000	25
		TPH/Stoddard Solvent	①	25

Date Sampled:	01/08/01	Date Extracted:	01/11/01	QC Batch #:	1605
Date Received:	01/09/01	Date Analyzed:	01/14/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01934	SC22-5'	TPH/Diesel	①	50
		TPH/Kerosene	5,500	50
		TPH/Stoddard Solvent	①	50

Date Sampled:	01/08/01	Date Extracted:	01/11/01	QC Batch #:	1605
Date Received:	01/09/01	Date Analyzed:	01/14/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01935	SC22-9'	TPH/Diesel	6,200	50
		TPH/Kerosene	①	50
		TPH/Stoddard Solvent	①	50

Date Sampled:	01/08/01	Date Extracted:	01/11/01	QC Batch #:	1605
Date Received:	01/09/01	Date Analyzed:	01/14/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01936	SC23-2'	TPH/Diesel	2,400	25
		TPH/Kerosene	①	25
		TPH/Stoddard Solvent	①	25

Date Sampled:	01/08/01	Date Extracted:	01/11/01	QC Batch #:	1605
Date Received:	01/09/01	Date Analyzed:	01/13/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01937	SC23-5'	TPH/Diesel	780	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled:	01/08/01	Date Extracted:	01/11/01	QC Batch #:	1605
Date Received:	01/09/01	Date Analyzed:	01/13/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01938	SC23-9'	TPH/Diesel	1,400	25
		TPH/Kerosene	①	25
		TPH/Stoddard Solvent	①	25

Date Sampled:	01/08/01	Date Extracted:	01/11/01	QC Batch #:	1605
Date Received:	01/09/01	Date Analyzed:	01/13/01	Method:	EPA 3550/8015M

Lab Project #: 1010902

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01939	SC24-2'	TPH/Diesel	2,400	25
		TPH/Kerosene	①	25
		TPH/Stoddard Solvent	①	25

Date Sampled:	01/08/01	Date Extracted:	01/11/01	QC Batch #:	1605
Date Received:	01/09/01	Date Analyzed:	01/14/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01940	SC24-9'	TPH/Diesel	8,400	50
		TPH/Kerosene	①	50
		TPH/Stoddard Solvent	①	50

Date Sampled:	01/08/01	Date Extracted:	01/11/01	QC Batch #:	1605
Date Received:	01/09/01	Date Analyzed:	01/14/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01941	SC24-5'	TPH/Diesel	730	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled:	01/08/01	Date Extracted:	01/12/01	QC Batch #:	1605
Date Received:	01/09/01	Date Analyzed:	01/13/01	Method:	EPA 3550/8015M

① Analytical Sciences compared the observed chromatogram with reference chromatograms for diesel, kerosene and stoddard solvent. The reported value reflects the full amount of semivolatile hydrocarbons observed. The entry is made into the cell that reflects the determined source based upon the best pattern match.

Total Oil and Grease in Soil

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01906	SC1-2'	Total Oil & Grease	97	20

Date Sampled: 01/08/01 | Date Extracted: 01/19/01 | QC Batch #: 1613
Date Received: 01/09/01 | Date Analyzed: 01/19/01 | Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01907	SC1-5'	Total Oil & Grease	41	20

Date Sampled: 01/08/01 | Date Extracted: 01/19/01 | QC Batch #: 1613
Date Received: 01/09/01 | Date Analyzed: 01/19/01 | Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01908	SC1-12'	Total Oil & Grease	140	20

Date Sampled: 01/08/01 | Date Extracted: 01/19/01 | QC Batch #: 1613
Date Received: 01/09/01 | Date Analyzed: 01/19/01 | Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01909	SC2-2'	Total Oil & Grease	880	20

Date Sampled: 01/08/01 | Date Extracted: 01/19/01 | QC Batch #: 1613
Date Received: 01/09/01 | Date Analyzed: 01/19/01 | Method: SM5520F
10/30w Motor Oil was used as the standard

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Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01910	SC2-10'	Total Oil & Grease	44	20

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1613
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01911	SC3-2'	Total Oil & Grease	ND	20

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1613
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01912	SC3-5'	Total Oil & Grease	2,100	20

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1613
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01913	SC3-10'	Total Oil & Grease	47	20

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1613
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01914	SC4-2'	Total Oil & Grease	14,000	500

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1613
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01915	SC4-5'	Total Oil & Grease	2,800	200

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1613
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01916	SC4-9'	Total Oil & Grease	26	20

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1613
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01917	SC5-2'	Total Oil & Grease	6,400	200

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1613
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab Project #: 1010902

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Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01918	SC5-5'	Total Oil & Grease	12,000	500

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1613
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01919	SC5-10'	Total Oil & Grease	760	20

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1613
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01920	SC6-2'	Total Oil & Grease	11,000	500

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1613
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01921	SC6-5'	Total Oil & Grease	ND	20

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1613
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab Project #: 1010902

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Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01922	SC6-9'	Total Oil & Grease	ND	20

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1613
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01923	SC7-2'	Total Oil & Grease	270	20

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1613
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01924	SC7-5'	Total Oil & Grease	22	20

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1613
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01925	SC7-9.5'	Total Oil & Grease	750	20

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1613
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab Project #: 1010902

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01927	SC8-2'	Total Oil & Grease	6,200	20

Date Sampled: 01/08/01 | Date Extracted: 01/19/01 | QC Batch #: 1614
Date Received: 01/09/01 | Date Analyzed: 01/19/01 | Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01928	SC8-5'	Total Oil & Grease	ND	20

Date Sampled: 01/08/01 | Date Extracted: 01/19/01 | QC Batch #: 1614
Date Received: 01/09/01 | Date Analyzed: 01/19/01 | Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01929	SC8-10'	Total Oil & Grease	ND	20

Date Sampled: 01/08/01 | Date Extracted: 01/19/01 | QC Batch #: 1614
Date Received: 01/09/01 | Date Analyzed: 01/19/01 | Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01930	SC2-5'	Total Oil & Grease	ND	20

Date Sampled: 01/08/01 | Date Extracted: 01/19/01 | QC Batch #: 1614
Date Received: 01/09/01 | Date Analyzed: 01/19/01 | Method: SM5520F
10/30w Motor Oil was used as the standard

Lab Project #: 1010902

CA Lab Accreditation #: 2303

Chlorinated Solvents in Soil

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
01906	SC1-2'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	11	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Analyzed: 01/11/01
Method: EPA 5030/8010
QC Batch #: 1602

Lab Project #: 1010902

CA Lab Accreditation #: 2303

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
01907	SC1-5'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Analyzed: 01/11/01
Method: EPA 5030/8010
QC Batch #: 1602

Lab Project #: 1010902

CA Lab Accreditation #: 2303

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
01908	SC1-12'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Analyzed: 01/11/01
Method: EPA 5030/8010
QC Batch #: 1602

Lab Project #: 1010902

CA Lab Accreditation #: 2303

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
01909	SC2-2'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	2.1	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	5.9	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Analyzed: 01/11/01
Method: EPA 5030/8010
QC Batch #: 1602

Lab Project #: 1010902

CA Lab Accreditation #: 2303

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
01910	SC2-10'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Analyzed: 01/12/01
Method: EPA 5030/8010
QC Batch #: 1602

Lab Project #: 1010902

CA Lab Accreditation #: 2303

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
01911	SC3-2'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	2.1	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Analyzed: 01/12/01
Method: EPA 5030/8010
QC Batch #: 1602

Lab Project #: 1010902

CA Lab Accreditation #: 2303

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
01912	SC3-5'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	12	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	94	1.0
		cis-1,2-dichloroethene	1.8	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	190	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	1.2	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	4.2	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	31	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Analyzed: 01/12/01
Method: EPA 5030/8010
QC Batch #: 1602

Lab Project #: 1010902

CA Lab Accreditation #: 2303

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
01913	SC3-10'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	4.1	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	4.8	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	1.3	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Analyzed: 01/12/01
Method: EPA 5030/8010
QC Batch #: 1602

Lab Project #: 1010902

CA Lab Accreditation #: 2303

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
01914	SC4-2'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Analyzed: 01/15/01
Method: EPA 5030/8010
QC Batch #: 1602

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
01915	SC4-5'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Analyzed: 01/15/01
Method: EPA 5030/8010
QC Batch #: 1602

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
01916	SC4-9'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	1.6	1.0
		1,4-dichlorobenzene	4.2	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Analyzed: 01/13/01
Method: EPA 5030/8010
QC Batch #: 1602

Lab Project #: 1010902

CA Lab Accreditation #: 2303

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
01917	SC5-2'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chlor4	ND	1.0
		bromomethane no n16 DLLs	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled:	01/08/01	Date Analyzed:	01/15/01	QC Batch #:	1602
Date Received:	01/09/01	Method:	EPA 5030/8010		

Lab Project #: 1010902

CA Lab Accreditation #: 2303

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
01918	SC5-5'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	2.1	1.0
		1,4-dichlorobenzene	3.7	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Analyzed: 01/15/01
Method: EPA 5030/8010
QC Batch #: 1602

Lab Project #: 1010902

CA Lab Accreditation #: 2303

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
01919	SC5-10'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	1.6	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	41	1.0
		1,4-dichlorobenzene	99	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Analyzed: 01/15/01
Method: EPA 5030/8010
QC Batch #: 1602

Lab Project #: 1010902

CA Lab Accreditation #: 2303

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
01920	SC6-2'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	5.4	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	2.6	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	2.1	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	2.0	1.0
		1,2-dichlorobenzene	2.1	1.0

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Analyzed: 01/15/01
Method: EPA 5030/8010
QC Batch #: 1602

Lab Project #: 1010902

CA Lab Accreditation #: 2303

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
01921	SC6-5'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Analyzed: 01/15/01
Method: EPA 5030/8010
QC Batch #: 1602

Lab Project #: 1010902

CA Lab Accreditation #: 2303

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
01922	SC6-9'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	2.0	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Analyzed: 01/12/01
Method: EPA 5030/8010
QC Batch #: 1602

Lab Project #: 1010902

CA Lab Accreditation #: 2303

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
01923	SC7-2'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	1.3	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Analyzed: 01/12/01
Method: EPA 5030/8010
QC Batch #: 1602

Lab Project #: 1010902

CA Lab Accreditation #: 2303

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
01924	SC7-5'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Analyzed: 01/13/01
Method: EPA 5030/8010
QC Batch #: 1602

Lab Project #: 1010902

CA Lab Accreditation #: 2303

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
01925	SC7-9.5'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	8.0	1.0
		1,4-dichlorobenzene	25	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Analyzed: 01/13/01
Method: EPA 5030/8010
QC Batch #: 1602

Lab Project #: 1010902

CA Lab Accreditation #: 2303

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
01927	SC8-2'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	4.5	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	1.6	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	3.6	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	13	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	27	1.0
		1,3-dichlorobenzene	5.9	1.0
		1,4-dichlorobenzene	12	1.0
		1,2-dichlorobenzene	75	1.0

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Analyzed: 01/16/01
Method: EPA 5030/8010
QC Batch #: 1618

Lab Project #: 1010902

CA Lab Accreditation #: 2303

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
01928	SC8-5'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Analyzed: 01/16/01
Method: EPA 5030/8010
QC Batch #: 1618

Lab Project #: 1010902

CA Lab Accreditation #: 2303

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
01929	SC8-10'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Analyzed: 01/16/01
Method: EPA 5030/8010
QC Batch #: 1618

Lab Project #: 1010902

CA Lab Accreditation #: 2303

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
01930	SC2-5'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 01/08/01
Date Received: 01/09/01
Date Analyzed: 01/16/01
Method: EPA 5030/8010
QC Batch #: 1618

Lab Project #: 1010902

CA Lab Accreditation #: 2303

Metals in Soil

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01906	SC1-2'	Cadmium (Cd)	ND	1.0
		Chromium (Cr)	38	1.5
		Lead (Pb)	30	3.0
		Nickel (Ni)	33	2.0
		Zinc (Zn)	80	1.0

Date Sampled: 01/08/01 Date Digested: 01/11/01 QC Batch #: 1603
Date Received: 01/09/01 Date Analyzed: 01/12/01
Method: EPA 3050/7000 series/6010

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01907	SC1-5'	Cadmium (Cd)	ND	1.0
		Chromium (Cr)	33	1.5
		Lead (Pb)	4.6	3.0
		Nickel (Ni)	36	2.0
		Zinc (Zn)	40	1.0

Date Sampled: 01/08/01 Date Digested: 01/11/01 QC Batch #: 1603
Date Received: 01/09/01 Date Analyzed: 01/12/01
Method: EPA 3050/7000 series/6010

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01908	SC1-12'	Cadmium (Cd)	ND	1.0
		Chromium (Cr)	36	1.5
		Lead (Pb)	5.6	3.0
		Nickel (Ni)	34	2.0
		Zinc (Zn)	35	1.0

Date Sampled: 01/08/01 Date Digested: 01/11/01 QC Batch #: 1603
Date Received: 01/09/01 Date Analyzed: 01/12/01
Method: EPA 3050/7000 series/6010

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01909	SC2-2'	Cadmium (Cd)	ND	1.0
		Chromium (Cr)	41	1.5
		Lead (Pb)	19	3.0
		Nickel (Ni)	40	2.0
		Zinc (Zn)	50	1.0

Date Sampled: 01/08/01 Date Digested: 01/11/01 QC Batch #: 1603
Date Received: 01/09/01 Date Analyzed: 01/12/01
Method: EPA 3050/7000 series/6010

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01910	SC2-10'	Cadmium (Cd)	ND	1.0
		Chromium (Cr)	43	1.5
		Lead (Pb)	5.6	3.0
		Nickel (Ni)	46	2.0
		Zinc (Zn)	48	1.0

Date Sampled: 01/08/01 Date Digested: 01/11/01 QC Batch #: 1603
Date Received: 01/09/01 Date Analyzed: 01/12/01
Method: EPA 3050/7000 series/6010

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01911	SC3-2'	Cadmium (Cd)	ND	1.0
		Chromium (Cr)	54	1.5
		Lead (Pb)	4.0	3.0
		Nickel (Ni)	49	2.0
		Zinc (Zn)	37	1.0

Date Sampled: 01/08/01 Date Digested: 01/11/01 QC Batch #: 1603
Date Received: 01/09/01 Date Analyzed: 01/12/01
Method: EPA 3050/7000 series/6010

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01912	SC3-5'	Cadmium (Cd)	ND	1.0
		Chromium (Cr)	31	1.5
		Lead (Pb)	9.8	3.0
		Nickel (Ni)	19	2.0
		Zinc (Zn)	39	1.0

Date Sampled: 01/08/01 Date Digested: 01/11/01 QC Batch #: 1603
Date Received: 01/09/01 Date Analyzed: 01/12/01
Method: EPA 3050/7000 series/6010

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01913	SC3-10'	Cadmium (Cd)	ND	1.0
		Chromium (Cr)	40	1.5
		Lead (Pb)	5.2	3.0
		Nickel (Ni)	37	2.0
		Zinc (Zn)	42	1.0

Date Sampled: 01/08/01 Date Digested: 01/11/01 QC Batch #: 1603
Date Received: 01/09/01 Date Analyzed: 01/12/01
Method: EPA 3050/7000 series/6010

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01914	SC4-2'	Cadmium (Cd)	ND	1.0
		Chromium (Cr)	37	1.5
		Lead (Pb)	14	3.0
		Nickel (Ni)	38	2.0
		Zinc (Zn)	59	1.0

Date Sampled: 01/08/01 Date Digested: 01/11/01 QC Batch #: 1603
Date Received: 01/09/01 Date Analyzed: 01/12/01
Method: EPA 3050/7000 series/6010

Lab Project #: 1010902

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01915	SC4-5'	Cadmium (Cd)	ND	1.0
		Chromium (Cr)	40	1.5
		Lead (Pb)	6.0	3.0
		Nickel (Ni)	42	2.0
		Zinc (Zn)	46	1.0

Date Sampled: 01/08/01 Date Digested: 01/11/01 QC Batch #: 1603
Date Received: 01/09/01 Date Analyzed: 01/12/01
Method: EPA 3050/7000 series/6010

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01916	SC4-9'	Cadmium (Cd)	ND	1.0
		Chromium (Cr)	48	1.5
		Lead (Pb)	3.6	3.0
		Nickel (Ni)	37	2.0
		Zinc (Zn)	32	1.0

Date Sampled: 01/08/01 Date Digested: 01/11/01 QC Batch #: 1603
Date Received: 01/09/01 Date Analyzed: 01/12/01
Method: EPA 3050/7000 series/6010

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01917	SC5-2'	Cadmium (Cd)	ND	1.0
		Chromium (Cr)	45	1.5
		Lead (Pb)	9.6	3.0
		Nickel (Ni)	48	2.0
		Zinc (Zn)	56	1.0

Date Sampled: 01/08/01 Date Digested: 01/11/01 QC Batch #: 1603
Date Received: 01/09/01 Date Analyzed: 01/12/01
Method: EPA 3050/7000 series/6010

Lab Project #: 1010902

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01918	SC5-5'	Cadmium (Cd)	ND	1.0
		Chromium (Cr)	32	1.5
		Lead (Pb)	5.6	3.0
		Nickel (Ni)	33	2.0
		Zinc (Zn)	38	1.0

Date Sampled: 01/08/01 Date Digested: 01/11/01 QC Batch #: 1603
Date Received: 01/09/01 Date Analyzed: 01/12/01
Method: EPA 3050/7000 series/6010

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01919	SC5-10'	Cadmium (Cd)	ND	1.0
		Chromium (Cr)	40	1.5
		Lead (Pb)	6.9	3.0
		Nickel (Ni)	42	2.0
		Zinc (Zn)	55	1.0

Date Sampled: 01/08/01 Date Digested: 01/11/01 QC Batch #: 1603
Date Received: 01/09/01 Date Analyzed: 01/12/01
Method: EPA 3050/7000 series/6010

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01920	SC6-2'	Cadmium (Cd)	ND	1.0
		Chromium (Cr)	35	1.5
		Lead (Pb)	640	3.0
		Nickel (Ni)	46	2.0
		Zinc (Zn)	110	1.0

Date Sampled: 01/08/01 Date Digested: 01/11/01 QC Batch #: 1603
Date Received: 01/09/01 Date Analyzed: 01/12/01
Method: EPA 3050/7000 series/6010

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01921	SC6-5'	Cadmium (Cd)	ND	1.0
		Chromium (Cr)	40	1.5
		Lead (Pb)	6.0	3.0
		Nickel (Ni)	45	2.0
		Zinc (Zn)	52	1.0

Date Sampled: 01/08/01 Date Digested: 01/11/01 QC Batch #: 1603
Date Received: 01/09/01 Date Analyzed: 01/12/01
Method: EPA 3050/7000 series/6010

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01922	SC6-9'	Cadmium (Cd)	ND	1.0
		Chromium (Cr)	34	1.5
		Lead (Pb)	3.8	3.0
		Nickel (Ni)	33	2.0
		Zinc (Zn)	35	1.0

Date Sampled: 01/08/01 Date Digested: 01/11/01 QC Batch #: 1603
Date Received: 01/09/01 Date Analyzed: 01/12/01
Method: EPA 3050/7000 series/6010

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01923	SC7-2'	Cadmium (Cd)	ND	1.0
		Chromium (Cr)	33	1.5
		Lead (Pb)	6.6	3.0
		Nickel (Ni)	29	2.0
		Zinc (Zn)	52	1.0

Date Sampled: 01/08/01 Date Digested: 01/11/01 QC Batch #: 1603
Date Received: 01/09/01 Date Analyzed: 01/12/01
Method: EPA 3050/7000 series/6010

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01924	SC7-5'	Cadmium (Cd)	ND	1.0
		Chromium (Cr)	35	1.5
		Lead (Pb)	5.0	3.0
		Nickel (Ni)	40	2.0
		Zinc (Zn)	44	1.0

Date Sampled: 01/08/01 Date Digested: 01/11/01 QC Batch #: 1603
Date Received: 01/09/01 Date Analyzed: 01/12/01
Method: EPA 3050/7000 series/6010

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01925	SC7-9.5'	Cadmium (Cd)	ND	1.0
		Chromium (Cr)	29	1.5
		Lead (Pb)	4.7	3.0
		Nickel (Ni)	30	2.0
		Zinc (Zn)	39	1.0

Date Sampled: 01/08/01 Date Digested: 01/11/01 QC Batch #: 1603
Date Received: 01/09/01 Date Analyzed: 01/12/01
Method: EPA 3050/7000 series/6010

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01927	SC8-2'	Cadmium (Cd)	ND	1.0
		Chromium (Cr)	36	1.5
		Lead (Pb)	7.8	3.0
		Nickel (Ni)	41	2.0
		Zinc (Zn)	45	1.0

Date Sampled: 01/08/01 Date Digested: 01/11/01 QC Batch #: 1604
Date Received: 01/09/01 Date Analyzed: 01/16/01
Method: EPA 3050/7000 series/6010

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01928	SC8-5'	Cadmium (Cd)	ND	1.0
		Chromium (Cr)	40	1.5
		Lead (Pb)	5.7	3.0
		Nickel (Ni)	43	2.0
		Zinc (Zn)	46	1.0

Date Sampled: 01/08/01 Date Digested: 01/11/01 QC Batch #: 1604
Date Received: 01/09/01 Date Analyzed: 01/16/01
Method: EPA 3050/7000 series/6010

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01929	SC8-10'	Cadmium (Cd)	ND	1.0
		Chromium (Cr)	27	1.5
		Lead (Pb)	4.7	3.0
		Nickel (Ni)	30	2.0
		Zinc (Zn)	32	1.0

Date Sampled: 01/08/01 Date Digested: 01/11/01 QC Batch #: 1604
Date Received: 01/09/01 Date Analyzed: 01/16/01
Method: EPA 3050/7000 series/6010

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01930	SC2-5'	Cadmium (Cd)	ND	1.0
		Chromium (Cr)	28	1.5
		Lead (Pb)	4.5	3.0
		Nickel (Ni)	33	2.0
		Zinc (Zn)	32	1.0

Date Sampled: 01/08/01 Date Digested: 01/11/01 QC Batch #: 1604
Date Received: 01/09/01 Date Analyzed: 01/16/01
Method: EPA 3050/7000 series/6010

LABORATORY
QUALITY ASSURANCE REPORT

QC Batch #: 1598 **Lab Project #:** 1010902

Sample ID	Compound	Result (mg/kg)
MB	TPH/Gas	ND
MB	MTBE	ND
MB	Benzene	ND
MB	Toluene	ND
MB	Ethyl Benzene	ND
MB	Xylenes	ND

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.
LCS	TPH/Gas		NS	
LCS	Benzene	0.0814	0.100	81.4
LCS	Toluene	0.0858	0.100	85.8
LCS	Ethyl Benzene	0.0898	0.100	89.8
LCS	Xylenes	0.275	0.300	91.8

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.	RPD
LCSD	TPH/Gas		NS		
LCSD	Benzene	0.0830	0.100	83.0	1.9
LCSD	Toluene	0.0880	0.100	88.0	2.5
LCSD	Ethyl Benzene	0.0931	0.100	93.1	3.6
LCSD	Xylenes	0.282	0.300	94.2	2.6

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

QC Batch #: 1620 **Lab Project #:** 1010902

Sample ID	Compound	Result (mg/kg)
MB	TPH/Gas	ND
MB	MTBE	ND
MB	Benzene	ND
MB	Toluene	ND
MB	Ethyl Benzene	ND
MB	Xylenes	ND

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.
LCS	TPH/Gas		NS	
LCS	Benzene	0.0936	0.100	93.6
LCS	Toluene	0.0986	0.100	98.6
LCS	Ethyl Benzene	0.0961	0.100	96.1
LCS	Xylenes	0.291	0.300	97.1

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.	RPD
LCSD	TPH/Gas		NS		
LCSD	Benzene	0.0923	0.100	92.3	1.4
LCSD	Toluene	0.0969	0.100	96.9	1.7
LCSD	Ethyl Benzene	0.0941	0.100	94.1	2.1
LCSD	Xylenes	0.283	0.300	94.3	2.9

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
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QC Batch #: 1621 **Lab Project #:** 1010902

Sample ID	Compound	Result (mg/kg)
MB	TPH/Gas	ND
MB	MTBE	ND
MB	Benzene	ND
MB	Toluene	ND
MB	Ethyl Benzene	ND
MB	Xylenes	ND

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.
LCS	TPH/Gas		NS	
LCS	Benzene	0.0954	0.100	95.4
LCS	Toluene	0.0961	0.100	96.1
LCS	Ethyl Benzene	0.0946	0.100	94.6
LCS	Xylenes	0.285	0.300	95.0

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.	RPD
LCSD	TPH/Gas		NS		
LCSD	Benzene	0.0952	0.100	95.2	0.21
LCSD	Toluene	0.0955	0.100	95.5	0.63
LCSD	Ethyl Benzene	0.0933	0.100	93.3	1.4
LCSD	Xylenes	0.283	0.300	94.5	0.49

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

QC Batch #: 1600 **Lab Project #:** 1010902

Sample ID	Compound	Result (mg/kg)
MB	TPH/Diesel	ND

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.
LCS	TPH/Diesel	287	246	117

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.	RPD
LCSD	TPH/Diesel	244	246	99.2	16

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

QC Batch #: 1605 **Lab Project #:** 1010902

Sample ID	Compound	Result (mg/kg)
MB	TPH/Diesel	ND

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.
LCS	TPH/Diesel	222	246	90.2

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.	RPD
LCSD	TPH/Diesel	207	246	84.1	7.0

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

QC Batch #: 1613 **Lab Project #:** 1010902

Sample ID	Compound	Result (mg/kg)
MB	TOG	ND

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.
LCS	TOG	415	380	109

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.	RPD
LCSD	TOG	422	390	108	0.91

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

QC Batch #: 1614 **Lab Project #:** 1010902

Sample ID	Compound	Result (mg/kg)
MB	TOG	ND

Sample #	Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.
01942	CMS	TOG	484 ②	482	94.6

Sample #	Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.	RPD
01942	CMSD	TOG	568 ②	512	105	10

② Sample 01942 contained a TOG level of 28 mg/kg prior to the addition of the QC spike. This was taken into account in the calculation of the % recovery.

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

QC Batch #: 1602 **Lab Project #:** 1010902

Sample ID	Compound Name	Result (ug/kg)
MB	dichlorodifluoromethane	ND
	chloromethane	ND
	vinyl chloride	ND
	bromomethane	ND
	chloroethane	ND
	trichlorofluoromethane	ND
	1,1-dichloroethene	ND
	methylene chloride	ND
	trans-1,2-dichloroethene	ND
	1,1-dichloroethane	ND
	cis-1,2-dichloroethene	ND
	chloroform	ND
	1,1,1-trichloroethane	ND
	carbon tetrachloride	ND
	1,2-dichloroethane	ND
	trichloroethene	ND
	1,2-dichloropropane	ND
	bromodichloromethane	ND
	dibromomethane	ND
	trans-1,3-dichloropropene	ND
	1,1,2-trichloroethane	ND
	tetrachloroethene	ND
	dibromochloromethane	ND
	chlorobenzene	ND
	1,1,1,2-tetrachloroethane	ND
	bromoform	ND
	1,1,2,2-tetrachloroethane	ND
	1,2,3-trichloropropane	ND
	bromobenzene	ND
	chlorotoluene	ND
	1,3-dichlorobenzene	ND
	1,4-dichlorobenzene	ND
	1,2-dichlorobenzene	ND

Sample	Sample ID	Compound Name	Result (ug/kg)	Spike Level	% Recv.
01907	CMS	dichlorodifluoromethane	ND		
		chloromethane	ND		
		vinyl chloride	ND		
		bromomethane	ND		
		chloroethane	ND		
		trichlorofluoromethane	ND		
		1,1-dichloroethene	ND		
		methylene chloride	ND		
		trans-1,2-dichloroethene	ND		
		1,1-dichloroethane	14.8	18.9	78.3
		cis-1,2-dichloroethene	ND		
		chloroform	ND		
		1,1,1-trichloroethane	ND		
		carbon tetrachloride	15.0	18.9	79.4
		1,2-dichloroethane	ND		
		trichloroethene	13.7	18.9	72.5
		1,2-dichloropropane	ND		
		bromodichloromethane	ND		
		dibromomethane	ND		
		trans-1,3-dichloropropene	ND		
		1,1,2-trichloroethane	ND		
		tetrachloroethene	13.4	18.9	70.9
		dibromochloromethane	ND		
		chlorobenzene	ND		
		1,1,1,2-tetrachloroethane	ND		
		bromoform	ND		
		1,1,2,2-tetrachloroethane	ND		
		1,2,3-trichloropropane	ND		
		bromobenzene	ND		
		chlorotoluene	ND		
		1,3-dichlorobenzene	15.9	18.9	84.1
		1,4-dichlorobenzene	ND		
		1,2-dichlorobenzene	16.0	18.9	84.7

Sample	Sample ID	Compound Name	Result (ug/kg)	Spike Level	% Recv.	RPD
01907	CMSD	dichlorodifluoromethane	ND			
		chloromethane	ND			
		vinyl chloride	ND			
		bromomethane	ND			
		chloroethane	ND			
		trichlorofluoromethane	ND			
		1,1-dichloroethene	ND			
		methylene chloride	ND			
		trans-1,2-dichloroethene	ND			
		1,1-dichloroethane	17.2	18.9	91.0	15
		cis-1,2-dichloroethene	ND			
		chloroform	ND			
		1,1,1-trichloroethane	ND			
		carbon tetrachloride	17.5	18.9	92.1	15
		1,2-dichloroethane	ND			
		trichloroethene	16.6	18.9	87.8	19
		1,2-dichloropropane	ND			
		bromodichloromethane	ND			
		dibromomethane	ND			
		trans-1,3-dichloropropene	ND			
		1,1,2-trichloroethane	ND			
		tetrachloroethene	16.1	18.9	85.2	18
		dibromochloromethane	ND			
		chlorobenzene	ND			
		1,1,1,2-tetrachloroethane	ND			
		bromoform	ND			
		1,1,2,2-tetrachloroethane	ND			
		1,2,3-trichloropropane	ND			
		bromobenzene	ND			
		chlorotoluene	ND			
		1,3-dichlorobenzene	16.6	18.9	87.8	4.3
		1,4-dichlorobenzene	ND			
		1,2-dichlorobenzene	16.6	18.9	87.8	3.7

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

QC Batch #: 1618 **Lab Project #:** 1010902

Sample ID	Compound Name	Result (ug/kg)
MB	dichlorodifluoromethane	ND
	chloromethane	ND
	vinyl chloride	ND
	bromomethane	ND
	chloroethane	ND
	trichlorofluoromethane	ND
	1,1-dichloroethene	ND
	methylene chloride	ND
	trans-1,2-dichloroethene	ND
	1,1-dichloroethane	ND
	cis-1,2-dichloroethene	ND
	chloroform	ND
	1,1,1-trichloroethane	ND
	carbon tetrachloride	ND
	1,2-dichloroethane	ND
	trichloroethene	ND
	1,2-dichloropropane	ND
	bromodichloromethane	ND
	dibromomethane	ND
	trans-1,3-dichloropropene	ND
	1,1,2-trichloroethane	ND
	tetrachloroethene	ND
	dibromochloromethane	ND
	chlorobenzene	ND
	1,1,1,2-tetrachloroethane	ND
	bromoform	ND
	1,1,2,2-tetrachloroethane	ND
	1,2,3-trichloropropane	ND
	bromobenzene	ND
	chlorotoluene	ND
	1,3-dichlorobenzene	ND
	1,4-dichlorobenzene	ND
	1,2-dichlorobenzene	ND

Sample	Sample ID	Compound Name	Result (ug/kg)	Spike Level	% Recv.
01929	CMS	dichlorodifluoromethane	ND		
		chloromethane	ND		
		vinyl chloride	ND		
		bromomethane	ND		
		chloroethane	ND		
		trichlorofluoromethane	ND		
		1,1-dichloroethene	ND		
		methylene chloride	ND		
		trans-1,2-dichloroethene	ND		
		1,1-dichloroethane	20.3	19.8	103
		cis-1,2-dichloroethene	ND		
		chloroform	ND		
		1,1,1-trichloroethane	ND		
		carbon tetrachloride	18.5	19.8	93.5
		1,2-dichloroethane	ND		
		trichloroethene	20.7	19.8	105
		1,2-dichloropropane	ND		
		bromodichloromethane	ND		
		dibromomethane	ND		
		trans-1,3-dichloropropene	ND		
		1,1,2-trichloroethane	ND		
		tetrachloroethene	20.6	19.8	104
		dibromochloromethane	ND		
		chlorobenzene	ND		
		1,1,1,2-tetrachloroethane	ND		
		bromoform	ND		
		1,1,2,2-tetrachloroethane	ND		
		1,2,3-trichloropropane	ND		
		bromobenzene	ND		
		chlorotoluene	ND		
		1,3-dichlorobenzene	18.6	19.8	93.9
		1,4-dichlorobenzene	ND		
		1,2-dichlorobenzene	19.4	19.8	98.1

Sample	Sample ID	Compound Name	Result (ug/kg)	Spike Level	% Recv.	RPD
01929	CMSD	dichlorodifluoromethane	ND			
		chloromethane	ND			
		vinyl chloride	ND			
		bromomethane	ND			
		chloroethane	ND			
		trichlorofluoromethane	ND			
		1,1-dichloroethene	ND			
		methylene chloride	ND			
		trans-1,2-dichloroethene	ND			
		1,1-dichloroethane	20.5	19.8	104	0.98
		cis-1,2-dichloroethene	ND			
		chloroform	ND			
		1,1,1-trichloroethane	ND			
		carbon tetrachloride	20.2	19.8	102	8.8
		1,2-dichloroethane	ND			
		trichloroethene	21.3	19.8	108	2.9
		1,2-dichloropropane	ND			
		bromodichloromethane	ND			
		dibromomethane	ND			
		trans-1,3-dichloropropene	ND			
		1,1,2-trichloroethane	ND			
		tetrachloroethene	21.3	19.8	108	3.3
		dibromochloromethane	ND			
		chlorobenzene	ND			
		1,1,1,2-tetrachloroethane	ND			
		bromoform	ND			
		1,1,2,2-tetrachloroethane	ND			
		1,2,3-trichloropropane	ND			
		bromobenzene	ND			
		chlorotoluene	ND			
		1,3-dichlorobenzene	19.0	19.8	95.8	2.1
		1,4-dichlorobenzene	ND			
		1,2-dichlorobenzene	19.2	19.8	97.0	1.0

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

QC Batch #: 1603 **Lab Project #:** 1010902

Sample ID	Compound	Result (mg/kg)
MB	Cadmium (Cd)	ND
MB	Chromium (Cr)	ND
MB	Lead (Pb)	ND
MB	Nickel (Ni)	ND
MB	Zinc (Zn)	ND

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.
LCS	Cadmium (Cd)	47.6	50.0	95.2
LCS	Chromium (Cr)	49.6	50.0	99.2
LCS	Lead (Pb)	49.1	50.0	98.2
LCS	Nickel (Ni)	47.3	50.0	94.6
LCS	Zinc (Zn)	50.6	50.0	101

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.	RPD
LCSD	Cadmium (Cd)	48.1	50.0	96.2	1.0
LCSD	Chromium (Cr)	49.5	50.0	99.0	0.20
LCSD	Lead (Pb)	50.0	50.0	100	1.8
LCSD	Nickel (Ni)	48.3	50.0	96.6	2.1
LCSD	Zinc (Zn)	50.6	50.0	101	0.0

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

QC Batch #: 1604 **Lab Project #:** 1010902

Sample ID	Compound	Result (mg/kg)
MB	Cadmium (Cd)	ND
MB	Chromium (Cr)	ND
MB	Lead (Pb)	ND
MB	Nickel (Ni)	ND
MB	Zinc (Zn)	1.2

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.
LCS	Cadmium (Cd)	54.9	50.0	110
LCS	Chromium (Cr)	46.9	50.0	93.8
LCS	Lead (Pb)	53.0	50.0	106
LCS	Nickel (Ni)	52.6	50.0	105
LCS	Zinc (Zn)	55.5	50.0	111

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.	RPD
LCSD	Cadmium (Cd)	54.9	50.0	110	0.0
LCSD	Chromium (Cr)	46.1	50.0	92.2	1.7
LCSD	Lead (Pb)	53.4	50.0	107	0.75
LCSD	Nickel (Ni)	51.6	50.0	103	1.9
LCSD	Zinc (Zn)	56.5	50.0	113	1.8

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

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Analytical Sciences P.O. Box 750336 Petaluma, CA 94975-0336	Client Project ID: #HE(1010902)	Date Sampled: 01/01/01
		Date Received: 01/17/01
	Client Contact: Mark Valentini	Date Extracted: 01/17/01
	Client P.O:	Date Analyzed: 01/17-01/19/01

Polychlorinated Biphenyls (PCB)

EPA method 608 and 3510 or 8080 and 3550

Lab ID	Client ID	Matrix	PCB+	% Recovery Surrogate
58116	SC1-2' (01906)	S	ND,o	94
58117	SC2-2' (01909)	S	ND,o	112
58118	SC4-2' (01914)	S	ND,o	116
58119	SC5-2' (01917)	S	ND,o	86
58120	SC6-2' (01920)	S	ND,o	80
58121	SC7-2' (01923)	S	ND,o	117
58122	SC8-2' (01927)	S	ND,o	110
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	0.5 ug/L	
		S	50 ug/kg	

* water and vapor samples are reported in ug/L, oils in mg/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP /STLC extracts in ug/L.

ND means not detected above the reporting limit

surrogate diluted out of range or surrogate coelutes with another peak

+ PCB aroclors - the first two digits of the aroclor number convey general structural information, where 12 and 10 denote biphenyl compounds with the latter having one phenyl group that is Cl-free; the last two aroclor digits specify its Cl weight %; (a) PCB aroclor 1016; (b) PCB aroclor 1221; (c) PCB aroclor 1232; (d) PCB aroclor 1242; (e) PCB aroclor 1248; (f) PCB aroclor 1254; (g) PCB aroclor 1260; (h) a lighter than water immiscible sheen is present; (i) liquid sample that contains >~5 vol. % sediment; (j)sample diluted due to high organic content; (l) florisil (EPA 3620) cleanup; (m) silica-gel (EPA 3630) cleanup; (n) elemental sulfur (EPA 3660) cleanup; (o) sulfuric acid-permanganate (EPA 3665) cleanup.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Ave. South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

QC REPORT

EPA 8080/608

Date: 01/16/01-01/17/01 Matrix: Soil

Extraction: N/A

Compound	Concentration: ug/kg				%Recovery		RPD
	Sample	MS	MSD	Amount Spiked	MS	MSD	
SampleID: 11601				Instrument: GC-5			
Surrogate1	0.000	105.0	104.0	100.00	105	104	1.0
4,4`-DDT	0.000	54.0	54.0	50.00	108	108	0.0
Endrine	0.000	56.0	57.0	50.00	112	114	1.8
Dieldrin	0.000	58.0	58.0	50.00	116	116	0.0
Aldrin	0.000	20.0	20.0	20.00	100	100	0.0
Heptachlor	0.000	23.0	23.0	20.00	115	115	0.0
Lindane	0.000	20.0	21.0	20.00	100	105	4.9
PCB	0.000	147.0	151.0	150.00	98	101	2.7

$$\%\,\text{Recovery} = \frac{(MS - Sample)}{AmountSpiked} \cdot 100$$

$$\text{RPD} = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2 \cdot 100$$

RPD means Relative Percent Deviation

Analytical Sciences
P.O. Box 750336, Petaluma, CA 94975-0336
110 Liberty Street, Petaluma, CA 94952
(707) 769-3128
Fax (707) 769-8093

CHAIN OF CUSTODY

23053 ZAS 94.doc

LAB PROJECT NUMBER:

CLIENT'S PROJECT NAME: HE (1010902)

CLIENT'S PROJECT NUMBER:

CLIENT INFORMATION

COMPANY NAME: ANALYTICAL SCIENCES
ADDRESS: P.O. BOX 750336
PETALUMA, CA 94975-0336
CONTACT: MARK VALENTINI
PHONE#: (707) 769-3128
FAX #: (707) 769-8093

TURNAROUND TIME (check one)

MOBILE LAB			
SAME DAY		24 HOURS	
48 HOURS		72 HOURS	
5 DAYS		NORMAL	X

COOLER TEMBERATURE
BLUE ICED °C

COC
PAGE 1 OF 1

ANALYSIS

ITEM	CLIENT SAMPLE I..D.	DATE SAMPLED	TIME	MATRIX	# CONT.	PRESV. YES/NO	PCB's by 8080	COMMENTS	LAB SAMPLE #
1	SC1-2'(01906)	1-8-01	1158	SOIL	1	No	X		5811
2	SC2-2' (01909)	"	1225	"	"	"	X	ALL SAMPLES MUST	5811
3	SC4-2' (01914)	"	1427	"	"	"	X	GET SULFURIC ACID	
4	SC5-2' (01917)	"	1352	"	"	"	X	CLEANUP	5811
5	SC6-2'(01920)	"	1331	"	"	"	X		5811
6	SC7-2'(01923)	"	1131	"	"	"	X		
7	SC8-2'(01927)	↓	1311	↓	↓	↓	X		58120
8									5812
9									5812
10									
11									
12									

SIGNATURES

RELINQUISHED BY: Mark A. Valentini
SIGNATURE

1/16/01
DATE

TIME

RECEIVED BY LABORATORY: Nina A. Butler
SIGNATURE

01/17/01
DATE

7:50pm
TIME

ENVIRONMENTAL BIO-SYSTEMS, INC.
Innovative Solutions for a Better Environment
P.O. Box 7171
San Jose, CA 95150-7171
(408) 979-8600

CHAIN OF CUSTODY

LAB PROJECT # 1010902

ADDITIONAL INSTRUCTIONS:

1 OF 4

✱ - RUN ALL 2' SAMPLES FOR PCBs ONLY ~~IF~~ ~~POSITIVE~~ FOR TPHd ~~AND Zn, Pb, Ni, Cd, Cr~~ ~~if positive for TPHd~~

✱✱ ADDED PER D SADOFF 1/10/01

PROJECT NUMBER: 150-561 B

CLIENT: HOLLAND ESTATE

SITE: 16301 E. 14TH ST. SAN LEANDRO, CA

ANALYSES: TOG - 5520 F; TPHd + TPHk - 8015; TPHss - 8015; BTEX + MTBE - 8020; PCBs - 8080 ✱; TPHg; HVOC - 8010 ✱✱; Zn, Pb, Ni, Cd, Cr ✱✱

SAMPLE I.D.	MATRIX	NUMBER OF CONTAINERS	COMPOSITE	TOG - 5520 F	TPHd + TPHk - 8015	TPHss - 8015	BTEX + MTBE - 8020	PCBs - 8080	TPHg	HVOC - 8010	Zn, Pb, Ni, Cd, Cr	TIME COLLECTED	TURNAROUND	LAB SAMPLE #
SC1-2'	SOIL	1		X	X	X	X	✓	X	X	X	11:58	STANDARD	01906
SC1-5'	↓	↓		X	X	X	X		X	X	X	12:02	↓	01907
SC1-12'				X	X	X	X		X	X	X	12:16		01908
SC2-2'				X	X	X	X	✓	X	X	X	12:25		01909
SC2-10'				X	X	X	X		X	X	X	12:37		01910
SC3-2'				X	X	X	X	NO	X	X	X	12:46		01911
SC3-5'				X	X	X	X		X	X	X	12:51		01912
SC3-10'				X	X	X	X		X	X	X	12:57		01913
SC4-2'				X	X	X	X	✓	X	X	X	14:27		01914
SC4-5'	✓	✓		X	X	X	X		X	X	X	14:33		01915
SC4-9'				X	X	X	X		X	X	X	1439	✓	01916

DATE SAMPLING COMPLETED: 1/8/01

SAMPLING PERFORMED BY: DAVE A. SADOFF

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Dave A. Sadoff	1/9/01	10:55	Linda Kadama	01/9/01	10:55

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

ENVIRONMENTAL BIO-SYSTEMS, INC.
Innovative Solutions for a Better Environment
P.O. Box 7171
San Jose, CA 95150-7171
(408) 979-8600

LAB PROJECT # 1010902

CHAIN OF COUSTODY

ADDITIONAL INSTRUCTIONS:

* SEE PAGE 1 NOTE

** ADDED PER D. SADOFF 1/10/01

PROJECT NUMBER: 150-561 B
CLIENT: HOLLAND ESTATE
SITE: 16301 E. 14TH ST. SAN LEANDRO, CA

ANALYSES: TOG - 5520 F; TPHd + TPHk - 8015; TPHss - 8015; BTEX + MTBE - 8020; PCBS - 8080 *; TPHg; HVOC - 8010 **; Zn, Pb, Ni, Cd, Cr **

SAMPLE I.D.	MATRIX	NUMBER OF CONTAINERS	COMPOSITE	TOG - 5520 F	TPHd + TPHk - 8015	TPHss - 8015	BTEX + MTBE - 8020	PCBS - 8080 *	TPHg	HVOC - 8010 **	Zn, Pb, Ni, Cd, Cr **	TIME COLLECTED	TURNAROUND	LAB SAMPLE #
SC5-2'	SOIL	1		X	X	X	X	✓	X	X	X	13:52	STANDARD	01917
SC5-5'	↓	↓		↓	↓	↓	↓		↓	↓	↓	13:55	↓	01918
SC5-10'												14:01		01919
SC6-2'								✓				13:31		01920
SC6-5'												13:36		01921
SC6-9'												13:44		01922
SC7-2'								✓				11:31		01923
SC7-5'												11:40		01924
SC7-9.5'				✓	✓	✓	✓		✓	✓	✓	11:43	✓	01925
SC7-12'	✓	✓		✓	✓	✓	✓		✓			11:46	HOLD	01926

DATE SAMPLING COMPLETED: 1/8/01
SAMPLING PERFORMED BY: DAVE A. SADOFF

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	1/9/01	10:55	[signature]	01/9/01	10:55

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #	

LAB PROJECT # 1010902

ENVIRONMENTAL BIO-SYSTEMS, INC.
Innovative Solutions for a Better Environment
P.O. Box 7171
San Jose, CA 95150-7171
(408) 979-8600

CHAIN OF CUSTODY

ADDITIONAL INSTRUCTIONS:

3 OF 4

* - SEE PAGE 1 NOTE
- DO NOT RUN SC21 OR SC22 SAMPLES FOR PCBs

** ADDED PER D. SADOFF 1/10/01

PROJECT NUMBER	150-561B
CLIENT	HOLLAND ESTATE
SITE	16301 E. 14TH ST. SAN LEANDRO, CA

ANALYSES

SAMPLE I.D.	MATRIX	NUMBER OF CONTAINERS	COMPOSITE	TOG-5520F	TPHd+TPHk-8015	TPHgs-8015	BTEX+MTBE-8020	PCBs-8080 *	TPHg	HVOC-8010 **	Zn, Pb, Ni, Cd, Cr **	TIME COLLECTED	TURNAROUND	LAB SAMPLE #
SC8-2'	SOIL	1		X	X	X	X	✓	X	X	X	13:11	STANDARD	01927
SC8-5'	↓	↓		X	X	X	X		X	X	X	13:16	↓	01928
SC8-10'	↓	↓		X	X	X	X		X	X	X	13:22	↓	01929
SC2-5'	SOIL	1		X	X	X	X		X	X	X	12:28	↓	01930
SC21-2'	SOIL	1			X	X	X	No*	X			15:18	↓	01931
SC21-9'	↓	↓			X	X	X		X			15:31	↓	01932
SC22-2'	↓	↓			X	X	X	No*	X			14:43	↓	01933
SC22-5'	↓	↓			X	X	X		X			14:50	↓	01934
SC22-9'	↓	↓			X	X	X		X			14:57	↓	01935

DATE SAMPLING COMPLETED: 1/8/01

SAMPLING PERFORMED BY: DALE A. SADOFF

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	1/9/01	10:55	[signature]	01/9/01	10:55

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #	

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Innovative Solutions for a Better Environment
P.O. Box 7171
San Jose, CA 95150-7171
(408) 979-8600

CHAIN OF CUSTODY

LAB PROJECT # 1010902

ADDITIONAL INSTRUCTIONS:

4 OF 4

PROJECT NUMBER	150-561B
CLIENT	HOLLAND ESTATE
SITE	16301 E. 14TH ST.
	SAN LEANDRO, CA

SAMPLE I.D.	MATRIX	NUMBER OF CONTAINERS	COMPOSITE	ANALYSES: TPH(d)+TPH(k) - SW15	ANALYSES: TPH(g) - SW15	ANALYSES: BTEX+MTBE - SW20	ANALYSES: TPH - 418.1	TIME COLLECTED	TURNAROUND	LAB SAMPLE #
SC23-2'	SOIL	1		X	X	X	X	15:40	STANDARD	01936
SC23-5'								15:46		01937
SC23-9'								15:52		01938
SC24-2'								16:02		01939
SC24-9'								16:11		01940
SC24-5'								16:05		01941

DATE SAMPLING COMPLETED: 1/8/01

SAMPLING PERFORMED BY:

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	1/9/01	10:55	[signature]	01/9/01	10:55
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #	

Analytical Sciences

January 29, 2001

Dave Sadoff
Environmental Bio-Systems, Inc.
P.O. Box 7171
San Jose, CA 95150-7171

Dear Dave,

Enclosed you will find Analytical Sciences' final report 1011106 for your Holland Estate – 150-561B project site. As required by the California Department of Health Services, the letterhead copy of the report for work performed by the subcontracted laboratory is included. An invoice for this work is enclosed.

Should you or your client have any questions regarding this report please contact me at your convenience. We appreciate you selecting Analytical Sciences for this work and look forward to serving your analytical chemistry needs on projects in the future.

Sincerely,

Analytical Sciences

Mark A. Valentini

PO Box 750336
Petaluma, CA 94975-0336
Telephone: (707) 769-3128

110 Liberty Street
Petaluma, CA 94952
Fax: (707) 769-8093

Analytical Sciences

Report Date: January 29, 2001

Environmental Bio-Systems, Inc.
P.O. Box 7171
San Jose, CA 95150-7171
ATTN: Dave Sadoff

LABORATORY REPORT

Project Name: **Holland Estate** **150-561B**

Lab Project Number: **1011106**

This 7 page report of analytical data has been reviewed and approved for release.

Mark A. Valentini

Mark A. Valentini, Ph.D.
Laboratory Director

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Petaluma, CA 94975-0336
Telephone: (707) 769-3128

110 Liberty Street
Petaluma, CA 94952
Fax: (707) 769-8093

Total Oil and Grease in Soil

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02029	SC9-2'	Total Oil & Grease	260	20

Date Sampled: 01/11/01
Date Received: 01/11/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1615
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02030	SC9-5'	Total Oil & Grease	110	20

Date Sampled: 01/11/01
Date Received: 01/11/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1615
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02031	SC9-9'	Total Oil & Grease	4,500	200

Date Sampled: 01/11/01
Date Received: 01/11/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1615
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02032	SC10-2'	Total Oil & Grease	180	20

Date Sampled: 01/11/01
Date Received: 01/11/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1615
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab Project #: 1011106

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02033	SC10-9'	Total Oil & Grease	3,500	200

Date Sampled: 01/11/01
Date Received: 01/11/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1615
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02034	SC11-2'	Total Oil & Grease	ND	20

Date Sampled: 01/11/01
Date Received: 01/11/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1615
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02035	SC11-5'	Total Oil & Grease	38	20

Date Sampled: 01/11/01
Date Received: 01/11/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1615
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02036	SC11-9'	Total Oil & Grease	2,100	200

Date Sampled: 01/11/01
Date Received: 01/11/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1615
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab Project #: 1011106

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02037	SC12-2'	Total Oil & Grease	7,300	200

Date Sampled: 01/11/01
Date Received: 01/11/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1615
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02038	SC12-5'	Total Oil & Grease	8,900	200

Date Sampled: 01/11/01
Date Received: 01/11/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1615
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02039	SC12-9'	Total Oil & Grease	29,000	500

Date Sampled: 01/11/01
Date Received: 01/11/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1615
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02040	SC13-2'	Total Oil & Grease	44,000	500

Date Sampled: 01/11/01
Date Received: 01/11/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1615
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab Project #: 1011106

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02041	SC13-5'	Total Oil & Grease	190	20

Date Sampled: 01/11/01
Date Received: 01/11/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1615
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02042	SC13-9'	Total Oil & Grease	8,800	200

Date Sampled: 01/11/01
Date Received: 01/11/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1615
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02043	SC14-2'	Total Oil & Grease	240	20

Date Sampled: 01/11/01
Date Received: 01/11/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1615
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02044	SC14-5'	Total Oil & Grease	22,000	500

Date Sampled: 01/11/01
Date Received: 01/11/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1615
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab Project #: 1011106

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02045	SC14-8'	Total Oil & Grease	10,000	500

Date Sampled: 01/11/01
Date Received: 01/11/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1615
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab Project #: 1011106

CA Lab Accreditation #: 2303

LABORATORY
QUALITY ASSURANCE REPORT

QC Batch #: 1615 **Lab Project #:** 1011106

Sample ID	Compound	Result (mg/kg)
MB	TOG	ND

Sample #	Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.
02030	CMS	TOG	475 ①	429	85.1

Sample #	Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.	RPD
02030	CMSD	TOG	597 ①	546	89.2	1.5

① Sample 02030 contained a TOG level of 110 mg/kg prior to the addition of the QC spike. This was taken into account in the calculation of the % recovery.

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

Analytical Sciences P.O. Box 750336 Petaluma, CA 94975-0336	Client Project ID: #HE(101100L)	Date Sampled: 01/09/01
		Date Received: 01/17/01
	Client Contact: Mark Valentini	Date Extracted: 01/17/01
	Client P.O:	Date Analyzed: 01/17-01/23/01

Polychlorinated Biphenyls (PCB)

EPA method 608 and 3510 or 8080 and 3550

Lab ID	Client ID	Matrix	PCB+	% Recovery Surrogate
58126	SC9-2' (02029)	S	ND,o	115
58127	SC9-5' (02030)	S	ND,o	117
58128	SC9-9' (02031)	S	160,g,o	116
58129	SC10-2' (02032)	S	ND,o	116
58130	SC10-9' (02033)	S	ND,o	97
58131	SC11-2' (02034)	S	ND,o	111
58132	SC11-5' (02035)	S	ND,o	111
58133	SC11-9' (02036)	S	250,g,o	84
58134	SC12-2' (02037)	S	ND<125,j,o	95
58135	SC12-5' (02038)	S	ND<125,j,o	98
58136	SC12-9' (02039)	S	ND,o	118
58137	SC13-2' (02040)	S	240,g,o	118
58138	SC13-5' (02041)	S	ND,o	96
58139	SC13-9' (02042)	S	ND<125,j,o	95
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	0.5 ug/L	
		S	50 ug/kg	

* water and vapor samples are reported in ug/L, oils in mg/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP /STLC extracts in ug/L.

ND means not detected above the reporting limit

surrogate diluted out of range or surrogate coelutes with another peak

+ PCB aroclors - the first two digits of the aroclor number convey general structural information, where 12 and 10 denote biphenyl compounds with the latter having one phenyl group that is Cl-free; the last two aroclor digits specify its Cl weight %; (a) PCB aroclor 1016; (b) PCB aroclor 1221; (c) PCB aroclor 1232; (d) PCB aroclor 1242; (e) PCB aroclor 1248; (f) PCB aroclor 1254; (g) PCB aroclor 1260; (h) a lighter than water immiscible sheen is present; (i) liquid sample that contains >~5 vol. % sediment; (j)sample diluted due to high organic content; (l) florisil (EPA 3620) cleanup; (m) silica-gel (EPA 3630) cleanup; (n) elemental sulfur (EPA 3660) cleanup; (o) sulfuric acid-permanganate (EPA 3665) cleanup.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

Analytical Sciences P.O. Box 750336 Petaluma, CA 94975-0336	Client Project ID: #HE(1011006)	Date Sampled: 01/11/01
		Date Received: 01/17/01
	Client Contact: Mark Valentini	Date Extracted: 01/17/01
	Client P.O:	Date Analyzed: 01/17-01/23/01

Polychlorinated Biphenyls (PCB)

EPA method 608 and 3510 or 8080 and 3550

Lab ID	Client ID	Matrix	PCB*	% Recovery Surrogate
58140	SC14-2' (02043)	S	ND,o	114
58141	SC14-5' (02044)	S	99,g,o	120
58142	SC14-8' (02045)	S	ND<200,j,o	97
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	0.5 ug/L	
		S	50 ug/kg	

* water and vapor samples are reported in ug/L, oils in mg/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP /STLC extracts in ug/L.

ND means not detected above the reporting limit

surrogate diluted out of range or surrogate coelutes with another peak

* PCB aroclors - the first two digits of the aroclor number convey general structural information, where 12 and 10 denote biphenyl compounds with the latter having one phenyl group that is Cl-free; the last two aroclor digits specify its Cl weight %; (a) PCB aroclor 1016; (b) PCB aroclor 1221; (c) PCB aroclor 1232; (d) PCB aroclor 1242; (e) PCB aroclor 1248; (f) PCB aroclor 1254; (g) PCB aroclor 1260; (h) a lighter than water immiscible sheen is present; (i) liquid sample that contains >~5 vol. % sediment; (j)sample diluted due to high organic content; (l) florisil (EPA 3620) cleanup; (m) silica-gel (EPA 3630) cleanup; (n) elemental sulfur (EPA 3660) cleanup; (o) sulfuric acid-permanganate (EPA 3665) cleanup.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Ave. South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

QC REPORT

EPA 8080/608

Date: 01/16/01-01/17/01 Matrix: Soil

Extraction: N/A

Compound	Concentration: ug/kg				%Recovery		RPD
	Sample	MS	MSD	Amount Spiked	MS	MSD	
SampleID: 11601					Instrument: GC-5		
Surrogate1	0.000	105.0	104.0	100.00	105	104	1.0
4,4`-DDT	0.000	54.0	54.0	50.00	108	108	0.0
Endrine	0.000	56.0	57.0	50.00	112	114	1.8
Dieldrin	0.000	58.0	58.0	50.00	116	116	0.0
Aldrin	0.000	20.0	20.0	20.00	100	100	0.0
Heptachlor	0.000	23.0	23.0	20.00	115	115	0.0
Lindane	0.000	20.0	21.0	20.00	100	105	4.9
PCB	0.000	147.0	151.0	150.00	98	101	2.7

$$\%\,\text{Recovery} = \frac{(MS - Sample)}{AmountSpiked} \cdot 100$$

$$RPD = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2 \cdot 100$$

RPD means Relative Percent Deviation

Analytical Sciences
P.O. Box 750336, Petaluma, CA 94975-0336
110 Liberty Street, Petaluma, CA 94952
(707) 769-3128
Fax (707) 769-8093

CHAIN OF CUSTODY

24055 ZAS 96.20c

LAB PROJECT NUMBER:
CLIENT'S PROJECT NAME: HE (10/11/06)
CLIENT'S PROJECT NUMBER:

CLIENT INFORMATION

COMPANY NAME: ANALYTICAL SCIENCES
ADDRESS: P.O. BOX 750336
PETALUMA, CA 94975-0336
CONTACT: MARK VALENTINI
PHONE#: (707) 769-3128
FAX #: (707) 769-8093

TURNAROUND TIME (check one)

MOBILE LAB ____
SAME DAY ____ 24 HOURS ____
48 HOURS ____ 72 HOURS ____
5 DAYS ____ NORMAL X

COOLER TEMBERATURE
BLUE ICED °C

COC
PAGE 1 OF 2

ITEM	CLIENT SAMPLE I..D.	DATE SAMPLED	TIME	MATRIX	# CONT.	PRESV. YES/NO	ANALYSIS: CAM 17 Metals	COMMENTS	LAB
1	SC9-2' (02029)	1-11-01	1044	SOIL	1	NO	X	ALL SAMPLES NEXT	58126
2	SC9-5' (02030)	"	1049	"	"	"	X	GET SULFUR(TEN)	58127
3	SC9-9' (02031)	"	1053	"	"	"	X	CLEANUP	58128
4	SC10-2' (02032)	"	1100	"	"	"	X		5812
5	SC10-9' (02033)	"	1107	"	"	"	X		5813
6	SC11-2' (02034)	"	1025	"	"	"	X		5813
7	SC11-5' (02035)	"	1028	"	"	"	X		5813
8	SC11-9' (02036)	"	1031	"	"	"	X		5813
9	SC12-2' (02037)	"	1000	"	"	"	X		5813
10	SC12-5' (02038)	"	1016	"	"	"	X		5813
11	SC12-9' (02039)	"	1017	"	"	"	X		5813
12	SC13-2' (02040	↓	0947	↓	↓	↓	X		5813

SIGNATURES

RELINQUISHED BY: Mark A. Valentini — SIGNATURE
1/16/01 — DATE / TIME

RECEIVED BY LABORATORY: Nina A Butler — SIGNATURE
01/17/01 — DATE
7:15 pm — TIME

Analytical Sciences
P.O. Box 750336, Petaluma, CA 94975-0336
110 Liberty Street, Petaluma, CA 94952
(707) 769-3128
Fax (707) 769-8093

CHAIN OF CUSTODY

LAB PROJECT NUMBER:
CLIENT'S PROJECT NAME: HE (10/1/06)
CLIENT'S PROJECT NUMBER:

CLIENT INFORMATION

COMPANY NAME: ANALYTICAL SCIENCES
ADDRESS: P.O. BOX 750336
PETALUMA, CA 94975-0336
CONTACT: MARK VALENTINI
PHONE#: (707) 769-3128
FAX #: (707) 769-8093

TURNAROUND TIME (check one)

MOBILE LAB ____
SAME DAY ____ 24 HOURS ____
48 HOURS ____ 72 HOURS ____
5 DAYS ____ NORMAL X

COOLER TEMBERATURE
BLUE ICED °C

COC
PAGE 2 OF 2

ANALYSIS

ITEM	CLIENT SAMPLE I..D.	DATE SAMPLED	TIME	MATRIX	# CONT.	PRESV. YES/NO	PCB's by 8082											COMMENTS	LAB SAMPLE
1	SC13-5'(02041)	1-1-01	0955	Soil	1	No	X												58138
2	SC13-9'(02042)	"	1006	"	"	"	X											ALL SAMPLES MUST	58139
3	SC14-2'(02043)	"	0925	"	"	"	X											GET SULFURIC ACID	58140
4	SC14-5'(02044)	"	0931	"	"	"	X											CLEANUP	58141
5	SC14-8'(02045)	↓	0934	↓	↓	↓	X												5814
6																			
7																			
8																			
9																			
10																			
11																			
12																			

SIGNATURES

RELINQUISHED BY: Mark A. Valentini — SIGNATURE
1/16/07 — DATE / TIME

RECEIVED BY LABORATORY: Nina A Butler — SIGNATURE
01/17/01 — DATE
7:15pm — TIME

Analytical Sciences
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(707) 769-3128
Fax (707) 769-8093

CHAIN OF CUSTODY

LAB PROJECT NUMBER:
CLIENT'S PROJECT NAME: HE (101106)
CLIENT'S PROJECT NUMBER:

CLIENT INFORMATION

COMPANY NAME: ANALYTICAL SCIENCES
ADDRESS: P.O. BOX 750336
PETALUMA, CA 94975-0336
CONTACT: MARK VALENTINI
PHONE#: (707) 769-3128
FAX #: (707) 769-8093

TURNAROUND TIME (check one)

MOBILE LAB
SAME DAY
24 HOURS
48 HOURS
72 HOURS
5 DAYS
NORMAL X

COOLER TEMBERATURE
BLUE ICED °C

COC
PAGE 2 OF 2

ANALYSIS

ITEM	CLIENT SAMPLE I..D.	DATE SAMPLED	TIME	MATRIX	# CONT.	PRESV. YES/NO	PCB's 8082	COMMENTS	LAB SAMPLE
1	SC13-5'(0204)	1-11-01	0955	SOIL	1	No	X	ALL SAMPLES MUST	58138
2	SC13-9'(0204)	"	1006	"	"	"	X	GET SULFURIC ACID	58139
3	SC14-2'(0204)	"	0925	"	"	"	X	CLEANUP	58140
4	SC14-5'(0204)	"	0931	"	"	"	X		58141
5	SC14-8'(0204)	"	0934	"	"	"	X		5814
6									
7									
8									
9									
10									
11									
12									

SIGNATURES

RELINQUISHED BY: Mark A. Valentini — SIGNATURE
1/16/01 — DATE
TIME
RECEIVED BY LABORATORY: Tina A Butler — SIGNATURE
01/17/01 — DATE
719pm — TIME

Analytical Sciences
P.O. Box 750336, Petaluma, CA 94975-0336
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CHAIN OF CUSTODY

24055 ZAS 96.doc

LAB PROJECT NUMBER:
CLIENT'S PROJECT NAME: HE (10/11/06)
CLIENT'S PROJECT NUMBER:

CLIENT INFORMATION

COMPANY NAME: ANALYTICAL SCIENCES
ADDRESS: P.O. BOX 750336
PETALUMA, CA 94975-0336
CONTACT: MARK VALENTINI
PHONE#: (707) 769-3128
FAX #: (707) 769-8093

TURNAROUND TIME (check one)

MOBILE LAB
SAME DAY
24 HOURS
48 HOURS
72 HOURS
5 DAYS
NORMAL X

COOLER TEMBERATURE
BLUE ICED °C

COC
PAGE 1 OF 2

ITEM	CLIENT SAMPLE I..D.	DATE SAMPLED	TIME	MATRIX	# CONT.	PRESV. YES/NO	ANALYSIS: CAM's by 6010	COMMENTS	LAB
1	SC9-2' (02029)	1-11-01	1044	SOIL	1	NO	X	ALL SAMPLES MUST	58126
2	SC9-5' (02030)	"	1049	"	"	"	X	GET SULFUCIC ACID	58127
3	SC9-9' (02031)	"	1053	"	"	"	X	CLEANUP	58128
4	SC10-2' (02032)	"	1100	"	"	"	X		58129
5	SC10-9' (02033)	"	1107	"	"	"	X		58130
6	SC11-2' (02034)	"	1025	"	"	"	X		58131
7	SC11-5' (02035)	"	1028	"	"	"	X		58132
8	SC11-9' (02036)	"	1031	"	"	"	X		58133
9	SC12-2' (02037)	"	1000	"	"	"	X		58134
10	SC12-5' (02038)	"	1016	"	"	"	X		58135
11	SC12-9' (02039)	"	1017	"	"	"	X		58136
12	SC13-2' (02040	↓	0947	↓	↓	↓	X		58137

SIGNATURES

RELINQUISHED BY: Mark A. Valentini — SIGNATURE
1/16/01 — DATE
TIME

RECEIVED BY LABORATORY: Nina A. Butler — SIGNATURE
01/17/01 — DATE
745 pm — TIME

LAB PROJECT # 1011106

ENVIRONMENTAL BIO-SYSTEMS, INC.
Innovative Solutions for a Better Environment
P.O. Box 7171
San Jose, CA 95150-7171
(408) 979-8600

CHAIN OF CUSTODY

ADDITIONAL INSTRUCTIONS:

1 OF 2

TAKE SAMPLE FROM MIDDLE OF TUBE

PROJECT NUMBER	
CLIENT	HOLLAND ESTATE
SITE	16301 E. 14TH ST. SAN LEANDRO, CA

SAMPLE I.D.	MATRIX	NUMBER OF CONTAINERS	COMPOSITE	ANALYSES: TPH-5520 F	ANALYSES: 8080 PCB's	TIME COLLECTED	TURNAROUND	LAB SAMPLE #
SC9-2'	SOIL	1		X	X	10:44	STANDARD	02029
SC9-5'						10:49		02030
SC9-9'						10:53		02031
SC10-2'						11:00		02032
SC10-9'						11:07		02033
SC11-2'						10:25		02034
SC11-5'						10:28		02035
SC11-9'						10:31		02036
SC12-2'						10:00		02037
SC12-5'						10:10		02038
SC12-9'						10:17		02039

DATE SAMPLING COMPLETED: 01/11/01

SAMPLING PERFORMED BY: DAVE A. SADOFF

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Dave A. Sadoff	1/11/01	12:37	Linda Kadrmas	01/11/01	12:37
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #	

LAB PROJECT # 1011106

ENVIRONMENTAL BIO-SYSTEMS, INC.
Innovative Solutions for a Better Environment
P.O. Box 7171
San Jose, CA 95150-7171
(408) 979-8600

CHAIN OF CUSTODY

ADDITIONAL INSTRUCTIONS:

2 OF 2

TAKE SAMPLE FROM MIDDLE OF TUBE

PROJECT NUMBER

CLIENT: HOLLAND ESTATE

SITE: 16301 E. 14TH ST.
SAN LEANDRO, CA

SAMPLE I.D.	MATRIX	NUMBER OF CONTAINERS	COMPOSITE	ANALYSES: TPH-5520F	ANALYSES: 8080-PCB's	TIME COLLECTED	TURNAROUND	LAB SAMPLE #
SC13-2'	SOIL	1		X	X	9:47	STANDARD	02040
SC13-5'	"	"		X	X	9:55	"	02041
SC13-9'	"	"		X	X	10:02	"	02042
SC14-2'	"	"		X	X	9:25	"	02043
SC14-5'	"	"		X	X	9:31	"	02044
SC14-8'	"	"		X	X	9:34	"	02045

DATE SAMPLING COMPLETED: 1/11/01

SAMPLING PERFORMED BY: DAVE A. SADOFF

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Dave A. Sadoff	1/11/01	12:37	Linda Kadrmas	01/11/01	12:37

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

Analytical Sciences

January 29, 2001

Dave Sadoff
Environmental Bio-Systems, Inc.
P.O. Box 7171
San Jose, CA 95150-7171

Dear Dave,

Enclosed you will find Analytical Sciences' final report 1011001 for your Holland Estate – 150-561B project site. As required by the California Department of Health Services, the letterhead copy of the report for work performed by the subcontracted laboratory is included. An invoice for this work is enclosed.

Should you or your client have any questions regarding this report please contact me at your convenience. We appreciate you selecting Analytical Sciences for this work and look forward to serving your analytical chemistry needs on projects in the future.

Sincerely,

Analytical Sciences

Mark A. Valentini

PO Box 750336
Petaluma, CA 94975-0336
Telephone: (707) 769-3128

110 Liberty Street
Petaluma, CA 94952
Fax: (707) 769-8093

Analytical Sciences

Report Date: January 26, 2001

Environmental Bio-Systems, Inc.
P.O. Box 7171
San Jose, CA 95150-7171
ATTN: Dave Sadoff

LABORATORY REPORT

Project Name: **Holland Estate 150-561B**

Lab Project Number: **1011001**

This 66 page report of analytical data has been reviewed and approved for release.

Mark A. Valentini

Mark A. Valentini, Ph.D.
Laboratory Director

PO Box 750336
Petaluma, CA 94975-0336
Telephone: (707) 769-3128

110 Liberty Street
Petaluma, CA 94952
Fax: (707) 769-8093

TPH Gasoline in Soil

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01942	SC15-2'	TPH/Gasoline	ND	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	ND	0.015

Date Sampled: 01/09/01 Date Analyzed: 01/19/01 QC Batch #: 1621
Date Received: 01/10/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01943	SC15-5'	TPH/Gasoline	ND	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	ND	0.015

Date Sampled: 01/09/01 Date Analyzed: 01/19/01 QC Batch #: 1621
Date Received: 01/10/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01944	SC15-9'	TPH/Gasoline	230	50
		MTBE	ND	5.0
		Benzene	ND	1.0
		Toluene	ND	1.0
		Ethyl Benzene	ND	1.0
		Xylenes	ND	3.0

Date Sampled: 01/09/01 Date Analyzed: 01/12/01, 01/18/01 QC Batch #: 1621
Date Received: 01/10/01 Method: EPA 8015M/8020

Lab Project #: 1011001

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01945	SC16-2'	TPH/Gasoline	1.6	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	0.022	0.015

Date Sampled: 01/09/01
Date Received: 01/10/01
Date Analyzed: 01/12/01, 01/19/01
Method: EPA 8015M/8020
QC Batch #: 1621

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01946	SC16-5'	TPH/Gasoline	1.5	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	0.028	0.015

Date Sampled: 01/09/01
Date Received: 01/10/01
Date Analyzed: 01/19/01
Method: EPA 8015M/8020
QC Batch #: 1621

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01947	SC16-8.5'	TPH/Gasoline	5,400	200
		MTBE	ND	10
		Benzene	ND	2.0
		Toluene	3.0	2.0
		Ethyl Benzene	17	2.0
		Xylenes	110	6.0

Date Sampled: 01/09/01
Date Received: 01/10/01
Date Analyzed: 01/12/01, 01/18/01
Method: EPA 8015M/8020
QC Batch #: 1621

Lab Project #: 1011001

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01948	SC17-2'	TPH/Gasoline	1,200	50
		MTBE	ND	5.0
		Benzene	ND	1.0
		Toluene	ND	1.0
		Ethyl Benzene	1.4	1.0
		Xylenes	3.8	3.0

Date Sampled: 01/09/01 Date Analyzed: 01/12/01, 01/16/01 QC Batch #: 1621
Date Received: 01/10/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01949	SC17-5'	TPH/Gasoline	18	2.0
		MTBE	ND	0.05
		Benzene	ND	0.01
		Toluene	ND	0.01
		Ethyl Benzene	ND	0.01
		Xylenes	0.03	0.03

Date Sampled: 01/09/01 Date Analyzed: 01/12/01, 01/22/01 QC Batch #: 1621
Date Received: 01/10/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01950	SC17-8'	TPH/Gasoline	5,300	200
		MTBE	ND	10
		Benzene	ND	2.0
		Toluene	5.8	2.0
		Ethyl Benzene	9.2	2.0
		Xylenes	68	6.0

Date Sampled: 01/09/01 Date Analyzed: 01/12/01, 01/17/01 QC Batch #: 1621
Date Received: 01/10/01 Method: EPA 8015M/8020

Lab Project #: 1011001

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01951	SC18-2'	TPH/Gasoline	3,800	200
		MTBE	ND	10
		Benzene	ND	2.0
		Toluene	3.6	2.0
		Ethyl Benzene	4.7	2.0
		Xylenes	37	6.0

Date Sampled: 01/09/01 Date Analyzed: 01/12/01, 01/17/01 QC Batch #: 1621
Date Received: 01/10/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01952	SC18-5'	TPH/Gasoline	7,200	200
		MTBE	ND	10
		Benzene	ND	2.0
		Toluene	7.6	2.0
		Ethyl Benzene	13	2.0
		Xylenes	97	6.0

Date Sampled: 01/09/01 Date Analyzed: 01/12/01, 01/17/01 QC Batch #: 1621
Date Received: 01/10/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01953	SC18-8'	TPH/Gasoline	8.1	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	0.020	0.005
		Xylenes	0.12	0.015

Date Sampled: 01/09/01 Date Analyzed: 01/19/01 QC Batch #: 1621
Date Received: 01/10/01 Method: EPA 8015M/8020

Lab Project #: 1011001

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01954	SC19-2'	TPH/Gasoline	ND	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	ND	0.015

Date Sampled: 01/09/01 Date Analyzed: 01/19/01 QC Batch #: 1621
Date Received: 01/10/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01955	SC19-5'	TPH/Gasoline	1,200	50
		MTBE	ND	5.0
		Benzene	ND	1.0
		Toluene	ND	1.0
		Ethyl Benzene	ND	1.0
		Xylenes	ND	3.0

Date Sampled: 01/09/01 Date Analyzed: 01/12/01, 01/17/01 QC Batch #: 1621
Date Received: 01/10/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01956	SC19-8'	TPH/Gasoline	600	50
		MTBE	ND	5.0
		Benzene	ND	1.0
		Toluene	ND	1.0
		Ethyl Benzene	ND	1.0
		Xylenes	ND	3.0

Date Sampled: 01/09/01 Date Analyzed: 01/12/01, 01/17/01 QC Batch #: 1621
Date Received: 01/10/01 Method: EPA 8015M/8020

Lab Project #: 1011001

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01957	SC20-2'	TPH/Gasoline	ND	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	ND	0.015

Date Sampled: 01/09/01 Date Analyzed: 01/19/01 QC Batch #: 1622
Date Received: 01/10/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01958	SC20-5'	TPH/Gasoline	ND	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	ND	0.015

Date Sampled: 01/09/01 Date Analyzed: 01/19/01 QC Batch #: 1622
Date Received: 01/10/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01959	SC20-9'	TPH/Gasoline	4.3	2.0
		MTBE	ND	0.05
		Benzene	ND	0.01
		Toluene	ND	0.01
		Ethyl Benzene	ND	0.01
		Xylenes	ND	0.03

Date Sampled: 01/09/01 Date Analyzed: 01/19/01 QC Batch #: 1622
Date Received: 01/10/01 Method: EPA 8015M/8020

Lab Project #: 1011001 CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01960	SC36-2'	TPH/Gasoline	3.4	1.0
		MTBE	ND	0.025
		Benzene	0.007	0.005
		Toluene	0.011	0.005
		Ethyl Benzene	0.025	0.005
		Xylenes	0.084	0.015

Date Sampled: 01/09/01 Date Analyzed: 01/19/01 QC Batch #: 1622
Date Received: 01/10/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01961	SC36-5'	TPH/Gasoline	11	2.0
		MTBE	ND	0.05
		Benzene	0.025	0.01
		Toluene	0.011	0.01
		Ethyl Benzene	0.022	0.01
		Xylenes	0.054	0.03

Date Sampled: 01/09/01 Date Analyzed: 01/12/01, 01/19/01 QC Batch #: 1622
Date Received: 01/10/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01962	SC36-8'	TPH/Gasoline	1,200	25
		MTBE	ND	2.5
		Benzene	5.2	0.5
		Toluene	2.6	0.5
		Ethyl Benzene	22	0.5
		Xylenes	47	1.5

Date Sampled: 01/09/01 Date Analyzed: 01/12/01, 01/18/01 QC Batch #: 1622
Date Received: 01/10/01 Method: EPA 8015M/8020

Lab Project #: 1011001 CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01963	SC37-2'	TPH/Gasoline	ND	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	ND	0.015

Date Sampled: 01/09/01 Date Analyzed: 01/22/01 QC Batch #: 1622
Date Received: 01/10/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01964	SC37-5'	TPH/Gasoline	ND	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	ND	0.015

Date Sampled: 01/09/01 Date Analyzed: 01/19/01 QC Batch #: 1622
Date Received: 01/10/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01965	SC37-9'	TPH/Gasoline	1,900	50
		MTBE	ND	5.0
		Benzene	3.9	1.0
		Toluene	3.5	1.0
		Ethyl Benzene	4.0	1.0
		Xylenes	11	3.0

Date Sampled: 01/09/01 Date Analyzed: 01/12/01, 01/16/01 QC Batch #: 1622
Date Received: 01/10/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01966	SC38-2'	TPH/Gasoline	ND	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	ND	0.015

Date Sampled: 01/09/01
Date Received: 01/10/01
Date Analyzed: 01/19/01
Method: EPA 8015M/8020
QC Batch #: 1622

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01967	SC38-5'	TPH/Gasoline	ND	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	ND	0.015

Date Sampled: 01/09/01
Date Received: 01/10/01
Date Analyzed: 01/19/01
Method: EPA 8015M/8020
QC Batch #: 1622

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01968	SC38-9'	TPH/Gasoline	110	10
		MTBE	ND	0.50
		Benzene	ND	0.10
		Toluene	ND	0.10
		Ethyl Benzene	ND	0.10
		Xylenes	0.56	0.30

Date Sampled: 01/09/01
Date Received: 01/10/01
Date Analyzed: 01/15/01, 01/18/01
Method: EPA 8015M/8020
QC Batch #: 1622

Lab Project #: 1011001

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01969	SC39-2'	TPH/Gasoline	ND	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	ND	0.015

Date Sampled: 01/09/01 Date Analyzed: 01/19/01 QC Batch #: 1622
Date Received: 01/10/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01970	SC39-5'	TPH/Gasoline	ND	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	ND	0.015

Date Sampled: 01/09/01 Date Analyzed: 01/19/01 QC Batch #: 1622
Date Received: 01/10/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01971	SC39-8.5'	TPH/Gasoline	2.8	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	0.029	0.015

Date Sampled: 01/09/01 Date Analyzed: 01/15/01, 01/20/01 QC Batch #: 1622
Date Received: 01/10/01 Method: EPA 8015M/8020

Lab Project #: 1011001 CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01972	SC40-2'	TPH/Gasoline	ND	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	ND	0.015

Date Sampled: 01/09/01 Date Analyzed: 01/19/01 QC Batch #: 1622
Date Received: 01/10/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01973	SC40-5'	TPH/Gasoline	ND	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	ND	0.015

Date Sampled: 01/09/01 Date Analyzed: 01/19/01 QC Batch #: 1622
Date Received: 01/10/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01974	SC40-9'	TPH/Gasoline	450	50
		MTBE	ND	5.0
		Benzene	ND	1.0
		Toluene	1.1	1.0
		Ethyl Benzene	1.1	1.0
		Xylenes	3.2	3.0

Date Sampled: 01/09/01 Date Analyzed: 01/15/01, 01/19/01 QC Batch #: 1622
Date Received: 01/10/01 Method: EPA 8015M/8020

Lab Project #: 1011001 CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01975	SC41-2'	TPH/Gasoline	ND	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	ND	0.015

Date Sampled: 01/09/01 Date Analyzed: 01/19/01 QC Batch #: 1622
Date Received: 01/10/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01976	SC41-5'	TPH/Gasoline	ND	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	ND	0.015

Date Sampled: 01/09/01 Date Analyzed: 01/19/01 QC Batch #: 1622
Date Received: 01/10/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01977	SC41-8'	TPH/Gasoline	ND	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	ND	0.015

Date Sampled: 01/09/01 Date Analyzed: 01/20/01 QC Batch #: 1623
Date Received: 01/10/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01978	SC42-2'	TPH/Gasoline	ND	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	ND	0.015

Date Sampled: 01/09/01 Date Analyzed: 01/20/01 QC Batch #: 1623
Date Received: 01/10/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01979	SC42-5'	TPH/Gasoline	ND	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	ND	0.015

Date Sampled: 01/09/01 Date Analyzed: 01/20/01 QC Batch #: 1623
Date Received: 01/10/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01980	SC42-9'	TPH/Gasoline	400	50
		MTBE	ND	5.0
		Benzene	ND	1.0
		Toluene	ND	1.0
		Ethyl Benzene	ND	1.0
		Xylenes	5.2	3.0

Date Sampled: 01/09/01 Date Analyzed: 01/15/01, 01/19/01 QC Batch #: 1623
Date Received: 01/10/01 Method: EPA 8015M/8020

Lab Project #: 1011001

CA Lab Accreditation #: 2303

TPH Diesel, Kerosene & Stoddard Solvent in Soil

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01942	SC15-2'	TPH/Diesel	ND	5.0
		TPH/Kerosene	ND	5.0
		TPH/Stoddard Solvent	ND	5.0

Date Sampled:	01/09/01	Date Extracted:	01/12/01	QC Batch #:	1605
Date Received:	01/10/01	Date Analyzed:	01/13/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01943	SC15-5'	TPH/Diesel	ND	5.0
		TPH/Kerosene	ND	5.0
		TPH/Stoddard Solvent	ND	5.0

Date Sampled:	01/09/01	Date Extracted:	01/12/01	QC Batch #:	1605
Date Received:	01/10/01	Date Analyzed:	01/13/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01944	SC15-9'	TPH/Diesel	310	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled:	01/09/01	Date Extracted:	01/12/01	QC Batch #:	1605
Date Received:	01/10/01	Date Analyzed:	01/13/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01945	SC16-2'	TPH/Diesel	ND	5.0
		TPH/Kerosene	ND	5.0
		TPH/Stoddard Solvent	ND	5.0

Date Sampled:	01/09/01	Date Extracted:	01/12/01	QC Batch #:	1605
Date Received:	01/10/01	Date Analyzed:	01/13/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01946	SC16-5'	TPH/Diesel	ND	5.0
		TPH/Kerosene	ND	5.0
		TPH/Stoddard Solvent	ND	5.0

Date Sampled:	01/09/01	Date Extracted:	01/12/01	QC Batch #:	1605
Date Received:	01/10/01	Date Analyzed:	01/12/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01947	SC16-8.5'	TPH/Diesel	①	50
		TPH/Kerosene	①	50
		TPH/Stoddard Solvent	6,600	50

Date Sampled:	01/09/01	Date Extracted:	01/12/01	QC Batch #:	1606
Date Received:	01/10/01	Date Analyzed:	01/15/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01948	SC17-2'	TPH/Diesel	①	25
		TPH/Kerosene	①	25
		TPH/Stoddard Solvent	1,900	25

Date Sampled:	01/09/01	Date Extracted:	01/12/01	QC Batch #:	1606
Date Received:	01/10/01	Date Analyzed:	01/15/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01949	SC17-5'	TPH/Diesel	①	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	410	5.0

Date Sampled:	01/09/01	Date Extracted:	01/12/01	QC Batch #:	1606
Date Received:	01/10/01	Date Analyzed:	01/13/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01950	SC17-8'	TPH/Diesel	①	50
		TPH/Kerosene	①	50
		TPH/Stoddard Solvent	5,500	50

Date Sampled:	01/09/01	Date Extracted:	01/12/01	QC Batch #:	1606
Date Received:	01/10/01	Date Analyzed:	01/15/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01951	SC18-2'	TPH/Diesel	①	50
		TPH/Kerosene	①	50
		TPH/Stoddard Solvent	3,400	50

Date Sampled:	01/09/01	Date Extracted:	01/12/01	QC Batch #:	1606
Date Received:	01/10/01	Date Analyzed:	01/15/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01952	SC18-5'	TPH/Diesel	①	50
		TPH/Kerosene	①	50
		TPH/Stoddard Solvent	8,300	50

Date Sampled:	01/09/01	Date Extracted:	01/12/01	QC Batch #:	1606
Date Received:	01/10/01	Date Analyzed:	01/15/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01953	SC18-8'	TPH/Diesel	7.4	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled:	01/09/01	Date Extracted:	01/12/01	QC Batch #:	1606
Date Received:	01/10/01	Date Analyzed:	01/13/01	Method:	EPA 3550/8015M

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Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01954	SC19-2'	TPH/Diesel	ND	5.0
		TPH/Kerosene	ND	5.0
		TPH/Stoddard Solvent	ND	5.0

Date Sampled:	01/09/01	Date Extracted:	01/12/01	QC Batch #:	1606
Date Received:	01/10/01	Date Analyzed:	01/13/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01955	SC19-5'	TPH/Diesel	①	25
		TPH/Kerosene	2,900	25
		TPH/Stoddard Solvent	①	25

Date Sampled:	01/09/01	Date Extracted:	01/12/01	QC Batch #:	1606
Date Received:	01/10/01	Date Analyzed:	01/14/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01956	SC19-8'	TPH/Diesel	①	25
		TPH/Kerosene	1,600	25
		TPH/Stoddard Solvent	①	25

Date Sampled:	01/09/01	Date Extracted:	01/12/01	QC Batch #:	1606
Date Received:	01/10/01	Date Analyzed:	01/14/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01957	SC20-2'	TPH/Diesel	220	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled:	01/09/01	Date Extracted:	01/12/01	QC Batch #:	1606
Date Received:	01/10/01	Date Analyzed:	01/13/01	Method:	EPA 3550/8015M

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Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01958	SC20-5'	TPH/Diesel	ND	5.0
		TPH/Kerosene	ND	5.0
		TPH/Stoddard Solvent	ND	5.0

Date Sampled:	01/09/01	Date Extracted:	01/12/01	QC Batch #:	1606
Date Received:	01/10/01	Date Analyzed:	01/13/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01959	SC20-9'	TPH/Diesel	42	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled:	01/09/01	Date Extracted:	01/12/01	QC Batch #:	1606
Date Received:	01/10/01	Date Analyzed:	01/13/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01960	SC36-2'	TPH/Diesel	110	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled:	01/09/01	Date Extracted:	01/12/01	QC Batch #:	1606
Date Received:	01/10/01	Date Analyzed:	01/13/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01961	SC36-5'	TPH/Diesel	350	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled:	01/09/01	Date Extracted:	01/12/01	QC Batch #:	1606
Date Received:	01/10/01	Date Analyzed:	01/13/01	Method:	EPA 3550/8015M

Lab Project #: 1011001

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Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01962	SC36-8'	TPH/Diesel	1,000	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled:	01/09/01	Date Extracted:	01/12/01	QC Batch #:	1606
Date Received:	01/10/01	Date Analyzed:	01/13/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01963	SC37-2'	TPH/Diesel	80	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled:	01/09/01	Date Extracted:	01/12/01	QC Batch #:	1606
Date Received:	01/10/01	Date Analyzed:	01/13/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01964	SC37-5'	TPH/Diesel	ND	5.0
		TPH/Kerosene	ND	5.0
		TPH/Stoddard Solvent	ND	5.0

Date Sampled:	01/08/01	Date Extracted:	01/12/01	QC Batch #:	1606
Date Received:	01/09/01	Date Analyzed:	01/13/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01965	SC37-9'	TPH/Diesel	3,400	25
		TPH/Kerosene	①	25
		TPH/Stoddard Solvent	①	25

Date Sampled:	01/09/01	Date Extracted:	01/12/01	QC Batch #:	1606
Date Received:	01/10/01	Date Analyzed:	01/14/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01966	SC38-2'	TPH/Diesel	ND	5.0
		TPH/Kerosene	ND	5.0
		TPH/Stoddard Solvent	ND	5.0

Date Sampled:	01/09/01	Date Extracted:	01/12/01	QC Batch #:	1606
Date Received:	01/10/01	Date Analyzed:	01/13/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01967	SC38-5'	TPH/Diesel	ND	5.0
		TPH/Kerosene	ND	5.0
		TPH/Stoddard Solvent	ND	5.0

Date Sampled:	01/09/01	Date Extracted:	01/15/01	QC Batch #:	1610
Date Received:	01/10/01	Date Analyzed:	01/15/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01968	SC38-9'	TPH/Diesel	230	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled:	01/09/01	Date Extracted:	01/15/01	QC Batch #:	1610
Date Received:	01/10/01	Date Analyzed:	01/15/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01969	SC39-2'	TPH/Diesel	ND	5.0
		TPH/Kerosene	ND	5.0
		TPH/Stoddard Solvent	ND	5.0

Date Sampled:	01/09/01	Date Extracted:	01/15/01	QC Batch #:	1610
Date Received:	01/10/01	Date Analyzed:	01/15/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01970	SC39-5'	TPH/Diesel	ND	5.0
		TPH/Kerosene	ND	5.0
		TPH/Stoddard Solvent	ND	5.0

Date Sampled:	01/09/01	Date Extracted:	01/15/01	QC Batch #:	1610
Date Received:	01/10/01	Date Analyzed:	01/15/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01971	SC39-8.5'	TPH/Diesel	8.4	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled:	01/09/01	Date Extracted:	01/15/01	QC Batch #:	1610
Date Received:	01/10/01	Date Analyzed:	01/15/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01972	SC40-2'	TPH/Diesel	ND	5.0
		TPH/Kerosene	ND	5.0
		TPH/Stoddard Solvent	ND	5.0

Date Sampled:	01/09/01	Date Extracted:	01/15/01	QC Batch #:	1610
Date Received:	01/10/01	Date Analyzed:	01/15/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01973	SC40-5'	TPH/Diesel	30	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled:	01/09/01	Date Extracted:	01/15/01	QC Batch #:	1610
Date Received:	01/10/01	Date Analyzed:	01/15/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01974	SC40-9'	TPH/Diesel	620	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled:	01/09/01	Date Extracted:	01/15/01	QC Batch #:	1610
Date Received:	01/10/01	Date Analyzed:	01/16/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01975	SC41-2'	TPH/Diesel	ND	5.0
		TPH/Kerosene	ND	5.0
		TPH/Stoddard Solvent	ND	5.0

Date Sampled:	01/09/01	Date Extracted:	01/15/01	QC Batch #:	1610
Date Received:	01/10/01	Date Analyzed:	01/16/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01976	SC41-5'	TPH/Diesel	ND	5.0
		TPH/Kerosene	ND	5.0
		TPH/Stoddard Solvent	ND	5.0

Date Sampled:	01/09/01	Date Extracted:	01/15/01	QC Batch #:	1610
Date Received:	01/10/01	Date Analyzed:	01/16/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01977	SC41-8'	TPH/Diesel	ND	5.0
		TPH/Kerosene	ND	5.0
		TPH/Stoddard Solvent	ND	5.0

Date Sampled:	01/09/01	Date Extracted:	01/15/01	QC Batch #:	1610
Date Received:	01/10/01	Date Analyzed:	01/16/01	Method:	EPA 3550/8015M

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Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01978	SC42-2'	TPH/Diesel	50	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled:	01/09/01	Date Extracted:	01/15/01	QC Batch #:	1610
Date Received:	01/10/01	Date Analyzed:	01/16/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01979	SC42-5'	TPH/Diesel	ND	5.0
		TPH/Kerosene	ND	5.0
		TPH/Stoddard Solvent	ND	5.0

Date Sampled:	01/09/01	Date Extracted:	01/15/01	QC Batch #:	1610
Date Received:	01/10/01	Date Analyzed:	01/16/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01980	SC42-9'	TPH/Diesel	760	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled:	01/09/01	Date Extracted:	01/15/01	QC Batch #:	1610
Date Received:	01/10/01	Date Analyzed:	01/16/01	Method:	EPA 3550/8015M

① Analytical Sciences compared the observed chromatogram with reference chromatograms for diesel, kerosene and stoddard solvent. The reported value reflects the full amount of semivolatile hydrocarbons observed. The entry is made into the cell that reflects the determined source based upon the best pattern match.

Total Oil and Grease in Soil

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01942	SC15-2'	Total Oil & Grease	28	20

Date Sampled: 01/09/01 | Date Extracted: 01/19/01 | QC Batch #: 1614
Date Received: 01/10/01 | Date Analyzed: 01/19/01 | Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01943	SC15-5'	Total Oil & Grease	ND	20

Date Sampled: 01/09/01 | Date Extracted: 01/19/01 | QC Batch #: 1614
Date Received: 01/10/01 | Date Analyzed: 01/19/01 | Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01944	SC15-9'	Total Oil & Grease	380	20

Date Sampled: 01/09/01 | Date Extracted: 01/19/01 | QC Batch #: 1614
Date Received: 01/10/01 | Date Analyzed: 01/19/01 | Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01945	SC16-2'	Total Oil & Grease	22	20

Date Sampled: 01/09/01 | Date Extracted: 01/19/01 | QC Batch #: 1614
Date Received: 01/10/01 | Date Analyzed: 01/19/01 | Method: SM5520F
10/30w Motor Oil was used as the standard

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Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01946	SC16-5'	Total Oil & Grease	55	20

Date Sampled: 01/09/01 Date Extracted: 01/19/01 QC Batch #: 1614
Date Received: 01/10/01 Date Analyzed: 01/19/01 Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01947	SC16-8.5'	Total Oil & Grease	7,000	200

Date Sampled: 01/09/01 Date Extracted: 01/19/01 QC Batch #: 1614
Date Received: 01/10/01 Date Analyzed: 01/19/01 Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01948	SC17-2'	Total Oil & Grease	4,700	200

Date Sampled: 01/09/01 Date Extracted: 01/19/01 QC Batch #: 1614
Date Received: 01/10/01 Date Analyzed: 01/19/01 Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01949	SC17-5'	Total Oil & Grease	430	20

Date Sampled: 01/09/01 Date Extracted: 01/19/01 QC Batch #: 1614
Date Received: 01/10/01 Date Analyzed: 01/19/01 Method: SM5520F
10/30w Motor Oil was used as the standard

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Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01950	SC17-8'	Total Oil & Grease	5,000	200

Date Sampled: 01/09/01
Date Received: 01/10/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1614
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01951	SC18-2'	Total Oil & Grease	6,500	200

Date Sampled: 01/09/01
Date Received: 01/10/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1614
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01952	SC18-5'	Total Oil & Grease	9,200	200

Date Sampled: 01/09/01
Date Received: 01/10/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1614
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01953	SC18-8'	Total Oil & Grease	ND	20

Date Sampled: 01/09/01
Date Received: 01/10/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1614
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab Project #: 1011001

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Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01954	SC19-2'	Total Oil & Grease	ND	20

Date Sampled: 01/09/01
Date Received: 01/10/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1614
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01955	SC19-5'	Total Oil & Grease	2,100	200

Date Sampled: 01/09/01
Date Received: 01/10/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1614
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01956	SC19-8'	Total Oil & Grease	1,100	200

Date Sampled: 01/09/01
Date Received: 01/10/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1614
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01957	SC20-2'	Total Oil & Grease	130	20

Date Sampled: 01/09/01
Date Received: 01/10/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1614
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01958	SC20-5'	Total Oil & Grease	66	20

Date Sampled: 01/09/01
Date Received: 01/10/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1615
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01959	SC20-9'	Total Oil & Grease	ND	20

Date Sampled: 01/09/01
Date Received: 01/10/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1615
Method: SM5520F
10/30w Motor Oil was used as the standard

Chlorinated Solvents in Soil

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
01942	SC15-2'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 01/09/01
Date Received: 01/10/01
Date Analyzed: 01/16/01
Method: EPA 5030/8010
QC Batch #: 1618

Lab Project #: 1011001

CA Lab Accreditation #: 2303

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
01943	SC15-5'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled:	01/09/01	Date Analyzed:	01/16/01	QC Batch #:	1618
Date Received:	01/10/01	Method:	EPA 5030/8010		

Lab Project #: 1011001

CA Lab Accreditation #: 2303

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
01944	SC15-9'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 01/09/01
Date Received: 01/10/01
Date Analyzed: 01/17/01
Method: EPA 5030/8010
QC Batch #: 1618

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
01945	SC16-2'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 01/09/01
Date Received: 01/10/01
Date Analyzed: 01/17/01
Method: EPA 5030/8010
QC Batch #: 1618

Lab Project #: 1011001

CA Lab Accreditation #: 2303

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
01946	SC16-5'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 01/09/01 Date Analyzed: 01/17/01 QC Batch #: 1618
Date Received: 01/10/01 Method: EPA 5030/8010

Lab Project #: 1011001

CA Lab Accreditation #: 2303

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
01947	SC16-8.5'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 01/09/01
Date Received: 01/10/01
Date Analyzed: 01/17/01
Method: EPA 5030/8010
QC Batch #: 1618

Lab Project #: 1011001

CA Lab Accreditation #: 2303

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
01948	SC17-2'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	12	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 01/09/01
Date Received: 01/10/01
Date Analyzed: 01/17/01
Method: EPA 5030/8010
QC Batch #: 1618

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
01949	SC17-5'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 01/09/01
Date Received: 01/10/01
Date Analyzed: 01/17/01
Method: EPA 5030/8010
QC Batch #: 1618

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
01950	SC17-8'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 01/09/01
Date Received: 01/10/01
Date Analyzed: 01/17/01
Method: EPA 5030/8010
QC Batch #: 1618

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
01951	SC18-2'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 01/09/01
Date Received: 01/10/01
Date Analyzed: 01/18/01
Method: EPA 5030/8010
QC Batch #: 1618

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
01952	SC18-5'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 01/09/01
Date Received: 01/10/01
Date Analyzed: 01/18/01
Method: EPA 5030/8010
QC Batch #: 1618

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
01953	SC18-8'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 01/09/01
Date Received: 01/10/01
Date Analyzed: 01/18/01
Method: EPA 5030/8010
QC Batch #: 1618

Lab Project #: 1011001

CA Lab Accreditation #: 2303

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
01954	SC19-2'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 01/09/01
Date Received: 01/10/01
Date Analyzed: 01/18/01
Method: EPA 5030/8010
QC Batch #: 1618

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
01955	SC19-5'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 01/09/01
Date Received: 01/10/01
Date Analyzed: 01/18/01
Method: EPA 5030/8010
QC Batch #: 1618

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
01956	SC19-8'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 01/09/01
Date Received: 01/10/01
Date Analyzed: 01/18/01
Method: EPA 5030/8010
QC Batch #: 1618

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
01957	SC20-2'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 01/09/01
Date Received: 01/10/01
Date Analyzed: 01/18/01
Method: EPA 5030/8010
QC Batch #: 1618

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
01958	SC20-5'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 01/09/01
Date Received: 01/10/01
Date Analyzed: 01/19/01
Method: EPA 5030/8010
QC Batch #: 1630

Lab Project #: 1011001

CA Lab Accreditation #: 2303

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
01959	SC20-9'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 01/09/01
Date Received: 01/10/01
Date Analyzed: 01/19/01
Method: EPA 5030/8010
QC Batch #: 1630

Metals in Soil

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01942	SC15-2'	Cadmium (Cd)	ND	1.0
		Chromium (Cr)	42	1.5
		Lead (Pb)	9.9	3.0
		Nickel (Ni)	39	2.0
		Zinc (Zn)	31	1.0

Date Sampled: 01/09/01 Date Digested: 01/15/01 QC Batch #: 1611
Date Received: 01/10/01 Date Analyzed: 01/16/01
Method: EPA 3050/7000 series/6010

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01943	SC15-5'	Cadmium (Cd)	ND	1.0
		Chromium (Cr)	39	1.5
		Lead (Pb)	6.4	3.0
		Nickel (Ni)	50	2.0
		Zinc (Zn)	51	1.0

Date Sampled: 01/09/01 Date Digested: 01/15/01 QC Batch #: 1611
Date Received: 01/10/01 Date Analyzed: 01/16/01
Method: EPA 3050/7000 series/6010

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01944	SC15-9'	Cadmium (Cd)	ND	1.0
		Chromium (Cr)	27	1.5
		Lead (Pb)	4.9	3.0
		Nickel (Ni)	31	2.0
		Zinc (Zn)	33	1.0

Date Sampled: 01/09/01 Date Digested: 01/15/01 QC Batch #: 1611
Date Received: 01/10/01 Date Analyzed: 01/16/01
Method: EPA 3050/7000 series/6010

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01945	SC16-2'	Cadmium (Cd)	ND	1.0
		Chromium (Cr)	36	1.5
		Lead (Pb)	7.0	3.0
		Nickel (Ni)	39	2.0
		Zinc (Zn)	27	1.0

Date Sampled: 01/09/01 Date Digested: 01/15/01 QC Batch #: 1611
Date Received: 01/10/01 Date Analyzed: 01/16/01
Method: EPA 3050/7000 series/6010

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01946	SC16-5'	Cadmium (Cd)	ND	1.0
		Chromium (Cr)	47	1.5
		Lead (Pb)	7.4	3.0
		Nickel (Ni)	58	2.0
		Zinc (Zn)	61	1.0

Date Sampled: 01/09/01 Date Digested: 01/15/01 QC Batch #: 1611
Date Received: 01/10/01 Date Analyzed: 01/16/01
Method: EPA 3050/7000 series/6010

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01947	SC16-8.5'	Cadmium (Cd)	ND	1.0
		Chromium (Cr)	26	1.5
		Lead (Pb)	4.8	3.0
		Nickel (Ni)	27	2.0
		Zinc (Zn)	28	1.0

Date Sampled: 01/09/01 Date Digested: 01/15/01 QC Batch #: 1611
Date Received: 01/10/01 Date Analyzed: 01/16/01
Method: EPA 3050/7000 series/6010

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01948	SC17-2'	Cadmium (Cd)	ND	1.0
		Chromium (Cr)	41	1.5
		Lead (Pb)	6.3	3.0
		Nickel (Ni)	31	2.0
		Zinc (Zn)	32	1.0

Date Sampled: 01/09/01 Date Digested: 01/15/01 QC Batch #: 1611
Date Received: 01/10/01 Date Analyzed: 01/16/01
Method: EPA 3050/7000 series/6010

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01949	SC17-5'	Cadmium (Cd)	ND	1.0
		Chromium (Cr)	38	1.5
		Lead (Pb)	6.5	3.0
		Nickel (Ni)	49	2.0
		Zinc (Zn)	54	1.0

Date Sampled: 01/09/01 Date Digested: 01/15/01 QC Batch #: 1611
Date Received: 01/10/01 Date Analyzed: 01/16/01
Method: EPA 3050/7000 series/6010

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01950	SC17-8'	Cadmium (Cd)	ND	1.0
		Chromium (Cr)	37	1.5
		Lead (Pb)	5.9	3.0
		Nickel (Ni)	42	2.0
		Zinc (Zn)	45	1.0

Date Sampled: 01/09/01 Date Digested: 01/15/01 QC Batch #: 1611
Date Received: 01/10/01 Date Analyzed: 01/16/01
Method: EPA 3050/7000 series/6010

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01951	SC18-2'	Cadmium (Cd)	ND	1.0
		Chromium (Cr)	35	1.5
		Lead (Pb)	16	3.0
		Nickel (Ni)	29	2.0
		Zinc (Zn)	26	1.0

Date Sampled: 01/09/01 Date Digested: 01/15/01 QC Batch #: 1611
Date Received: 01/10/01 Date Analyzed: 01/16/01
Method: EPA 3050/7000 series/6010

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01952	SC18-5'	Cadmium (Cd)	ND	1.0
		Chromium (Cr)	20	1.5
		Lead (Pb)	4.7	3.0
		Nickel (Ni)	31	2.0
		Zinc (Zn)	32	1.0

Date Sampled: 01/09/01 Date Digested: 01/15/01 QC Batch #: 1611
Date Received: 01/10/01 Date Analyzed: 01/16/01
Method: EPA 3050/7000 series/6010

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01953	SC18-8'	Cadmium (Cd)	ND	1.0
		Chromium (Cr)	31	1.5
		Lead (Pb)	3.6	3.0
		Nickel (Ni)	34	2.0
		Zinc (Zn)	33	1.0

Date Sampled: 01/09/01 Date Digested: 01/15/01 QC Batch #: 1611
Date Received: 01/10/01 Date Analyzed: 01/16/01
Method: EPA 3050/7000 series/6010

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01954	SC19-2'	Cadmium (Cd)	ND	1.0
		Chromium (Cr)	47	1.5
		Lead (Pb)	5.4	3.0
		Nickel (Ni)	37	2.0
		Zinc (Zn)	32	1.0

Date Sampled: 01/09/01 Date Digested: 01/15/01 QC Batch #: 1611
Date Received: 01/10/01 Date Analyzed: 01/16/01
Method: EPA 3050/7000 series/6010

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01955	SC19-5'	Cadmium (Cd)	ND	1.0
		Chromium (Cr)	27	1.5
		Lead (Pb)	5.0	3.0
		Nickel (Ni)	32	2.0
		Zinc (Zn)	35	1.0

Date Sampled: 01/09/01 Date Digested: 01/15/01 QC Batch #: 1611
Date Received: 01/10/01 Date Analyzed: 01/16/01
Method: EPA 3050/7000 series/6010

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01956	SC19-8'	Cadmium (Cd)	ND	1.0
		Chromium (Cr)	35	1.5
		Lead (Pb)	5.3	3.0
		Nickel (Ni)	39	2.0
		Zinc (Zn)	40	1.0

Date Sampled: 01/09/01 Date Digested: 01/15/01 QC Batch #: 1611
Date Received: 01/10/01 Date Analyzed: 01/16/01
Method: EPA 3050/7000 series/6010

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01957	SC20-2'	Cadmium (Cd)	ND	1.0
		Chromium (Cr)	38	1.5
		Lead (Pb)	15	3.0
		Nickel (Ni)	45	2.0
		Zinc (Zn)	40	1.0

Date Sampled: 01/09/01 Date Digested: 01/15/01 QC Batch #: 1611
Date Received: 01/10/01 Date Analyzed: 01/16/01
Method: EPA 3050/7000 series/6010

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01958	SC20-5'	Cadmium (Cd)	ND	1.0
		Chromium (Cr)	29	1.5
		Lead (Pb)	6.6	3.0
		Nickel (Ni)	36	2.0
		Zinc (Zn)	38	1.0

Date Sampled: 01/09/01 Date Digested: 01/15/01 QC Batch #: 1611
Date Received: 01/10/01 Date Analyzed: 01/16/01
Method: EPA 3050/7000 series/6010

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01959	SC20-9'	Cadmium (Cd)	ND	1.0
		Chromium (Cr)	27	1.5
		Lead (Pb)	5.1	3.0
		Nickel (Ni)	32	2.0
		Zinc (Zn)	39	1.0

Date Sampled: 01/09/01 Date Digested: 01/15/01 QC Batch #: 1611
Date Received: 01/10/01 Date Analyzed: 01/16/01
Method: EPA 3050/7000 series/6010

LABORATORY
QUALITY ASSURANCE REPORT

QC Batch #: 1621 **Lab Project #:** 1011001

Sample ID	Compound	Result (mg/kg)
MB	TPH/Gas	ND
MB	MTBE	ND
MB	Benzene	ND
MB	Toluene	ND
MB	Ethyl Benzene	ND
MB	Xylenes	ND

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.
LCS	TPH/Gas		NS	
LCS	Benzene	0.0954	0.100	95.4
LCS	Toluene	0.0961	0.100	96.1
LCS	Ethyl Benzene	0.0946	0.100	94.6
LCS	Xylenes	0.285	0.300	95.0

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.	RPD
LCSD	TPH/Gas		NS		
LCSD	Benzene	0.0952	0.100	95.2	0.21
LCSD	Toluene	0.0955	0.100	95.5	0.63
LCSD	Ethyl Benzene	0.0933	0.100	93.3	1.4
LCSD	Xylenes	0.283	0.300	94.5	0.49

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

QC Batch #: 1622 **Lab Project #:** 1011001

Sample ID	Compound	Result (mg/kg)
MB	TPH/Gas	ND
MB	MTBE	ND
MB	Benzene	ND
MB	Toluene	ND
MB	Ethyl Benzene	ND
MB	Xylenes	ND

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.
LCS	TPH/Gas		NS	
LCS	Benzene	0.0956	0.100	95.6
LCS	Toluene	0.0995	0.100	99.5
LCS	Ethyl Benzene	0.0932	0.100	93.2
LCS	Xylenes	0.0289	0.300	98.4

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.	RPD
LCSD	TPH/Gas		NS		
LCSD	Benzene	0.0901	0.100	90.1	5.9
LCSD	Toluene	0.0896	0.100	89.6	10
LCSD	Ethyl Benzene	0.0887	0.100	88.7	4.9
LCSD	Xylenes	0.273	0.300	91.0	5.7

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

QC Batch #: 1623 **Lab Project #:** 1011001

Sample ID	Compound	Result (mg/kg)
MB	TPH/Gas	ND
MB	MTBE	ND
MB	Benzene	ND
MB	Toluene	ND
MB	Ethyl Benzene	ND
MB	Xylenes	ND

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.
LCS	TPH/Gas		NS	
LCS	Benzene	0.180	0.200	90.2
LCS	Toluene	0.193	0.200	96.5
LCS	Ethyl Benzene	0.197	0.200	98.5
LCS	Xylenes	0.595	0.600	99.2

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.	RPD
LCSD	TPH/Gas		NS		
LCSD	Benzene	0.178	0.200	88.9	1.5
LCSD	Toluene	0.189	0.200	94.4	2.2
LCSD	Ethyl Benzene	0.193	0.200	96.5	2.0
LCSD	Xylenes	0.583	0.600	97.2	2.0

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

QC Batch #: 1605 **Lab Project #:** 1011001

Sample ID	Compound	Result (mg/kg)
MB	TPH/Diesel	ND

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.
LCS	TPH/Diesel	222	246	90.2

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.	RPD
LCSD	TPH/Diesel	207	246	84.1	7.0

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

QC Batch #: 1606 **Lab Project #:** 1011001

Sample ID	Compound	Result (mg/kg)
MB	TPH/Diesel	ND

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.
LCS	TPH/Diesel	207	246	84.1

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.	RPD
LCSD	TPH/Diesel	188	246	76.4	9.6

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

QC Batch #: 1610 **Lab Project #:** 1011001

Sample ID	Compound	Result (mg/kg)
MB	TPH/Diesel	ND

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.
LCS	TPH/Diesel	171	246	69.5

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.	RPD
LCSD	TPH/Diesel	172	246	69.9	0.58

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

QC Batch #: 1614 **Lab Project #:** 1011001

Sample ID	Compound	Result (mg/kg)
MB	TOG	ND

Sample #	Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.
01942	CMS	TOG	484 ②	482	94.6

Sample #	Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.	RPD
01942	CMSD	TOG	568 ②	512	105	10

② Sample 01942 contained a TOG level of 28 mg/kg prior to the addition of the QC spike. This was taken into account in the calculation of the % recovery.

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

QC Batch #: 1615 **Lab Project #:** 1011001

Sample ID	Compound	Result (mg/kg)
MB	TOG	ND

Sample #	Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.
02030	CMS	TOG	475 ③	429	85.1

Sample #	Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.	RPD
02030	CMSD	TOG	597 ③	546	89.2	1.5

③ Sample 02030 contained a TOG level of 110 mg/kg prior to the addition of the QC spike. This was taken into account in the calculation of the % recovery.

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

QC Batch #: 1618 Lab Project #: 1011001

Sample ID	Compound Name	Result (ug/kg)
MB	dichlorodifluoromethane	ND
	chloromethane	ND
	vinyl chloride	ND
	bromomethane	ND
	chloroethane	ND
	trichlorofluoromethane	ND
	1,1-dichloroethene	ND
	methylene chloride	ND
	trans-1,2-dichloroethene	ND
	1,1-dichloroethane	ND
	cis-1,2-dichloroethene	ND
	chloroform	ND
	1,1,1-trichloroethane	ND
	carbon tetrachloride	ND
	1,2-dichloroethane	ND
	trichloroethene	ND
	1,2-dichloropropane	ND
	bromodichloromethane	ND
	dibromomethane	ND
	trans-1,3-dichloropropene	ND
	1,1,2-trichloroethane	ND
	tetrachloroethene	ND
	dibromochloromethane	ND
	chlorobenzene	ND
	1,1,1,2-tetrachloroethane	ND
	bromoform	ND
	1,1,2,2-tetrachloroethane	ND
	1,2,3-trichloropropane	ND
	bromobenzene	ND
	chlorotoluene	ND
	1,3-dichlorobenzene	ND
	1,4-dichlorobenzene	ND
	1,2-dichlorobenzene	ND

Sample	Sample ID	Compound Name	Result (ug/kg)	Spike Level	% Recv.
01929	CMS	dichlorodifluoromethane	ND		
		chloromethane	ND		
		vinyl chloride	ND		
		bromomethane	ND		
		chloroethane	ND		
		trichlorofluoromethane	ND		
		1,1-dichloroethene	ND		
		methylene chloride	ND		
		trans-1,2-dichloroethene	ND		
		1,1-dichloroethane	20.3	19.8	103
		cis-1,2-dichloroethene	ND		
		chloroform	ND		
		1,1,1-trichloroethane	ND		
		carbon tetrachloride	18.5	19.8	93.5
		1,2-dichloroethane	ND		
		trichloroethene	20.7	19.8	105
		1,2-dichloropropane	ND		
		bromodichloromethane	ND		
		dibromomethane	ND		
		trans-1,3-dichloropropene	ND		
		1,1,2-trichloroethane	ND		
		tetrachloroethene	20.6	19.8	104
		dibromochloromethane	ND		
		chlorobenzene	ND		
		1,1,1,2-tetrachloroethane	ND		
		bromoform	ND		
		1,1,2,2-tetrachloroethane	ND		
		1,2,3-trichloropropane	ND		
		bromobenzene	ND		
		chlorotoluene	ND		
		1,3-dichlorobenzene	18.6	19.8	93.9
		1,4-dichlorobenzene	ND		
		1,2-dichlorobenzene	19.4	19.8	98.1

Sample	Sample ID	Compound Name	Result (ug/kg)	Spike Level	% Recv.	RPD
01929	CMSD	dichlorodifluoromethane	ND			
		chloromethane	ND			
		vinyl chloride	ND			
		bromomethane	ND			
		chloroethane	ND			
		trichlorofluoromethane	ND			
		1,1-dichloroethene	ND			
		methylene chloride	ND			
		trans-1,2-dichloroethene	ND			
		1,1-dichloroethane	20.5	19.8	104	0.98
		cis-1,2-dichloroethene	ND			
		chloroform	ND			
		1,1,1-trichloroethane	ND			
		carbon tetrachloride	20.2	19.8	102	8.8
		1,2-dichloroethane	ND			
		trichloroethene	21.3	19.8	108	2.9
		1,2-dichloropropane	ND			
		bromodichloromethane	ND			
		dibromomethane	ND			
		trans-1,3-dichloropropene	ND			
		1,1,2-trichloroethane	ND			
		tetrachloroethene	21.3	19.8	108	3.3
		dibromochloromethane	ND			
		chlorobenzene	ND			
		1,1,1,2-tetrachloroethane	ND			
		bromoform	ND			
		1,1,2,2-tetrachloroethane	ND			
		1,2,3-trichloropropane	ND			
		bromobenzene	ND			
		chlorotoluene	ND			
		1,3-dichlorobenzene	19.0	19.8	95.8	2.1
		1,4-dichlorobenzene	ND			
		1,2-dichlorobenzene	19.2	19.8	97.0	1.0

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

QC Batch #: 1630 **Lab Project #:** 1011001

Sample ID	Compound Name	Result (ug/kg)
MB	dichlorodifluoromethane	ND
	chloromethane	ND
	vinyl chloride	ND
	bromomethane	ND
	chloroethane	ND
	trichlorofluoromethane	ND
	1,1-dichloroethene	ND
	methylene chloride	ND
	trans-1,2-dichloroethene	ND
	1,1-dichloroethane	ND
	cis-1,2-dichloroethene	ND
	chloroform	ND
	1,1,1-trichloroethane	ND
	carbon tetrachloride	ND
	1,2-dichloroethane	ND
	trichloroethene	ND
	1,2-dichloropropane	ND
	bromodichloromethane	ND
	dibromomethane	ND
	trans-1,3-dichloropropene	ND
	1,1,2-trichloroethane	ND
	tetrachloroethene	ND
	dibromochloromethane	ND
	chlorobenzene	ND
	1,1,1,2-tetrachloroethane	ND
	bromoform	ND
	1,1,2,2-tetrachloroethane	ND
	1,2,3-trichloropropane	ND
	bromobenzene	ND
	chlorotoluene	ND
	1,3-dichlorobenzene	ND
	1,4-dichlorobenzene	ND
	1,2-dichlorobenzene	ND

Sample	Sample ID	Compound Name	Result (ug/kg)	Spike Level	% Recv.
01958	CMS	dichlorodifluoromethane	ND		
		chloromethane	ND		
		vinyl chloride	ND		
		bromomethane	ND		
		chloroethane	ND		
		trichlorofluoromethane	ND		
		1,1-dichloroethene	ND		
		methylene chloride	ND		
		trans-1,2-dichloroethene	ND		
		1,1-dichloroethane	20.1	19.4	104
		cis-1,2-dichloroethene	ND		
		chloroform	ND		
		1,1,1-trichloroethane	ND		
		carbon tetrachloride	16.1	19.4	83.0
		1,2-dichloroethane	ND		
		trichloroethene	18.5	19.4	95.4
		1,2-dichloropropane	ND		
		bromodichloromethane	ND		
		dibromomethane	ND		
		trans-1,3-dichloropropene	ND		
		1,1,2-trichloroethane	ND		
		tetrachloroethene	17.9	19.4	92.4
		dibromochloromethane	ND		
		chlorobenzene	ND		
		1,1,1,2-tetrachloroethane	ND		
		bromoform	ND		
		1,1,2,2-tetrachloroethane	ND		
		1,2,3-trichloropropane	ND		
		bromobenzene	ND		
		chlorotoluene	ND		
		1,3-dichlorobenzene	18.1	19.4	93.3
		1,4-dichlorobenzene	ND		
		1,2-dichlorobenzene	17.5	19.4	90.2

Sample	Sample ID	Compound Name	Result (ug/kg)	Spike Level	% Recv.	RPD
01958	CMSD	dichlorodifluoromethane	ND			
		chloromethane	ND			
		vinyl chloride	ND			
		bromomethane	ND			
		chloroethane	ND			
		trichlorofluoromethane	ND			
		1,1-dichloroethene	ND			
		methylene chloride	ND			
		trans-1,2-dichloroethene	ND			
		1,1-dichloroethane	21.7	19.4	112	7.7
		cis-1,2-dichloroethene	ND			
		chloroform	ND			
		1,1,1-trichloroethane	ND			
		carbon tetrachloride	20.1	19.4	104	22
		1,2-dichloroethane	ND			
		trichloroethene	21.9	19.4	113	17
		1,2-dichloropropane	ND			
		bromodichloromethane	ND			
		dibromomethane	ND			
		trans-1,3-dichloropropene	ND			
		1,1,2-trichloroethane	ND			
		tetrachloroethene	21.7	19.4	112	19
		dibromochloromethane	ND			
		chlorobenzene	ND			
		1,1,1,2-tetrachloroethane	ND			
		bromoform	ND			
		1,1,2,2-tetrachloroethane	ND			
		1,2,3-trichloropropane	ND			
		bromobenzene	ND			
		chlorotoluene	ND			
		1,3-dichlorobenzene	19.3	19.4	97.5	6.4
		1,4-dichlorobenzene	ND			
		1,2-dichlorobenzene	18.7	19.4	96.4	6.6

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

QC Batch #: 1611 **Lab Project #:** 1011001

Sample ID	Compound	Result (mg/kg)
MB	Cadmium (Cd)	ND
MB	Chromium (Cr)	ND
MB	Lead (Pb)	ND
MB	Nickel (Ni)	ND
MB	Zinc (Zn)	ND

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.
LCS	Cadmium (Cd)	53.0	50.0	106
LCS	Chromium (Cr)	47.3	50.0	94.6
LCS	Lead (Pb)	54.1	50.0	108
LCS	Nickel (Ni)	50.3	50.0	101
LCS	Zinc (Zn)	52.7	50.0	105

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.	RPD
LCSD	Cadmium (Cd)	52.3	50.0	105	1.3
LCSD	Chromium (Cr)	47.0	50.0	94.0	0.64
LCSD	Lead (Pb)	53.1	50.0	106	1.9
LCSD	Nickel (Ni)	49.9	50.0	99.8	0.80
LCSD	Zinc (Zn)	54.8	50.0	110	3.9

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

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Analytical Sciences P.O. Box 750336 Petaluma, CA 94975-0336	Client Project ID: #HE(1011001)	Date Sampled: 01/09/01
		Date Received: 01/17/01
	Client Contact: Mark Valentini	Date Extracted: 01/17/01
	Client P.O:	Date Analyzed: 01/17-01/23/01

Polychlorinated Biphenyls (PCB)

EPA method 608 and 3510 or 8080 and 3550

Lab ID	Client ID	Matrix	PCB+	% Recovery Surrogate
58123	SC17-2' (01948)	S	ND,o	118
58124	SC18-2' (01951)	S	ND<125,j,o	112
58125	SC20-2' (01957)	S	ND,o	115
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	0.5 ug/L	
		S	50 ug/kg	

* water and vapor samples are reported in ug/L, oils in mg/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP /STLC extracts in ug/L.

ND means not detected above the reporting limit

surrogate diluted out of range or surrogate coelutes with another peak

+ PCB aroclors - the first two digits of the aroclor number convey general structural information, where 12 and 10 denote biphenyl compounds with the latter having one phenyl group that is Cl-free; the last two aroclor digits specify its Cl weight %; (a) PCB aroclor 1016; (b) PCB aroclor 1221; (c) PCB aroclor 1232; (d) PCB aroclor 1242; (e) PCB aroclor 1248; (f) PCB aroclor 1254; (g) PCB aroclor 1260; (h) a lighter than water immiscible sheen is present; (i) liquid sample that contains >~5 vol. % sediment; (j)sample diluted due to high organic content; (l) florisil (EPA 3620) cleanup; (m) silica-gel (EPA 3630) cleanup; (n) elemental sulfur (EPA 3660) cleanup; (o) sulfuric acid-permanganate (EPA 3665) cleanup.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Ave. South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

QC REPORT

EPA 8080/608

Date: 01/16/01-01/17/01 Matrix: Soil

Extraction: N/A

Compound	Concentration: ug/kg				%Recovery		RPD
	Sample	MS	MSD	Amount Spiked	MS	MSD	
SampleID: 11601					Instrument: GC-5		
Surrogate1	0.000	105.0	104.0	100.00	105	104	1.0
4,4`-DDT	0.000	54.0	54.0	50.00	108	108	0.0
Endrine	0.000	56.0	57.0	50.00	112	114	1.8
Dieldrin	0.000	58.0	58.0	50.00	116	116	0.0
Aldrin	0.000	20.0	20.0	20.00	100	100	0.0
Heptachlor	0.000	23.0	23.0	20.00	115	115	0.0
Lindane	0.000	20.0	21.0	20.00	100	105	4.9
PCB	0.000	147.0	151.0	150.00	98	101	2.7

$$\%\,\text{Recovery} = \frac{(MS - Sample)}{AmountSpiked} \cdot 100$$

$$\text{RPD} = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2 \cdot 100$$

RPD means Relative Percent Deviation

Analytical Sciences
P.O. Box 750336, Petaluma, CA 94975-0336
110 Liberty Street, Petaluma, CA 94952
(707) 769-3128
Fax (707) 769-8093

CHAIN OF CUSTODY

24054 ZAS95.doc

LAB PROJECT NUMBER:
CLIENT'S PROJECT NAME: HE (10/1001)
CLIENT'S PROJECT NUMBER:

CLIENT INFORMATION

COMPANY NAME: ANALYTICAL SCIENCES
ADDRESS: P.O. BOX 750336
PETALUMA, CA 94975-0336
CONTACT: MARK VALENTINI
PHONE#: (707) 769-3128
FAX #: (707) 769-8093

TURNAROUND TIME (check one)

MOBILE LAB			
SAME DAY		24 HOURS	
48 HOURS		72 HOURS	
5 DAYS		NORMAL	X

COOLER TEMBERATURE
BLUE ICED °C

COC
PAGE 1 OF 1

ANALYSIS

ITEM	CLIENT SAMPLE I..D.	DATE SAMPLED	TIME	MATRIX	# CONT.	PRESV. YES/NO	BTEX BY 8020												COMMENTS	LAB SAMPLE #
1	SC17-2'(01948)	1-9-01	0944	Soil	1	No	X												ALL SAMPLES MUST	58123
2	SC18-2'(01951)	↓	0924	↓	↓	↓	X												GET SULFUIC ACID	58124
3	SC20-2'(01957)	↓	1004	↓	↓	↓	X												CLEANUP	58125
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

SIGNATURES

RELINQUISHED BY: Mark A. Valentini — SIGNATURE
1/16/01 — DATE
TIME

RECEIVED BY LABORATORY: Nina A Butler — SIGNATURE
01/17/01 — DATE
7:30pm — TIME

TB:SV

ENVIRONMENTAL BIO-SYSTEMS, INC.
Innovative Solutions for a Better Environment
P.O. Box 7171
San Jose, CA 95150-7171
(408) 979-8600

CHAIN OF CUSTODY

LAB PROJECT # 1011001

ADDITIONAL INSTRUCTIONS: 1 OF 4

* - RUN ALL 2' SAMPLES FOR PCB'S ONLY IF POSITIVE FOR TPHd

PROJECT NUMBER: 150-561.B
CLIENT: HOLLAND ESTATE
SITE: 16301 E. 14TH ST.
SAN LEANDRO, CA

SAMPLE I.D.	MATRIX	NUMBER OF CONTAINERS	COMPOSITE	ANALYSES: TO-5 SVOC	TPHd + TPHg - SOIL	TPHss - SOIL	OTEX + MTBE - SOIL	PCB's - SOIL *	TPHd	HVOC's - SOIL	Zn, Pb, Ni, Cd, Cr	TIME COLLECTED	TURNAROUND	LAB SAMPLE #
SC15-2'	SOIL	1		X	X	X	X	No	X	X	X	10:55	STANDARD	01942
SC15-5'												11:02		01943
SC15-9'												11:05		01944
SC16-2'								No				10:39		01945
SC16-5'												10:44		01946
SC16-8.5'								✓				10:49		01947
SC17-2'								✓				9:44		01948
SC17-5'												9:46		01949
SC17-8'												9:50		01950
SC18-2'								✓				9:24		01951
SC18-5'	↓	↓		✓	✓	✓	✓		✓	✓	✓	9:30	✓	01952

DATE SAMPLING COMPLETED: 1/9/01
SAMPLING PERFORMED BY: DAVE A. SAROFF

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Dave A. Saroff	1/10/01	11:15	Christine	1/10/01	11:15
✓					

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

ENVIRONMENTAL BIO-SYSTEMS, INC.
Innovative Solutions for a Better Environment
P.O. Box 7171
San Jose, CA 95150-7171
(408) 979-8600

CHAIN OF CUSTODY

LAB PROJECT # 101001

ADDITIONAL INSTRUCTIONS:

2 OF 4

* - RUN SC18 ⇔ SC20 2' SAMPLES FOR PCB's ONLY IF POSITIVE FOR SOIS

PROJECT NUMBER	150-561 B
CLIENT	HOLLAND ESTATE
SITE	16301 E. 14TH ST.
	SAN LEANDRO, CA

SAMPLE I.D.	MATRIX	NUMBER OF CONTAINERS	COMPOSITE	ANALYSES: TPH-D 5520 E/F	TPH-G + TPH-D SOIS	TPH-SS - SOIS	BTEX + MTBE - SOIS	PCB's - SOIS *	TPH-G	HVOC's - SOIL	Zn, Pb, Ni, Cd, Cr	TIME COLLECTED	TURNAROUND	LAB SAMPLE #
SC18-8'	SOIL	1		X	X	X	X		X	X	X	9:32	STANDARD	01953
SC19-2'								NO				10:22		01954
SC19-5'												10:28		01955
SC19-8'												10:36		01956
SC20-2'								✓				10:04		01957
SC20-5'												10:07		01958
SC20-9'				✓	✓	✓	✓		✓	✓	✓	10:14	✓	01959
SC36-2'				X	X	X	X		X			13:49	STANDARD	01960
SC36-5'												13:52		01961
SC36-8'	✓	✓		✓	✓	✓	✓		✓			13:56	✓	01962

DATE SAMPLING COMPLETED: 1/10/01

SAMPLING PERFORMED BY: DAVE A. SADOFF

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	1/10/01	11:15	[signature]	1/10/01	11:15
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #	

ENVIRONMENTAL BIO-SYSTEMS, INC.
Innovative Solutions for a Better Environment
P.O. Box 7171
San Jose, CA 95150-7171
(408) 979-8600

CHAIN OF CUSTODY

LAB PROJECT # 1011001

ADDITIONAL INSTRUCTIONS:

3 OF 4

PROJECT NUMBER: 150-561 B
CLIENT: HOLLAND ESTATE
SITE: 16311 E. 14TH ST.
SAN LEANDRO, CA

SAMPLE I.D.	MATRIX	NUMBER OF CONTAINERS	COMPOSITE	ANALYSES: TPHd+TPHk-8015	ANALYSES: TPHss-8015	ANALYSES: BTEX+MTBE-8020	ANALYSES: TPHg	TIME COLLECTED	TURNAROUND	LAB SAMPLE #
SC36-SC37	SOIL	1		X	X	X	X	12:36		01963
SC37-5'								12:43		01964
SC37-9'								12:46		01965
SC38-2'								13:11		01966
SC38-5'								13:15		01967
SC38-9'								13:22		01968
SC39-2'								13:31		01969
SC39-5'								13:35		01970
SC39-8.5'								13:38		01971

DATE SAMPLING COMPLETED: 1/9/01
SAMPLING PERFORMED BY: DAVE A. SAMUEL

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Dave A. Samuel	1/10/01	11:15		01/10/01	11:15

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

ENVIRONMENTAL BIO-SYSTEMS, INC.
Innovative Solutions for a Better Environment
P.O. Box 7171
San Jose, CA 95150-7171
(408) 979-8600

LAB PROJECT # 1011001

CHAIN OF COUSTODY

ADDITIONAL INSTRUCTIONS:

PROJECT NUMBER: 150-561 B

CLIENT: HOLLAND ESTATE

SITE: 16301 E. 14TH ST.
SAN LEANDRO, CA

ANALYSES: TPHd + TPHk - 8015 | TPHss - 8015 | BTEX + MTBE - 8020 | TPHg

SAMPLE I.D.	MATRIX	NUMBER OF CONTAINERS	COMPOSITE	TPHd + TPHk - 8015	TPHss - 8015	BTEX + MTBE - 8020	TPHg					TIME COLLECTED	TURNAROUND	LAB SAMPLE #
SC40-2'	SOIL	1		X	X	X	X					12:52		01972
SC40-5'	↓	↓		↓	↓	↓	↓					12:59		01973
SC40-9'	↓	↓		↓	↓	↓	↓					13:03		01974
SC41-2'	↓	↓		↓	↓	↓	↓					11:21		01975
SC41-5'	↓	↓		↓	↓	↓	↓					11:36		01976
SC41-8'	↓	↓		↓	↓	↓	↓					11:53		01977
SC42-2'	↓	↓		↓	↓	↓	↓					12:22		01978
SC42-5'	↓	↓		↓	↓	↓	↓					12:27		01979
SC42-9'	✓	✓		✓	✓	✓	✓					12:31		01980

DATE SAMPLING COMPLETED: 01/9/01

SAMPLING PERFORMED BY: DAVE A. SADOFF

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Dave A. Sadoff	1/10/01	11:15	[signature]	1-10-01	11:15

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #	

Analytical Sciences

January 29, 2001

Dave Sadoff
Environmental Bio-Systems, Inc.
P.O. Box 7171
San Jose, CA 95150-7171

Dear Dave,

Enclosed you will find Analytical Sciences' final report 1011104 for your Holland Estate – 150-561B project site. An invoice for this work is enclosed.

Should you or your client have any questions regarding this report please contact me at your convenience. We appreciate you selecting Analytical Sciences for this work and look forward to serving your analytical chemistry needs on projects in the future.

Sincerely,

Analytical Sciences

Mark A. Valentini

PO Box 750336
Petaluma, CA 94975-0336
Telephone: (707) 769-3128

110 Liberty Street
Petaluma, CA 94952
Fax: (707) 769-8093

Analytical Sciences

Report Date: January 26, 2001

Environmental Bio-Systems, Inc.
P.O. Box 7171
San Jose, CA 95150-7171
ATTN: Dave Sadoff

LABORATORY REPORT

Project Name: **Holland Estate 150-561B**

Lab Project Number: **1011104**

This 24 page report of analytical data has been reviewed and approved for release.

Mark A. Valentini

Mark A. Valentini, Ph.D.
Laboratory Director

PO Box 750336
Petaluma, CA 94975-0336
Telephone: (707) 769-3128

110 Liberty Street
Petaluma, CA 94952
Fax: (707) 769-8093

TPH Gasoline in Soil

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01995	SC25-2'	TPH/Gasoline	460	25
		MTBE	ND	2.5
		Benzene	ND	0.5
		Toluene	ND	0.5
		Ethyl Benzene	ND	0.5
		Xylenes	ND	1.5

Date Sampled: 01/10/01 Date Analyzed: 01/15/01, 01/19/01 QC Batch #: 1623
Date Received: 01/11/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01996	SC25-5'	TPH/Gasoline	1.2	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	ND	0.015

Date Sampled: 01/10/01 Date Analyzed: 01/15/01, 01/20/01 QC Batch #: 1623
Date Received: 01/11/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01997	SC25-9'	TPH/Gasoline	250	25
		MTBE	ND	2.5
		Benzene	ND	0.5
		Toluene	ND	0.5
		Ethyl Benzene	ND	0.5
		Xylenes	ND	1.5

Date Sampled: 01/10/01 Date Analyzed: 01/15/01, 01/19/01 QC Batch #: 1623
Date Received: 01/11/01 Method: EPA 8015M/8020

Lab Project #: 1011104

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01998	SC26-2'	TPH/Gasoline	4,500	200
		MTBE	ND	10
		Benzene	7.8	2.0
		Toluene	5.6	2.0
		Ethyl Benzene	34	2.0
		Xylenes	160	6.0

Date Sampled: 01/10/01
Date Received: 01/11/01
Date Analyzed: 01/15/01, 01/18/01
Method: EPA 8015M/8020
QC Batch #: 1623

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01999	SC26-5'	TPH/Gasoline	2,100	50
		MTBE	ND	5.0
		Benzene	ND	1.0
		Toluene	1.5	1.0
		Ethyl Benzene	4.9	1.0
		Xylenes	12	3.0

Date Sampled: 01/10/01
Date Received: 01/11/01
Date Analyzed: 01/15/01, 01/18/01
Method: EPA 8015M/8020
QC Batch #: 1623

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02000	SC26-9'	TPH/Gasoline	230	25
		MTBE	ND	2.5
		Benzene	ND	0.5
		Toluene	ND	0.5
		Ethyl Benzene	ND	0.5
		Xylenes	ND	1.5

Date Sampled: 01/10/01
Date Received: 01/11/01
Date Analyzed: 01/15/01, 01/19/01
Method: EPA 8015M/8020
QC Batch #: 1623

Lab Project #: 1011104

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02001	SC27-2'	TPH/Gasoline	470	50
		MTBE	ND	5.0
		Benzene	ND	1.0
		Toluene	ND	1.0
		Ethyl Benzene	ND	1.0
		Xylenes	ND	3.0

Date Sampled: 01/10/01 Date Received: 01/11/01 Date Analyzed: 01/16/01, 01/18/01 Method: EPA 8015M/8020 QC Batch #: 1623

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02002	SC27-5'	TPH/Gasoline	840	50
		MTBE	ND	5.0
		Benzene	ND	1.0
		Toluene	ND	1.0
		Ethyl Benzene	1.9	1.0
		Xylenes	3.8	3.0

Date Sampled: 01/10/01 Date Received: 01/11/01 Date Analyzed: 01/16/01, 01/18/01 Method: EPA 8015M/8020 QC Batch #: 1623

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02003	SC27-9'	TPH/Gasoline	180	25
		MTBE	ND	2.5
		Benzene	ND	0.5
		Toluene	ND	0.5
		Ethyl Benzene	ND	0.5
		Xylenes	2.2	1.5

Date Sampled: 01/10/01 Date Received: 01/11/01 Date Analyzed: 01/16/01, 01/19/01 Method: EPA 8015M/8020 QC Batch #: 1623

Lab Project #: 1011104

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02004	SC28-2'	TPH/Gasoline	ND	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	0.015	0.015

Date Sampled: 01/10/01 Date Analyzed: 01/22/01 QC Batch #: 1623
Date Received: 01/11/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02005	SC28-5'	TPH/Gasoline	1.2	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	0.015	0.015

Date Sampled: 01/10/01 Date Analyzed: 01/20/01 QC Batch #: 1623
Date Received: 01/11/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02006	SC28-8.5'	TPH/Gasoline	3.8	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	0.007	0.005
		Ethyl Benzene	0.005	0.005
		Xylenes	0.095	0.015

Date Sampled: 01/10/01 Date Analyzed: 01/16/01, 01/20/01 QC Batch #: 1623
Date Received: 01/11/01 Method: EPA 8015M/8020

Lab Project #: 1011104 CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02007	SC29-2'	TPH/Gasoline	600	50
		MTBE	ND	5.0
		Benzene	ND	1.0
		Toluene	ND	1.0
		Ethyl Benzene	1.3	1.0
		Xylenes	7.3	3.0

Date Sampled: 01/10/01
Date Received: 01/11/01
Date Analyzed: 01/15/01, 01/18/01
Method: EPA 8015M/8020
QC Batch #: 1623

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02008	SC29-5'	TPH/Gasoline	ND	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	ND	0.015

Date Sampled: 01/10/01
Date Received: 01/11/01
Date Analyzed: 01/15/01, 01/20/01
Method: EPA 8015M/8020
QC Batch #: 1623

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02009	SC29-9'	TPH/Gasoline	870	50
		MTBE	ND	5.0
		Benzene	ND	1.0
		Toluene	ND	1.0
		Ethyl Benzene	1.7	1.0
		Xylenes	11	3.0

Date Sampled: 01/10/01
Date Received: 01/11/01
Date Analyzed: 01/15/01, 01/18/01
Method: EPA 8015M/8020
QC Batch #: 1623

Lab Project #: 1011104

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02010	SC30-2'	TPH/Gasoline	1.0	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	0.029	0.015

Date Sampled: 01/10/01
Date Received: 01/11/01
Date Analyzed: 01/22/01
Method: EPA 8015M/8020
QC Batch #: 1623

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02011	SC30-5'	TPH/Gasoline	ND	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	ND	0.015

Date Sampled: 01/10/01
Date Received: 01/11/01
Date Analyzed: 01/20/01
Method: EPA 8015M/8020
QC Batch #: 1624

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02012	SC30-8.5'	TPH/Gasoline	160	50
		MTBE	ND	5.0
		Benzene	ND	1.0
		Toluene	ND	1.0
		Ethyl Benzene	ND	1.0
		Xylenes	ND	3.0

Date Sampled: 01/10/01
Date Received: 01/11/01
Date Analyzed: 01/15/01, 01/19/01
Method: EPA 8015M/8020
QC Batch #: 1624

Lab Project #: 1011104

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02013	SC31-2'	TPH/Gasoline	1.7	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	ND	0.015

Date Sampled: 01/10/01
Date Received: 01/11/01
Date Analyzed: 01/20/01
Method: EPA 8015M/8020
QC Batch #: 1624

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02014	SC31-5'	TPH/Gasoline	ND	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	ND	0.015

Date Sampled: 01/10/01
Date Received: 01/11/01
Date Analyzed: 01/20/01
Method: EPA 8015M/8020
QC Batch #: 1624

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02015	SC31-9'	TPH/Gasoline	2.1	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	0.044	0.015

Date Sampled: 01/10/01
Date Received: 01/11/01
Date Analyzed: 01/20/01
Method: EPA 8015M/8020
QC Batch #: 1624

Lab Project #: 1011104

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02016	SC32-2'	TPH/Gasoline	1,900	50
		MTBE	ND	5.0
		Benzene	2.8	1.0
		Toluene	1.3	1.0
		Ethyl Benzene	9.9	1.0
		Xylenes	40	3.0

Date Sampled: 01/10/01
Date Received: 01/11/01
Date Analyzed: 01/15/01, 01/19/01
Method: EPA 8015M/8020
QC Batch #: 1624

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02017	SC32-5'	TPH/Gasoline	440	50
		MTBE	ND	5.0
		Benzene	ND	1.0
		Toluene	ND	1.0
		Ethyl Benzene	ND	1.0
		Xylenes	4.0	3.0

Date Sampled: 01/10/01
Date Received: 01/11/01
Date Analyzed: 01/15/01, 01/19/01
Method: EPA 8015M/8020
QC Batch #: 1624

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02018	SC32-9'	TPH/Gasoline	2,300	50
		MTBE	ND	5.0
		Benzene	5.5	1.0
		Toluene	2.1	1.0
		Ethyl Benzene	29	1.0
		Xylenes	41	3.0

Date Sampled: 01/10/01
Date Received: 01/11/01
Date Analyzed: 01/16/01, 01/19/01
Method: EPA 8015M/8020
QC Batch #: 1624

Lab Project #: 1011104

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02019	SC33-2'	TPH/Gasoline	ND	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	ND	0.015

Date Sampled: 01/10/01 Date Received: 01/11/01 Date Analyzed: 01/20/01 Method: EPA 8015M/8020 QC Batch #: 1624

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02020	SC33-5'	TPH/Gasoline	4,200	50
		MTBE	ND	5.0
		Benzene	2.6	1.0
		Toluene	6.0	1.0
		Ethyl Benzene	46	1.0
		Xylenes	100	3.0

Date Sampled: 01/10/01 Date Received: 01/11/01 Date Analyzed: 01/16/01, 01/18/01 Method: EPA 8015M/8020 QC Batch #: 1624

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02021	SC33-9'	TPH/Gasoline	960	50
		MTBE	ND	5.0
		Benzene	3.4	1.0
		Toluene	3.0	1.0
		Ethyl Benzene	12	1.0
		Xylenes	27	3.0

Date Sampled: 01/10/01 Date Received: 01/11/01 Date Analyzed: 01/16/01, 01/22/01 Method: EPA 8015M/8020 QC Batch #: 1624

Lab Project #: 1011104

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02022	SC34-2'	TPH/Gasoline	3.1	1.0
		MTBE	ND	0.025
		Benzene	0.020	0.005
		Toluene	0.030	0.005
		Ethyl Benzene	0.015	0.005
		Xylenes	0.038	0.015

Date Sampled: 01/10/01 Date Analyzed: 01/23/01 QC Batch #: 1624
Date Received: 01/11/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02023	SC34-5'	TPH/Gasoline	ND	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	ND	0.015

Date Sampled: 01/10/01 Date Analyzed: 01/20/01 QC Batch #: 1624
Date Received: 01/11/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02024	SC34-9'	TPH/Gasoline	330	50
		MTBE	ND	5.0
		Benzene	ND	1.0
		Toluene	1.3	1.0
		Ethyl Benzene	1.4	1.0
		Xylenes	3.6	3.0

Date Sampled: 01/10/01 Date Analyzed: 01/16/01, 01/23/01 QC Batch #: 1624
Date Received: 01/11/01 Method: EPA 8015M/8020

Lab Project #: 1011104

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02025	SC35-2'	TPH/Gasoline	9.5	1.0
		MTBE	ND	0.025
		Benzene	0.094	0.005
		Toluene	0.045	0.005
		Ethyl Benzene	0.62	0.005
		Xylenes	1.2	0.015

Date Sampled: 01/10/01 Date Analyzed: 01/23/01 QC Batch #: 1624
Date Received: 01/11/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02026	SC35-5'	TPH/Gasoline	5.0	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	0.042	0.005
		Xylenes	0.091	0.015

Date Sampled: 01/10/01 Date Analyzed: 01/20/01 QC Batch #: 1624
Date Received: 01/11/01 Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02027	SC35-8.5'	TPH/Gasoline	13,000	500
		MTBE	ND	50
		Benzene	61	10
		Toluene	35	10
		Ethyl Benzene	240	10
		Xylenes	1,100	30

Date Sampled: 01/10/01 Date Analyzed: 01/23/01 QC Batch #: 1624
Date Received: 01/11/01 Method: EPA 8015M/8020

Lab Project #: 1011104

CA Lab Accreditation #: 2303

TPH Diesel, Kerosene & Stoddard Solvent in Soil

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01995	SC25-2'	TPH/Diesel	1,200	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled:	01/10/01	Date Extracted:	01/15/01	QC Batch #:	1610
Date Received:	01/11/01	Date Analyzed:	01/16/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01996	SC25-5'	TPH/Diesel	ND	5.0
		TPH/Kerosene	ND	5.0
		TPH/Stoddard Solvent	ND	5.0

Date Sampled:	01/10/01	Date Extracted:	01/15/01	QC Batch #:	1610
Date Received:	01/11/01	Date Analyzed:	01/16/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01997	SC25-9'	TPH/Diesel	770	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled:	01/10/01	Date Extracted:	01/15/01	QC Batch #:	1610
Date Received:	01/11/01	Date Analyzed:	01/16/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01998	SC26-2'	TPH/Diesel	6,000	50
		TPH/Kerosene	①	50
		TPH/Stoddard Solvent	①	50

Date Sampled:	01/10/01	Date Extracted:	01/15/01	QC Batch #:	1610
Date Received:	01/11/01	Date Analyzed:	01/16/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
01999	SC26-5'	TPH/Diesel	4,800	50
		TPH/Kerosene	①	50
		TPH/Stoddard Solvent	①	50

Date Sampled: 01/10/01
Date Received: 01/11/01
Date Extracted: 01/15/01
Date Analyzed: 01/16/01
QC Batch #: 1610
Method: EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02000	SC26-9'	TPH/Diesel	610	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled: 01/10/01
Date Received: 01/11/01
Date Extracted: 01/15/01
Date Analyzed: 01/16/01
QC Batch #: 1610
Method: EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02001	SC27-2'	TPH/Diesel	1,900	25
		TPH/Kerosene	①	25
		TPH/Stoddard Solvent	①	25

Date Sampled: 01/10/01
Date Received: 01/11/01
Date Extracted: 01/15/01
Date Analyzed: 01/17/01
QC Batch #: 1612
Method: EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02002	SC27-5'	TPH/Diesel	1,800	25
		TPH/Kerosene	①	25
		TPH/Stoddard Solvent	①	25

Date Sampled: 01/10/01
Date Received: 01/11/01
Date Extracted: 01/15/01
Date Analyzed: 01/17/01
QC Batch #: 1612
Method: EPA 3550/8015M

Lab Project #: 1011104

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02003	SC27-9'	TPH/Diesel	150	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled:	01/10/01	Date Extracted:	01/15/01	QC Batch #:	1612
Date Received:	01/11/01	Date Analyzed:	01/16/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02004	SC28-2'	TPH/Diesel	580	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled:	01/10/01	Date Extracted:	01/15/01	QC Batch #:	1612
Date Received:	01/11/01	Date Analyzed:	01/16/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02005	SC28-5'	TPH/Diesel	26	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled:	01/10/01	Date Extracted:	01/15/01	QC Batch #:	1612
Date Received:	01/11/01	Date Analyzed:	01/16/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02006	SC28-8.5'	TPH/Diesel	24	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled:	01/10/01	Date Extracted:	01/15/01	QC Batch #:	1612
Date Received:	01/11/01	Date Analyzed:	01/17/01	Method:	EPA 3550/8015M

Lab Project #: 1011104

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02007	SC29-2'	TPH/Diesel	1,800	25
		TPH/Kerosene	①	25
		TPH/Stoddard Solvent	①	25

Date Sampled: 01/10/01 | Date Extracted: 01/15/01 | QC Batch #: 1612
Date Received: 01/11/01 | Date Analyzed: 01/17/01 | Method: EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02008	SC29-5'	TPH/Diesel	ND	5.0
		TPH/Kerosene	ND	5.0
		TPH/Stoddard Solvent	ND	5.0

Date Sampled: 01/10/01 | Date Extracted: 01/15/01 | QC Batch #: 1612
Date Received: 01/11/01 | Date Analyzed: 01/17/01 | Method: EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02009	SC29-9'	TPH/Diesel	2,300	25
		TPH/Kerosene	①	25
		TPH/Stoddard Solvent	①	25

Date Sampled: 01/10/01 | Date Extracted: 01/15/01 | QC Batch #: 1612
Date Received: 01/11/01 | Date Analyzed: 01/17/01 | Method: EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02010	SC30-2'	TPH/Diesel	980	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled: 01/10/01 | Date Extracted: 01/15/01 | QC Batch #: 1612
Date Received: 01/11/01 | Date Analyzed: 01/17/01 | Method: EPA 3550/8015M

Lab Project #: 1011104

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02011	SC30-5'	TPH/Diesel	ND	5.0
		TPH/Kerosene	ND	5.0
		TPH/Stoddard Solvent	ND	5.0

Date Sampled:	01/10/01	Date Extracted:	01/15/01	QC Batch #:	1612
Date Received:	01/11/01	Date Analyzed:	01/17/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02012	SC30-8.5'	TPH/Diesel	200	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled:	01/10/01	Date Extracted:	01/15/01	QC Batch #:	1612
Date Received:	01/11/01	Date Analyzed:	01/17/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02013	SC31-2'	TPH/Diesel	7.2	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled:	01/10/01	Date Extracted:	01/15/01	QC Batch #:	1612
Date Received:	01/11/01	Date Analyzed:	01/17/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02014	SC31-5'	TPH/Diesel	ND	5.0
		TPH/Kerosene	ND	5.0
		TPH/Stoddard Solvent	ND	5.0

Date Sampled:	01/10/01	Date Extracted:	01/15/01	QC Batch #:	1612
Date Received:	01/11/01	Date Analyzed:	01/17/01	Method:	EPA 3550/8015M

Lab Project #: 1011104

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02015	SC31-9'	TPH/Diesel	5.2	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled:	01/10/01	Date Extracted:	01/15/01	QC Batch #:	1612
Date Received:	01/11/01	Date Analyzed:	01/17/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02016	SC32-2'	TPH/Diesel	2,300	25
		TPH/Kerosene	①	25
		TPH/Stoddard Solvent	①	25

Date Sampled:	01/10/01	Date Extracted:	01/15/01	QC Batch #:	1612
Date Received:	01/11/01	Date Analyzed:	01/18/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02017	SC32-5'	TPH/Diesel	840	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled:	01/10/01	Date Extracted:	01/15/01	QC Batch #:	1612
Date Received:	01/11/01	Date Analyzed:	01/17/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02018	SC32-9'	TPH/Diesel	3,900	25
		TPH/Kerosene	①	25
		TPH/Stoddard Solvent	①	25

Date Sampled:	01/10/01	Date Extracted:	01/15/01	QC Batch #:	1612
Date Received:	01/11/01	Date Analyzed:	01/18/01	Method:	EPA 3550/8015M

Lab Project #: 1011104

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02019	SC33-2'	TPH/Diesel	ND	5.0
		TPH/Kerosene	ND	5.0
		TPH/Stoddard Solvent	ND	5.0

Date Sampled:	01/10/01	Date Extracted:	01/15/01	QC Batch #:	1612
Date Received:	01/11/01	Date Analyzed:	01/17/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02020	SC33-5'	TPH/Diesel	5,200	50
		TPH/Kerosene	①	50
		TPH/Stoddard Solvent	①	50

Date Sampled:	01/10/01	Date Extracted:	01/15/01	QC Batch #:	1612
Date Received:	01/11/01	Date Analyzed:	01/18/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02021	SC33-9'	TPH/Diesel	370	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled:	01/10/01	Date Extracted:	01/16/01	QC Batch #:	1617
Date Received:	01/11/01	Date Analyzed:	01/17/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02022	SC34-2'	TPH/Diesel	270	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled:	01/10/01	Date Extracted:	01/16/01	QC Batch #:	1617
Date Received:	01/11/01	Date Analyzed:	01/17/01	Method:	EPA 3550/8015M

Lab Project #: 1011104

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02023	SC34-5'	TPH/Diesel	ND	5.0
		TPH/Kerosene	ND	5.0
		TPH/Stoddard Solvent	ND	5.0

Date Sampled:	01/10/01	Date Extracted:	01/16/01	QC Batch #:	1617
Date Received:	01/11/01	Date Analyzed:	01/17/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02024	SC34-9'	TPH/Diesel	360	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled:	01/10/01	Date Extracted:	01/16/01	QC Batch #:	1617
Date Received:	01/11/01	Date Analyzed:	01/17/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02025	SC35-2'	TPH/Diesel	130	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled:	01/10/01	Date Extracted:	01/16/01	QC Batch #:	1617
Date Received:	01/11/01	Date Analyzed:	01/17/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02026	SC35-5'	TPH/Diesel	10	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled:	01/10/01	Date Extracted:	01/16/01	QC Batch #:	1617
Date Received:	01/11/01	Date Analyzed:	01/17/01	Method:	EPA 3550/8015M

Lab Project #: 1011104

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02027	**SC35-8.5'**	**TPH/Diesel**	**7,400**	100
		TPH/Kerosene	①	100
		TPH/Stoddard Solvent	①	100

Date Sampled:	01/10/01	Date Extracted:	01/16/01	QC Batch #:	1617
Date Received:	01/11/01	Date Analyzed:	01/18/01	Method:	EPA 3550/8015M

① Analytical Sciences compared the observed chromatogram with reference chromatograms for diesel, kerosene and stoddard solvent. The reported value reflects the full amount of semivolatile hydrocarbons observed. The entry is made into the cell that reflects the determined source based upon the best pattern match.

LABORATORY
QUALITY ASSURANCE REPORT

QC Batch #: 1623 **Lab Project #:** 1011104

Sample ID	Compound	Result (mg/kg)
MB	TPH/Gas	ND
MB	MTBE	ND
MB	Benzene	ND
MB	Toluene	ND
MB	Ethyl Benzene	ND
MB	Xylenes	ND

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.
LCS	TPH/Gas		NS	
LCS	Benzene	0.180	0.200	90.2
LCS	Toluene	0.193	0.200	96.5
LCS	Ethyl Benzene	0.197	0.200	98.5
LCS	Xylenes	0.595	0.600	99.2

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.	RPD
LCSD	TPH/Gas		NS		
LCSD	Benzene	0.178	0.200	88.9	1.5
LCSD	Toluene	0.189	0.200	94.4	2.2
LCSD	Ethyl Benzene	0.193	0.200	96.5	2.0
LCSD	Xylenes	0.583	0.600	97.2	2.0

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

QC Batch #: 1624 **Lab Project #:** 1011104

Sample ID	Compound	Result (mg/kg)
MB	TPH/Gas	ND
MB	MTBE	ND
MB	Benzene	ND
MB	Toluene	ND
MB	Ethyl Benzene	ND
MB	Xylenes	ND

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.
LCS	TPH/Gas		NS	
LCS	Benzene	0.0473	0.0500	94.5
LCS	Toluene	0.0505	0.0500	101
LCS	Ethyl Benzene	0.0519	0.0500	104
LCS	Xylenes	0.156	0.150	104

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.	RPD
LCSD	TPH/Gas		NS		
LCSD	Benzene	0.0485	0.0500	96.9	2.5
LCSD	Toluene	0.0523	0.0500	105	3.5
LCSD	Ethyl Benzene	0.0539	0.0500	108	3.8
LCSD	Xylenes	0.163	0.150	109	4.4

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

QC Batch #: 1610 **Lab Project #:** 1011104

Sample ID	Compound	Result (mg/kg)
MB	TPH/Diesel	ND

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.
LCS	TPH/Diesel	171	246	69.5

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.	RPD
LCSD	TPH/Diesel	172	246	69.9	0.58

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

QC Batch #: 1612 **Lab Project #:** 1011104

Sample ID	Compound	Result (mg/kg)
MB	TPH/Diesel	ND

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.
LCS	TPH/Diesel	171	246	69.5

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.	RPD
LCSD	TPH/Diesel	172	246	69.9	0.58

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

QC Batch #: 1610 **Lab Project #:** 1011104

Sample ID	Compound	Result (mg/kg)
MB	TPH/Diesel	ND

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.
LCS	TPH/Diesel	171	246	69.5

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.	RPD
LCSD	TPH/Diesel	172	246	69.9	0.58

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

QC Batch #: 1612 **Lab Project #:** 1011104

Sample ID	Compound	Result (mg/kg)
MB	TPH/Diesel	ND

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.
LCS	TPH/Diesel	171	246	69.5

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.	RPD
LCSD	TPH/Diesel	172	246	69.9	0.58

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

QC Batch #: 1624 **Lab Project #:** 1011104

Sample ID	Compound	Result (mg/kg)
MB	TPH/Gas	ND
MB	MTBE	ND
MB	Benzene	ND
MB	Toluene	ND
MB	Ethyl Benzene	ND
MB	Xylenes	ND

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.
LCS	TPH/Gas		NS	
LCS	Benzene	0.0473	0.0500	94.5
LCS	Toluene	0.0505	0.0500	101
LCS	Ethyl Benzene	0.0519	0.0500	104
LCS	Xylenes	0.156	0.150	104

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.	RPD
LCSD	TPH/Gas		NS		
LCSD	Benzene	0.0485	0.0500	96.9	2.5
LCSD	Toluene	0.0523	0.0500	105	3.5
LCSD	Ethyl Benzene	0.0539	0.0500	108	3.8
LCSD	Xylenes	0.163	0.150	109	4.4

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

ENVIRONMENTAL BIO-SYSTEMS, INC.
Innovative Solutions for a Better Environment
P.O. Box 7171
San Jose, CA 95150-7171
(408) 979-8600

CHAIN OF CUSTODY

LAB Project # 1011104

ADDITIONAL INSTRUCTIONS:

1 OF 3

PROJECT NUMBER	150 - 5614 B
CLIENT	HOLLAND ESTATE
SITE	16301 E. 14TH ST
	SAN LEANDRO, CA

SAMPLE I.D.	MATRIX	NUMBER OF CONTAINERS	COMPOSITE	ANALYSES: TPH-g +BTEX+MTBE	ANALYSES: TPH-d + TPH-mo	ANALYSES: TOG+SS	TIME COLLECTED	TURNAROUND	LAB SAMPLE #
SC25-2'	SOIL	1		X	X	X	13:41	STANDARD	01995
SC25-5'	"	"		"	"	"	13:44	"	01996
SC25-9'							13:48		01997
SC26-2'							14:00		01998
SC26-5'							14:03		01999
SC26-9'							14:09		02000
SC27-2'							12:47		02001
SC27-5'							12:50		02002
SC27-9'							12:57		02003
SC28-2'							13:22		02004
SC28-5'							13:24		02005

DATE SAMPLING COMPLETED: 1/10/01

SAMPLING PERFORMED BY: DAVE A. SADOFF

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Dave A. Sadoff	1/11/01	12:37	Linda Kadusiewicz	01/11/01	12:37

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

LAB Project # 1011104

ENVIRONMENTAL BIO-SYSTEMS, INC.
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San Jose, CA 95150-7171
(408) 979-8600

CHAIN OF CUSTODY

ADDITIONAL INSTRUCTIONS:

2 OF 3

PROJECT NUMBER: 150-5613
CLIENT: HOLLAND ESTATE
SITE: 16301 E. 14TH ST.
SAN LEANDRO, CA

SAMPLE I.D.	MATRIX	NUMBER OF CONTAINERS	COMPOSITE	ANALYSES: TPH(D) + BTEX + MTBE	ANALYSES: TPH(G) + BTEX + MTBE	ANALYSES: TTLC	TIME COLLECTED	TURNAROUND	LAB SAMPLE #
SC28-8.5'	SOIL	1		X	X	X	13:29	STANDARD	02006
SC29-2'	"	"		"	"	"	10:30	"	02007
SC29-5'	"	"		"	"	"	10:33	"	02008
SC29-9'	"	"		"	"	"	10:37	"	02009
SC30-2'	"	"		"	"	"	10:13	"	02010
SC30-5'	"	"		"	"	"	10:17	"	02011
SC30-8.5'	"	"		"	"	"	10:23	"	02012
SC31-2'	"	"		"	"	"	13:04	"	02013
SC31-5'	"	"		"	"	"	13:07	"	02014
SC31-9'	"	"		"	"	"	13:11	"	02015
SC32-2'	"	"		"	"	"	10:51	"	02016

DATE SAMPLING COMPLETED: 01/10/01

SAMPLING PERFORMED BY: DAVE A. SADOSKY

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Dave A. Sadosky	1/11/01	12:37	Linda Kadrmas	01/11/01	12:37
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

ENVIRONMENTAL BIO-SYSTEMS, INC.
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San Jose, CA 95150-7171
(408) 979-8600

CHAIN OF CUSTODY

LAB PROJECT # 1017104

ADDITIONAL INSTRUCTIONS:

3 OF 3

PROJECT NUMBER	150-5663
CLIENT	HOLLAND ESTATE
SITE	16301 E. 14TH ST.
	SAN LEANDRO, CA

SAMPLE I.D.	MATRIX	NUMBER OF CONTAINERS	COMPOSITE	ANALYSES: TPH/BTEX + MTBE	ANALYSES: TPH/BTEX + MTBE	ANALYSES: TPH 55	TIME COLLECTED	TURNAROUND	LAB SAMPLE #
SC32-5'	SOIL	1		X	X	X	10:56	STANDARD	02017
SC32-9'							11:03		02018
SC33-2'							10:50		02019
SC33-5'							10:55		02020
SC33-9'							11:02		02021
SC34-2'							9:30		02022
SC34-5'							9:36		02023
SC34-9'							9:42		02024
SC35-2'							12:31		02025
SC35-5'	V	V		V	V	V	12:35		02026
SC35-8.5'							12:40	V	02027

DATE SAMPLING COMPLETED: 1/11/01

SAMPLING PERFORMED BY: DAVE A. SMITH

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Dave A. Smith	1/11/01	12:37	Lynda Kadama	01/11/01	12:37
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #	

Analytical Sciences

January 29, 2001

Dave Sadoff
Environmental Bio-Systems, Inc.
P.O. Box 7171
San Jose, CA 95150-7171

Dear Dave,

Enclosed you will find Analytical Sciences' final report 1011501 for your Holland Estate – 150-561B project site. As required by the California Department of Health Services, the letterhead copy of the report for work performed by the subcontracted laboratory is included. An invoice for this work is enclosed.

Should you or your client have any questions regarding this report please contact me at your convenience. We appreciate you selecting Analytical Sciences for this work and look forward to serving your analytical chemistry needs on projects in the future.

Sincerely,

Analytical Sciences

Mark A. Valentini

PO Box 750336
Petaluma, CA 94975-0336
Telephone: (707) 769-3128

110 Liberty Street
Petaluma, CA 94952
Fax: (707) 769-8093

Analytical Sciences

Report Date: January 29, 2001

Environmental Bio-Systems, Inc.
P.O. Box 7171
San Jose, CA 95150-7171
ATTN: Dave Sadoff

LABORATORY REPORT

Project Name: **Holland Estate 150-561B**

Lab Project Number: **1011501**

This 15 page report of analytical data has been reviewed and approved for release.

Mark A. Valentini, Ph.D.
Laboratory Director

PO Box 750336
Petaluma, CA 94975-0336
Telephone: (707) 769-3128

110 Liberty Street
Petaluma, CA 94952
Fax: (707) 769-8093

TPH Gasoline in Soil

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02049	MW4-5'	TPH/Gasoline	300	50
		MTBE	ND	5.0
		Benzene	ND	1.0
		Toluene	ND	1.0
		Ethyl Benzene	ND	1.0
		Xylenes	6.6	3.0

Date Sampled: 01/12/01 | Date Analyzed: 01/18/01, 01/19/01 | QC Batch #: 1624
Date Received: 01/15/01 | Method: EPA 8015M/8020

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02050	MW4-9'	TPH/Gasoline	960	50
		MTBE	ND	5.0
		Benzene	ND	1.0
		Toluene	ND	1.0
		Ethyl Benzene	1.3	1.0
		Xylenes	14	3.0

Date Sampled: 01/12/01 | Date Analyzed: 01/18/01, 01/19/01 | QC Batch #: 1624
Date Received: 01/15/01 | Method: EPA 8015M/8020

Lab Project #: 1011501

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02052	MW5-5'	TPH/Gasoline	ND	1.0
		MTBE	ND	0.025
		Benzene	ND	0.005
		Toluene	ND	0.005
		Ethyl Benzene	ND	0.005
		Xylenes	0.019	0.015

Date Sampled: 01/12/01
Date Received: 01/15/01
Date Analyzed: 01/23/01
Method: EPA 8015M/8020
QC Batch #: 1624

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02053	MW5-9'	TPH/Gasoline	280	25
		MTBE	ND	2.5
		Benzene	ND	0.50
		Toluene	ND	0.50
		Ethyl Benzene	ND	0.50
		Xylenes	2.3	1.5

Date Sampled: 01/12/01
Date Received: 01/15/01
Date Analyzed: 01/23/01, 01/24/01
Method: EPA 8015M/8020
QC Batch #: 1625

Lab Project #: 1011501

CA Lab Accreditation #: 2303

TPH Diesel, Kerosene & Stoddard Solvent in Soil

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02049	**MW4-5'**	**TPH/Diesel**	**1,800**	25
		TPH/Kerosene	①	25
		TPH/Stoddard Solvent	①	25

Date Sampled:	01/12/01	Date Extracted:	01/16/01	QC Batch #:	1617
Date Received:	01/15/01	Date Analyzed:	01/17/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02050	**MW4-9'**	**TPH/Diesel**	**2,300**	25
		TPH/Kerosene	①	25
		TPH/Stoddard Solvent	①	25

Date Sampled:	01/12/01	Date Extracted:	01/16/01	QC Batch #:	1617
Date Received:	01/15/01	Date Analyzed:	01/17/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02052	**MW5-5'**	**TPH/Diesel**	**220**	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled:	01/12/01	Date Extracted:	01/16/01	QC Batch #:	1617
Date Received:	01/15/01	Date Analyzed:	01/16/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02053	**MW5-9'**	**TPH/Diesel**	**230**	5.0
		TPH/Kerosene	①	5.0
		TPH/Stoddard Solvent	①	5.0

Date Sampled:	01/12/01	Date Extracted:	01/16/01	QC Batch #:	1617
Date Received:	01/15/01	Date Analyzed:	01/16/01	Method:	EPA 3550/8015M

① Analytical Sciences compared the observed chromatogram with reference chromatograms for diesel, kerosene and stoddard solvent. The reported value reflects the full amount of semivolatile hydrocarbons observed. The entry is made into the cell that reflects the determined source based upon the best pattern match.

Total Oil and Grease in Soil

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02049	MW4-5'	Total Oil & Grease	4,700	200

Date Sampled: 01/12/01
Date Received: 01/15/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1616
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02050	MW4-9'	Total Oil & Grease	1,700	200

Date Sampled: 01/12/01
Date Received: 01/15/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1616
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02052	MW5-5'	Total Oil & Grease	350	20

Date Sampled: 01/12/01
Date Received: 01/15/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1616
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/kg)	RDL (mg/kg)
02053	MW5-9'	Total Oil & Grease	670	20

Date Sampled: 01/12/01
Date Received: 01/15/01
Date Extracted: 01/19/01
Date Analyzed: 01/19/01
QC Batch #: 1616
Method: SM5520F
10/30w Motor Oil was used as the standard

Lab Project #: 1011501

CA Lab Accreditation #: 2303

Chlorinated Solvents in Soil

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
02049	MW4-5'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	2.0	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 01/12/01
Date Received: 01/15/01
Date Analyzed: 01/23/01
Method: EPA 5030/8010
QC Batch #: 1630

Lab Project #: 1011501

CA Lab Accreditation #: 2303

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
02050	MW-4-9'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	9.8	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	1.0	1.0

Date Sampled: 01/12/01
Date Received: 01/15/01
Date Analyzed: 01/23/01
Method: EPA 5030/8010
QC Batch #: 1630

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
02052	MW5-5'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 01/12/01
Date Received: 01/15/01
Date Analyzed: 01/23/01
Method: EPA 5030/8010
QC Batch #: 1630

Lab Project #: 1011501

CA Lab Accreditation #: 2303

Lab #	Sample ID	Compound Name	Result (ug/kg)	RDL (ug/kg)
02053	MW5-9'	dichlorodifluoromethane	ND	1.0
		chloromethane	ND	1.0
		vinyl chloride	ND	1.0
		bromomethane	ND	1.0
		chloroethane	ND	1.0
		trichlorofluoromethane	ND	1.0
		1,1-dichloroethene	ND	1.0
		methylene chloride	ND	1.0
		trans-1,2-dichloroethene	ND	1.0
		1,1-dichloroethane	ND	1.0
		cis-1,2-dichloroethene	ND	1.0
		chloroform	ND	1.0
		1,1,1-trichloroethane	ND	1.0
		carbon tetrachloride	ND	1.0
		1,2-dichloroethane	ND	1.0
		trichloroethene	ND	1.0
		1,2-dichloropropane	ND	1.0
		bromodichloromethane	ND	1.0
		dibromomethane	ND	1.0
		trans-1,3-dichloropropene	ND	1.0
		1,1,2-trichloroethane	ND	1.0
		tetrachloroethene	ND	1.0
		dibromochloromethane	ND	1.0
		chlorobenzene	ND	1.0
		1,1,1,2-tetrachloroethane	ND	1.0
		bromoform	ND	1.0
		1,1,2,2-tetrachloroethane	ND	1.0
		1,2,3-trichloropropane	ND	1.0
		bromobenzene	ND	1.0
		chlorotoluene	ND	1.0
		1,3-dichlorobenzene	ND	1.0
		1,4-dichlorobenzene	ND	1.0
		1,2-dichlorobenzene	ND	1.0

Date Sampled: 01/12/01
Date Received: 01/15/01
Date Analyzed: 01/23/01
Method: EPA 5030/8010
QC Batch #: 1630

Lab Project #: 1011501

CA Lab Accreditation #: 2303

LABORATORY
QUALITY ASSURANCE REPORT

QC Batch #: 1624 **Lab Project #:** 1011501

Sample ID	Compound	Result (mg/kg)
MB	TPH/Gas	ND
MB	MTBE	ND
MB	Benzene	ND
MB	Toluene	ND
MB	Ethyl Benzene	ND
MB	Xylenes	ND

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.
LCS	TPH/Gas		NS	
LCS	Benzene	0.0473	0.0500	94.5
LCS	Toluene	0.0505	0.0500	101
LCS	Ethyl Benzene	0.0519	0.0500	104
LCS	Xylenes	0.156	0.150	104

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.	RPD
LCSD	TPH/Gas		NS		
LCSD	Benzene	0.0485	0.0500	96.9	2.5
LCSD	Toluene	0.0523	0.0500	105	3.5
LCSD	Ethyl Benzene	0.0539	0.0500	108	3.8
LCSD	Xylenes	0.163	0.150	109	4.4

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

QC Batch #: 1625 **Lab Project #:** 1011501

Sample ID	Compound	Result (mg/kg)
MB	TPH/Gas	ND
MB	MTBE	ND
MB	Benzene	ND
MB	Toluene	ND
MB	Ethyl Benzene	ND
MB	Xylenes	ND

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.
LCS	TPH/Gas		NS	
LCS	Benzene	0.0443	0.0500	88.6
LCS	Toluene	0.0478	0.0500	95.7
LCS	Ethyl Benzene	0.0495	0.0500	99.0
LCS	Xylenes	0.149	0.150	99.3

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.	RPD
LCSD	TPH/Gas		NS		
LCSD	Benzene	0.0458	0.0500	91.6	3.3
LCSD	Toluene	0.0494	0.0500	98.8	3.2
LCSD	Ethyl Benzene	0.0511	0.0500	102	3.2
LCSD	Xylenes	0.154	0.150	102	3.1

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

QC Batch #: 1617 **Lab Project #:** 1011501

Sample ID	Compound	Result (mg/kg)
MB	TPH/Diesel	ND

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.
LCS	TPH/Diesel	184	246	74.8

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.	RPD
LCSD	TPH/Diesel	180	246	73.2	2.2

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

QC Batch #: 1616 **Lab Project #:** 1011501

Sample ID	Compound	Result (mg/kg)
MB	TOG	ND

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.
LCS	TOG	359	340	106

Sample ID	Compound	Result (mg/kg)	Spike Level	% Recv.	RPD
LCSD	TOG	576	550	105	0.81

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

QC Batch #: 1630 **Lab Project #:** 1011501

Sample ID	Compound Name	Result (ug/kg)
MB	dichlorodifluoromethane	ND
	chloromethane	ND
	vinyl chloride	ND
	bromomethane	ND
	chloroethane	ND
	trichlorofluoromethane	ND
	1,1-dichloroethene	ND
	methylene chloride	ND
	trans-1,2-dichloroethene	ND
	1,1-dichloroethane	ND
	cis-1,2-dichloroethene	ND
	chloroform	ND
	1,1,1-trichloroethane	ND
	carbon tetrachloride	ND
	1,2-dichloroethane	ND
	trichloroethene	ND
	1,2-dichloropropane	ND
	bromodichloromethane	ND
	dibromomethane	ND
	trans-1,3-dichloropropene	ND
	1,1,2-trichloroethane	ND
	tetrachloroethene	ND
	dibromochloromethane	ND
	chlorobenzene	ND
	1,1,1,2-tetrachloroethane	ND
	bromoform	ND
	1,1,2,2-tetrachloroethane	ND
	1,2,3-trichloropropane	ND
	bromobenzene	ND
	chlorotoluene	ND
	1,3-dichlorobenzene	ND
	1,4-dichlorobenzene	ND
	1,2-dichlorobenzene	ND

Sample	Sample ID	Compound Name	Result (ug/kg)	Spike Level	% Recv.
01958	CMS	dichlorodifluoromethane	ND		
		chloromethane	ND		
		vinyl chloride	ND		
		bromomethane	ND		
		chloroethane	ND		
		trichlorofluoromethane	ND		
		1,1-dichloroethene	ND		
		methylene chloride	ND		
		trans-1,2-dichloroethene	ND		
		1,1-dichloroethane	20.1	19.4	104
		cis-1,2-dichloroethene	ND		
		chloroform	ND		
		1,1,1-trichloroethane	ND		
		carbon tetrachloride	16.1	19.4	83.0
		1,2-dichloroethane	ND		
		trichloroethene	18.5	19.4	95.4
		1,2-dichloropropane	ND		
		bromodichloromethane	ND		
		dibromomethane	ND		
		trans-1,3-dichloropropene	ND		
		1,1,2-trichloroethane	ND		
		tetrachloroethene	17.9	19.4	92.4
		dibromochloromethane	ND		
		chlorobenzene	ND		
		1,1,1,2-tetrachloroethane	ND		
		bromoform	ND		
		1,1,2,2-tetrachloroethane	ND		
		1,2,3-trichloropropane	ND		
		bromobenzene	ND		
		chlorotoluene	ND		
		1,3-dichlorobenzene	18.1	19.4	93.3
		1,4-dichlorobenzene	ND		
		1,2-dichlorobenzene	17.5	19.4	90.2

Sample	Sample ID	Compound Name	Result (ug/kg)	Spike Level	% Recv.	RPD
01958	CMSD	dichlorodifluoromethane	ND			
		chloromethane	ND			
		vinyl chloride	ND			
		bromomethane	ND			
		chloroethane	ND			
		trichlorofluoromethane	ND			
		1,1-dichloroethene	ND			
		methylene chloride	ND			
		trans-1,2-dichloroethene	ND			
		1,1-dichloroethane	21.7	19.4	112	7.7
		cis-1,2-dichloroethene	ND			
		chloroform	ND			
		1,1,1-trichloroethane	ND			
		carbon tetrachloride	20.1	19.4	104	22
		1,2-dichloroethane	ND			
		trichloroethene	21.9	19.4	113	17
		1,2-dichloropropane	ND			
		bromodichloromethane	ND			
		dibromomethane	ND			
		trans-1,3-dichloropropene	ND			
		1,1,2-trichloroethane	ND			
		tetrachloroethene	21.7	19.4	112	19
		dibromochloromethane	ND			
		chlorobenzene	ND			
		1,1,1,2-tetrachloroethane	ND			
		bromoform	ND			
		1,1,2,2-tetrachloroethane	ND			
		1,2,3-trichloropropane	ND			
		bromobenzene	ND			
		chlorotoluene	ND			
		1,3-dichlorobenzene	19.3	19.4	97.5	6.4
		1,4-dichlorobenzene	ND			
		1,2-dichlorobenzene	18.7	19.4	96.4	6.6

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

ANALYTICAL SCIENCES (HE101)
HE 1011501
9143.2

BOR.	DEPTH	WET DENS. (pcf)	DRY DENS. (pcf)	W/C (%)	POROS. (%)	O/C (%)	SPEC. GRAV.
SC-44	2.0	135	123	9.7	23	7	2.54
SC-44	5.0	114	89	28.7	47	6	2.68
SC-44	9.0	125	98	27.0	42	1	2.72

RGH GEOTECHNICAL
January 2001

RGH Geotechnical Laboratory

ORGANIC CONTENT

January 26, 2001

Project: HE 1011501
Job No.: 9143.2
Sample: SC-44 @ 2.0'
Description: Black Clayey Sand W/Gravel (SC)

Testing Program

The testing program included Organic Content. The testing was performed in accordance with ASTM D-2974. The results are presented below.

Organic Content = 7.22 %

RGH Geotechnical Laboratory

ORGANIC CONTENT

January 26, 2001

Project: HE 1011501
Job No.: 9143.2
Sample: SC-44 @ 5.0'
Description: Black Clay W/Sand (CH)

Testing Program

The testing program included Organic Content. The testing was performed in accordance with ASTM D-2974. The results are presented below.

Organic Content = 5.80 %

RGH Geotechnical Laboratory

ORGANIC CONTENT

January 26, 2001

Project: HE 1011501
Job No.: 9143.2
Sample: SC-44 @ 9.0'
Description: Dark Grey Sandy Clay (CL)

Testing Program

The testing program included Organic Content. The testing was performed in accordance with ASTM D-2974. The results are presented below.

Organic Content = 1.38 %

Organic Loss on Ignition Test

Project : HE 1011501 ID : 9143.2 Test Date : 01-26-2001

Data Entry By : TMC Data File : TEST0278

Boring Desc.	Depth (ft)	Moisture (%)	Ash (%)	Organic Matter (%)
SC-44	2.0	8.2	92.8	7.2
SC-44	5.0	28.0	94.2	5.8
SC-44	9.0	26.9	98.6	1.4

RGH Geotechnical Laboratory
Organic Content Worksheet

Project Name HE 1011501 **Date** 1-23-01

Project Number 9143.2

MOISTURE CONTENT

Boring and Depth	SC-44 @ 2'		SC-44 @ 5'		SC-44 @ 9'	
(1) Wet Soil + Tare	322.2		253.2		283.7	
(2) Dry Soil + Tare	298.1		207.8		281.9	
(3) Loss of Water	24.1		45.4		1.80	
(4) Tare Weight	50.3		49.6		50.5	
(5) Weight, Dry Soil (2) – (4)	247.8		158.2		233.2	
(6) Weight, Wet Soil (1) – (4)	271.9		203.6		231.4	
(7) Moisture Content [(3) / (5)] X 100	9.7		28.7		0.8	

ORGANIC CONTENT

Container Number	1		1		1	
Time In	10:00		10:35		0935	
Time Out	16:30		15:58		14:40	
(8) Oven Dry Soil + Tare	116.43		116.43		116.44	
(9) Burned Soil + Tare	112.82		113.53		115.75	
(10) Organic Loss (8) – (9)	3.61		2.90		0.69	
(11) Tare Weight	66.43		66.43		66.44	
(12) Oven Dry Soil (8) – (11)	50.00		50.00		50.00	
(13) Organic Content, %, [(10) / (12)] X 100	7.22		5.80		1.38	

RGH Geotechnical Laboratory

January 26, 2001

Job Name: HE 1011501
Job No.: 9143.2
Boring: SC-44
Depth: 2.0'
Description: Black Clayey Sand W/Gravel (SC)

POROSITY OF SOIL

The porosity n is defined as : $n = Vv / Vt$

Symbols	Data
Vt = total volume of soil mass = A x Ht	Dia. = 2.426 in.
Vs = volume of soil solids = Ws / Gs	Ht = 5.92 in.
Vv = volume of voids = Vt – Vs	A = 29.82 cm^2
e = void ratio = Vv / Vs	Vt = 448.40 cc.
Gs = specific gravity of soil	Vs = 347.04cc.
n = porosity of soil = Vv / Vt	Vv = 101.36 cc.
A = area of sample	Gs = 2.538
Ht = height of sample	Ws = 880.8 gms.
Ws = weight of dry solids	

Porosity = 22.6 %

RGH Geotechnical Laboratory

January 26, 2001

Job Name: HE 1011501
Job No.: 9143.2
Boring: SC-44
Depth: 5.0'
Description: Black Clay W/Sand (CH)

POROSITY OF SOIL

The porosity n is defined as : $n = Vv / Vt$

Symbols	Data
Vt = total volume of soil mass = A x Ht	Dia. = 2.425 in.
Vs = volume of soil solids = Ws / Gs	Ht = 5.29 in.
Vv = volume of voids = Vt – Vs	A = 29.80 cm^2
e = void ratio = Vv / Vs	Vt = 400.41 cc.
Gs = specific gravity of soil	Vs = 213.41 cc.
n = porosity of soil = Vv / Vt	Vv = 187.00 cc.
A = area of sample	Gs = 2.677
Ht = height of sample	Ws = 571.3 gms.
Ws = weight of dry solids	

Porosity = 46.7 %

RGH Geotechnical Laboratory

January 26, 2001

Job Name: HE 1011501
Job No.: 9143.2
Boring: SC-44
Depth: 9.0'
Description: Dark Grey Sandy Clay (CL)

POROSITY OF SOIL

The porosity n is defined as : $n = Vv / Vt$

Symbols	Data
Vt = total volume of soil mass = A x Ht	Dia. = 2.426 in.
Vs = volume of soil solids = Ws / Gs	Ht = 5.71 in.
Vv = volume of voids = Vt – Vs	A = 29.82 cm^2
e = void ratio = Vv / Vs	Vt = 432.49 cc.
Gs = specific gravity of soil	Vs = 250.77 cc.
n = porosity of soil = Vv / Vt	Vv = 181.72 cc.
A = area of sample	Gs = 2.722
Ht = height of sample	Ws = 682.6 gms.
Ws = weight of dry solids	

Porosity = 42.0 %

Specific Gravity Test

Project : HE 1011501 ID : 9143.2 Test Date : 01-26-2001

Data Entry By : TMC Data File : TEST0279

Boring Desc.	Depth (ft)	% Passing #4 Screen	Specific Gravity -#4 Portion	Specific Gravity +#4 Portion	Specific Gravity Average
SC-44	2.0	100.0	2.54		2.54
SC-44	5.0	100.0	2.68		2.68
SC-44	9.0	100.0	2.72		2.72

RGH GEOTECHNICAL
SANTA ROSA

	DATE	TIME
At printing	JAN2601	12:24
Last update	JAN2601	12:24

PROJECT ID HE101
POINT ID SC-44
DEPTH 2.00

Specific Gravity - ADDRESS 2307

	{1}	{2}	{3}	
WEIGHT OF BOTTLE + WATER	672.210			
WEIGHT OF BOTTLE + WATER + SOIL	732.870			
TEMPERATURE, 18-30C; 64.4-86F	23.0			
WEIGHT OF DRY SOIL + TARE	100.050			
WEIGHT OF TARE	0.000			
SPECIFIC GRAVITIES	{4} 2.538			(at 20C; 68F)

AVERAGE SPECIFIC GRAVITY {5} 2.538 (at 20C; 68F)

{6} COMMENTS
TEMPERATURE UNITS (degrees C, F) C

RGH GEOTECHNICAL
SANTA ROSA

	DATE	TIME
At printing	JAN2601	12:26
Last update	JAN2601	12:26

PROJECT ID HE101
POINT ID SC-44
DEPTH 5.00

Specific Gravity - ADDRESS 2307

	{1}	{2}	{3}	
WEIGHT OF BOTTLE + WATER	672.380			
WEIGHT OF BOTTLE + WATER + SOIL	703.710			
TEMPERATURE, 18-30C; 64.4-86F	22.0			
WEIGHT OF DRY SOIL + TARE	50.000			
WEIGHT OF TARE	0.000			
SPECIFIC GRAVITIES	{4} 2.677			(at 20C; 68F)

AVERAGE SPECIFIC GRAVITY {5} 2.677 (at 20C; 68F)

{6} COMMENTS
TEMPERATURE UNITS (degrees C, F) C

RGH GEOTECHNICAL
SANTA ROSA

	DATE	TIME
At printing	JAN2601	12:27
Last update	JAN2601	12:26

PROJECT ID HE101
POINT ID SC-44
DEPTH 9.00

Specific Gravity - ADDRESS 2307

	{1}	{2}	{3}	
WEIGHT OF BOTTLE + WATER	668.540			
WEIGHT OF BOTTLE + WATER + SOIL	731.830			
TEMPERATURE, 18-30C; 64.4-86F	23.0			
WEIGHT OF DRY SOIL + TARE	100.010			
WEIGHT OF TARE	0.000			
SPECIFIC GRAVITIES	{4} 2.722			(at 20C; 68F)

AVERAGE SPECIFIC GRAVITY {5} 2.722 (at 20C; 68F)

{6} COMMENTS
TEMPERATURE UNITS (degrees C, F) C

RGH Geotechnical Laboratory
Specific Gravity Tests Worksheet

Project Name: HE 1011501 **Project Number** 9143.2 **Date:** 1-23-01

SPECIFIC GRAVITY OF SOLIDS (Gs)

Sample I.D and Depth		SC-44@2'	SC-44@5'	SC-44@9'			
Flask Number		A	A	B			
Temp. of Water & Soil, T, °C		23°	22°	23°			
Pan Number							
Pan + Dry Soil							
Pan							
Dry Soil	(Ws)	100.05	50.00	100.01			
Flask + Water at T, °C	(Wbw)	672.21	672.38	668.54			
Ws + Wbw		772.26	722.38	768.55			
Flask + Water + Im. Soil	(Wbws)	732.87	703.71	731.83			
Displaced Water, (Ws + Wbw-Wbws)		39.39	18.67	36.72			
Correction Factor	K	0.9993	0.9996	0.9993			
(WsK) / (Ws+Wbw-Wbws)	Gs	2.538	2.677	2.722			

APPARENT (Ga) AND BULK (Gm) SPECIFIC GRAVITY

Sample I.D. and Depth					
Temp. of Water & Soil, T, °C					
Pan + Saturated Surface-Dry Soil					
Tare Weight					
Saturated Surface-Dry Soil	B				
(Wire Basket + Soil) in Water					
Wire Basket in Water					
Saturated Soil in Water	C				
Tare Weight + Dry Soil					
Tare Weight					
Dry Soil	A				
Correction Factor	K				
(AK) / (A-C) (Apparent)	Ga				
(AK) / (B-C) (Bulk)	Gm				

CONVERSION FACTOR FOR TEMP. ASTM D854-92

Temp. °C	Dens. Of H_2O	Corr. K
18	0.9986244	1.0004
19	0.9984347	1.0002
20	0.9982343	1.0000
21	0.9980233	0.9998
22	0.9978019	0.9996
23	0.9975702	0.9993
24	0.9973286	0.9991
25	0.9970770	0.9989
26	0.9968156	0.9986
27	0.9965451	0.9983
28	0.9962652	0.9980
29	0.9959761	0.9977
30	0.9956780	0.9974

RGH GEOTECHNICAL
SANTA ROSA

	DATE	TIME
At printing	JAN2501	15:59
Last update	JAN2501	15:59

PROJECT ID HE101
POINT ID SC-44

Water Content/Density - ADDRESS 2302

` Use Addr 2303 for Displacement and Sand Cone Methods and for documentation. `
` NOTE: No warning with undefined Depths.

	{001}	{002}	{003}	{004}	{005}
DEPTH	2.00	5.00	9.00		
SPEC. GRAV. (optional)					
WEIGHT SPC+CYLINDER(g)	966.5	735.3	866.5		
WEIGHT OF CYLINDER (g)	0	0	0		
DIAMETER OF SPC (mm)	61.72	61.72	61.72		
HEIGHT OF SPECIMEN(mm)	149.86	134.62	144.78		
`WATER CONTENT DATA`					
WEIGHT WET SOIL+TARE	322.20	253.20	186.50		
WEIGHT DRY SOIL+TARE	298.10	207.80	167.50		
WEIGHT TARE	50.30	49.60	97.00		
`RESULTS`					
WET DENSITY	134.572	113.971	124.881		
DRY DENSITY	122.639	88.556	98.370		
WATER CONTENT (%)	9.73	28.70	26.95		

RGH Geotechnical Laboratory

Moisture Content/ Dry Density

HEC

Project: ANALYTICAL SCIENCES **Project Number:** 1011501 **Date:** 1-22-01

BORING	SC-44		SC-44		SC44	
DEPTH	2'		5'		9'	
SOIL DESCRIPTION	BLACK CLAYEY SAND W/GRAV. (SC)		BLACK CLAY W/SAND (CH)		DARK GREY SANDY CLAY (CL)	
LENGTH	5.92		5.29		5.71	
TUBE + WET SOIL						
TUBE						
WET SOIL	966.5		735.3		866.5	
FACTOR						
WET DENSITY						
TARE NUMBER	NC-48		HC-27		P-1	
TARE + WET SOIL	322.2		253.2		186.5	
TARE + DRY SOIL	298.1		207.8		167.5	
MOISTURE LOSS						
TARE WEIGHT	50.3		49.6		97.0	
DRY SOIL						
MOISTURE CONTENT						
DRY DENSITY						

BORING						
DEPTH						
SOIL DESCRIPTION						
LENGTH						
TUBE + WET SOIL						
TUBE						
WET SOIL						
FACTOR						
WET DENSITY						
TARE NUMBER						
TARE + WET SOIL						
TARE + DRY SOIL						
MOISTURE LOSS						
TARE WEIGHT						
DRY SOIL						
MOISTURE CONTENT						
DRY DENSITY						

Analytical Sciences
P.O. Box 750336, Petaluma, CA 94975-0336
110 Liberty Street, Petaluma, CA 94952
(707) 769-3128
Fax (707) 769-8093

CHAIN OF CUSTODY

LAB PROJECT NUMBER:
CLIENT'S PROJECT NAME: HE (10/1501)
CLIENT'S PROJECT NUMBER:

CLIENT INFORMATION

COMPANY NAME: ANALYTICAL SCIENCES
ADDRESS: P.O. BOX 750336
PETALUMA, CA 94975-0336
CONTACT: MARK VALENTINI
PHONE#: (707) 769-3128
FAX #: (707) 769-8093

TURNAROUND TIME (check one)

MOBILE LAB ____
SAME DAY ____ 24 HOURS ____
48 HOURS ____ 72 HOURS ____
5 DAYS ____ NORMAL X

COOLER TEMBERATURE
BLUE ICED °C

COC
PAGE 1 OF 1

ITEM	CLIENT SAMPLE I..D.	DATE SAMPLED	TIME	MATRIX	# CONT.	PRESV. YES/NO	ANALYSIS: PERCENT OCEANIC	TOTAL POROSITY	BULK DENSITY	MOISTURE CONTENT									COMMENTS	LAB SAMPLE #
1	SC44-2'(0205A)	1-12-01	12:42	Soil	1	No	X	X	X	X										
2	SC44-5'(0205B)	1-12-01	12:50	Soil	1	No	X	X	X	X										
3	SC44-9'(0205C)	1-12-01	12:55	Soil	1	No	X	X	X	X										
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

SIGNATURES

RELINQUISHED BY: Mark A. Valentini — SIGNATURE
1/19/01 — DATE
5:03 — TIME

RECEIVED BY LABORATORY: Joanne E. McCue — SIGNATURE
1-19-01 — DATE
1703 — TIME

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

Analytical Sciences P.O. Box 750336 Petaluma, CA 94975-0336	Client Project ID: HE (1011501)	Date Sampled: 01/12/01
		Date Received: 01/17/01
	Client Contact: Mark Valentini	Date Extracted: 01/18/01
	Client P.O:	Date Analyzed: 01/22-01/24/01

Polychlorinated Biphenyls (PCB)

EPA method 608 and 3510 or 8080 and 3550

Lab ID	Client ID	Matrix	PCB+	% Recovery Surrogate
58143	MW4-5(02049)	S	310,e,o	116
58144	MW5-5(02052)	S	ND,o	100
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	0.5 ug/L	
		S	50 ug/kg	

* water and vapor samples are reported in ug/L, oils in mg/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP /STLC extracts in ug/L.

ND means not detected above the reporting limit

surrogate diluted out of range or surrogate coelutes with another peak

+ PCB aroclors - the first two digits of the aroclor number convey general structural information, where 12 and 10 denote biphenyl compounds with the latter having one phenyl group that is Cl-free; the last two aroclor digits specify its Cl weight %; (a) PCB aroclor 1016; (b) PCB aroclor 1221; (c) PCB aroclor 1232; (d) PCB aroclor 1242; (e) PCB aroclor 1248; (f) PCB aroclor 1254; (g) PCB aroclor 1260; (h) a lighter than water immiscible sheen is present; (i) liquid sample that contains >~5 vol. % sediment; (j)sample diluted due to high organic content; (l) florisil (EPA 3620) cleanup; (m) silica-gel (EPA 3630) cleanup; (n) elemental sulfur (EPA 3660) cleanup; (o) sulfuric acid-permanganate (EPA 3665) cleanup.

DHS Certification No. 1644

for Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Ave. South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

QC REPORT

EPA 8080/608

Date: 01/21/00-01/22/01 Matrix: Soil

Extraction: N/A

Compound	Concentration: ug/kg				%Recovery		RPD
	Sample	MS	MSD	Amount Spiked	MS	MSD	
SampleID: 11601					Instrument: GC-5		
Surrogate1	0.000	105.0	104.0	100.00	105	104	1.0
4,4`-DDT	0.000	54.0	54.0	50.00	108	108	0.0
Endrine	0.000	56.0	57.0	50.00	112	114	1.8
Dieldrin	0.000	58.0	58.0	50.00	116	116	0.0
Aldrin	0.000	20.0	20.0	20.00	100	100	0.0
Heptachlor	0.000	23.0	23.0	20.00	115	115	0.0
Lindane	0.000	20.0	21.0	20.00	100	105	4.9
PCB	0.000	147.0	151.0	150.00	98	101	2.7

$$\%\ \text{Recovery} = \frac{(MS - Sample)}{Amount Spiked} \cdot 100$$

$$\text{RPD} = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2 \cdot 100$$

RPD means Relative Percent Deviation

Analytical Sciences
P.O. Box 750336, Petaluma, CA 94975-0336
110 Liberty Street, Petaluma, CA 94952
(707) 769-3128
Fax (707) 769-8093

CHAIN OF CUSTODY

240503AS97

LAB PROJECT NUMBER:
CLIENT'S PROJECT NAME: HE (1011501)
CLIENT'S PROJECT NUMBER:

CLIENT INFORMATION

COMPANY NAME: ANALYTICAL SCIENCES
ADDRESS: P.O. BOX 750336
PETALUMA, CA 94975-0336
CONTACT: MARK VALENTINI
PHONE#: (707) 769-3128
FAX #: (707) 769-8093

TURNAROUND TIME (check one)

MOBILE LAB ____
SAME DAY ____ 24 HOURS ____
48 HOURS ____ 72 HOURS ____
5 DAYS ____ NORMAL X

COOLER TEMBERATURE
BLUE ICED °C

COC
PAGE 1 OF 1

ANALYSIS

ITEM	CLIENT SAMPLE I..D.	DATE SAMPLED	TIME	MATRIX	# CONT.	PRESV. YES/NO	BTEX's & MTBE												COMMENTS	LAB SAMPLE #
1	MW4-5'(02049)	1-12-01	0835	SOIL	1	NO	X												ALL SAMPLES MUST	58143
2	MW5-5'(02052)	↓	1025	↓	↓	↓	X												GET SULFUIC ACID	
3																			CLEANUP	58144
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

ICE ✓
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓
PRESERVATION APPROPRIATE CONTAINERS ✓
VOAS | O&G | METALS | OTHER

SIGNATURES

RELINQUISHED BY: Mark A. Valentini — SIGNATURE
1/16/01 — DATE — TIME
RECEIVED BY LABORATORY: Nina A. Ruther — SIGNATURE
01/17/01 — DATE
7:15 pm — TIME

LAB PROJECT # 1011501

ENVIRONMENTAL BIO-SYSTEMS, INC.
Innovative Solutions for a Better Environment
P.O. Box 7171
San Jose, CA 95150-7171
(408) 979-8600

CHAIN OF CUSTODY

ADDITIONAL INSTRUCTIONS:

* RUN 5' SAMPLE ONLY IF POSITIVE FOR TPHd

** GEOTECH. SUITE:
1) PERCENT ORGANIC
2) TOTAL POROSITY
3) BULK DENSITY
4) MOISTURE CONTENT

PROJECT NUMBER: 150-561 B

CLIENT: HOLLAND ESTATE

SITE: 16301 E. 14TH ST. SAN LEANDRO, CA

SAMPLE I.D.	MATRIX	NUMBER OF CONTAINERS	COMPOSITE	TOG-5520F	TPHd + TPHk-8015	TPHss-8015	TPHg/BTEX+MTBE	PCBs-8080 *	HVOCs	GEOTECH. SUITE **		TIME COLLECTED	TURNAROUND	LAB SAMPLE #
MW4-5'	SOIL	1		X	X	X	X	✓	X			8:35	STANDARD	02049
MW4-9'	"	"		X	X	X	X		X			8:44	"	02050
MW4-15'	↓	↓										8:54	HOLD	02051
MW5-5'	↓	↓		X	X	X	X	✓	X			10:25	STANDARD	02052
MW5-9'	↓	↓		X	X	X	X		X			10:34	"	02053
SC44-2'	SOIL	1								X		12:42	STANDARD	02054
SC44-5'	↓	↓								X		12:50	↓	02055
SC44-9'	↓	↓								X		12:55	↓	02056

DATE SAMPLING COMPLETED: 1/12/01

SAMPLING PERFORMED BY: DAVE A. SADOFF

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	1/12/01	14:35	Heather A. Allen	1/15/01	11:30AM

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #
FED EXPRESS	1/12/01		

Analytical Sciences

February 27, 2001

Dave Sadoff
Environmental Bio-Systems, Inc.
P.O. Box 7171
San Jose, CA 95150-7171

Dear Dave,

Enclosed you will find Analytical Sciences' final report 1020804 for your Holland Estate project site. As required by the California Department of Health Services, the letterhead copy of the report for work performed by the subcontracted laboratory is included.

Should you or your client have any questions regarding this report please contact me at your convenience. We appreciate you selecting Analytical Sciences for this work and look forward to serving your analytical chemistry needs on projects in the future.

Sincerely,

Analytical Sciences

Mark A. Valentini

PO Box 750336
Petaluma, CA 94975-0336
Telephone: (707) 769-3128

110 Liberty Street
Petaluma, CA 94952
Fax: (707) 769-8093

Analytical Sciences

Report Date: February 27, 2001

Environmental Bio-Systems, Inc.
P.O. Box 7171
San Jose, CA 95150-7171
ATTN: Dave Sadoff

LABORATORY REPORT

Project Name: **Holland Estate 150-561B**

Lab Project Number: **1020804**

This 7 page report of analytical data has been reviewed and approved for release.

Mark A. Valentini, Ph.D.
Laboratory Director

PO Box 750336
Petaluma, CA 94975-0336
Telephone: (707) 769-3128

110 Liberty Street
Petaluma, CA 94952
Fax: (707) 769-8093

TPH Gasoline in Water

Lab #	Sample ID	Analysis	Result (ug/L)	RDL (ug/L)
02269	MW1-H_2O	TPH/Gasoline	8,200	2,000
		MTBE	ND	25
		Benzene	83	5.0
		Toluene	60	5.0
		Ethyl Benzene	33	5.0
		Xylenes	110	15

Date Sampled: 02/08/01 | Date Analyzed: 02/12/01, 02/16/01 | QC Batch #: 1668
Date Received: 02/08/01 | Method: EPA 5030/8015M/8020

Lab #	Sample ID	Analysis	Result (ug/L)	RDL (ug/L)
02270	MW2-H_2O	TPH/Gasoline	ND	50
		MTBE	ND	2.5
		Benzene	ND	0.5
		Toluene	ND	0.5
		Ethyl Benzene	ND	0.5
		Xylenes	ND	1.5

Date Sampled: 02/08/01 | Date Analyzed: 02/12/01 | QC Batch #: 1668
Date Received: 02/08/01 | Method: EPA 5030/8015M/8020

Lab #	Sample ID	Analysis	Result (ug/L)	RDL (ug/L)
02271	MW3-H_2O	TPH/Gasoline	ND	50
		MTBE	ND	2.5
		Benzene	ND	0.5
		Toluene	ND	0.5
		Ethyl Benzene	ND	0.5
		Xylenes	ND	1.5

Date Sampled: 02/08/01 | Date Analyzed: 02/13/01 | QC Batch #: 1668
Date Received: 02/08/01 | Method: EPA 5030/8015M/8020

Lab Project #: 1020804

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (ug/L)	RDL (ug/L)
02272	MW4-H_2O	TPH/Gasoline	1,000	50
		MTBE	ND	2.5
		Benzene	6.1	0.5
		Toluene	2.2	0.5
		Ethyl Benzene	1.6	0.5
		Xylenes	6.9	1.5

Date Sampled: 02/08/01
Date Received: 02/08/01
Date Analyzed: 02/13/01
Method: EPA 5030/8015M/8020
QC Batch #: 1668

Lab #	Sample ID	Analysis	Result (ug/L)	RDL (ug/L)
02273	MW5-H_2O	TPH/Gasoline	270	50
		MTBE	9.2 ①	2.5
		Benzene	0.70	0.5
		Toluene	ND	0.5
		Ethyl Benzene	ND	0.5
		Xylenes	2.8	1.5

Date Sampled: 02/08/01
Date Received: 02/08/01
Date Analyzed: 02/13/01
Method: EPA 5030/8015M/8020
QC Batch #: 1668

① Confirmed and quantitated by GC/MS (EPA 8260).

TPH Diesel & Stoddard Solvent in Water

Lab #	Sample ID	Analysis	Result (ug/L)	RDL (ug/L)
02269	MW1-H_2O	TPH/Diesel	②	500
		TPH/Stoddard Solvent	5,100	500

Date Sampled: 02/08/01
Date Received: 02/08/01
Date Extracted: 02/21/01
Date Analyzed: 02/21/01
QC Batch #: 1678
Method: EPA 3550/8015M

Lab Project #: 1020804

CA Lab Accreditation #: 2303

Lab #	Sample ID	Analysis	Result (ug/L)	RDL (ug/L)
02270	MW2-H_2O	TPH/Diesel	ND	50
		TPH/Stoddard Solvent	ND	50

Date Sampled:	02/08/01	Date Extracted:	02/21/01	QC Batch #:	1678
Date Received:	02/08/01	Date Analyzed:	02/21/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (ug/L)	RDL (ug/L)
02271	MW3-H_2O	TPH/Diesel	ND	50
		TPH/Stoddard Solvent	ND	50

Date Sampled:	02/08/01	Date Extracted:	02/21/01	QC Batch #:	1678
Date Received:	02/08/01	Date Analyzed:	02/21/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (ug/L)	RDL (ug/L)
02272	MW4-H_2O	TPH/Diesel	①	50
		TPH/Stoddard Solvent	240	50

Date Sampled:	02/08/01	Date Extracted:	02/21/01	QC Batch #:	1678
Date Received:	02/08/01	Date Analyzed:	02/21/01	Method:	EPA 3550/8015M

Lab #	Sample ID	Analysis	Result (ug/L)	RDL (ug/L)
02273	MW5-H_2O	TPH/Diesel	ND	50
		TPH/Stoddard Solvent	ND	50

Date Sampled:	02/08/01	Date Extracted:	02/21/01	QC Batch #:	1678
Date Received:	02/08/01	Date Analyzed:	02/21/01	Method:	EPA 3550/8015M

① Analytical Sciences compared the observed chromatogram with reference chromatograms for diesel and stoddard solvent. The reported value reflects the full amount of semivolatile hydrocarbons observed. The entry is made into the cell that reflects the determined source based upon the best pattern match.

Lab Project #: 1020804

CA Lab Accreditation #: 2303

Total Oil & Grease in Water

Lab #	Sample ID	Analysis	Result (mg/L)	RDL (mg/L)
02269	MW1-H_2O	Total Oil & Grease	28	1.0

Date Sampled: 02/08/01 | Date Extracted: 02/17/01 | QC Batch #: 1681
Date Received: 02/08/01 | Date Analyzed: 02/17/01 | Method: EPA 418.1M
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/L)	RDL (mg/L)
02270	MW2-H_2O	Total Oil & Grease	ND	1.0

Date Sampled: 02/08/01 | Date Extracted: 02/17/01 | QC Batch #: 1681
Date Received: 02/08/01 | Date Analyzed: 02/17/01 | Method: EPA 418.1M
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/L)	RDL (mg/L)
02271	MW3-H_2O	Total Oil & Grease	ND	1.0

Date Sampled: 02/08/01 | Date Extracted: 02/17/01 | QC Batch #: 1681
Date Received: 02/08/01 | Date Analyzed: 02/17/01 | Method: EPA 418.1M
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/L)	RDL (mg/L)
02272	MW4-H_2O	Total Oil & Grease	1.4	1.0

Date Sampled: 02/08/01 | Date Extracted: 02/17/01 | QC Batch #: 1681
Date Received: 02/08/01 | Date Analyzed: 02/17/01 | Method: EPA 418.1M
10/30w Motor Oil was used as the standard

Lab #	Sample ID	Analysis	Result (mg/L)	RDL (mg/L)
02273	MW5-H_2O	Total Oil & Grease	ND	1.0

Date Sampled: 02/08/01 | Date Extracted: 02/17/01 | QC Batch #: 1681
Date Received: 02/08/01 | Date Analyzed: 02/17/01 | Method: EPA 418.1M
10/30w Motor Oil was used as the standard

Lab Project #: 1020804

CA Lab Accreditation #: 2303

LABORATORY
QUALITY ASSURANCE REPORT

QC Batch #: 1668 **Lab Project #:** 1020804

Sample ID	Compound	Result (ug/L)
MB	TPH/Gas	ND
MB	MTBE	ND
MB	Benzene	ND
MB	Toluene	ND
MB	Ethyl Benzene	ND
MB	Xylenes	ND

Sample ID	Compound	Result (ug/L)	Spike Level	% Recv.
LCS	TPH/Gas		NS	
LCS	Benzene	10.7	11.7	91.0
LCS	Toluene	10.8	11.7	92.0
LCS	Ethyl Benzene	10.4	11.7	88.9
LCS	Xylenes	31.9	35.1	90.8

Sample ID	Compound	Result (ug/L)	Spike Level	% Recv.	RPD
LCSD	TPH/Gas		NS		
LCSD	Benzene	10.6	11.7	90.3	0.85
LCSD	Toluene	10.7	11.7	91.3	0.75
LCSD	Ethyl Benzene	10.3	11.7	87.9	1.1
LCSD	Xylenes	31.4	35.1	89.3	1.7

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

QC Batch #: 1678 **Lab Project #:** 1020804

Sample ID	Compound	Result (ug/L)
MB	TPH/Diesel	ND

Sample ID	Compound	Result (ug/L)	Spike Level	% Recv.
LCS	TPH/Diesel	2,600	2,730	95.4

Sample ID	Compound	Result (ug/L)	Spike Level	% Recv.	RPD
LCSD	TPH/Diesel	2,180	2,730	80.0	18

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

QC Batch #: 1681 **Lab Project #:** 1020804

Sample ID	Compound	Result (mg/L)
MB	Total Oil & Grease	ND

Sample ID	Compound	Result (mg/L)	Spike Level	% Recv.
LCS	Total Oil & Grease	26.3	26.0	101

Sample ID	Compound	Result (mg/L)	Spike Level	% Recv.	RPD
LCSD	Total Oil & Grease	33.7	35.0	96.3	4.9

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

Analytical Sciences P.O. Box 750336 Petaluma, CA 94975-0336	Client Project ID: HE (1020804)	Date Sampled: 02/08/01
		Date Received: 02/15/01
	Client Contact: Mark Valentini	Date Extracted: 02/15/01
	Client P.O:	Date Analyzed: 02/16/01

Polychlorinated Biphenyls (PCB)

EPA method 608 and 3510 or 8080 and 3550

Lab ID	Client ID	Matrix	PCB+	% Recovery Surrogate
60203	MW1-H_20 (02269)	W	ND<12.5,j	117
60204	MW2-H_20 (02270)	W	ND<1.25,j	108
60205	MW3-H_20 (02271)	W	ND<1.25,j	91
60206	MW4-H_20 (02272)	W	ND<1.25,j	84
60207	MW5-H_20 (02237)	W	ND<1.25,j	110
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	0.5 ug/L	
		S	50 ug/kg	

* water and vapor samples are reported in ug/L, oils in mg/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP /STLC extracts in ug/L.

ND means not detected above the reporting limit

surrogate diluted out of range or surrogate coelutes with another peak

+ PCB aroclors - the first two digits of the aroclor number convey general structural information, where 12 and 10 denote biphenyl compounds with the latter having one phenyl group that is Cl-free; the last two aroclor digits specify its Cl weight %; (a) PCB aroclor 1016; (b) PCB aroclor 1221; (c) PCB aroclor 1232; (d) PCB aroclor 1242; (e) PCB aroclor 1248; (f) PCB aroclor 1254; (g) PCB aroclor 1260; (h) a lighter than water immiscible sheen is present; (i) liquid sample that contains >~5 vol. % sediment; (j)sample diluted due to high organic content; (l) florisil (EPA 3620) cleanup; (m) silica-gel (EPA 3630) cleanup; (n) elemental sulfur (EPA 3660) cleanup; (o) sulfuric acid-permanganate (EPA 3665) cleanup.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Ave. South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

QC REPORT

EPA 8080/608

Date: 02/16/01-02/17/01 Matrix: Water

Extraction: N/A

Compound	Concentration: ug/L				%Recovery		RPD
	Sample	MS	MSD	Amount Spiked	MS	MSD	
SampleID: 21401				Instrument: GC-5			
PCB	0.000	145.0	145.0	150.00	97	97	0.0

$$\%\ \text{Recovery} = \frac{(MS - Sample)}{AmountSpiked} \cdot 100$$

$$\text{RPD} = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2 \cdot 100$$

RPD means Relative Percent Deviation

Analytical Sciences
P.O. Box 750336, Petaluma, CA 94975-0336
110 Liberty Street, Petaluma, CA 94952
(707) 769-3128
Fax (707) 769-8093

CHAIN OF CUSTODY

24508 ZAS 100

LAB PROJECT NUMBER:
CLIENT'S PROJECT NAME: HE (10 20804)
CLIENT'S PROJECT NUMBER:

CLIENT INFORMATION

COMPANY NAME: ANALYTICAL SCIENCES
ADDRESS: P.O. BOX 750336
PETALUMA, CA 94975-0336
CONTACT: MARK VALENTINI
PHONE#: (707) 769-3128
FAX #: (707) 769-8093

TURNAROUND TIME (check one)

MOBILE LAB
SAME DAY
24 HOURS
48 HOURS
72 HOURS
5 DAYS
NORMAL X

COOLER TEMBERATURE
BLUE ICED °C

COC
PAGE 1 OF 1

ANALYSIS

ITEM	CLIENT SAMPLE I..D.	DATE SAMPLED	TIME	MATRIX	# CONT.	PRESV. YES/NO	POB'S ONLY	COMMENTS	LAB SAMPLE #
1	MW1-H2O(02269)	2-8-01	1307	W	1	NO	X	60203 +	
2	MW2-H2O(02270)		1212				X	60204 +	
3	MW3-H2O(02271)		1150				X	60205 +	
4	MW4-H2O(02272)		1227				X	60206 +	
5	MW5-H2O(02273)	↓	1241	↓	↓	↓	X	60207 +	
6									
7									
8									
9	ICE/● ✓		PRESERVATION ✓	VOAS	O&G	METALS	OTHER		
10	GOOD CONDITION ✓		APPROPRIATE						
11	HEAD SPACE ABSENT ✓		CONTAINERS ✓						
12									

SIGNATURES

RELINQUISHED BY:
Linda Kaufman — SIGNATURE
2/15/01 — DATE
11:19 — TIME

RECEIVED BY LABORATORY:
SIGNATURE
2/15 — DATE
11:20 — TIME

LAB PROJECT # 1020804

ENVIRONMENTAL BIO-SYSTEMS, INC.
Innovative Solutions for a Better Environment
P.O. Box 7171
San Jose, CA 95150-7171
(408) 979-8600

CHAIN OF CUSTODY

ADDITIONAL INSTRUCTIONS:

PROJECT NUMBER 150-561B

CLIENT ESTATE OF J. HOLLAND SR.

SITE 16301 E. 14TH ST
SAN LEANDRO, CA

SAMPLE I.D.	MATRIX	NUMBER OF CONTAINERS	COMPOSITE	ANALYSES: TPHg+BTEX+MTBE	TPHd, TPHs	TOG	PCBs					TIME COLLECTED	TURNAROUND	LAB SAMPLE #
MW1-H2O	WATER	4		X	X	X	X					13:07	STANDARD	02269
MW2-H2O	↓	↓		X	X	X	X					12:12	↓	02270
MW3-H2O	↓	↓		X	X	X	X					11:50	↓	02271
MW4-H2O	↓	↓		X	X	X	X					12:27	↓	02272
MW5-H2O	↓	↓		X	X	X	X					12:41	↓	02273

DATE SAMPLING COMPLETED: 2/8/01

SAMPLING PERFORMED BY: DAVE A. SADOFF

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	2/8/01	2:54 P.M.	[signature] Mark A. Valentini	2/8/01	2:54 pm

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

APPENDIX F:

SURVEYOR'S MAP

VARGAS

February 20, 2001

Job# 4649

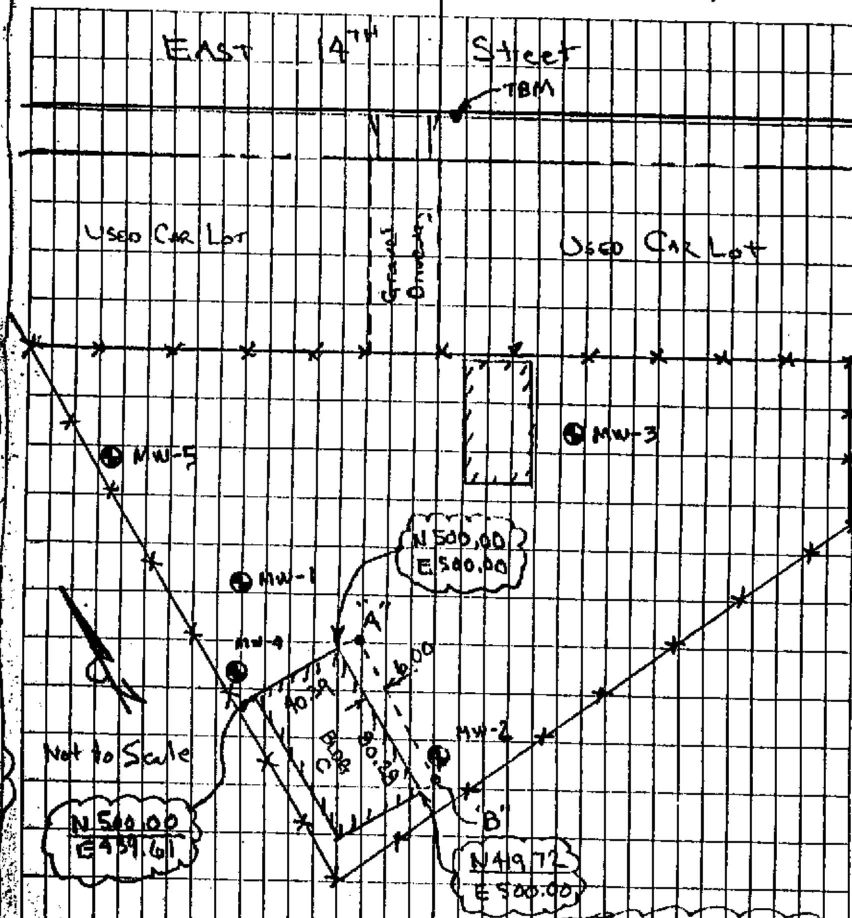
Location & Elevation of Monitoring Wells
@ 16301 East 14th St - San Leandro, Calif
Former "Jack Holland Sr. Oil Company"

Attn: Dave Sadoff

Benchmark - "E14-164 1979" An Alameda County disk in the northerly return of the Northeast corner of East 14th St and 164th Avenue. Disc is stamped "E14-164 1979" Elev = 41.207 (NGVD 1929)

TBM - Top of curb on the westerly side of E. 14th St 1' ± sly of the southerly side dwy flare to site
Elevation = 36.33

Note: Held Building "C" for control & established base line "A" to "B" parallel & 6' off east of the east building line. Assumed coordinates N 500.00 / E 500.00 at the northeast corner of the building & assumed bearing from "B" to "A" N 0°00'00" E



IC "A" N 500.00 / E 506.00, BS "B" N 419.72 / E 506.00 w/ 0°00'

Well #	Hor ∠ Rt	Hor Dist	Northing	Easting	Elev rim top/2" PVC	Elev ℄
MW-1	161-59-53	72.48	568.932	483.600	36.60	37.02
MW-2	359-38-08	78.65	421.352	506.500	37.33	37.54
MW-3	251-48-01	121.77	538.033	621.678	37.37	37.64
MW-4	119-28-45	54.34	526.741	458.695	36.78	37.22
MW-5	163-11-03	163.24	656.260	458.775	36.27	36.68

Note: elevations of monitoring wells taken on the top of rim of 2" PVC pipe on the north side @ black mark

REGISTERED PROFESSIONAL ENGINEER
CHARLES A. LUDWIG
No. 31917
Exp. 12/31/04
CIVIL
STATE OF CALIFORNIA