Nine Par Landfill Site Investigation

NINE PAR LANDFILL SITE INVESTIGATION

Zero Waste Energy Development Company
San Jose, California

Submitted To: Zero Waste Energy Development Company
1500 Berger Drive
San Jose, CA 95112

Submitted By: Golder Associates Inc.
425 Lakeside Drive
Sunnyvale, CA 94085 USA

May 2011 **103-9716311**

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EXECUTIVE SUMMARY

On behalf of Zero Waste Energy Development Company, Inc. (ZWED), Golder Associates Inc. (Golder) has prepared this site investigation report for the Nine Par Landfill in San Jose, California. The information presented in this report is generally limited to the 41-acre San Jose City (City) owned parcel on the landfill, hereafter referred to as the Nine Par Site, on which ZWED wished to develop a dry fermentation anaerobic digestion (AD) facility. The Nine Par Landfill as a whole is known to be substantially larger than the 41 acres that are being considered for development. The Nine Par Site is located at 2100 Los Esteros Road in San Jose, California.

The Nine Par Landfill, which began with the purchase of 160 acres in Alviso in 1934, was used for solid waste disposal from approximately 1938 to 1977. Waste burning was part of the disposal operations until the 1950s. Waste quantity and type are poorly documented; disposed materials reportedly consisted of a mix of municipal solid waste, cannery waste, inert demolition debris (some possibly containing asbestos), and septic pumpings. In 1975, the Regional Water Quality Control Board, San Francisco Bay Region issued WDR Order 75-18 for the 70-acre parcel subsequently acquired by Zanker Road Resource Management, Ltd. and currently occupied by the Zanker Road Resource Recovery Operation and Landfill (ZRRROL). The ownership of the remaining 90-acre portion of the original Nine Par Landfill was assumed by the City of San Jose.

After municipal landfilling activities had ceased and ownership of the site was changed (late 1970s), and through most of the 1980s, the Nine Par Site was used for disposal of grit from aerator tanks and inert biosolids mixed with soil that were generated at the adjacent Water Pollution Control Plant (WPCP). Additionally, the City-owned portion of the Nine Par Landfill has been used for the stockpiling of soil generated by City projects. Since 2005, approximately 250,000 cubic yards of clean soils have been stockpiled by the City on the Nine Par Site.

The Nine Par Site lies within the northern part of the Santa Clara Valley groundwater basin, which contains over 1,000 feet of unconsolidated to semi-consolidated clays, silts, sands, and gravel. The sediments beneath the Nine Par Site contain an “upper” and a “lower” aquifer. Near the Nine Par Site, the upper aquifer is encountered at approximately -45 feet MSL (approximately 40 to 45 feet below the natural ground surface), and is overlain by the Holocene Bay Mud and Holocene fine-grained alluvium. The upper aquifer is underlain by a laterally extensive clay aquitard that extends to -200 feet MSL. The lower aquifer occurs below this aquitard and is part of the extensive drinking water aquifer in the Santa Clara Valley.

In addition to the upper and lower regional aquifers, shallow water-bearing sand zones have been identified within the Holocene Bay Mud and Holocene fine-grained alluvium, which interfinger beneath the site. These sands are fully saturated and range in thickness from less than 5 to approximately 15 feet. They occur within the -5 to -20 feet MSL interval. Beneath much of the previously landfilled portion of the

site, the water-bearing sands are directly overlain by saturated refuse. The groundwater surface is at an elevation of approximately 1 to -1 feet MSL and groundwater generally flows to the northwest and west at approximately 1 to 100 feet per year.

Waste previously landfilled at the Nine Par Site is now covered with non-engineered soil fill composed primarily of clay that ranges in thickness from approximately 1 foot at the perimeter to as much as 25 feet in the more elevated portions of the site. Waste thickness varies from approximately 4 to 20 feet with a bottom elevation generally higher than -10 feet MSL. Waste below an elevation of approximately 2 feet MSL is saturated.

The site investigation included the sampling and laboratory analysis of groundwater, leachate, landfill gas, and soil, and refuse. Field measurements were also performed on soil gas and surface emissions. Groundwater and leachate samples were analyzed for several inorganic general water quality parameters, CAM 17 metals, volatile organic compounds (VOCs), total petroleum hydrocarbons (TPH), semivolatile organic compounds (SVOCs), organochlorine pesticides, polychlorinated biphenyls (PCBs), and chlorinated herbicides. The leachate samples were also analyzed for dioxins and furans. Landfill gas samples were analyzed for fixed gases and VOCs. Soil and refuse samples were analyzed for total petroleum hydrocarbons and CAM 17 metals. Concentrations were compared to RWQCB Environmental Screening Levels (ESLs) for groundwater that is not a drinking water source, or for vapor intrusion concerns.

Eleven VOCs were detected in five of the eight groundwater samples from the temporary wells. Total VOCs exceeded 1 microgram per liter (µg/L) in only two samples, both are from the northwest corner of the Nine Par Site. The total VOC concentration in the sample from temporary well EB-2 was approximately 10,277 µg/L and the total concentration in the sample from EB-7, which was collected to further assess the conditions at EB-2, was approximately 48 µg/L. These VOCs are primarily chlorinated ethenes, with trichloroethene being the major component in the EB-2 sample and *cis*-1,2-dichloroethene being the major component in the EB-7 sample. ESL values were exceeded for trichloroethene and *cis*-1,2-dichloroethene in the EB-2 sample; no ESLs were exceeded in any other groundwater sample. NOTE: Further investigation of water quality at temporary well EB-2 suggests that the high VOC concentration is localized to a small area in the northwestern corner of the existing landfilled area. The northward extent has not been determined.

TPH was detected in the samples from EB-6s and EB-6d at concentrations of 300 and 710 µg/L, respectively. These concentrations exceed the ESL. TPH was not detected in the other groundwater samples. SVOCs were not detected in any sample with the exception of 1,4-dioxane at 12 µg/L in the EB-7 sample; the 1,4-dioxane value was below the ESL. Organochlorine pesticides and PCBs were not detected in any sample. A single low-level chlorinated herbicide, dicamba, was reported in the EB-2 sample at 0.26 µg/L; there is no established ESL for dicamba.

Inorganic and general water-quality parameter concentrations fell within the range typical for groundwater along the San Francisco Bay (Bay) margin and, the more mineralized groundwater was found on the northern side of the site, closer to the bay. CAM 17 metals concentrations were also typical of groundwater near the bay margin with the exception of the sample from temporary well EB-7 in the northwest corner of the Nine Par Site. The metals concentrations in the EB-7 sample were elevated relative the other samples. ESLs were exceeded in one or more samples for all CAM 17 metals except antimony, cadmium, molybdenum, selenium, and thallium.

Twenty-two VOCs were detected in the samples from the leachate wells. Total VOCs, excluding trace concentrations, ranged from 31.88 µg/L in the sample from well LW-2 to 163.60 µg/L in the sample from well LW-1. No ESLs were exceeded.

Four SVOCs were detected in leachate at concentrations between 1.9 and 55 µg/L. One ESL was exceeded. TPH, typically in the C10 to C36 carbon-chain range, was detected in all samples at concentrations ranging from 1,900 to 3,500 ug/L. All samples exceeded the ESL. Organochlorine pesticides, PCBs, and chlorinated herbicides were not detected. Dioxins and furans were detected in the samples from LW-1, LW-2, and LW-3. Only one of the detected compounds has an ESL and it was not exceeded. ESLs were exceeded in one or more leachate samples for all CAM 17 metals with the exception of antimony, beryllium, molybdenum, selenium, and thallium.

Groundwater and leachate fall into three distinct ionic groups. The distinct groups are: leachate at wells LW-1 and LW-4; leachate and groundwater at LW-2, LW-3, EB-4, EB-5, and EB-6s; and groundwater at EB-1, EB-2, EB-3, EB-6d, and EB-7. The middle group is indicative of leachate and groundwater mixing at some locations.

Odor assessments, measured as hydrogen sulfide, were performed at upwind and downwind locations. No hydrogen sulfide was detected.

Landfill gas contained oxygen concentrations ranging from <0.04 percent to 19 percent, methane ranging from 0.39 to 76 percent and carbon dioxide ranging from 0.31 to 41 percent. The methane to carbon dioxide ratio varies from 0.61 to 3.3.

Twenty-eight VOCs were detected in the landfill gas at total concentrations ranging from 369 to 36,749 micrograms per cubic meter (µg/m^3). The ESLs for commercial/industrial indoor air were exceeded at two locations for benzene and at two locations for vinyl chloride; no other ESLs were exceeded.

Gasoline-range petroleum hydrocarbons were not detected in the soil samples from the landfill cover or the refuse. Total petroleum hydrocarbons in soils ranged from 55 to 180 milligrams per kilogram (mg/kg), and the value in refuse was 55 mg/kg. No ESLs were exceeded.

The only metal in the soil samples from the landfill cover that exceeded an ESL was arsenic. ESLs were exceeded for arsenic, chromium, copper, and zinc in the refuse sample.

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1.0 INTRODUCTION

On behalf of Zero Waste Energy Development Company, Inc. (ZWED), Golder Associates Inc. (Golder) has prepared this site investigation report for the Nine Par Landfill in San Jose, California. The information presented in this report is generally limited to the 41-acre parcel on the landfill, hereafter referred to as the Nine Par Site, which ZWED would like to develop as a dry fermentation anaerobic digestion (AD) facility. The Nine Par Landfill as a whole is known to be substantially larger than the 41 acres that are being considered for development. The parcel ZWED intends to develop is owned by the City of San Jose (City).

The Nine Par Landfill site investigation results are based on data obtained from the August 2010 Field Workplan[1] implementation, from supporting data contained in previous site investigations, and from site characterizations performed at nearby facilities. The intent of this Nine Par Site investigation is to provide baseline information on the physical characteristics of the landfill and underlying soils and groundwater, and on the chemical characteristics of surface gas, landfill gas, soil, groundwater, and leachate at the Nine Par Site before development begins. This information can then be used to support design, permitting, and project planning.

Based on the most recent site topographic map (2004), the surface elevation of the Nine Par Site ranges from approximately 0 to 34 feet MSL. All mean sea level (MSL) elevations referred to in this report are referenced to the NGVD 29 vertical datum unless otherwise stated. This datum is used because much of the surrounding-site elevation information is presented in this format. The other commonly used vertical datum is NAVD 88. The NAVD 88 datum is approximately 2.7 feet higher than the NGVD 29 datum in the Nine Par Site area.

1.1 Location

The Nine Par Site is located at 2100 Los Esteros Road in San Jose, California. The site and its surroundings are shown on Figure 1. The property is owned by the City and is identified as APN 015-38-005 in the Santa Clara County Assessor's Parcel Map. The Nine Par Site is part of the buffer lands of the San Jose/Santa Clara Water Pollution Control Plant (WPCP) and is bounded by tidal marshlands/wetlands and the active Zanker Road Resource Recovery Operation and Landfill (ZRRROL) to the north, WPCP sludge drying beds to the east/northeast, Los Esteros Road and the WPCP facility to the south, and Artesian Slough and the inactive WPCP recycled water filling station to the west. The active Zanker Material Processing Facility lies immediately west of Artesian Slough.

The tidal marsh/wetlands north and northwest of the Nine Par Site include a habitat restoration area for the salt marsh harvest mouse. Access to this area is limited, and because of the limitations, subsurface

[1] Golder Associates, August 2010. Field Workplan, Nine Par Landfill – Preliminary Site Investigation, Zero Waste Energy Development Company, San Jose, California. Project No. 103-97163

investigation, as originally proposed in the Field Workplan, was not conducted in these marsh/wetland areas.

1.2 Proposed Land Use

ZWED is proposing a 150,000-ton per year AD facility to process and recover energy from the organic portion of municipal solid waste generated by the San Jose and surrounding communities. The AD facility is currently proposed to be developed in three separate phases and upon completion will include receiving buildings, compost tunnels, digester tunnels, biofilters, storage tanks, and conveyor systems. The development will also include compost maturation and finishing areas, underground utilities, aggregate base access roads, landscaped areas, and pavement areas. Because of the nature of the proposed development, there will not be a significant number of fulltime staff at the facility. The project is part of an integrated waste management system and complements the existing waste processing/disposal facilities located on Los Esteros Road in San Jose.

1.3 Historical Records

As part of this site investigation, historical records and aerial photographs were identified and reviewed. Some of the recent records reviewed were site-specific reports prepared for and supplied by ZWED. Some of the other records were supplied by the City. A chronological list of the City-supplied records, with the electronic file names, titles, dates, and a brief description of each file are included in Appendix A. References throughout this report to information obtained from these records lists the source as Appendix A. Because of their size, only a few of these documents are included in the appendix. In addition to the files listed in Appendix A, reports that provided specific geologic, hydrogeologic, or geotechnical/engineering information are cited in the text and identified in the References section of this report.

2.0 BACKGROUND

2.1 Site History

The Nine Par Landfill, which began on a 160-acre site in the former City of Alviso, was used for solid waste disposal from approximately 1938 until 1977. Waste disposal operations initially began in the southwest corner of the Nine Par Site (Appendix A) and based on aerial photographs, continued on the Nine Par Site into the 1950s. By the mid 1960s, disposal operations had expanded into the area that was later to become the ZRRROL. It is Golder's understanding that the landfill received its first Waste Discharge Requirements (WDRs) in 1975 when the Regional Water Quality Control Board, San Francisco Bay Region issued WDR Order 75-18. These WDRs, however, were specifically for the 70-acre parcel currently occupied by the ZRRROL. The WDR is included in Appendix A.

During the early period of operations, raw garbage and cannery wastes were fed to hogs kept on the site. Trenches were dug, metals were scavenged, and the remaining waste (post hog fed) was dumped into the trenches and burned. These operations occurred over much of the 160-acre Nine Par Landfill into the 1950s. After that time, hog feeding and burning were discontinued and waste disposal operations were generally limited to the trench cut and fill method of landfilling. The depth of the trenches likely extended to the depth of underlying groundwater, near or below sea level, as evidenced by aerial photos and exploratory borings through the waste. It has been estimated that the site subsequently subsided approximately 3.5 feet between 1938 and 1967 (Cooper-Clark and Associates, 1975), and the base of waste is now at a lower elevation than when it was originally placed in the trenches. Several historical aerial photographs were compiled by SCS Engineers (SCS) in their March 2007 report, and some of these photos are included in Appendix A; they span the years from 1939 to 1999. Small areas on the 1956 and 1965 aerial photos that appear to be standing water (black areas on photos) are present in the southwest corner and in the central portion of the Nine Par Site. These areas may have been exposed groundwater in trenches.

During the Nine-Par Company's operation of the site, waste quantity and type were poorly documented; disposed materials reportedly consisted of a mix of municipal solid waste, cannery waste, inert demolition debris (some possibly containing asbestos), and septic pumpings. The Environmental Impact Report (EIR) Summary for the Nine Par Sanitary Landfill (City of San Jose, 1983) states that in 1973 the site received approximately 11,350 tons of waste and approximately 100,000 gallons of septic tank pumpings each month. The Project Site for this EIR was the same 70 acres to which WDR 75-18 apply, that is, the area of the current ZRRROL. The time when septic pumpings were first accepted and their disposal location(s) are unknown. In 1975, the WPCP began receiving septic pumpings and the disposal practices at the Nine Par Landfill were discontinued. In 1978, a City memorandum stated auto dismantling operations were occurring at the site and had been occurring for several years (see Appendix A for electronic file name). The EIR states that an auto dismantling facility with numerous disabled automobiles

occupies the southeast portion of the EIR's project site. It is unknown if these two descriptions refer to the same area or where they were with respect to the Nine Par Site.

In 1984, approximately 70 acres in the northeastern portion of the Nine Par Company disposal area was purchased from the Nine Par Company by the Zanker Road Resource Management, Ltd (ZRRML). In 1985, the ZRRROL was opened and began recycling and landfilling operations on top of the existing filled portion of the former landfill. No records have been located that delineate the limits of waste for the entire Nine Par Company disposal area; it is reported the original property was 160 acres in size (Appendix A). Historical aerial photographs from 1974, and a 1977 map that was included in a solid waste facility permit application and in WDR 75-18 (Appendix A), suggest that the entire waste footprint of the current ZRRROL was created by operations at the older Nine Par disposal site.

With 70 acres of the original 160-acre site acquired by ZRRML, the remaining 90 acres became part of the City-owned buffer lands for the nearby WPCP. With this ownership change, and after municipal landfilling activities had ceased, the Nine Par Site was used for disposal of grit from aerator tanks and inert biosolids mixed with soil that were generated at the adjacent WPCP through the late 1980s. Filling took place in low spots and slopes on and around the then-inactive portion of the landfill. Records or surveys of these grit, biosolids, and soil disposal activities were not kept by the WPCP.

In November 2003, approximately 1,200 cubic yards of soil with naturally occurring asbestos (NOA) were placed on the Nine Par Site in what is known as the NOA stockpile area (Figure 2). These wastes were placed, covered, and surveyed under U.S. EPA oversight. The construction design plan for the AD facility and associated areas (e.g., roadways, parking lots, etc.) completely avoids the area where these NOA soils were disposed of in November 2003.

Since 2005, approximately 250,000 cubic yards of clean soils have been stockpiled by the City on the Nine Par Site. These soils were excavated from San Jose City Civic Center and San Jose Airport improvement projects. Approximate stockpile locations, as mapped by the City, are shown on Figure 2. The materials delivered to the Nine Par Site from these projects were evaluated for contaminants as part of the City Environmental Services Department Soil Management Program. The soils were screened for contaminants per San Francisco Regional Water Quality Control Board (RWQCB) risk-based guidelines. A summary report that includes results of soils testing and the City's screening procedures for the North Concourse Terminal Project at the San Jose International Airport was prepared in 2004 (City of San Jose, 2004). The report indicates the soil from the two projects is suitable for residential use.

Asbestos-containing building materials (ACBM) and NOA soil may be present in older fill materials disposed at the site. A 1979 EPA *Potential Hazardous Waste Site Log* for Nine Par Landfill indicates that asbestos may be present at the facility (Appendix A). The location(s) and type of material that led the

EPA inspector to identify materials as asbestos are unknown, but based on the 1974 aerial photograph of the site (see Appendix A), it is likely that the inspection was referring to the landfilled 40-acres that later became the ZRRROL. The landfill surface that was exposed at the time of the inspection in 1979 was subsequently covered by ZRRROL operations.

2.2 Previous Site Characterizations

In 1975, Cooper-Clark & Associates prepared a geotechnical investigation of the Nine Par Company's landfill (Cooper-Clark and Associates, 1975). The focus of the investigation was on the northern portion of the site which later became the ZRRROL. Several exploratory borings were drilled, including some along the boundary between the ZRRROL and the Nine Par Site. These boring locations are shown on Figure 3. The exploratory boring information was used by Cooper-Clark & Associates to develop engineering geologic cross sections that were later used in support of hydrogeologic characterization and permitting documents for the ZRRROL.

In 1995, a geotechnical engineering study was conducted by Earth Systems Consultants (Earth Systems, 1995) in support of the San Jose Effluent Diversion Facility Project for the WPCP to evaluate ground conditions and possible pipeline alignments for the reuse of treated wastewater from the plant. The study included several exploratory boreholes. Two of these borings were on the west side of the Nine Par Site, southeast of Artesian Slough, and two borings were along the south side of the site adjacent to Los Esteros Road. The approximate location of these boreholes is shown on Figure 3. Exploratory boring logs are included in Appendix B.

A field investigation was undertaken by SCS in 2007 on behalf of the City to provide a basis for redevelopment planning, design, and cost estimating. The results of the SCS investigations are documented in two reports (SCS, March 2007 and SCS, September 2007). Several exploratory borings were drilled and test pits were dug as part of their investigations. Exploratory locations are shown on Figure 3; logs are included in Appendix B.

In 2010, ENGEO Inc. (ENGEO) completed a geotechnical investigation on ZWED's behalf for the proposed development at the Nine Par Site (ENGEO, 2010). Their report included a summary of the field exploration and laboratory testing programs, as well as findings and recommendations related to geology and seismicity, subsurface conditions, groundwater occurrence, slope stability, and liquefaction. ENGEO's exploratory locations are shown on Figure 3; logs are included in Appendix B.

3.0 REGIONAL GEOLOGIC AND HYDROGEOLOGIC CONDITIONS

The Nine Par Site lies within the northern part of the Santa Clara Valley groundwater basin, which contains over 1,000 feet of unconsolidated to semi-consolidated clays, silts, sands, and gravel. Regional groundwater studies indicate that the primary freshwater aquifers of the northern Santa Clara Valley are restricted to buried channel deposits within the Pleistocene alluvium. The buried channel deposits are regionally grouped into upper and lower aquifers. Near the San Francisco Bay (Bay), these aquifers are separated from each other by the Pleistocene Bay Mud, which forms an extensive clay aquitard. Regional groundwater flow within the aquifer system is toward the Bay and is recharged by runoff from the Santa Cruz Mountains and the Diablo Range (Helley et al., 1979).

Investigations completed at the Zanker Material Processing Facility (EMCON, 1974 and 1989), the ZRRROL (Cooper-Clark and Associates, 1975; EMCON 1992), and on a regional scale (Iwamura, 1980; Poland and Ireland, 1985), indicate that sediments beneath the Nine Par Site are comprised of an “upper” and a “lower” aquifer. Near the Nine Par Site, the upper aquifer is encountered at approximately -45 feet MSL (approximately 40 to 45 feet below the natural ground surface), and is overlain by the Holocene Bay Mud and Holocene fine-grained alluvium. The Bay Mud was deposited in an estuarine environment and the fine-grained alluvium was deposited in inter-fluvial basins and fresh-water marshes. The upper aquifer is underlain by a laterally extensive clay aquitard that extends to -200 feet MSL. The lower aquifer occurs below this aquitard and forms an extensive drinking water aquifer in the Santa Clara Valley (Helley et al., 1979). Flowing artesian conditions from this aquifer have been reported in the area.

In addition to the upper and lower regional aquifers, shallow water-bearing sand zones have been identified within the Holocene Bay Mud and Holocene fine-grained alluvium, which interfinger beneath the site. These shallow water-bearing sand zones are separated from the upper aquifer by a regionally extensive Bay Mud aquitard. The quality of groundwater in the shallow water-bearing sands near the Bay is generally poor because of extensive saltwater intrusion (Iwamura, 1980). Groundwater is recharged mainly from local runoff and percolation. The sands within the shallow water-bearing zone have been characterized in detail beneath the Zanker Material Processing Facility and the ZRRROL because, although groundwater occurs in both the sands and surrounding clays, most groundwater movement occurs in the sands and potential impacts to groundwater would initially be detected in these sands.

3.1 Site Geologic and Hydrogeologic Conditions

Golder’s interpretation of the subsurface geologic and hydrogeologic conditions at the Nine Par Site is based on exploratory borings conducted for this investigations and on exploratory assessments previously conducted at the site (Cooper-Clark and Associates, 1975; Earth Systems Consultants, 1995; SCS, 2007; and ENGEO, 2010 and 2011) and adjacent sites (EMCON, 1989, 1992, 1993; Conor Pacific,

2000), and on groundwater monitoring and reporting services performed by Golder at the ZRRROL and Zanker Materials Processing facility since the 1990s.

Exploratory borings for this investigation were drilling into the landfill and around the perimeter of the Nine Par Site. A GeoProbe™ dual-tube, direct-push drill rig was used to core and sample soils and waste at the Nine Par Site; materials were logged according to the Unified Soil Classification System (USCS). Golder's field sampling procedures for the exploratory borings are included in Appendix C and boring logs are included in Appendix D. Five geologic cross sections are presented to depict the subsurface conditions at the Nine Par Site. Cross-section locations are shown on Figure 3. Cross sections A-A', B-B', and C-C' (Figure 4) were prepared by ENGEO in their March 2010 geotechnical report (ENGEO, 2010). Cross section D-D' (Figure 5) is a modification and westward extension of a cross section prepared by Cooper-Clark and Associates (1975). Cross section E-E' (Figure 5) is new.

3.1.1 Geology

3.1.1.1 Landfill Cover

The physical characteristics of the waste prism and cover soils at the Nine Par Site have been evaluated by Earth Systems Consultants, SCS, ENGEO, and Golder. These findings indicate that the non-engineered fill cover at Nine Par Site ranges in thickness from approximately 1 foot at the perimeter to as much as 25 feet in the higher portions of the site. The soils have been logged according to the USCS, and as shown on Figure 6, clays (classified as CL in the USCS) comprise approximately 93 percent of the soil in the cover. Silts (ML) comprise approximately 5 percent, and sands and gravels (SC, SP, and GP) comprise less than 2 percent. Clay soils were collected from non-engineered stockpiled soils in the cover from 2 to 3 feet below ground surface in test pits TP-4, TP-5, and TP-15 (see Figure 3) and were tested for hydraulic conductivity (SCS, September 2007). The values ranged from $1x10^{-4}$ to $3x10^{-7}$ centimeters per second (cm/sec).

3.1.1.2 Waste

The cover soils at the Nine Par site are underlain by municipal waste fill including a mixture of highly decomposed organic materials, glass, wood, metal, plastic, and construction and miscellaneous debris. The mixed waste layer varies in thickness from approximately 4 to 20 feet, and waste within the prism below an elevation of approximately 0 to 2 feet MSL is saturated. In the marsh/wetland area north of the Nine Par Site perimeter, fragments of broken glass, ceramics, and rusted metal are occasionally exposed on the ground surface in an arcuate shaped area that extends a maximum distance of approximately 300 feet from the Nine Par Site (see Figure 3 and aerial photographs in Appendix A). The arcuate area is elevated approximately 1 foot above the surrounding wetlands, which have an elevation of approximately 0 feet MSL. The exposed fragments are typically located near burrows. Glass fragments are also present near the waterline along the landfill-side of the pond that is immediately west of the northwest

portion of the Nine Par Site (Figure 3). Based on these occurrences and historical aerial photographs, the northern and western limits of these exposed-waste areas may define the limits of waste for the Nine Par Landfill. Between the pond and Los Esteros Road, the waste limit has not been confirmed but based on boring logs and historical aerial photographs, it is believed to extend to the eastern levee of Artesian Slough. The limit of waste along Los Esteros Road is not precisely known. Several feet of waste was encountered in exploratory borings EB-5 and EB-6 for this investigation and in borings 3 and 4 for the 1993 investigation (Figure 3 and Appendices B and D). Previous geophysical investigations do not appear to have delimited the edge of waste. Historical aerial photographs indicate that waste does not extend to Los Esteros Road.

3.1.1.3 Bay Mud

The waste is directly underlain by stiff clays or sandy silts and sands of the Holocene Bay Mud or Holocene fine-grained alluvium (these regional stratigraphic units are not readily distinguishable in core samples from the site). The clays have good shear strength and exhibit hydraulic conductivity on the order of $3x10^{-8}$ cm/sec (SCS, 2007). Moisture content of the deep soils underlying the waste range from 22.8 to 25.1 percent and dry densities range from 102.4 to 107.4 pounds per cubic foot (SCS, 2007).

Where encountered in exploratory borings beneath the Nine Par Site, the sands are fully saturated and range in thickness from less than 5 to approximately 15 feet. They occur within the -5 to -20 feet MSL interval. Beneath much of the site, the water-bearing sands are directly overlain by saturated refuse within the landfill. The shallow water-bearing sands are fine-grained sand, silty sand, and clayey sand (classified as SP, SM, and SC in the USCS). Silts, sandy silts, and clayey silts are also present to a lesser extent within the -5 to -20 feet MSL interval, and these silts are water bearing. The sand zones appear to be continuous under much of the Nine Par Site although exploratory borings in some areas did not encounter the sands (see Figures 4 and 5). The sands are separated from the upper aquifer by approximately 20 to 30 feet of low-permeability clay (generally classified as CL in the USCS) with a measured hydraulic conductivity of $3x10^{-8}$ cm/sec (SCS, 2007).

3.1.2 Hydrogeology

Because groundwater monitoring wells were not installed as part of this site investigation, stabilized groundwater elevations around and beneath the Nine Par Site were not directly measured. However, groundwater elevations are regularly measured at the adjacent ZRRROL and the Zanker Material Processing Facility where top-of-well casings were surveyed at the same time to the same datum. Groundwater elevations on March 22, 2011 range from approximately 0 to 1 foot, MSL at the ZRRROL site and from approximately 0 to -1 foot, MSL on the eastern edge of the Zanker Material Processing Facility site. The gradient is approximately 0.001 to 0.002 foot per foot, generally to the west. A schematic groundwater potentiometric surface map depicting these conditions is shown on Figure 7.

Leachate was encountered in exploratory boring EB-1 through EB-7, in the exploratory borings for leachate wells LW-1 through LW-4, and in some of the exploratory borings for landfill gas sampling (TP-1, TP-4, TP-8, and TP-9). Between March 17 and April 20, 2011, the leachate levels rose approximately 1 foot. Similar groundwater and leachate elevation changes have been observed historically at the ZRRROL and the Zanker Material Processing Facility.

3.1.3 Groundwater Velocity

Estimates of groundwater flow direction and velocity beneath the Nine Par Site are based on the March 2011 groundwater elevations and contour map described above. The hydraulic conductivity of the silty sand to sand of the uppermost water-bearing zone used in the groundwater velocity calculations is derived from measurements at the adjacent ZRRROL (EMCON, January 1993). Hydraulic conductivities range from 1 x 10^{-2} centimeters per second (cm/sec) to 5 x 10^{-5} cm/sec. The effective porosity has been estimated to be approximately 20 percent. Similar values are reported for the sands beneath the Zanker Material Processing Facility.

Average linear groundwater flow velocity (V) is estimated using the following equation.

$$V = \frac{Ki}{n}$$

Where: V = average linear velocity

K = hydraulic conductivity

i = horizontal hydraulic gradient

n = effective porosity

Using the range of hydraulic conductivity values, the estimated porosity, and the horizontal hydraulic gradient described above, the groundwater flow velocity beneath the Nine Par Site is calculated to range from approximately 1 foot to 100 feet per year. The relatively large variation is the result of the range of hydraulic conductivity values. This range is consistent with the groundwater velocity values determined for the ZRRROL and the Zanker Material Processing Facility for the past several years.

4.0 SAMPLE COLLECTION

Groundwater, leachate, landfill gas, and soil samples were collected for laboratory analyses, and surface gas emissions were field measured for composition and odor to establish baseline environmental conditions at the Nine Par Site. There were no visual indications of naturally occurring asbestos or asbestos containing building material on the cover or in the soil cores brought to the surface, so soil samples were not submitted for asbestos analysis. Perimeter soil-gas samples were not collected to assess lateral migration because all exploratory borings penetrated waste that was often saturated within 5 feet of the ground surface.

4.1 Groundwater and Leachate

Groundwater samples were collected from the uppermost saturated sands in temporary wells that were installed in exploratory borings EB-1 through EB-7. Because two discrete sands separated by more than one foot of clay were encountered in the EB-6 boring, groundwater samples were collected in separate boreholes from the shallow (EB-6s) and the deep (EB-6d) sand. Exploratory boring and temporary well construction procedures are described in Appendix C. The unfiltered samples from temporary wells EB-1 through EB-6 were collected on February 23, 24, 25, and 28, 2011, and the sample from temporary well EB-7 was collected on March 29, 2011. Leachate samples were collected from leachate wells LW-1, LW-2, and LW-3 on March 14, 2011, and from LW-4 on April 7, 2011. Exploratory borings and samples from EB-7 and LW-4 were performed at the request of RWQCB staff during a March 24, 2011 meeting. Groundwater and leachate well locations are shown on Figure 8. Leachate well construction summaries are presented on Table 2 along with leachate levels measured on March 28 and April 20, 2011.

The groundwater and leachate samples from locations EB-1 through EB-7 and leachate wells LW-1, LW-2, and LW-3 were analyzed for routine-monitoring field parameters, several inorganic general water-quality parameters, CAM 17 metals, volatile organic compounds (VOCs), total petroleum hydrocarbons (TPH), semivolatile organic compounds (SVOCs), organochlorine pesticides, polychlorinated biphenyls (PCBs), and chlorinated herbicides. The leachate samples were also analyzed for dioxins and furans. A similar but slightly limited suite of analyses was performed on the EB-7 and LW-4 samples. A list of parameters and analytical methods is included in Table 1.

Field measurements of pH, electrical conductivity (EC), temperature, color, dissolved oxygen (DO), oxidation reduction potential (ORP), and turbidity were taken and recorded on water sample field data sheets (Appendix E). Samples were properly preserved in containers provided by the laboratory and stored in coolers with ice on the day of sampling; samples kept overnight before delivery to the laboratory were kept in a secured refrigerator. Chain-of-custody documentation accompanied the samples through collection and delivery to the analytical laboratory. Analyses were performed by BC Laboratories, Inc. of

Bakersfield, California. BC Laboratories is a California State-Certified analytical laboratory (CA ELAP Certificate Number 1186).

For all analyses, concentrations were reported to the "trace" level. Trace concentrations are estimates of the constituent's concentration when the value is between the practical quantitation limit (PQL) (also known as reporting limit) and method detection limit (MDL). These trace values are estimates and not considered quantifiable or certifiable by the laboratory. The analytical reports for the groundwater and leachate samples are included in Appendix F.

4.2 Gas

Gas sampling included surface sweeps to assess methane emissions through the landfill cover, bar-probe punch sampling of gas in the cover at locations where surface-emissions monitoring indicated the presence of methane at 2 parts per million (ppm) or greater, and landfill gas sampling from temporary probes in areas where methane was confirmed in the cover soils. Landfill gas samples were also collected from two leachate wells because field measured methane in those wells was greater than 5 percent.

4.2.1 Surface Emissions

The surface emissions investigation procedures are described in Appendix C. Surface emissions field measurements were obtained on February 23, 2011 from all grids except Grid 1. Grid 1 was measured on March 17, 2011. Surface emissions measurements were taken during a period when the wind conditions were calm to less than 5 miles per hour. Locations and methane concentrations are shown on Figure 9. Results for the 2,500 field readings are included in Appendix E.

4.2.2 Bar Probe

Bar-probe gas samples were measured at a depth of approximately 3 to 5 feet into the landfill cover in areas where surface emissions monitoring indicated the presence of methane at 2 ppm or greater; other areas were also sampled to obtain adequate coverage of the Nine Par Site. The intent of the bar probe sampling was to refine the areas where landfill gas samples from buried waste would be collected. Procedures are described in Appendix C. The bar probe locations and the methane concentrations at those locations are shown on Figure 9. Field data are included in Appendix E.

4.2.3 Landfill Gas

Landfill gas samples were collected from unsaturated waste at temporary probes TP-2, TP-3, TP-5, TP-6, and TP-7 and from leachate wells LW-2 and LW-3. Samples were not obtained at locations TP-1, TP-4, TP-8, or TP-9 because the refuse was saturated to the overlying cover. Samples were collected in Summa canisters and submitted to BC Laboratories for analysis of fixed gases (i.e., carbon dioxide,

carbon monoxide, methane, nitrogen, and oxygen) and VOCs. Procedures are described in Appendix C. Sample Locations are shown on Figure 8.

4.2.4 Surface Odor

The baseline odor, measured as hydrogen sulfide (H_2S), which is typically a minor constituent in landfill gas, was measured at five upwind and five downwind locations at the Nine Par Site on March 30, 2011. The odor-point sampling locations are shown on Figure 8 as locations OP-1 through OP-10. Wind conditions were calm or from the west at less than 5 miles per hour. Odor assessment on the landfill cover was not performed because detectable landfill gas, measured as methane, never exceeded 9 parts per million.

4.3 Soil and Refuse

Soil samples from the perimeter exploratory borings and leachate wells were screened for volatile and combustible compounds with a photoionization detector (PID) and a flame ionization detector (FID). Results are included on the exploratory logs in Appendix D. High moisture conditions significantly affected the PID readings and the values are not considered reliable.

Selected soil and refuse samples from the leachate boreholes were placed in zip-lock bags during drilling and brought back to the office for screening and possible selection for laboratory analysis of total petroleum hydrocarbons and CAM 17 metals. Based on office screening results, soil samples from the borings for leachate wells LW-2 and LW-3, and an unsaturated refuse sample from LW-2 were selected for laboratory analysis.

5.0 MONITORING RESULTS

The results of the groundwater, leachate, landfill gas, and soil and refuse measurements and analyses are discussed below and are summarized in Tables 3 through 7. The laboratory analytical reports are presented in Appendix F. The groundwater and leachate results on Tables 3 and 4, landfill gas results on Table 6, and soil and refuse results on Table 7 also include Environmental Screening Levels (ESLs) from the RWQCB's Interim Final Report issued in May 2008. The ESL values listed are for: 1) groundwater that is not a potential drinking water source (ESL Table F-1b) except vinyl chloride which is the aquatic habitat goal rather than the indoor air goal; 2) shallow soils for commercial/industrial areas where vapor intrusion is a potential concern (ESL Table E-2); or 3) shallow soils for commercial/industrial areas where groundwater is not a drinking water source (ESL Table B). The ESLs are numerical reference values for screening for environmental concerns and potential risks at sites with contaminated soil or groundwater.

5.1 Laboratory Quality Control Results

Standard laboratory quality control (QC) procedures were used by the analytical laboratories to document possible biases related to the analytical process. These QC procedures included the use of surrogate spikes, method blanks, matrix spikes, and matrix spike duplicates.

Surrogate spiking compounds are added to every gas chromatography-mass spectrometry (GC/MS) surrogate spike sample. Method blanks are analyzed to assess possible effects of the laboratory environment on samples. Matrix spikes and matrix spike duplicates are analyzed by the laboratory to provide a quantitative measure of accuracy and precision, and to document effects that the sample matrix has on the analysis.

The laboratory reports (Appendix F) indicate that all samples were analyzed within recommended holding times. QC data on surrogate spikes, method blanks, and matrix spikes are presented with the laboratory reports. BC Laboratories considered all results valid and acceptable. BC noted that the reporting limits for some metals and several inorganic analyses were raised due to sample dilution required to account for matrix interference. Details are presented with the laboratory reports.

As a field quality control measure, trip blanks supplied by the laboratory accompanied samples during transport and temporary holding while awaiting analysis. A trip blank is used to document contamination attributable to shipping and field handling procedures, and may also serve to detect contamination from containers. The trip blanks were analyzed for VOCs by EPA Method 8260. No VOCs were detected in any of the trip blanks.

5.2 Groundwater Monitoring Results

5.2.1 Organic Compounds

Samples collected in February and March 2011 from the site's temporary groundwater monitoring wells were analyzed for VOCs, TPH, SVOCs, organophosphorus pesticides, organochlorine pesticides, PCBs, and chlorinated herbicides. Groundwater results are summarized in Table 3. The full list of compounds is contained on the laboratory reports in Appendix F.

5.2.1.1 Volatile Organic Compounds

Groundwater samples were analyzed for Subtitle D Appendix II VOCs by EPA Method 8260. Eleven VOCs were detected in 5 of the 8 groundwater samples from the temporary wells. With the exception of samples collected in the northwest corner of the Nine Par Site from borings EB-2 and EB-7, no VOCs were reported at concentrations greater than 1 microgram per liter (µg/L). VOCs were not detected in the samples from EB-3, EB-5, and EB-6d (deeper sand). A single trace- or low-level VOC was reported in the samples from EB-1 and EB-4, and three trace-level VOCs were reported in the sample from EB-6s (shallower sand).

The sample from temporary well EB-2 was reported with a total VOC concentration of approximately 10,277 µg/L, and nearly all of this is composed of trichloroethene (TCE) and its breakdown products (*cis*-1,2-dichloroethene, *trans*-1,2-dichloroethene, and vinyl chloride). This occurrence was reported to the San Francisco Regional Water Quality Control Board in mid-March 2011, and at a meeting on March 24, 2011, they requested that an additional groundwater sample be collected near and downgradient from temporary well EB-2 and an additional leachate sample be collected near EB-2 (leachate is discussed in Section 5.3). Sample EB-7 was collected for that reason, and the sample was reported with six VOC detections. The concentrations of these VOCs, however, were significantly lower than the values reported in the sample from EB-2. The total VOC concentration in the EB-7 sample was 47.8 µg/L. The maximum concentration was 41 µg/L *cis*-1,2-dichloroethene, which is a TCE breakdown product. TCE was reported at a concentration of 4.2 µg/L. These results indicate that the location of EB-7 is on the margin of the VOC impact zone. Results are in Table 3. The schematic groundwater contour map presented on Figure 7 suggests that the impact identified at EB-2 may have migrated in a more northwesterly direction than the location of sample point EB-7.

The VOC results for the groundwater samples were compared to ESL values, and as shown on Table 3, the only ESLs that were exceeded were for trichloroethene and *cis*-1,2-dichloroethene in the EB-2 sample; no ESLs were exceeded in other groundwater sample.

5.2.1.2 Total Purgeable Petroleum Hydrocarbons and Total Petroleum Hydrocarbons

Groundwater samples were analyzed for total purgeable petroleum hydrocarbons by EPA Method 8260 and for TPH by EPA Method 8015CC.

No total purgeable petroleum hydrocarbons (carbon chain range C4 - C12 [i.e., gasoline range]) were detected in any of the samples with the exception of samples from temporary wells EB-2 and EB-7. However, the laboratory manager said the total purgeable petroleum hydrocarbons reported in the sample from EB-2 are composed of chlorinated solvents and not gasoline. For the EB-7 sample, the reported value of 53 µg/L total purgeable petroleum hydrocarbons is inconsistent with values reported for TPH in the C8 through C12 range, and is likely an artifact of the chlorinated solvent as well.

Total petroleum hydrocarbons were detected in the samples from temporary wells EB-5 (C15 to C28 range) and EB-6s (C15 to C32 range). TPH (total) concentrations in wells EB-5 and EB-6s were 300 and 710 µg/L, respectively. Both values exceeded the ESL for TPH. Results are presented in Table 3. It is of note that the groundwater ionic composition in these two samples is similar to the leachate composition at LW-2 and LW-3; details are discussed in Section 5.4 below.

5.2.1.3 Semivolatile Organic Compounds

Groundwater samples collected in February 2011 were analyzed for SVOCs by EPA Method 8270C. No SVOCs were detected in any of the samples from the temporary monitoring wells. Results are presented in Table 3. The sample collected in March from EB-7 was not analyzed for SVOCs because none were detected in the February samples. However, 1,4-dioxane, which is analyzed by EPA Method 8270SIM, was requested in the March sample from EB-7 because of its common association with TCE. 1,4-dioxane was detected in the EB-7 sample at a low-level concentration of 12 µg/L. This value is below the ESL. The other groundwater samples were analyzed for 1,4-dioxane by EPA Method 8260; it was not detected by that method. Results are presented in Table 3.

5.2.1.4 Organochlorine Pesticides

Groundwater samples collected in February 2011 were analyzed for organochlorine pesticides by EPA Method 8081. No compounds were detected. Results are presented in Table 3. Organochlorine pesticides were not tested in the March sample from EB-7 because they were absent in the February samples.

5.2.1.5 Polychlorinated Biphenyls

Groundwater samples collected in February 2011 were analyzed for PCBs by EPA Method 8082. No compounds were detected. Results are presented in Table 3. PCBs were not tested in the March sample from EB-7 because they were absent in the February samples.

5.2.1.6 Chlorinated Herbicides

Groundwater samples collected in February and March 2011 were analyzed for chlorinated herbicides by EPA Method 8151. No herbicides were detected with the exception of dicamba, which was detected at 0.26 µg/L in the sample from temporary well EB-2. Results are presented in Table 3. There is no ESL established for dicamba.

5.2.2 Inorganic and General Water-Quality Parameters

Samples collected in February and March 2011 from the site's temporary groundwater monitoring wells were analyzed for several inorganic general water-quality parameters and dissolved CAM 17 metals. Field measurements of pH, EC, temperature, color, DO, ORP, and turbidity were also taken at the time of sample collection. Groundwater results are summarized in Table 3.

General water-quality parameters include: the cations calcium, magnesium, sodium, and potassium; bicarbonate and carbonate alkalinity; chloride, fluoride, nitrate plus nitrite as nitrogen, nitrate as nitrogen, sulfate, total dissolved solids (TDS), total cyanide, nitrite as nitrogen, total sulfide, and total organic carbon (TOC).

The general groundwater quality parameters results indicate that:

- Bicarbonate alkalinity concentrations ranged from 730 to 1,500 milligrams per liter (mg/L). There were no detections of carbonate alkalinity in any groundwater sample.
- Chloride concentrations ranged from 1,100 to 18,000 mg/L.
- Fluoride concentrations ranged from 0.31 to 2.5 mg/L.
- Nitrate/Nitrite as N concentrations was detected in samples from four wells ranging from 0.016 (trace) to 0.23 mg/L.
- Nitrate as N and nitrite as N were not detected in any groundwater sample.
- Sulfate concentrations ranged from 53 to 2,200 mg/L.
- TDS concentrations ranged from 3,400 to 32,000 mg/L.
- Total cyanide was detected in all groundwater samples at concentrations ranging from 0.0025 (trace) to 0.12 mg/L.
- Total sulfide was not detected in any groundwater sample.
- TOC concentrations ranged from3.8 to 70 mg/L.

As expected, the more mineralized groundwater was found on the northern side of the site, closer to the Bay. The only general groundwater quality parameter with an ESL is cyanide, and the reported values did not exceed the ESL. Complete analytical results and reporting limits are in Appendix F.

The field parameter results indicate that:

- DO ranged from 2.0 to 10.0 mg/L.
- EC ranged from 4,248 to 32,707 micromhos per centimeter (µmhos/cm).

- pH ranged from 7.31 to 8.18 standard units (s.u.).

Field data sheets with all recorded field measurements are in Appendix E.

5.2.3 Metals

Samples collected in February and March 2011 from the site's temporary groundwater monitoring wells were analyzed for CAM 17 metals, which include: antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc.

The groundwater samples results indicate that:

- Antimony, beryllium, cadmium, thallium, and zinc were not detected in any sample.
- Barium, mercury, and molybdenum were detected in all groundwater samples. The mercury and molybdenum concentrations, with two exceptions, were all at trace level.
- The remaining metals were detected in one or more samples; the highest concentrations were generally reported for the sample from EB-7.

ESLs were exceeded in one or more samples for all CAM 17 metals with the exception of antimony, cadmium, molybdenum, selenium, and thallium. Complete analytical results and reporting limits are in Appendix F.

5.3 Leachate Monitoring Results

5.3.1 Organic Compounds

Samples collected in March and April 2011 from the site's four leachate monitoring wells were analyzed for VOCs, SVOCs, organophosphorus pesticides, organochlorine pesticides, PCBs, chlorinated herbicides, and dioxins and furans. Leachate results are summarized in Table 4. The full list of compounds is contained on the laboratory reports in Appendix F.

5.3.1.1 Volatile Organic Compounds

Leachate samples collected in March and April 2011 were analyzed for Subtitle D Appendix II VOCs by EPA Method 8260. A summary of the results is presented in Table 4. The full list of compounds and compound detection limits is contained in the laboratory reports in Appendix F.

Twenty-two VOCs were detected in the samples from the leachate wells. Total VOCs, excluding trace concentrations, ranged from 31.88 µg/L in the sample from well LW-2 to 163.60 µg/L in the sample from well LW-1. No ESLs were exceeded in the leachate samples.

5.3.1.2 Total Purgeable Petroleum Hydrocarbons and Total Petroleum Hydrocarbons

Leachate samples collected in March and April 2011 were analyzed for total purgeable petroleum hydrocarbons by EPA Method 8260 and for TPH by EPA Method 8015CC.

Total purgeable petroleum hydrocarbons (C4-C12, or gasoline range) were detected in all samples at concentrations ranging from 120 to 310 µg/L. The ESL was exceeded in the samples from LW-1 and LW-4.

Total petroleum hydrocarbons were detected in all samples, typically in the C10 to C36 range. TPH concentrations ranged from 1,900 to 3,500 ug/L. All samples exceeded the ESL.

Results are presented in Table 4.

5.3.1.3 Semivolatile Organic Compounds and 1,4-Dioxane

Leachate samples collected in March and April 2011 from leachate wells LW-1, LW-2, and LW-3 were analyzed for SVOCs, including 1,4-dioxane, by EPA Method 8270C. The sample from leachate well LW-4 was analyzed only for the SVOC 1,4-dioxane. 1,4-Dioxane was detected in all wells at concentrations ranging from 8.5 to 55 µg/L. Three other SVOCs were detected in wells LW-1, LW-2, and LW-3 at concentrations ranging from 1.9 to 8.9 µg/L; one ESL was exceeded. Results are presented in Table 4.

5.3.1.4 Organochlorine Pesticides

Leachate samples collected in March were analyzed for organochlorine pesticide by EPA Method 8081. No compounds were detected. Well LW-4 was not sampled for pesticides because of their absence in the other three wells. Results are presented in Table 4.

5.3.1.5 Polychlorinated Biphenyls

Leachate samples collected in March 2011 were analyzed for PCBs by EPA Method 8082. No PCBs were detected. Well LW-4 was not sampled for PCBs because of their absence in the other three wells. Results are presented in Table 4.

5.3.1.6 Chlorinated Herbicides

Leachate samples collected in March and April 2011 were analyzed for chlorinated herbicides by EPA Method 8151. No compounds were detected. Results are presented in Table 4.

5.3.1.7 Dioxins and Furans

Leachate samples collected in March 2011 from wells LW-1, LW-2, and LW-3 were analyzed for dioxins and furans by EPA Method 8290; LW-4 was not tested. Seventeen different compounds were detected.

Results are presented in Table 4. Higher concentrations were reported in the LW-1 sample than in the LW-2 or LW-3 samples. Only one of the compounds has an established ESL; it was not exceeded.

5.3.2 Inorganic and General Water-Quality Parameters

Leachate samples collected in March and April 2011 from the site's four leachate monitoring wells were analyzed for several inorganic general water-quality parameters and CAM 17 metals. Field measurements of pH, electrical conductivity (EC), temperature, color, dissolved oxygen (DO), oxidation reduction potential (ORP), and turbidity were also taken at the time of sample collection. Leachate results are summarized in Table 4.

General leachate quality parameters include: the cations calcium, magnesium, sodium, and potassium; bicarbonate and carbonate alkalinity; chloride, fluoride, nitrate plus nitrite as nitrogen, nitrate as nitrogen, sulfate, TDS, total cyanide, nitrite as nitrogen, total sulfide, and TOC.

The general leachate quality parameters results indicate that:

- Bicarbonate alkalinity concentrations ranged from 1,800 to 3,300 mg/L. There were no detections of carbonate alkalinity in any leachate sample.
- Chloride concentrations ranged from 860 to 2,500 mg/L.
- Fluoride concentrations ranged from non-detect (<0.12) to 0.93 mg/L.
- Nitrate as N was not detected in any leachate sample.
- Nitrite as N was detected at a trace-level concentration in one leachate sample, but was also detected in the associated method blank at a higher concentration.
- Sulfate concentrations ranged from 3.0 (trace) to 290 mg/L.
- TDS concentrations ranged from 4,200 to 6,200 mg/L.
- Total cyanide was detected in all leachate samples at concentrations ranging from 0.016 to 0.061 mg/L.
- Total sulfide was detected in two leachate samples at concentrations of 0.12 and 2.9 mg/L.
- TOC concentrations ranged from 100 to 260 mg/L.

Complete analytical results and reporting limits are in Appendix F.

The field parameter results indicate that:

- DO ranged from 2.8 to 7.25 mg/L.
- EC ranged from 7,015 to 10,359 µmhos/cm.
- pH ranged from 7.70 to 8.74 s.u.
- ORP ranged from -2.9 to 72 millivolts; three of the four samples were positive indicating oxidizing conditions.

Field data sheets with all recorded field measurements are in Appendix A.

5.3.3 Metals

Samples collected in March and April 2011 from the site's four leachate monitoring wells were analyzed for CAM 17 metals, which include: antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc.

The leachate samples results indicate that:

- Antimony, beryllium, cadmium, selenium, silver, and thallium were not detected in any sample, with the exception of trace-level cadmium and silver in the sample from LW-1.
- Barium, chromium, mercury, nickel, and zinc were detected in all leachate samples.
- The remaining metals were detected in two or more samples.

The sample from LW-1 generally has the higher metals concentrations. ESLs were exceeded in one or more leachate samples for all CAM 17 metals except antimony, beryllium, molybdenum, selenium, and thallium. Complete analytical results and reporting limits are in Appendix F.

5.4 Piper Diagram Analysis of Groundwater and Leachate Samples

When evaluating ionic water quality, absolute concentrations of the major ions can vary widely, but ratios of ionic constituents remain relatively constant. Graphical tools that use ratios instead of absolute concentrations, such as Piper diagrams, are useful for providing a "fingerprint" of the ionic character of the water. Piper diagrams are also useful for interpreting relationships that exist between various samples including mixing trends and geochemical reactions (e.g., cation exchange, precipitation and dissolution reactions, and sulfate reduction). Data on a Piper diagram is plotted as percentages of the principal cations and anions in separate triangular fields. The resulting anion and cation percentages for each sample are then projected into a central diamond-shaped field. The intersection of these projections represents the composition of the water with respect to the combination of ions shown.

Data from leachate and water sampling locations have been plotted on a Piper diagram (Figure 10). In the Piper diagram, the groundwater samples plot in three groupings, indicating that there is some constituent variation between the samples. Overall, the composition of site groundwater and leachate is dominated by sodium and potassium cations, which is typical of water near the Bay margin. There are three distinct groups with respect to anions and these are dominated be either chloride or bicarbonate. Leachate at well LW-1 and LW-4 on the northern side of the Nine Par Site is distinct and is dominated by bicarbonate. Leachate at wells LW-2 and LW-3, and groundwater from temporary wells EB-4, EB-5, and EB-6s are a distinct group characterized by an equal mixture of chloride and bicarbonate. This similarity is indicative of groundwater and leachate mixing, which is expected because much of the refuse is in direct contact with groundwater. The remaining five groundwater samples, from temporary wells EB-1, EB-2, EB-3, EB-6d, and EB-7, form a distinct group that is dominated by the chloride ion.

5.5 Landfill Gas Monitoring Results

Landfill gas and landfill gas emissions were monitored to characterize methane occurrence and landfill gas composition within the landfill and to assess gas and odor migration from the buried waste.

5.5.1 Odor Assessment

The baseline odor, measured as hydrogen sulfide (H_2S), was assessed at the Nine Par Site. Measurements were taken at upwind locations OP-1 through OP-5 and downwind locations OP-6 though OP-10. The odor-point sampling locations are shown on Figure 8. Hydrogen sulfide was not detected in any odor point sample. Results are included in Table 5.

5.5.2 Landfill Gas Composition

Landfill gas samples were analyzed for fixed gases by EPA Method 3C and for VOCs by EPA Method TO-15. Fixed gases include carbon dioxide, carbon monoxide, methane, nitrogen, and oxygen. Landfill gas results are summarized in Table 6.

Methane concentrations ranged from 0.39 to 76 percent and carbon dioxide ranged from 0.31 to 41 percent. The methane to carbon dioxide ratio ranges from 0.61 to 3.3. Oxygen concentrations range from <0.04 percent to 19 percent, and as expected oxygen is inversely correlated with methane (i.e., landfill gas with the highest methane concentration has the lowest oxygen concentration and gas with the lowest methane has the highest oxygen). The significant variation in methane content suggests isolated area of waste still contain decomposable organic material.

Twenty-eight VOCs were detected in the landfill gas at total concentrations ranging from 369 to 36,749 micrograms per cubic meter ($\mu g/m^3$). Results are shown on Table 6. The full list of compounds and compound detection limits are contained on the laboratory report in Appendix F. The VOC results for the landfill gas samples were compared to ESLs for shallow soil-gas for evaluation of potential vapor intrusion concerns at commercial industrial facilities, and as shown on Table 6, the only ESLs that were exceeded were for benzene in the TP-5 and LW-3 samples and vinyl chloride in the TP-3 and LW-3 samples; no ESLs were exceeded in other landfill gas samples.

5.6 Soil and Refuse Monitoring Results

Soil samples from the boring for leachate well LW-2 at and LW-3, and an unsaturated refuse sample from LW-2 were analyzed for gasoline range hydrocarbons by the California LUFT method, for total petroleum hydrocarbons by EPA Method 8015, and for CAM 17 metals by EPA Methods 6010B and 7471A. CAM 17 metals include: antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc. Results are summarized in Table 7. The laboratory reports with compound detection limits are in Appendix F.

Gasoline range petroleum hydrocarbons were not detected in the soil samples or the refuse. Total petroleum hydrocarbons in soils ranged from 55 to 180 milligrams per kilogram (mg/kg), and the value in refuse was 55 mg/kg. The petroleum hydrocarbon results for the soil and refuse samples were compared to ESL values for shallow soil where groundwater that is not a potential drinking water source, and as shown on Table 7, no ESLs were exceeded.

The soil samples results indicate that antimony, beryllium, cadmium, molybdenum, silver, and thallium were not detected in either soil sample, and mercury was only detected in the soil sample from the borehole for leachate well LW-3 at a concentration of 0.21 mg/kg. The remaining metals were detected in both samples at similar concentrations.

The refuse sample results indicate that all CAM 17 metals were present except beryllium, mercury, selenium, and thallium. The concentration of metals detected in the refuse sample was generally higher than that detected in the soil samples; chromium, copper, and zinc were an order of magnitude higher.

The only metal in the soil samples that exceeded an ESL was arsenic. ESLs were exceeded for arsenic, chromium, copper, and zinc in the refuse sample.

6.0 SUMMARY

The Nine Par Landfill, which began with the purchase of 160 acres in Alviso in 1934, was used for solid waste disposal during the period from approximately 1938 to 1977. Waste burning was part of the disposal operations until the 1950s. Waste quantity and type are poorly documented; disposed materials reportedly consisted of a mix of municipal solid waste, cannery waste, inert demolition debris (some possibly containing asbestos), and septic pumpings. In 1975 the Regional Water Quality Control Board, San Francisco Bay Region issued WDR Order 75-18 for the 70-acre portion of the larger Nine Par landfill that is currently occupied by the ZRRROL.

The Nine Par Site is underlain by clays and fine grained sands of the Holocene Bay Mud or Holocene fine-grained alluvium. Where encountered, the sands are fully saturated and range in thickness from less than 5 to approximately 15 feet and occur within the -5 to -20 feet MSL interval. Groundwater elevations range from approximately -1 to 1 foot, MSL with a gradient generally to the west that is approximately 0.001 to 0.002 foot per foot. The estimated groundwater velocity is approximately 1 to 100 feet per year. Beneath much of the site, the water bearing sands are directly overlain by saturated refuse within the landfill.

Waste in the landfill at the Nine Par Site is covered with non-engineered fill composed primarily of clay that ranges in thickness from approximately 1 foot at the perimeter to as much as 25 feet in the higher portions of the site. Waste thickness varies from approximately 4 to 20 feet with a bottom elevation generally higher than -10 feet MSL. Waste below an elevation of approximately 0 to 2 feet MSL is saturated.

The groundwater samples from locations EB-1 through EB-7 and leachate samples from leachate wells LW-1, LW-2, and LW-3 were analyzed for routine field parameters, several inorganic general water-quality parameters, CAM 17 metals, volatile organic compounds (VOCs), total petroleum hydrocarbons (TPH), semivolatile organic compounds (SVOCs), organochlorine pesticides, polychlorinated biphenyls (PCBs), and chlorinated herbicides. The leachate samples were also analyzed for dioxins and furans.

With the exception of samples collected in the northwest corner of the Nine Par Site from borings EB-2 and EB-7, no VOCs were reported at concentrations greater than 1 microgram per liter (µg/L). The sample from temporary well EB-2 was reported with a total VOC concentration of approximately 10,277 µg/L, and nearly all of this is composed of trichloroethene (TCE) and its breakdown products (*cis*-1,2-dichloroethene, *trans*-1,2-dichloroethene, and vinyl chloride). The total VOC concentration in the EB-7 sample, which was collected to further assess the conditions at EB-2, was 47.8 µg/L. The maximum concentration was 41 µg/L for the TCE breakdown-product *cis*-1,2-dichloroethene. TCE was reported at a concentration of 4.2 µg/L. The VOC results for the groundwater samples were compared to ESL values, and the only ESLs that were exceeded were for trichloroethene and *cis*-1,2-dichloroethene in

the EB-2 sample; no ESLs were exceeded in other groundwater sample. NOTE: Further investigation of temporary well EB-2 suggests that the high VOC concentration is localized to a small area in the northwestern corner of the existing landfilled area. The northward extent has not been determined.

Groundwater samples were analyzed for total petroleum hydrocarbons; they were detected in the samples from temporary wells EB-5 at 300 µg/L and EB-6s at 710 µg/L. Both values exceeded the ESL for TPH. Organochlorine pesticides, PCBs, and chlorinated herbicides were tested and with the exception of 0.26 µg/L of the chlorinated herbicide dicamba in the EB-2 sample, none were detected.

CAM 17 metals, which include: antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc were tested in groundwater. ESLs were exceeded in one or more samples for all CAM 17 metals except antimony, cadmium, molybdenum, selenium, and thallium.

Leachate analytical results indicate that low-level VOCs are present at total concentrations between approximately 32 and 164 µg/L, and none of the individual VOCs were reported at a concentration that exceeded its ESL. TPH is present in leachate at concentrations between 1,900 and 3,500 µg/L; these levels exceed the ESL. Four SVOCs were detected at a maximum concentration was 55 µg/L; one ESL was exceeded. There were no detections of organochlorine pesticides, PCBs, or chlorinated herbicides. Low level dioxins and furans were present. Most of the CAM 17 metals were detected in leachate, and the ESLs were exceeded in one or more leachate samples for all metals except antimony, beryllium, molybdenum, selenium, and thallium.

Comparison of the inorganic composition of groundwater and leachate indicates there are three distinct groups with respect to anions and these are dominated by either chloride or bicarbonate. Leachate at wells LW-1 and LW-4 on the northern side of the Nine Par Site are distinct and are dominated by bicarbonate. Leachate at wells LW-2 and LW-3, and groundwater from temporary wells EB-4, EB-5, and EB-6s are a distinct group characterized by an equal mixture of chloride and bicarbonate. This similarity is indicative of groundwater and leachate mixing, which is expected because much of the refuse is in direct contact with groundwater. The remaining five groundwater samples, from temporary wells EB-1, EB-2, EB-3, EB-6d, and EB-7, form a distinct group that is dominated by the chloride ion.

The migration of landfill gas from the waste through the cover was assessed in a multi-step process. A surface sweep was performed to identify potential areas of concern, bar-hole samples were measured, and temporary probes were installed to collect gas for laboratory analysis. Additionally, an odor assessment for hydrogen sulfide was performed at upwind and downwind locations; none was detected. Methane concentrations at the ground surface were less than 10 ppm, concentrations 3 to 5 feet below the surface ranged from nondetectable to 62 percent, and methane concentrations from waste ranged

from 0.5 to 68.8 percent. The results indicate an irregular methane distribution. VOC analysis of the landfill gas identified twenty-eight compounds. The only ESLs that were exceeded were for benzene in the TP-5 and LW-3 samples and vinyl chloride in the TP-3 and LW-3 samples; no ESLs were exceeded in other landfill gas samples.

7.0 REFERENCES

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Table 1

Laboratory Analytical Methods
Nine Par Landfill Site

Groundwater and Leachate	
Volatile Organic Compounds	EPA Method 8260B
Total Petroleum Hydrocarbons	Modified EPA Method 8015
CAM 17 Metals	EPA 6000/7000 series
Semi-volatile Organic Compounds	EPA Method 8270C
Organochlorine Pesticides	EPA Method 8081
PCBs	EPA Method 8082
Chlorophenoxy Herbicides	EPA Method 8151
Cyanide	EPA Method 335.2
Sulfide	EPA Method 376.1
Anions (Cl, Fl, NH2, NH3, SO4)	EPA Method 300.0
Bicarbonate and Carbonate Alkalinity	EPA Method 310.2
Calcium, Magnesium, Potassium, and Sodium	EPA Method 200.7
Total Dissolved Solids	EPA Method 160.1
Total Organic Carbon	EPA Method 415.1
Dioxins (Leachate only)	EPA Method 8290
Landfill Gas	
Volatile Organic Compounds including Toxic Organic Compounds	EPA Method TO-15
Fixed Gas (CO_2, CO, CH_4, N_2, O_2)	ASTM-D 1946
Soil and Fill	
CAM 17 Metals	EPA 6010
Total Petroleum Hydrocarbons	Modified EPA Method 8015
Asbestos* (for asbestos containing building materials)	EPA Method 600/R-93/116

Table 2
Leachate Well Construction Summary
Nine Par Landfill Site

Well ID	Date Installed	Latitude (GPS) 3/8/2011	Longitude (GPS) 3/8/2011	Ground Surface Elevation (feet, MSL) 3/17/2011	Top of Casing Elevation (feet, MSL) 3/17/2011	Casing Stickup (feet)	Depth to Leachate (feet -TOC) 3/17/2011	Depth to Leachate (feet -TOC) 3/28/2011	Depth to Leachate (feet -TOC) 4/20/2011	Leachate Elevation (feet, MSL) 3/17/2011	Leachate Elevation (feet, MSL) 3/28/2011	Leachate Elevation (feet, MSL) 4/20/2011	Screened Interval (feet, BGS)	Sandpack Interval (feet, BGS)
LW-1	3/7/2011	37° 26' 09.7"	121° 57' 04.9"	17.5	20.4	2.9	18.6	17.7	17.6	1.8	2.7	2.8	18.7 to 23.7	8 to 25
LW-2	3/8/2011	37° 26' 08.0"	121° 56' 50.4"	16.3	19.4	3.1	17.6	16.9	16.8	1.8	2.5	2.6	9.3 to 19.3	7.5 to 25
LW-3	3/7/2011	37° 26' 04.8"	121° 56' 58.5"	14.5	17.8	3.3	17.8	17.2	16.0	0.0	0.6	1.8	13.2 to 23.2	7 to 25
LW-4	4/5/2011	37° 26' 11.0"	121° 57' 10.7"	7.0	10.1	3.1	NA	NA	11.1	NA	NA	-1.0	5.7 to 10.7	4 to 10.7

Notes:
1) All wells constructed using 3/4-inch diameter PVC casing.
2) Ground surface elevation interpreted from ENGEO March 2010 site topographic map, 1 inch = 100 feet, 1-foot contours. Map elevations are based NGVD 29 datum.
3) Top of casing elevation calculated from estimated ground-surface elevation plus measured casing stickup. Datum is NGVD 29).
4) Latitude and longitude determined with Garmin 60 CSx handheld GPS
3) BGS = below ground surface

Table 3

Groundwater Analytical Results
Nine Par Landfill Site

Sample description		ESL (1) (GW-NDW)	EB-1	EB-2	EB-3	EB-4	EB-5	EB-6s	EB-6d	EB-7
Sample date	units	Table F-1b	02/23/11	02/24/11	02/24/11	02/25/11	02/28/11	02/28/11	02/28/11	03/29/11
Volatile Organic Compounds (2)										
Benzene	µg/L	*46*	<0.083	<0.83	<0.083	<0.083	<0.083	**0.15 (J)**	<0.083	<0.083
n-Butylbenzene	µg/L	*NE (5)*	<0.11	<1.1	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
sec-Butylbenzene	µg/L	*NE*	<0.15	<1.5	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
Chlorobenzene	µg/L	*25*	<0.093	<0.93	<0.093	<0.093	<0.093	<0.093	<0.093	<0.093
1,2-Dichlorobenzene	µg/L	*14*	<0.072	<0.72	<0.072	<0.072	<0.072	<0.072	<0.072	<0.072
1,3-Dichlorobenzene	µg/L	*65*	<0.15	<1.5	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
1,4-Dichlorobenzene	µg/L	*15*	<0.062	<0.62	<0.062	<0.062	<0.062	<0.062	<0.062	<0.062
1,1-Dichloroethane	µg/L	*47*	<0.11	**5.6**	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
1,1-Dichloroethene	µg/L	*25*	<0.18	**180**	<0.18	<0.18	<0.18	<0.18	<0.18	**0.46 (J)**
cis -1,2-Dichloroethene	µg/L	*590*	<0.085	**880**	<0.085	<0.085	<0.085	**0.16 (J)**	<0.085	**41**
trans -1,2-Dichloroethene	µg/L	*590*	<0.15	**8.0**	<0.15	<0.15	<0.15	<0.15	<0.15	**0.38 (J)**
Ethylbenzene	µg/L	*43*	<0.098	<0.98	<0.098	<0.098	<0.098	<0.098	<0.098	<0.098
Isopropylbenzene	µg/L	*NE*	<0.14	<1.4	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
p-Isopropyltoluene	µg/L	*NE*	<0.12	<1.2	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
Methyl *tert* -butyl ether	µg/L	*1,800*	<0.11	<1.1	<0.11	**0.71**	<0.11	<0.11	<0.11	<0.11
Naphthalene	µg/L	*24*	<0.36	<3.6	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
n-Propylbenzene	µg/L	*NE*	<0.11	<1.1	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
Styrene	µg/L	*100*	<0.068	<0.68	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068
Tetrachloroethene	µg/L	*120*	<0.13	<1.3	<0.13	<0.13	<0.13	<0.13	<0.13	**1.4**
Toluene	µg/L	*130*	**0.13 (J)**	<0.93	<0.093	<0.093	<0.093	**0.14 (J)**	<0.093	<0.093
Trichloroethene	µg/L	*360*	<0.085	**8,900**	<0.085	<0.085	<0.085	<0.085	<0.085	**4.2**
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	*NE*	<0.15	**94**	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
1,2,4-Trimethylbenzene	µg/L	*NE*	<0.12	<1.2	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
1,3,5-Trimethylbenzene	µg/L	*NE*	<0.12	<1.2	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
Vinyl Chloride	µg/L	*782*	<0.12	**210**	<0.12	<0.12	<0.12	<0.12	<0.12	**0.34 (J)**
Total Xylenes	µg/L	*100*	<0.36	<3.6	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
t-Butyl alcohol	µg/L	*18,000*	<9.4	<94	<9.4	<9.4	<9.4	<9.4	<9.4	<9.4
Total Petroleum Hydrocarbons										
TPPH by EPA 8260 (C4-C12)	µg/L	*210*	<7.2	**12,000** (3)	<7.2	<7.2	<7.2	<7.2	<7.2	**53**
TPH (C8 to C44 plus) by EPA 8015CC	µg/L	*210*	<5.0	<5.6	<5.0	<5.0	C15 to C28	C15 to C32	<5.6	<9.1
TPH (Total) by EPA 8015CC	µg/L	*210*	<100	<110	<100	<100	**300**	**710**	<110	<180
Semi-volatile Organic Compounds [EPA method 8270C]										
bis (2-ethylhexyl)phthalate	µg/L	*32*	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	NR
2-Methylnaphthalene	µg/L	*2.1*	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	NR
Naphthalene	µg/L	*24*	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	NR
1,4-Dioxane	µg/L	*50,000*	<42	<420	<42	<42	<42	<42	<42	**12**
All other compounds	µg/L	*varies*	ND (5)	ND	ND	ND	ND	ND	ND	NR
Organochlorine Pesticides [EPA method 8081]										
All compounds	µg/L	*varies*	ND	ND	ND	ND	ND	ND	ND	NR
Polychlorinated Biphenyls [EPA method 8082]										
All compounds	µg/L	*varies*	ND	ND	ND	ND	ND	ND	ND	NR
Chlorinated Herbicides [EPA method 8151]										
Dicamba	µg/L	*NE*	<0.037	**0.26**	<0.037	<0.037	<0.037	<0.037	<0.037	<0.037
All other compounds	µg/L	*varies*	ND	ND	ND	ND	ND	ND	ND	ND

Table 3

Groundwater Analytical Results
Nine Par Landfill Site

Sample description		ESL (1) (GW-NDW)	EB-1	EB-2	EB-3	EB-4	EB-5	EB-6s	EB-6d	EB-7
Sample date	units	Table F-1b	02/23/11	02/24/11	02/24/11	02/25/11	02/28/11	02/28/11	02/28/11	03/29/11
General Chemistry [various EPA methods]										
Calcium	mg/L	*NE*	530	160	410	18	14	42	110	330
Magnesium	mg/L	*NE*	1200	450	990	48	37	95	400	1000
Sodium	mg/L	*NE*	9,100	6,400	8,500	1,200	1,500	1,000	4,100	7,600
Potassium	mg/L	*NE*	95	62	250	13	9.6	170	140	380
Bicarbonate Alkalinity as CaCO3	mg/L	*NE*	770	1,400	730	1,200	1,300	1,500	1,500	1,200
Carbonate Alkalinity as CaCO3	mg/L	*NE*	<8.2	<8.2	<8.2	<8.2	<8.2	<8.2	<8.2	<8.2
Chloride	mg/L	*NE*	18,000	11,000	16,000	1,100	1,700	1,400	6,800	13,000
Fluoride	mg/L	*NE*	1.2 (J)	1.7 (J)	2.2 (J)	1.7	1.8	0.31	1.3	2.5
Nitrate/Nitrite as N	mg/L	*NE*	<0.010	<0.010	<0.010	0.23	0.016 (J)	0.090 (J)	<0.010	0.060 (J)
Nitrate as N	mg/L	*NE*	<0.70	<0.70	<0.70	<0.070	<0.070	<0.070	<0.28	<0.70
Sulfate	mg/L	*NE*	2,200	1,100	2,700	140	53	94	1,100	1,900
Total Dissolved Solids	mg/L	*NE*	32,000	22,000	31,000	3,400	4,400	3,700	14,000	26,000
Total Cyanide	mg/L	*1.0*	0.0045 (J)	0.0039 (J)	0.0025 (J)	0.0065	0.012	0.011	0.0041 (J)	0.0030 (J)
Nitrite as N	mg/L	*NE*	<0.0081	<0.0081	<0.0081	<0.0081	<0.0081	<0.0081	<0.0081	<0.0081
Total Sulfide	mg/L	*NE*	<5.0	<0.050	<10	<0.050	<1.0	<0.050	<0.050	<5.0
Total Organic Carbon	mg/L	*NE*	3.8	23	4.9	17	36	70	19	7.8
Metals [USEPA 6010B, 6020, and 7470A]										
Antimony	µg/L	*30*	<100	<100	<100	<20	<50	<20	<50	<130
Arsenic	µg/L	*36*	<75	<75	<75	<15	<38	**76 (J)**	<38	**240 (J)**
Barium	µg/L	*1,000*	**44 (J)**	**53 (J)**	**93 (J)**	**55**	**120**	**880**	**150**	**6,400**
Beryllium	µg/L	*0.53*	<10	<10	<10	<2.0	<5.0	<2.0	<5.0	**25 (J)**
Cadmium	µg/L	*0.25*	<10	<10	<10	<2.0	<5.0	<2.0	<5.0	<10
Chromium	µg/L	*180*	<10	<10	<10	<2.0	<5.0	**7.1 (J)**	<5.0	**2,400**
Cobalt	µg/L	*3.0*	<50	<50	<50	**23 (J)**	<25	**10 (J)**	**25 (J)**	**430 (J)**
Copper	µg/L	*3.1*	<23	<23	<23	**6.4 (J)**	<12	<4.6	<12	**1,700**
Lead	µg/L	*2.5*	**71 (J)**	<50	<50	<10	<25	<10	<25	**220 (J)**
Mercury	µg/L	*0.025*	**0.10 (J)**	**0.048 (J)**	**0.080 (J)**	**0.085 (J)**	**0.045 (J)**	**0.035 (J)**	**0.040 (J)**	**92**
Molybdenum	µg/L	*240*	**65 (J)**	**84 (J)**	**82 (J)**	**210**	**110 (J)**	**34 (J)**	**70 (J)**	**110 (J)**
Nickel	µg/L	*8.2*	**12 (J)**	**57 (J)**	<12	**67**	**29 (J)**	**17 (J)**	**47 (J)**	**3,100**
Selenium	µg/L	*5.0*	<110	<110	<110	<22	<55	<22	<55	<150
Silver	µg/L	*0.19*	**19 (J)**	<11	**20 (J)**	<2.2	<5.5	<2.2	**13 (J)**	**200**
Thallium	µg/L	*4.0*	<150	<150	<150	<30	<75	<30	<75	<170
Vanadium	µg/L	*19*	<10	<10	<10	**4.5 (J)**	**6.0 (J)**	**5.7 (J)**	<5.0	**1,500**
Zinc	µg/L	*81*	<59	<59	<59	<12	<30	<12	<30	**2,800**
Field Parameters (4)										
Dissolved oxygen	mg/L	--	10.0	7.7	2.4	4.9	4.4	3.3	4.6	2.0
Electrical conductivity	umhos/cm	--	30,990	24,140	32,707	4,248	5,471	5,766	17,058	28,819
pH	SU	--	7.45	7.51	7.44	8.18	8.01	7.48	7.60	7.31
Oxidation/Reduction Potential	mV	--	--	--	--	--	--	--	--	47
Temperature	degrees C	--	13.9	18.2	19.9	17.5	19.1	21.0	22.0	20.0

(1) ESLs are Environmental Screening Levels from SF Bay RWQCB Interim Final - May 2008 for groundwater that is not a potential drinking water source; Tables F-1b and F-4a except vinyl chloride which is the aquatic habitat goal.
(2) Analysis by EPA Method 8260B. Only compounds detected in one or more wells are listed. All other compounds were not detected at or above the method detection limit.
(3) Total Purgeable Petroleum Hydrocarbon in the EB-2 sample is composed of chlorinated solvents detected in the sample. It is not gasoline.
(4) Field parameters measured before sample was collected.
(5) NE - Not established; compound does not have an established Environmental Screening Level
ND - Not detected at or above the method detection limit.
NR - Not requested
(J) Trace concentration; value is an estimate.
(B) Compound also detected in associated laboratory or field blank.

Table 4

Leachate Analytical Results
Nine Par Landfill Site

Sample description Sample date	units	ESL (1) (GW-NDW) Table F-1b	LW-1 03/14/11	LW-2 03/14/11	LW-3 03/14/11	LW-4 04/07/11
Volatile Organic Compounds (2)						
Benzene	µg/L	*46*	**4.4**	**0.68**	**3.2**	**1.7**
n-Butylbenzene	µg/L	*NE (5)*	**0.76**	<0.11	**0.66**	**0.50 (J)**
sec-Butylbenzene	µg/L	*NE*	**0.26 (J)**	**0.30 (J)**	**0.78**	**0.54 (J)**
Chlorobenzene	µg/L	*25*	**6.0**	**12**	**3.3**	<0.19
1,2-Dichlorobenzene	µg/L	*14*	**0.12 (J)**	**0.21 (J)**	<0.072	<0.14
1,3-Dichlorobenzene	µg/L	*65*	<0.15	**0.20 (J)**	<0.15	<0.30
1,4-Dichlorobenzene	µg/L	*15*	**1.6**	**4.3**	**4.0**	<0.12
1,1-Dichloroethane	µg/L	*47*	<0.11	<0.11	<0.11	<0.22
1,1-Dichloroethene	µg/L	*25*	<0.18	<0.18	<0.18	<0.36
cis -1,2-Dichloroethene	µg/L	*590*	**0.30 (J)**	<0.085	**0.22 (J)**	<0.17
trans -1,2-Dichloroethene	µg/L	*590*	<0.15	<0.15	<0.15	<0.30
Ethylbenzene	µg/L	*43*	**5.2**	**0.49 (J)**	**1.5**	**11**
Isopropylbenzene	µg/L	*NE*	**2.9**	**0.75**	**2.8**	**2.2**
p-Isopropyltoluene	µg/L	*NE*	**47**	**0.18 (J)**	**0.75**	**0.44 (J)**
Methyl *tert* -butyl ether	µg/L	*1,800*	<0.11	**0.20 (J)**	<0.11	<0.22
Naphthalene	µg/L	*24*	**7.4**	**4.8**	**10**	**2.6**
n-Propylbenzene	µg/L	*NE*	**0.74**	**1.6**	**3.1**	**1.4**
Styrene	µg/L	*100*	<0.068	<0.068	**0.11 (J)**	<0.14
Tetrachloroethene	µg/L	*120*	<0.13	<0.13	<5.0	<0.26
Toluene	µg/L	*130*	**2.1**	**0.26 (J)**	**0.44**	**1.9**
Trichloroethene	µg/L	*360*	<0.085	<0.085	<0.085	<0.17
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	*NE*	**0.17 (J)**	**0.31 (J)**	<0.15	<0.30
1,2,4-Trimethylbenzene	µg/L	*NE*	**3.7**	**3.0**	**1.7**	**12**
1,3,5-Trimethylbenzene	µg/L	*NE*	**0.95**	**1.0**	<0.12	**3.6**
Vinyl Chloride	µg/L	*782*	<0.12	<0.12	**0.35 (J)**	<0.24
Total Xylenes	µg/L	*100*	**24**	**1.6**	**2.6**	**60**
t-Butyl alcohol	µg/L	*18,000*	**56**	<9.4	**61**	**41**
Total Petroleum Hydrocarbons						
TPPH by EPA 8260 (C4-C12)	µg/L	*210*	270	170	120	310
TPH (C8 to C44 plus) by EPA 8015CC	µg/L	*210*	C10 to C36	C10 to C36	C12 to C36	C10 to C32
TPH (Total) by EPA 8015CC	µg/L	*210*	**3,500**	**2,400**	**1,900**	**2,000**
Semi-volatile Organic Compounds [EPA method 8270C]						
bis (2-ethylhexyl)phthalate	µg/L	*32*	**3.0 (J)**	**3.3 (J)**	**6.1**	NR (6)
2-Methylnaphthalene	µg/L	*2.1*	<0.28	**1.9 (J)**	**4.2**	NR
Naphthalene	µg/L	*24*	**5.0**	**3.7**	**8.9**	NR
1,4-Dioxane	µg/L	*50,000*	**33**	**8.5**	**55**	**21**
All other compounds	µg/L	*varies*	ND	ND	ND	ND
Organochlorine Pesticides [EPA method 8081]						
All compounds	µg/L	*varies*	ND	ND	ND	NR
Polychlorinated Biphenyls [EPA method 8082]						
All compounds	µg/L	*varies*	ND	ND	ND	NR
Chlorinated Herbicides [EPA method 8151]						
Dicamba	µg/L	*NE*	<0.045	<0.037	<0.037	<0.037
All other compounds	µg/L	*varies*	ND	ND	ND	ND

Table 4

Leachate Analytical Results
Nine Par Landfill Site

Sample description		ESL (1) (GW-NDW)	LW-1	LW-2	LW-3	LW-4
Sample date	units	Table F-1b	03/14/11	03/14/11	03/14/11	04/07/11
General Chemistry [various EPA methods]						
Calcium	mg/L	*NE*	23	51	12	42
Magnesium	mg/L	*NE*	35	93	74	43
Sodium	mg/L	*NE*	1,900	1,300	2,000	1,800
Potassium	mg/L	*NE*	430	250	460	390
Bicarbonate Alkalinity as CaCO3	mg/L	*NE*	3,300	1,800	2,700	3,300
Carbonate Alkalinity as CaCO3	mg/L	*NE*	<8.2	<8.2	<8.2	<8.2
Chloride	mg/L	*NE*	1,400	1,600	2,500	860
Fluoride	mg/L	*NE*	0.54	0.28	<0.12	0.93
Nitrate/Nitrite as N	mg/L	*NE*	NR	NR	NR	0.24
Nitrate as N	mg/L	*NE*	<0.070	<0.070	<0.14	<0.14
Sulfate	mg/L	*NE*	3.0 (J)	10	14	290
Total Dissolved Solids	mg/L	*NE*	5,800	4,200	6,200	5,400
Total Cyanide	mg/L	*1.0*	0.061	0.017	0.016	0.016
Nitrite as N	mg/L	*NE*	<0.0081	0.0099 (J)(B)	<0.0081	<0.0081
Total Sulfide	mg/L	*NE*	<1.0	0.12	<0.50	2.9
Total Organic Carbon	mg/L	*NE*	260	100	250	170
Metals [USEPA 6010B, 6020, and 7470A]						
Antimony	µg/L	*30*	<65	<65	<65	<65
Arsenic	µg/L	*36*	**100 (J)**	<49	<49	**120 (J)**
Barium	µg/L	*1,000*	**1,200**	**860**	**490**	**980**
Beryllium	µg/L	*0.53*	<5.0	<5.0	<5.0	<5.0
Cadmium	µg/L	*0.25*	**7.0 (J)**	<5.0	<5.0	<5.0
Chromium	µg/L	*180*	**210**	**8.3 (J)**	**76**	**100**
Cobalt	µg/L	*3.0*	**42 (J)**	<25	**46 (J)**	**31 (J)**
Copper	µg/L	*3.1*	**870**	<12	**40 (J)**	**930**
Lead	µg/L	*2.5*	**2,000**	<25	**86 (J)**	**1,800**
Mercury	µg/L	*0.025*	**1.8**	**0.14 (J)**	**0.29**	**0.36**
Molybdenum	µg/L	*240*	**80 (J)**	<25	**30 (J)**	**42 (J)**
Nickel	µg/L	*8.2*	**210**	**21 (J)**	**82**	**100**
Selenium	µg/L	*5.0*	<75	<75	<75	<75
Silver	µg/L	*0.19*	**9.5 (J)**	<5.0	<5.0	5.0
Thallium	µg/L	*4.0*	<85	<85	<85	<85
Vanadium	µg/L	*19*	**45 (J)**	<8.0	**18 (J)**	**18 (J)**
Zinc	µg/L	*81*	**3,300**	**160 (J)**	**260**	**1,000**
Field Parameters (4)						
Dissolved oxygen	mg/L	--	5.5	2.8	7.25	1.53
Electrical conductivity	umhos/cm	--	9,995	7,015	10,359	5,458
pH	SU	--	8.74	7.70	8.38	8.01
Oxidation/Reduction Potential	mV	--	72	-2.9	57	24
Temperature	degrees C	--	25.3	21.0	20.9	22.1

(1) ESLs are Environmental Screening Levels from SF Bay RWQCB Interim Final - May 2008 for groundwater that is not a potential drinking water source; Tables F-1b and F-4a except vinyl chloride which is the aquatic habitat goal.

(2) Analysis by EPA Method 8260B. Only compounds detected in one or more wells are listed. All other compounds were not detected at or above the method detection limit.
(3) Total Purgeable Petroleum Hydrocarbon in the EB-2 sample is composed of chlorinated solvents detected in the sample. It is not gasoline.
(4) Field parameters measured before sample was collected.
(5) NE - Not established; compound does not have an established Environmental Screening Level
ND - Not detected at or above the method detection limit.
(J) Trace concentration; value is an estimate.
(B) Compound also detected in associated laboratory or field blank.

Table 4

Leachate Analytical Results
Nine Par Landfill Site

Sample description Sample date	units	ESL (1) (GW-NDW) Table F-1b	LW-1 03/14/11	LW-2 03/14/11	LW-3 03/14/11
Dioxins & Furans [EPA method 8290]					
2,3,7,8-Tetra CDD*	pg/L	1	< 3.4[2]	0.71 (J)	1.94 (J)
1,2,3,7,8-Penta CDD	pg/L	NE	9.03 (J)	0.85 (J)	1.17 (J)
1,2,3,4,7,8-Hexa CDD	pg/L	NE	12.6 (J)	1.50 (J)	1.94 (J)
1,2,3,6,7,8-Hexa CDD	pg/L	NE	**64**	7.94 (J)	9.26 (J)
1,2,3,7,8,9-Hexa CDD	pg/L	NE	43.0[1] (J)	4.44[1] (J)	6.22[1] (J)
1,2,3,4,6,7,8-Hepta CDD	pg/L	NE	**2330**	**427**	**603**
Octa CDD	pg/L	NE	**12900**	**7170**	**7790**
Total Tetra CDD	pg/L	NE	**441**	15.8 (J)	13.1 (J)
Total Penta CDD	pg/L	NE	**437**	14.1 (J)	9.06 (J)
Total Hexa CDD	pg/L	NE	**2200**	**296**	**325**
Total Hepta CDD	pg/L	NE	**5300**	**1200**	**1580**
2,3,7,8-Tetra CDF**	pg/L	NE	< 90[3]	4.93 (J)	8.10 (J)
1,2,3,7,8-Penta CDF	pg/L	NE	29.1 (J)	1.92 (J)	1.46 (J)
2,3,4,7,8-Penta CDF	pg/L	NE	46.7 (J)	4.35 (J)	2.76 (J)
1,2,3,4,7,8-Hexa CDF	pg/L	NE	**100[1]**	6.57[1] (J)	4.68[1] (J)
1,2,3,6,7,8-Hexa CDF	pg/L	NE	55.1 (J)	4.90 (J)	2.95 (J)
2,3,4,6,7,8-Hexa CDF	pg/L	NE	40.2 (J)	< 1.7[4]	1.35 (J)
1,2,3,7,8,9-Hexa CDF	pg/L	NE	3.18 (J)	< 0.66[4]	< 0.72
1,2,3,4,6,7,8-Hepta CDF	pg/L	NE	**308**	< 41[4]	< 31[4]
1,2,3,4,7,8,9-Hepta CDF	pg/L	NE	22.3 (J)	4.72 (J)	3.76 (J)
Octa CDF	pg/L	NE	**202**	81.6 (J)	63.3 (J)
Total Tetra CDF	pg/L	NE	**796**	**32**	**29**
Total Penta CDF	pg/L	NE	**582**	43.7 (J)	28.6 (J)
Total Hexa CDF	pg/L	NE	**571**	84.2 (J)	70.3 (J)
Total Hepta CDF	pg/L	NE	**548**	98.0 (J)	88.7 (J)
Confirmation 2,3,7,8-Tetra CDF	pg/L	NE	**32**	-	**-**

pg/L - picograms per liter
(J) Trace concentration; value is an estimate.
NE - Not established; compound does not have an established Environmental Screening Level
*CDD - Chloro Dibenzo-p-Dioxin
**CDF - Chloro Dibenzo-p-Furan
[1] EMPC / Merged Peak
[2] RT >2 seconds - PCDD/DF analysis - Peak detected exceeds expected retention time (from internal standard) by greater than 2 seconds.
[3] RT > 3 seconds - PCDD/DF analysis - Peak detected exceeds expected retention time (from internal standard) by greater than 3 seconds.
[4] EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

Table 5

Surficial Odor Measurements
Nine Par Landfill Site

Station ID	Date Measured	Time Measured	Wind Speed (mph)	Hydrogen Sulfide (ppm)	Methane (percent)	Carbon Dioxide (percent)
OP-1	3/30/2011	8:30	Calm	0	0	0
OP-2	3/30/2011	8:40	Calm	0	0	0
OP-3	3/30/2011	8:55	Calm	0	0	0
OP-4	3/30/2011	9:05	Calm	0	0	0
OP-5	3/30/2011	9:20	Calm	0	0	0
OP-5	3/30/2011	10:20	W at 4 to 5	0	0	0
OP-7	3/30/2011	10:10	W at 4 to 5	0	0	0
OP-8	3/30/2011	10:00	W at 4 to 5	0	0	0
OP-9	3/30/2011	9:45	W at 4 to 5	0	0	0
OP-10	3/30/2011	9:35	Calm	0	0	0

Sampling performed with a GEM 2000 equipped with a hydrogen sulfide module

Table 6

Landfill Gas Analytical Results
Nine Par Landfill Site

Sample description		ESL	TP-2	TP-3	TP-5	TP-6	TP-7	LW-2	LW-3
Sample date	units	Table E-2	03/28/11	03/28/11	03/29/11	03/29/11	03/29/11	03/29/11	03/29/11
Fixed Gases [EPA method 3C]									
Carbon Dioxide	% by vol	NE	0.31	23	12	8.2	1.1	9.0	41
Carbon Monoxide	% by vol	NE	< 0.032	< 0.080	< 0.032	< 0.032	< 0.032	< 0.032	< 0.080
Methane	% by vol	NE	0.39	76	13	8.3	1.9	7.7	25
Nitrogen	% by vol	NE	80	< 9.8	72	77	79	68	33
Oxygen	% by vol	NE	19	< 0.040	3.2	6.2	18	16	1.1
Volatile Organic Compounds [EPA method TO-15][2]									
Acetone	µg/m^3	1,800,000	**260**	< 25	< 25	**550**	**210**	< 3.1	< 25
Benzene	µg/m^3	280	**10 (J)**	**130**	**720**	**74**	**14 (J)**	**32**	**1200**
2-Butanone (MEK)	µg/m^3	2,900,000	**48**	< 31	< 31	**130**	**26**	**18**	< 31
Benzyl chloride	µg/m^3	NE	<2.6	**340 (J)**	< 21	< 5.2	<2.6	< 2.6	< 21
Carbon Disulfide	µg/m^3	NE	**14 (J)**	< 17	**390**	< 4.2	< 2.1	**29**	**180**
Chlorobenzene	µg/m^3	580,000	< 2.3	< 18	< 18	< 4.6	< 2.3	**96**	**3900**
Cyclohexane	µg/m^3	NE	< 2.7	**1300**	**870**	**99**	**52**	**320**	**760**
1,4-Dichlorobenzene	µg/m^3	740	< 4.0	**220 (J)**	< 32	< 7.9	< 4.0	< 4.0	< 32
cis-1,2-Dichloroethene	µg/m^3	20,000	< 2.0	< 16	< 16	**27 (J)**	< 2.0	< 2.0	**69 (J)**
Ethanol	µg/m^3	NE	< 5.8	< 47	< 47	< 12	< 5.8	**420**	< 47
Ethylbenzene	µg/m^3	3,300	< 2.2	< 17	< 17	**32 (J)**	< 2.2	**12 (J)**	**1100**
4-Ethyl Toluene	µg/m^3	NE	< 4.4	< 35	< 35	< 8.8	< 4.4	**18 (J)**	**1500**
Dichlorodifluoromethane (Freon 12)	µg/m^3	NE	< 3.3	< 26	< 26	**33 (J)**	< 3.3	< 3.3	< 26
1,2-Dichlorotetrafluoroethane (Freon 114)	µg/m^3	NE	< 3.6	**2300**	**650**	**190**	**41**	< 3.6	**1700**
n-Heptane	µg/m^3	NE	< 2.4	**3700**	**1800**	**94**	**120**	**130**	**3900**
Hexane	µg/m^3	NE	**22 (J)**	**3400**	**2800**	**120**	**180**	**290**	**2800**
Isopropyl alcohol (Isopropanol)	µg/m^3	NE	< 2.3	< 19	< 19	< 4.7	< 2.3	**190**	< 19
4-Methyl-2-Pentanone (MIBK)	µg/m^3	2,900,000	< 6.1	< 49	< 49	**110**	< 6.1	< 6.1	< 49
Methylene Chloride	µg/m^3	17,000	< 1.7	< 14	< 14	< 3.5	**11 (J)**	< 1.7	< 14
Propylene	µg/m^3	NE	< 1.7	< 13	< 13	< 3.4	< 1.7	< 1.7	**6800**
Styrene	µg/m^3	530,000	< 2.3	< 18	< 18	**23 (J)**	< 2.3	< 2.3	< 18
Toluene	µg/m^3	180,000	**15 (J)**	< 15	< 15	**15 (J)**	**22**	**19**	**240**
1,2,4-Trimethylbenzene	µg/m^3	NE	< 2.5	< 20	**330**	< 4.9	< 2.5	**13 (J)**	**5000**
1,3,5-Trimethylbenzene	µg/m^3	NE	< 5.9	< 47	**110 (J)**	< 12	< 5.9	< 5.9	**1700**
m,p-Xylenes	µg/m^3	NE	< 4.8	< 38	**110 (J)**	< 9.6	< 4.8	**11 (J)**	**1600**
o-Xylene	µg/m^3	NE	< 3.0	< 24	< 24	< 6.1	< 3.0	< 3.0	**1200**
Total Xylenes	µg/m^3	58,000	< 7.8	<63	**110 (J)**	< 16	< 7.8	**11 (J)**	**2800**
Vinyl Chloride	µg/m^3	100	< 1.4	**320**	**90 (J)**	< 2.7	**9.1 (J)**	< 1.4	**300**

(1) ESLs are Environmental Screening Levels from SF Bay RWQCB Interim Final - May 2008 for shallow soil-gas screening levels for evaluation of potential vapor intrusion concerns at commercial industrial facilities (lowest value) - Table E-2.

(2) Only those compounds detected are listed. See lab reports for full list of compounds and detection limits.

% by vol = percent by volume

µg/m3 = micrograms per cubic meter

NE = Not established; compound does not have an established Environmental Screening Level

(J) = Trace concentration; value is an estimate.

Table 7

Soil and Refuse Analytical Results
Nine Par Landfill Site

Sample description Sample date	units	ESL (1) Shallow Soil (GW-NDW, C/I) Summary Table B	LW-2 (soil) 12.5 - 14.5 ft BGS 03/08/11	LW-2 (refuse) 15 ft BGS 03/08/11	LW-3 (soil) 5.5 - 6 ft BGS 03/07/11
Total Petroleum Hydrocarbons (2)					
Gasoline Range (C4-C12)	mg/kg	180	<0.10	0.56 (J)	0.60 (J)
TPH (C8 -C9)	mg/kg	180	<0.50	<0.50	<2.5
TPH (C10 - C11)	mg/kg	180	<0.50	<0.50	**5.7**
TPH (C12 - C14)	mg/kg	180	**2.1**	<0.50	3.6 (J)
TPH (C15 - C16)	mg/kg	180	**2.8**	<0.50	<2.5
TPH (C17 - C18)	mg/kg	180	**3.9**	0.68 (J)	<2.5
TPH (C19 - C20)	mg/kg	180	**6.9**	**2.5**	3.7 (J)
TPH (C21 - C22)	mg/kg	180	**6.3**	**4.3**	**7.5**
TPH (C23 - C28)	mg/kg	180	**13**	**22**	**53**
TPH (C29 - C32)	mg/kg	180	**11**	**14**	**53**
TPH (C33 - C36)	mg/kg	2500	**7.5**	**6.4**	**40**
TPH (C37 - C40)	mg/kg	2500	**2.0**	**1.5**	**11**
TPH (C41 - C43)	mg/kg	2500	<0.50	<0.50	<2.5
TPH (C44 plus)	mg/kg	2500	<0.50	<0.50	<2.5
TPH (Total)	mg/kg	NE	**55**	**52**	**180**
Metals [USEPA 6010B and 7471A]					
Antimony	mg/kg	40	1.5 (J)	**7.0**	1.4 (J)
Arsenic	mg/kg	1.6	**7.5**	**9.2**	**5.6**
Barium	mg/kg	1500	**150**	**170**	**140**
Beryllium	mg/kg	8.0	0.40 (J)	0.094 (J)	0.40 (J)
Cadmium	mg/kg	7.4	0.16 (J)	**2.9**	0.40 (J)
Chromium	mg/kg	750	**48**	**770**	**52**
Cobalt	mg/kg	80	**11**	**21**	**12**
Copper	mg/kg	230	**30**	**330**	**35**
Lead	mg/kg	750	**9.2**	**89**	**31**
Mercury	mg/kg	10	<0.012	<0.012	**0.21**
Molybdenum	mg/kg	40	0.75 (J)	**5.5**	1.2 (J)
Nickel	mg/kg	150	**79**	**62**	**72**
Selenium	mg/kg	10	**2.3**	0.55 (J)	**1.5**
Silver	mg/kg	40	<0.050	**1.4**	<0.050
Thallium	mg/kg	16	<0.73	<0.73	<0.73
Vanadium	mg/kg	200	**34**	**9.4**	**42**
Zinc	mg/kg	600	**59**	**1100**	**82**

(1) ESLs are Environmental Screening Levels from SF Bay RWQCB Interim Final - May 2008 for shallow soil where groundwater that is not a potential drinking water source (Summary Table B).
(2) Analysis of Gasoline range organics by California LUFT method. All TPH carbon chain analysis by EPA Method 8015.
mg/kg = milligrams per kilogram
NE = Not established; compound does not have an established Environmental Screening Level
(J) = Trace concentration; value is an estimate.

REFERENCE

http://services.arcgisonline.com/arcgis/services
I3_Imagery_Prime_World_2D (Arial imagery main map)
World_Street_Map (index map)

0 3,000 6,000 Feet

Golder Associates
Sunnyvale, CA

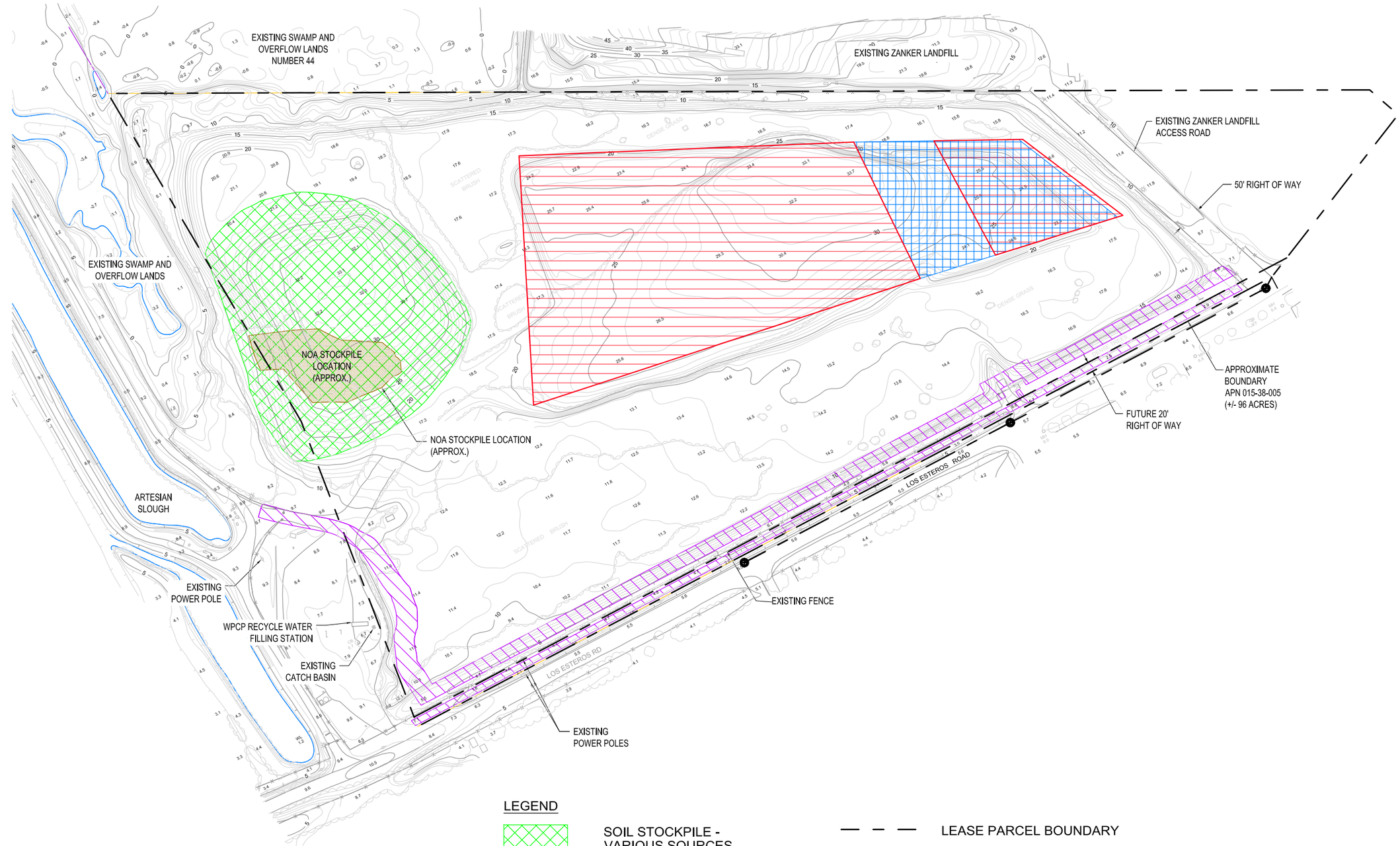
SCALE	AS SHOWN
DATE	4/18/2011
DESIGN	DLM
GIS	DLM
CHECK	TV
REVIEW	TV
FILE No.	
PROJECT No.	103-97163-11
REV.	

ZERO WASTE ENERGY DEVELOPMENT COMPANY
NINE PAR LANDFILL
PRELIMINARY SITE INVESTIGATION
SAN JOSE, CALIFORNIA

SITE LOCATION

FIGURE 1

Path: G:\GIS\Sites\Nine_Par\mxd\site_location.mxd



LEGEND

- SOIL STOCKPILE - VARIOUS SOURCES
- NEW CIVIC CENTER SURPLUS SOIL STOCKPILE
- AIRPORT - NORTH CONCOURSE SURPLUS SOIL STOCKPILE
- MAGNETOMETER SURVEY AREA (2007) (APPROXIMATE)
- LEASE PARCEL BOUNDARY
- 50 EXISTING CONTOUR

Modified from Worley-Parsons (5/24/10).

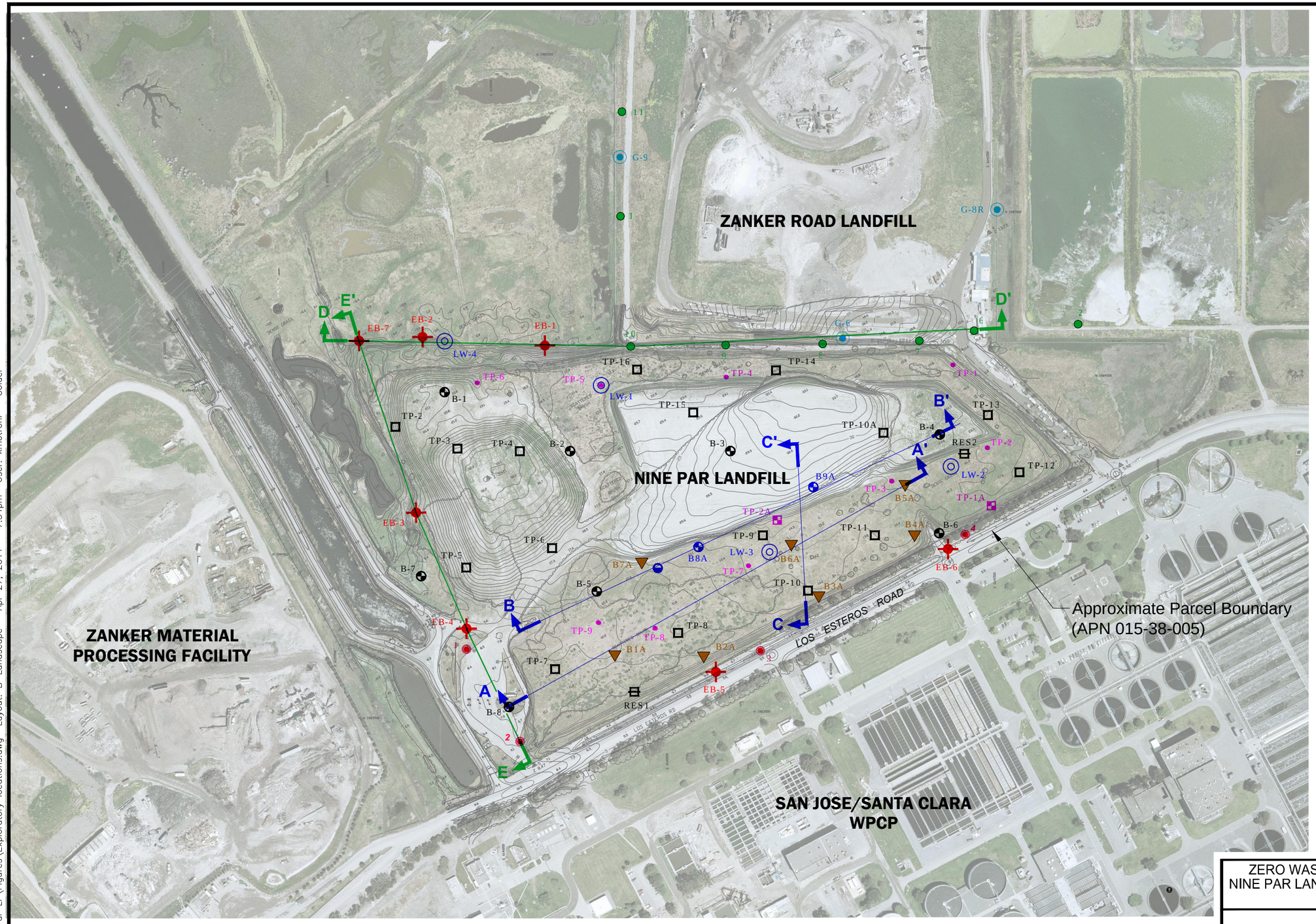
ZERO WASTE ENERGY DEVELOPMENT COMPANY
NINE PAR LANDFILL-PRELIMINARY SITE INVESTIGATION
SAN JOSE, CALIFORNIA

SITE PLAN WITH SOIL STOCKPILE AREAS

Golder Associates
Sunnyvale, California

PROJECT No.	103-97163		FILE No.	
DESIGN	TLV	8/17/10	SCALE AS SHOWN	REV.
CADD	KMM	8/17/10	**FIGURE 2**	
CHECK	TLV	8/17/10		
REVIEW	TLV	8/17/10		

XREF Files: GeneralArrangement9-partitleblck_2d7687-30D1D-EM1grdZWES-1-DW-111-717-025GeneralArrangement_Phase123_grayscale IMAGE Files: Nine Par Site Plan 05-13-2010_mo.jpg zwed_logo_new.jpg
File: G:\Projects\Nine Par LF\Figures\Fig 2_WP_Existing 9-Par Site.dwg Layout: Layout1 Aug 26, 2010 - 12:22pm User: kmotroni - Golder



EXPLANATION

EXISTING LOCATIONS:

- B9A — BORING LOCATION (ENGEO, 2010)
- B-8 — BORING LOCATION (SCS, 2007)
- 3 — BORING LOCATION (ESCNC, 1993)
- 11 — BORING LOCATION (EMCON, 1992)
- B7A — CPT LOCATION (ENGEO, 2010)
- TP-2A — TEST PIT LOCATION (ENGEO, 2010)
- TP-16 — TEST PIT LOCATION (SCS, 2007)
- RES2 — LOCATION OF ELECTRICAL RESISTIVITY TEST (ENGEO, 2010)
- INFILTRATION TEST LOCATION (ENGEO, 2010)
- G-9 — ZANKER ROAD LANDFILL GROUNDWATER MONITORING WELL
- C — CROSS SECTION LOCATION (ENGEO, 2010)
- D — CROSS SECTION LOCATION (EMCON, 1992 and Golder, 2011)

GOLDER LOCATIONS (2011):

- LW-3 — LEACHATE WELL
- EB-6 — EXPLORATORY BORING
- TP-9 — TEMPORARY GAS PROBE

NOTE: ALL LOCATIONS ARE APPROXIMATE.

N

300 0 300
SCALE FEET

ZERO WASTE ENERGY DEVELOPMENT COMPANY
NINE PAR LANDFILL-PRELIMINARY SITE INVESTIGATION
SAN JOSE, CALIFORNIA

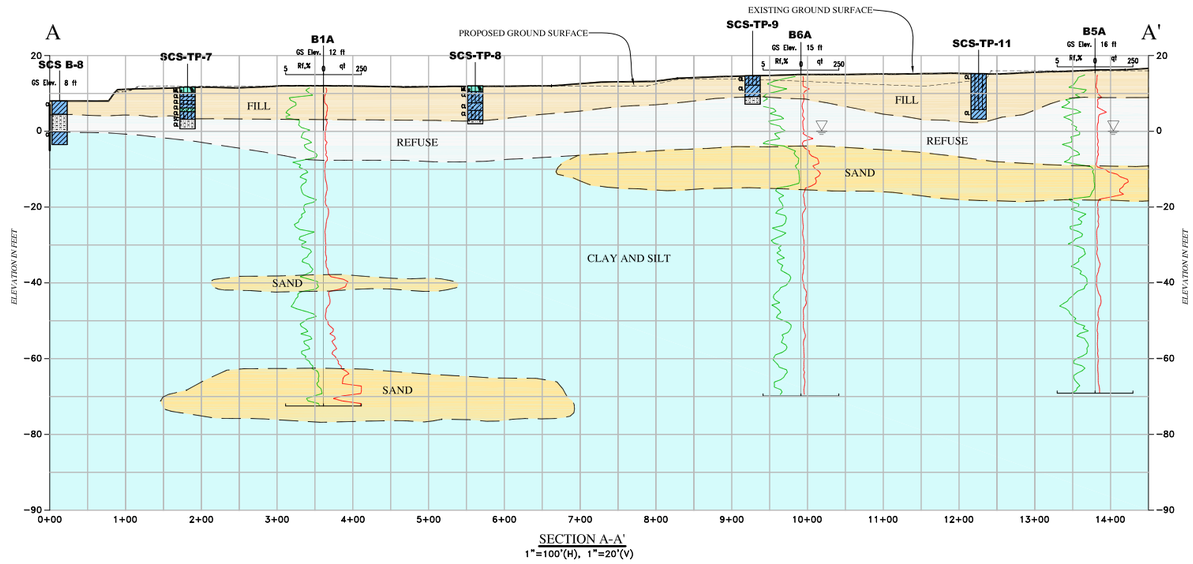
EXPLORATORY LOCATIONS

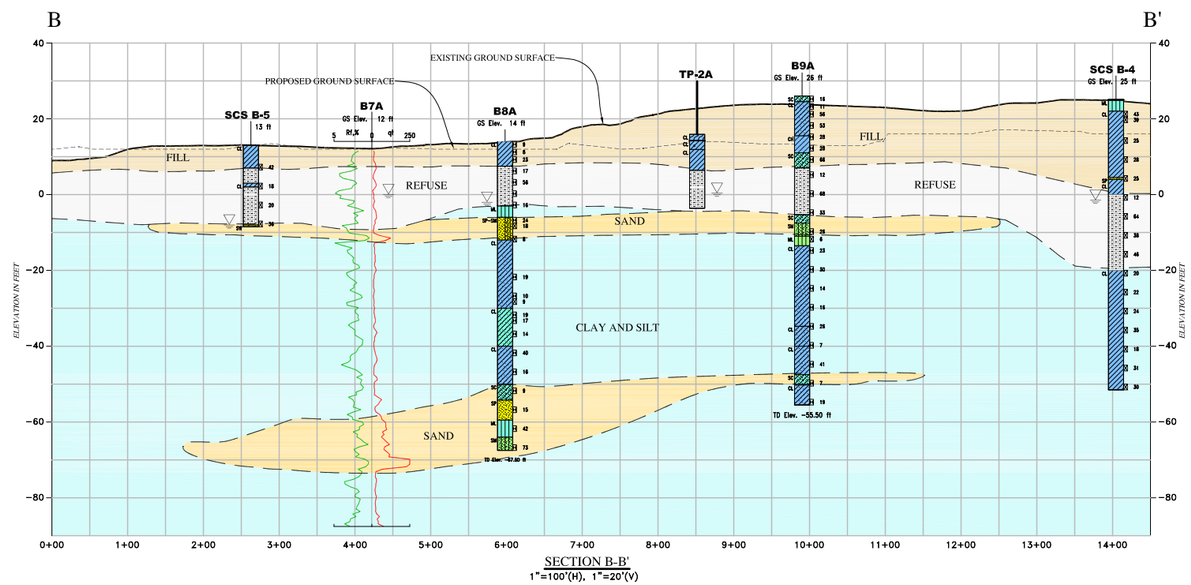
Golder Associates
Sunnyvale, California

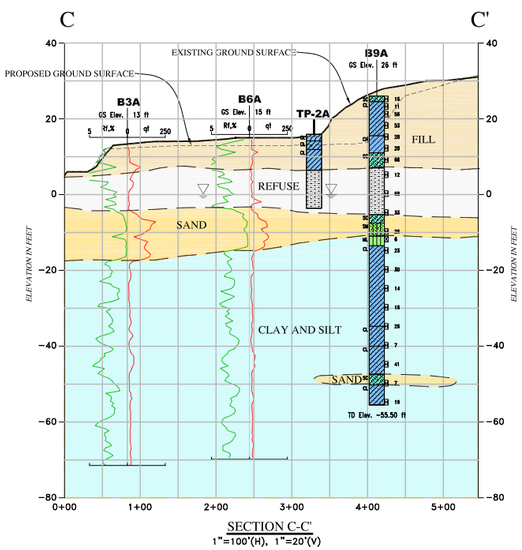
PROJECT No.	103-97163		FILE No.	
DESIGN	TLV	4/19/11	SCALE AS SHOWN	REV.
CADD	KMM	4/19/11		
CHECK	TLV	4/19/11	FIGURE 3	
REVIEW	TLV	4/19/11		

G:\Projects\Nine Par LF\Figures\Exploratory locations.dwg 4-27-11 07:54:12 PM kmotroni

XREF Files: LEASE_PARCEL (3)Topo IMAGE Files: ZWE_Aerial_SPC3_NAD83.JPG
File: G:\Projects\Nine Par LF\Figures\Exploratory locations.dwg Layout: B-Landscape Apr 27, 2011 - 7:54pm User: kmotroni - Golder







Cross sections A-A', B-B', and C-C' are ENGEO's Figures 4, 5, and 6 from their March 19, 2010 Geotechnical Report. Cross section locations are shown on Figure 3 of this report.

100 0 100
SCALE FEET

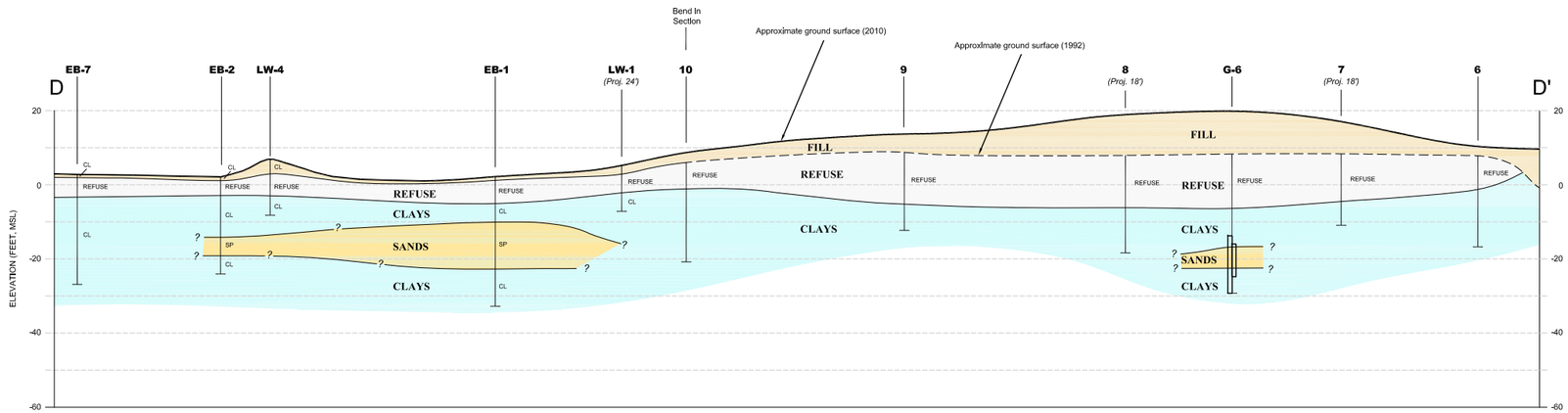
ZERO WASTE ENERGY DEVELOPMENT COMPANY
NINE PAR LANDFILL-PRELIMINARY SITE INVESTIGATION
SAN JOSE, CALIFORNIA

ENGEO GEOLOGIC CROSS SECTIONS
A-A', B-B', and C-C'

Golder Associates
Sunnyvale, California

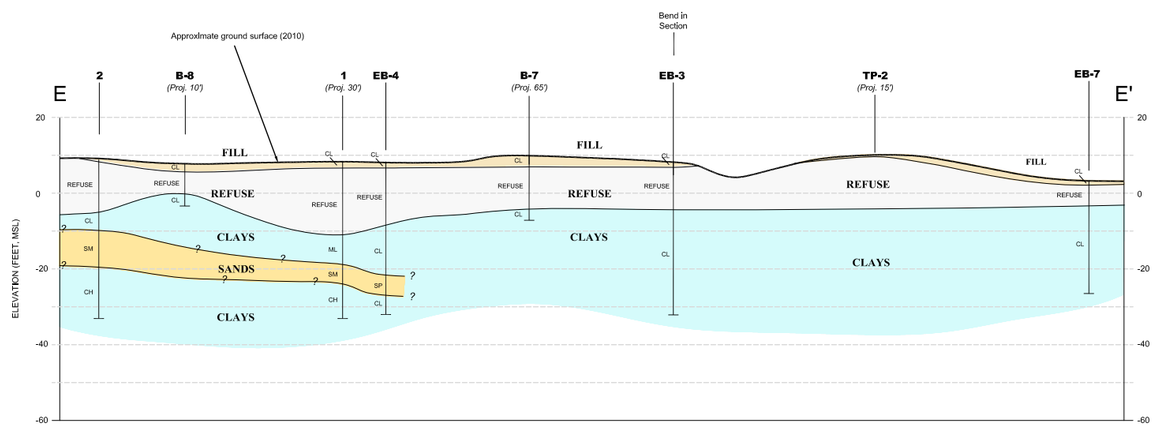
PROJECT No.	103-97163		FILE No.
DESIGN	TLV	5/2/11	SCALE AS SHOWN REV.
CADD	KMM	5/2/11	
CHECK	TLV	5/2/11	**FIGURE 4**
REVIEW	TLV	5/2/11	

XREF Files: IMAGE Files:
File: G:\Projects\Nine Par LF\Figures\Golder Cross Section D-D_E-E.dwg Layout: 22x34-Landscape_A-A'_B-B'_C-C' May 04, 2011 - 2:49pm User: kmotroni - Golder



SECTION D-D'

1"=100' (H), 1"=20' (V)



SECTION E-E'

1"=100' (H), 1"=20' (V)

Cross sections D-D' and E-E' are from Golder Associates Inc.
Cross section locations are shown on Figure 3 of this report.

100 0 100
SCALE FEET

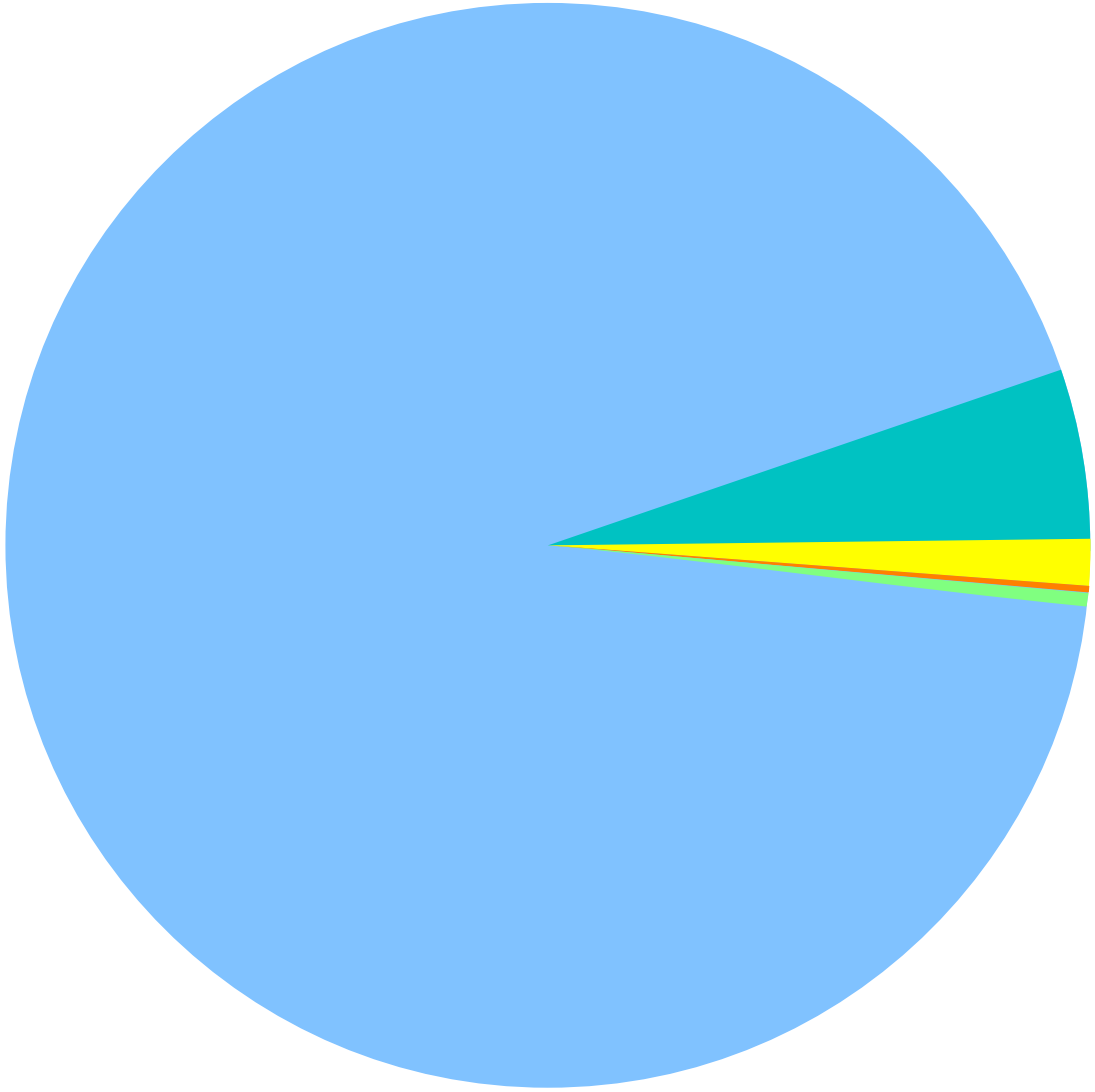
ZERO WASTE ENERGY DEVELOPMENT COMPANY
NINE PAR LANDFILL-PRELIMINARY SITE INVESTIGATION
SAN JOSE, CALIFORNIA

GEOLOGIC CROSS SECTIONS D-D' AND E-E'

Golder Associates
Sunnyvale, California

PROJECT No.	103-97163		FILE No.	
DESIGN	TLV	5/2/11	SCALE AS SHOWN	REV.
CADD	KMM	5/2/11		
CHECK	TLV	5/2/11	**FIGURE 5**	
REVIEW	TLV	5/2/11		

XREF Files: IMAGE Files:
File: G:\Projects\Nine Par LF\Figures\Golder Cross Section D-D_E-E.dwg Layout: 22x34-Landscape_D-D'_E-E' May 04, 2011 - 3:27pm User: knotroni - Golder



LEGEND

- **CL** (93%)
- **ML** (5.3%)
- **SC** (1.2%)
- **SP** (0.1%)
- **GP** (0.4%)

Unified Soils Classification System

CL = Inorganic clays, gravelly clays, sandy clays, silty clays, lean clays

ML = Inorganic silts and very fine sands, silty or clayey fine sands, or clayey silts

SC = Clayey sands, sand-silt mixtures

SP = Poorly graded sands or gravelly sands

GP = Poorly graded gravels or gravel-sand mixtures

Golder Associates

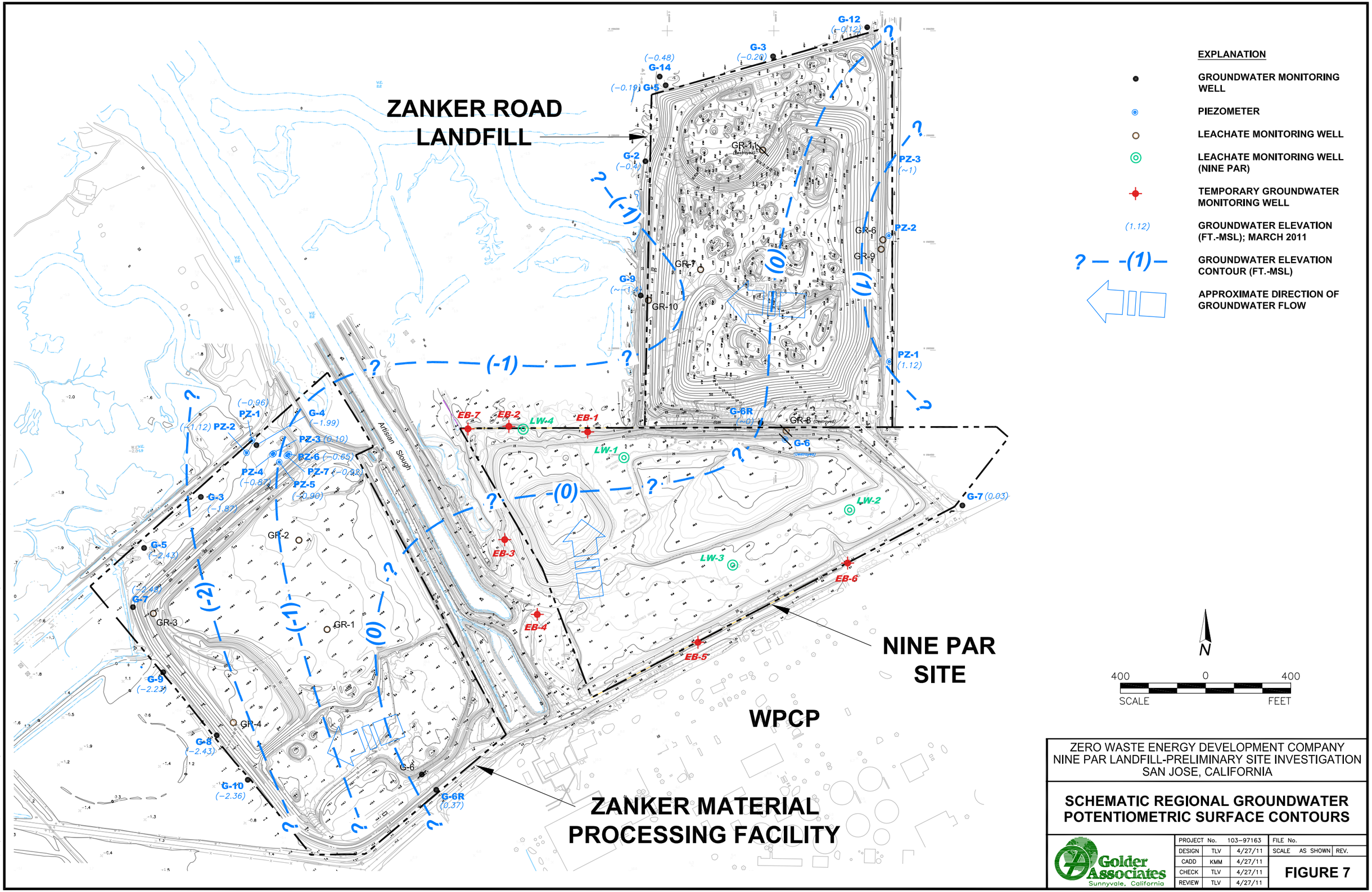
ZERO WASTE ENERGY DEVELOPMENT COMPANY
NINE PAR LANDFILL - PRELIMINARY SITE INVESTIGATION
SAN JOSE, CALIFORNIA

NINE PAR SITE COVER SOIL COMPOSITION

FIGURE
6

PROJECT NO.
103-97163-11

G:\103-97163-11\FIGURES\COVER COMPOSITION PIE CHART.DSF 4/29/11



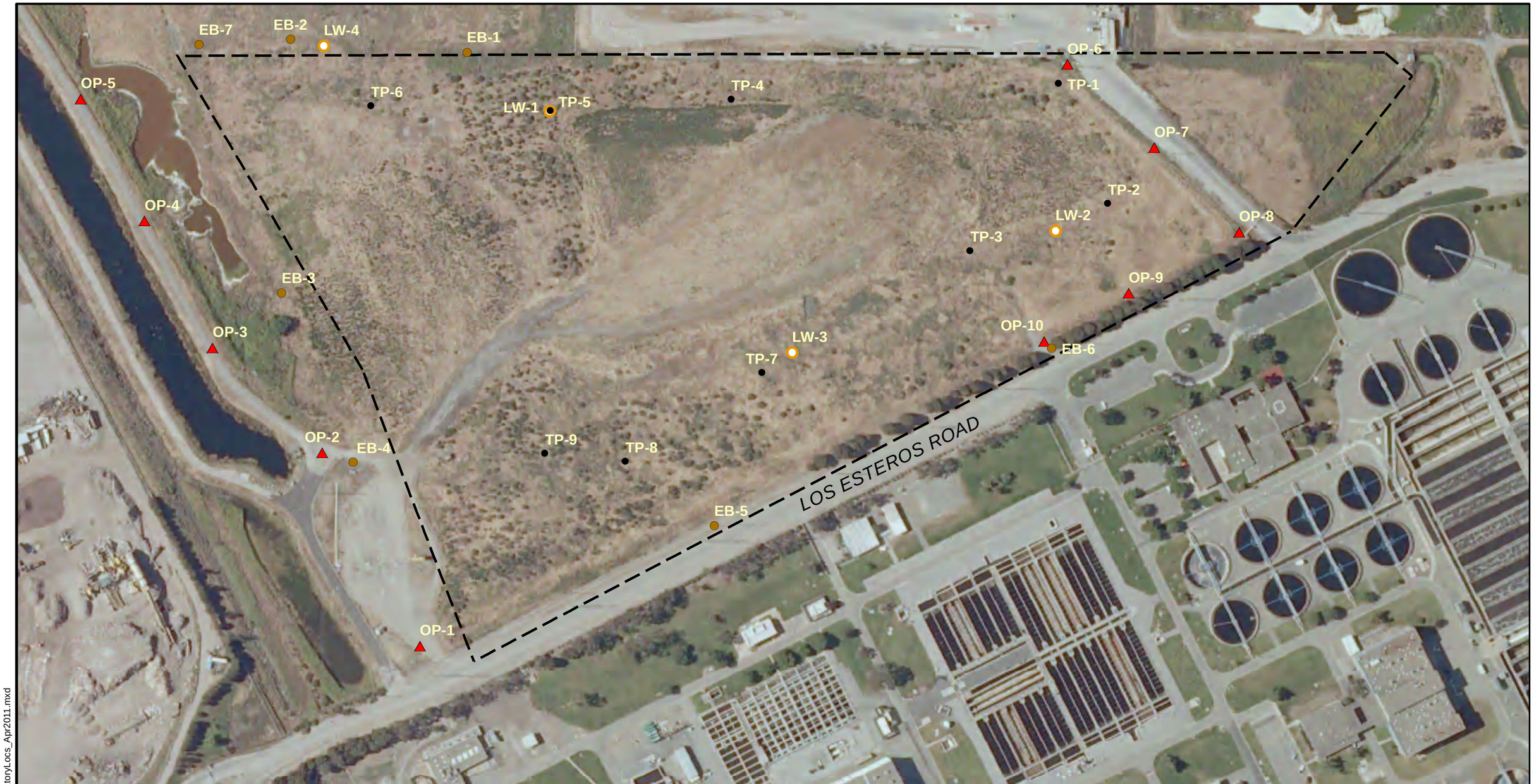
ZERO WASTE ENERGY DEVELOPMENT COMPANY
NINE PAR LANDFILL-PRELIMINARY SITE INVESTIGATION
SAN JOSE, CALIFORNIA

SCHEMATIC REGIONAL GROUNDWATER POTENTIOMETRIC SURFACE CONTOURS

Golder Associates
Sunnyvale, California

PROJECT No.		103-97163	FILE No.
DESIGN	TLV	4/27/11	SCALE AS SHOWN REV.
CADD	KMM	4/27/11	
CHECK	TLV	4/27/11	FIGURE 7
REVIEW	TLV	4/27/11	

XREF Files: ZANKER_RD_LANDFILL2010TOPO IMAGE Files:
File: G:\Projects\Nine Par LF\Figures\M04161 with zrl_zmp_nine-par_Regional GW.DWG Layout: Layout1 May 04, 2011 – 4:08pm User: kmotroni – Golder



LEGEND

- Exploratory boring (EB-1)
- Leachate well (LW-1)
- Odor point (OP-1)
- Temporary probe (TP-1)
- Site boundary (approximate)

REFERENCES

Spatial Reference:
NAD 1983 StatePlane California III FIPS 0403 Feet
Background image: Service Name: NAIP/California_2010_1m_NC
Server: http://gis.apfo.usda.gov/arcgis/services

N

0 100 200
Feet

PROJECT
ZERO WATER ENERGY DEVELOPMENT COMPANY
NINE PAR LANDFILL
PRELIMINARY SITE INVESTIGATION
SAN JOSE, CALIFORNIA

TITLE
2011 EXPLORATORY LOCATIONS

Golder Associates

PROJECT No.	10397163-11		FILE No.	
DESIGN	DLM	3/9/2011	SCALE: AS SHOWN	REV. 0
GIS	DLM	4/18/2011		
CHECK	TV	4/18/2011	**FIGURE 8**	
REVIEW	TV	4/18/2011		

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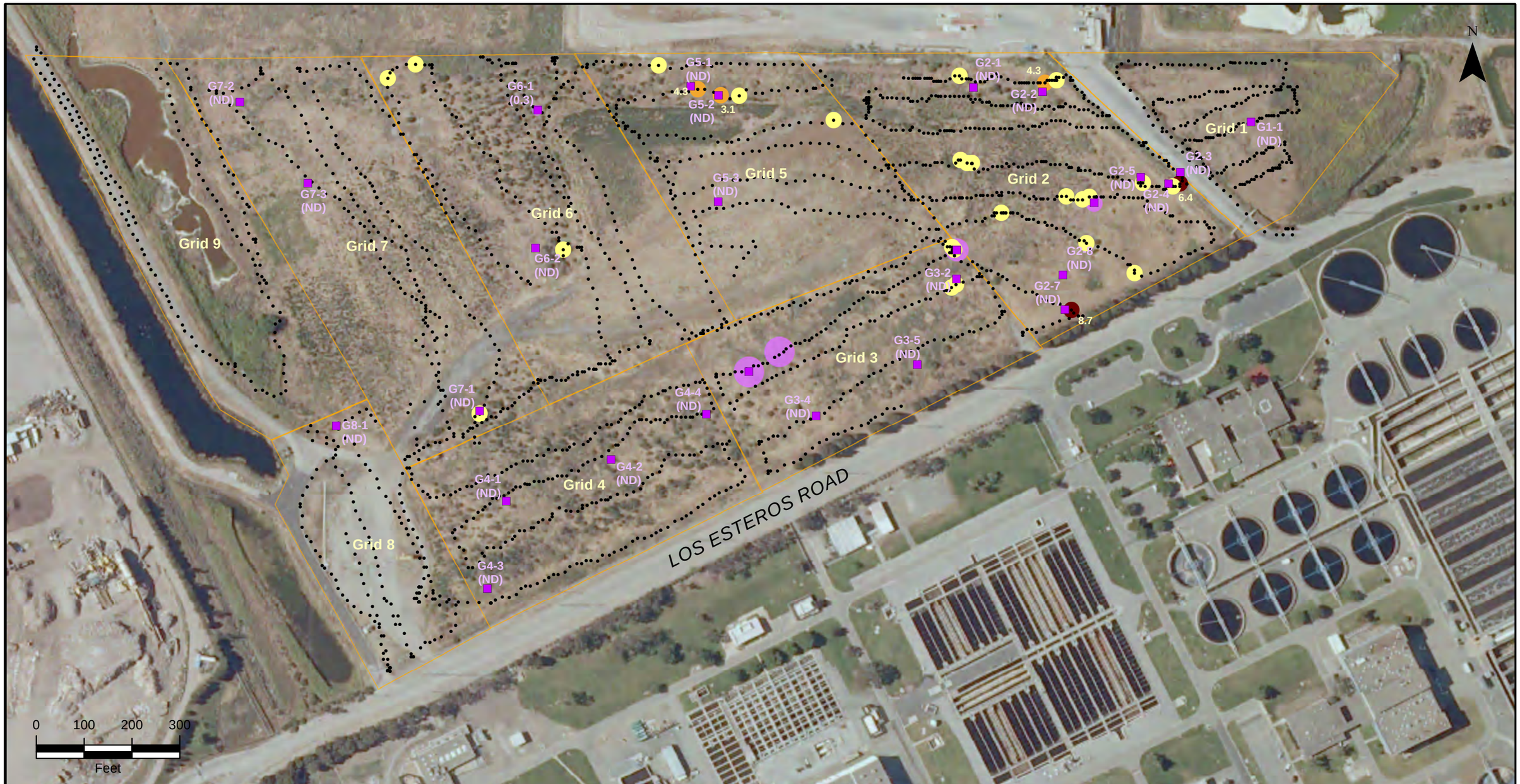

LEGEND

- FID reading location
- FID surface sweep grid

FID reading (ppm) (2/23/2011, 3/17/2011):

1 - 3
4 - 6
7 - 9

- Bar probe

Bar probe methane (%); 3/4/2011, 3/18/2011:

0.1 - 0.3
0.4 - 8.0
8.1 - 17.7
17.8 - 62.3

REFERENCES

Spatial Reference:
NAD 1983 StatePlane California III FIPS 0403 Feet
Background image: Data Type: ArcGIS Image Service
Service Name: NAIP/California_2010_1m_NC
Server: http://gis.apfo.usda.gov/arcgis/services

NOTE: locations where FID values are greater than/equal to 3 are labeled.

PROJECT ZERO WASTE ENERGY DEVELOPMENT COMPANY
NINE PAR LANDFILL
PRELIMINARY SITE INVESTIGATION
SAN JOSE, CALIFORNIA

TITLE

SURFACE EMISSIONS AND BAR PROBE RESULTS

Golder Associates

PROJECT No.		10397163-11	FILE No.	
DESIGN	DLM	2/8/2010	SCALE: AS SHOWN	REV. 0
GIS	DLM	2/8/2010		
CHECK	TV	4/20/2011	**FIGURE 9**	
REVIEW	TV	4/20/2011		

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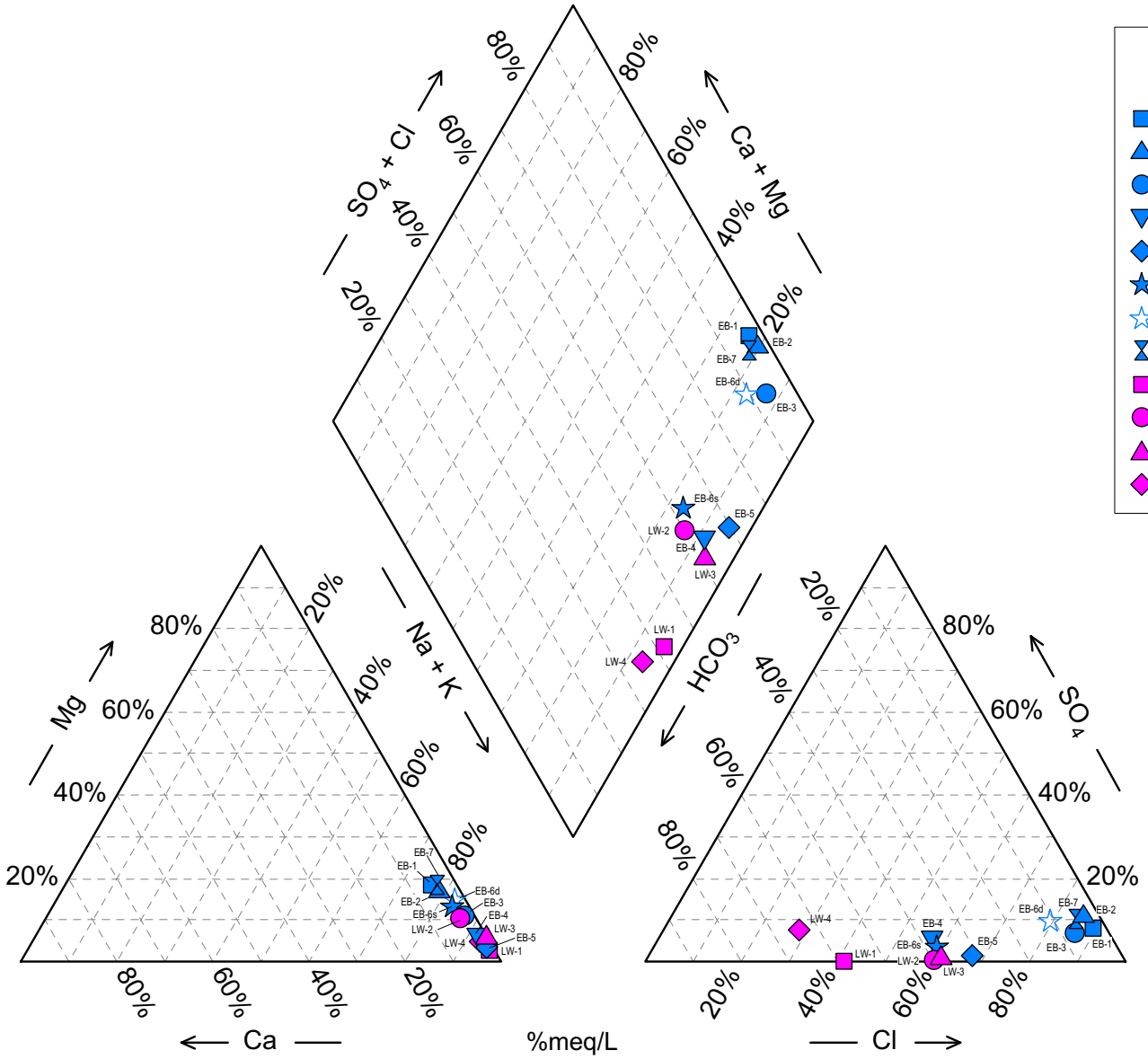


Golder Associates

ZERO WASTE ENERGY DEVELOPMENT COMPANY
NINE PAR LANDFILL - PRELIMINARY SITE INVESTIGATION
SAN JOSE, CALIFORNIA

GROUNDWATER AND LEACHATE PIPER DIAGRAM - MARCH/APRIL 2011

FIGURE
10

PROJECT NO.
103-97163-11

G:\103-97163-11\FIGURES\PIPER DIAGRAMS.DSF 4/29/11

APPENDIX A

HISTORICAL DOCUMENT LIST AND AERIAL PHOTOGRAPHS

NINE PAR HISTORICAL DOCUMENTS

FILE NAME	TITLE	DATE	DESCRIPTION
Aerial Overflight Photo 1.jpg	2/25/1954 aerial Photo AV 129-06-04	2/25/1954	Historic Air Photo
Aerial Overflight Photo 2.jpg	4/28/1974 aerial Photo AV 1138-10-05	4/28/1974	Historic Air Photo
Tentative WDR_NinePar LF_ Mar-6-1975.pdf	Tentative Order Waste Discharge Requirements Nine Par Company Solid Waste Disposal Facilities, Los Altos, Santa Clara County	3/6/1975	Tentative Order Waste Discharge Requirements Nine Par Company Solid Waste Disposal Facilities, Los Altos, Santa Clara County, dated 3/4/1975.
1975_SF-RWQCB-Letter- to NPL_43-AN-0005.pdf	City of San Jose Letter to California Regional Water Quality Control Board	4/1/1975	Letter from City of San Jose (A.R. Turturice, Director of Public Works) to RWQCB (attn: Fred H. Dierker); City's review of the waste discharge requirements and clarification of RWQCB authority to establish what may be dumped, but City of San Jose authority to determine if anything can be dumped. Nine-Par operating illegally.
NinePar_WDR-Ltr_4-1-1975.pdf	City of San Jose Letter to California Regional Water Quality Control Board	4/1/1975	Letter from the City of San Jose to the California RWQCB (Mr. Fred Dierker, Executive Officer); same as 1975_SF-RWQCB-Letter- to NPL_43-AN-0005.pdf.
1975_WDR's _NPL_43-AN-0005.pdf	Order No. 75-18; WDR for Nine-Par Company Solid Waste Disposal Facilities, Los Altos, Santa Clara County	4/25/1975	SF Bay Region RWQCB certified copy of Nine-Par WDR No. 75-18
NinePar-Zanker_PDC-76-7-93.pdf	County of Santa Clara County Letter	7/6/1977	Letter from County of Santa Clara Environmental Health Services (Mr. James St. Germain) to Mr. Ted Tedesco, City Manager, City of San Jose, indicating Nine-Par Landfill is under review by the San Jose Planning Department. States Nine-Par is not a threat to public health at that time.
NinePar_9-12-77_WDR-&-RDSI_map-attach-A.pdf	Nine Par Company Letter to City of San Jose; Subject: Solid Waste Facility Permit Application, Nine-Par Company	8/12/1977	Letter from Nine-Par Company to Mr. John Lucchesi, City of San Jose, transmitting executed Solid Waste Facility Application Form E-1-77 (new 6-77) and the report of disposal site information.
1977-SWFP _ NPL_ 43-AN-0005.pdf	Solid Waste Facility Permit Application Nine-Par Company	8/12/1977	Letter from Nine-Par Company to City of San Jose with executed Solid Waste Facility Permit Application Form E-1-77 (New 6-77) and report of disposal site information; 23 pages
1977 Solid Waste Facility Permit Application (2).pdf		8/12/1977	Same as 1977-SWFP _ NPL_ 43-AN-0005.pdf
NinePar-Memo_1-26-1978_Wrecking-Yard.pdf	City of San Jose-Memorandum; Subject: Illegal Auto Wrecking Operation - Nine-Par Dump Site	1/26/1978	Letter from City of San Jose Mr. F.M. Belick (Engineer-Manager, WPC) to Mr. John Hamilton (Director of Planning) indicating that an illegal and hazardous auto wrecking operation exists at the Nine-Par Dump Site. Asks for review of the situation.
NinePar_Ltr_1977.pdf	City of San Jose-Memorandum; Subject: Par 9 Dump Site	3/8/1978	City of San Jose Memorandum from Mr. Ted Tedesco (City Manager) to the Mayor and City Council. States US Fish and Wildlife Service is not interested in acquiring Nine Par for inclusion to the San Francisco Bay Wildlife Refuge.
NinePar_Self-Monitoring_Res-73-16.pdf	California Regional Water Quality Control Board Letter	9/29/1980	Letter from RWQCB to "Gentlemen" (?) transmitting Revised Tentative Monitoring Program Order 75-18, Part A undated, Part B ordered 10/17/75, revised 10/18/76, tentative revision September 1980.

NINE PAR HISTORICAL DOCUMENTS

FILE NAME	TITLE	DATE	DESCRIPTION
NPL-CIWMB-LET_1981.pdf	State Solid Waste Management Board Letter to Nine-Par; Subject: illegal dumping at Nine-Par	7/13/1981	Letter from State Solid Waste Management Board (Mr. John Bell, Manager Office of Enforcement) to Mr. Frank Pregliasco, Nine-Par Company re: Open Dump Inventory Listing of Nine Par Solid Waste Disposal Site. Nine-Par found to be in non-compliance with RCRA.
Chronological History by D-Barlow.pdf	City of San Jose-Memorandum; Subject: Nine Par Disposal Site	11/22/1981	City of San Jose-Memorandum from Douglas G. Barlow (Chief Code Compliance Division) to William Phillips (Director Private Development Department) with Nine-Par background, chronology, technical feasibility, land use/permit considerations, impact on San Jose's long-range solid waste strategy, and recommendations.
NinePar_6-27-83_CSJ-Memo-EIR-Review.pdf	City of San Jose-Memorandum; Subject: 9 Par Landfill-EIR Review	6/27/1983	City of San Jose Memorandum from Mr. William Phillips (Director of Private Development) to Mr. Gary Schoennauer (Director or Planning); review of the Administrative Draft for proposed reopening and expansion of the Nine Par Landfill.
NinePar_EIR-Review_7-6-83_CSJ-Yesney.pdf	City of San Jose Letter; Subject: Nine-Par EIR	7/6/1983	Letter from City of San Jose Senior Planner (Ms. Michelle Yesney) to Harvey & Stanley Associates Inc. (Mr. John Gilchrist) with comments by the Private Development Department on the Administrative Draft EIR for Nine-Par site needing revision.
NinePar_EIR-Review_CSJ-Memo_8-31-93.pdf	City of San Jose-Memorandum; Subject: 9 Par Landfill Draft EIR Review	8/31/1983	City of San Jose Memorandum from Mr. William Phillips (Director of Private Development) to Mr. Gary Schoennauer (Director or Planning); review of the draft EIR for proposed reopening and expansion of the Nine Par Landfill.
PD84.pdf and PD84-3-40.pdf	City of San Jose Planning Department Letter	6/15/1984	Letter from City of San Jose Senior Planner Patricia Colombe to Nine-Par Company transmitting complete packet of material regarding PD Permit
Zanker-LF_PD-84-3-40.pdf	Notice of Granting of a Planned Development (PD) Permit Pursuant to the Provisions of Part 5 of Chapter ? of Article XIX of the San Jose Municipal Code	7/24/1984	PD permit 84-3-40 granted to Nine-Par Company by Director of Planning of City of San Jose. Executed July 20, 1984.
EPA FILE _NP_43-AN-0005.pdf	Transmittal of EPA data on Nine-Par	11/15/1984	From Fran Schultz (USEPA Reg. 9) to Doug Barlow (Chief Code Compliance Division); EPA data on Nine-Par Dump
USEPA-9_Memo&Record__1980-1984.pdf	Transmittal of EPA data on Nine-Par	11/15/1984	Same as EPA FILE _NP_43-AN-0005.pdf
Nine-Par Landfill _ FEIR - 1987.pdf	Environmental Impact Report - Final, Nine-Par Sanitary Landfill, City of San Jose	9/21/1986	Addendum to a Final Environmental Impact Report, Nine-Par Sanitary Landfill, PD-87-01-07 (PDC 82-12-91); 325 pages.
EMCON 1992 Cross Section C-C'.pdf	Section C-C'	1992	EMCON Geologic Cross Section C-C'; Zanker Road Landfill
0005-NPL_M&E-Ltr_11-8-93.pdf	Letter from Metcalf &Eddy to City of San Jose re: San Jose Effluent Facilities Project	11/8/1993	Metcalf & Eddy letter to Mr. Phagan (City of San Jose) notification of plans to begin subsurface exploration.
11-9-93_EARTHSYSTEMS LTR.pdf	San Jose/Santa Clara Valley Water District Nonpotable Reclamation and Reuse Project, San Jose/Santa Clara Water Pollution Control Plant, San Jose, CA re: Subsurface Exploration Procedures	11/9/1993	Letter from Earth Systems Consultants Northern California (Daniel Peluso) to Metcalf & Eddy (attn: Ms. Liz Hirschhorn) providing plan for performing subsurface exploration at subject site.
0005-NPL_M&E-Memo_12-7-93.pdf	M&E Inter-Office Memorandum	11/16/1993	Interoffice memorandum from Metcalf & Eddy received 12/7/1995 re: meeting held 11/15/1993 to discuss proposed subsurface investigation for the north side of Los Esteros Road.

NINE PAR HISTORICAL DOCUMENTS

FILE NAME	TITLE	DATE	DESCRIPTION
1992 Study pt 2.pdf	Figure 2 - Site Plan; San Jose Effluent Diversion Facilities Project, San Jose/Santa Clara Water Pollution Control Plant, San Jose, CA	1/12/1995	Earth Systems Consultants of Northern California (ESCNC). Figure showing exploratory boring locations and ECS boring logs.
ZANKER SITE HISTORY _ Emile Casella.pdf	Zanker Landfill Site History Summary	5/30/1995	Zanker Landfill site history presented in a May 30, 1995 meeting with Catherine Manoogian, Bob Fujii, Diane Nordstrom, Scott Beall, Richard Archdeacon, and Dennis Ferrier. Based on Grace Environmental's Catherine Manoogian's earlier conversation with Emil Casella.
1992 Study pt 1.pdf	South Bay Water Recycling Effluent Diversion Facilities, Volume II Specifications	10/26/1995	Earth Systems Consultants Northern California (ESCNC) Geotechnical Engineering Study submitted to Metcalf & Eddy (attn: Mr. Howard Hoffman/Ms. Elizabeth Hirschhorn); 142 pages.
1993 Borings for ZWE.pdf	South Bay Water Recycling Effluent Diversion Facilities, Volume II Specifications	10/26/1995	Logs of ESCNC 1993 test borings and laboratory test results.
SCS_Phase_I_Final_Report_NinePar_Mar2007.pdf	Preliminary Feasibility Report: Land Use Study for City of San Jose, Nine Par Landfill Site, 2100 Los Esteros Road, San Jose, CA	3/14/2007	SCS Engineers report submitted to City of San Jose Environmental Services Department; 198 pages. (Aerial photos going back to 1939.)
SCS_Phase_II_Final_Report_NinePar_Sept07.pdf	Field Investigation and Site Development Feasibility Summary Report, City of San Jose, Nine Par Landfill Site, 2100 Los Esteros Road, San Jose, CA	9/17/2007	SCS Engineers report submitted to City of San Jose Environmental Services Department; 103 pages.
2010-01-19_ZWE GEX Workplan .pdf	ENGEO Geotechnical Work Plan, Zero Waste Energy Anaerobic Digestion Facility (Phase I-III), Nine Par Landfill, San Jose, CA	1/1/2010	ENGEO Geotechnical Work Plan, Zero Waste Energy Anaerobic Digestion Facility (Phase I-III), Nine Par Landfill, San Jose, CA; 5 pages
2010-02-08 Nine Par Site Investigation Work Plan1.pdf	Field Work Plan, Nine Par Landfill - Preliminary Site Investigation, Zero Waste Energy Development Company, San Jose, CA	2/8/2010	Worley Parsons field work plan for Nine Par preliminary site investigation; 21 pages
EnGeo Geotech Report March 2010.pdf	Geotechnical Report, Zero Waste Energy Anaerobic Digestion Facility, San Jose, CA.	2/19/2010	Geotechnical report submitted by ENGEO Inc. to Emily Hanson of Zero Waste Energy Development Company; 152 pages.
id=090176.pdf	Search Superfund Site Information: Nine Par Dump	4/29/2010	Search Superfund Site Information: Nine Par Dump. Not on the NPL .
Zero Waste HazMat comments.pdf	Analysis of Hazardous Materials and Petroleum Contaminated Soils, Nine Par Landfill - Preliminary Site Investigation	5/24/2010	Zero Waste Energy comments to Worley Parsons Report Analysis of Hazardous Materials and Petroleum Contaminated Soils (May 24, 2010) and Worley Parsons Gas Migration Assessment (May 24, 2010).

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 75-18

WASTE DISCHARGE REQUIREMENTS FOR:

Nine-Par Company - Solid
Waste Disposal Facilities
Los Altos, Santa Clara County

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter called the Board) finds that:

1. Nine-Par Company, Los Altos, hereinafter called the discharger, submitted a report of waste discharge dated April 2, 1974, including "A Preliminary Engineering Study of Solid Waste Disposal Facilities Prepared for the Nine - Par Company" by Barrett & Associates.

2. The discharger, proposes to operate, improve and maintain the existing sanitary landfill for the disposal of Group 2 and 3 Wastes on property owned by the discharger. The site is located near Zanker Road, opposite the City of San Jose/Santa Clara Water Pollution Control Plant as shown in Attachment "A" which is incorporated herein and made part of this Order.

3. The site covers approximately 70 acres and was originally marshland. Waste disposal operations were started at the southwest corner of the site and have progressed along the southerly boundary and thence in a generally northerly direction. At present about 40 acres of the site have been filled (i.e., Area I) and the remaining 30 Acres (Area II) are unfilled marshland. The site is situated at the north edge of the alluvial San Jose Plain between the Guadalupe River and Coyote Creek. The site is underlaid by more than 1000 feet of alluvial sediments composed of an alternating sequence of clays, silts, sandy clays, sand and gravel.

4. The discharger is currently preparing a detailed final engineering report including site preparation, operation and maintenance procedures, which would be submitted to this Board by April 1975, for classification of the existing disposal site as class II-2 suitable to receive Group 2 and Group 3 wastes.

5. The Board, on July, 1971 adopted an Interim Water Quality Control Plan for the San Francisco Bay Basin.

6. The beneficial uses of ground waters which could be affected by this landfill are:

   a. Recreation
   b. Industrial, agricultural & municipal water supply

7. This disposal site, subsequent to modifications required to comply with this Order, will meet the criteria contained in the California Administrative Code, Title 23, Chapter 3, Subchapter 15, for classification as a Class II-2 Disposal Site suitable to receive Group 2 and Group 3 wastes.

8. The Board adopted an Interim Water Quality Control Plan for the San Francisco Bay Basin on June 14, 1971, and this order implements the water quality objectives stated in that plan.

9. The beneficial uses of groundwaters near the site, the Guadalupe River, Coyote Creek, and San Francisco Bay are:

   Domestic and industrial water supply habitat and resting for waterfowl and migratory birds

   Fish Habitat

   Recreation, including swimming

   Navigation

   Esthetic enjoyment

10. Land within 1000 feet of the site is used for industrial facilities and is traversed by a highway.

11 The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for this site.

12. The Board in a public meeting heard and considered all comments pertaining to the site.

IT IS HEREBY ORDERED, that Nine-Par Company, Los Altos, Santa Clara County, and any other person(s) that operates this site, in order to meet the provisions of items 8 and 11 above, shall comply with the following:

A. Waste Disposal Specifications

1. The treatment or disposal of waste shall not cause pollution or a nuisance.

2. Waste materials shall be confined to area I as shown in Attachment A at all times, and shall not be disposed of in any location where they can be carried from the disposal site and discharged into waters of the State.

3. Group 2 wastes shall not be placed in or allowed to contact ponded water from any source whatsoever.

4. Group 1 wastes shall not be stored or deposited at this site.

5. Liquid wastes or high moisture content waste shall not be discharged with Group 2 waste, except with the written approval of the Executive Officer.

6. The discharger shall remove and relocate any wastes which are discharged at this site in violation of these requirements.

B. Leachate and Drainage Specifications

1. Leachate from Group 2 waste or ponded water containing leachate shall not be discharged to waters of the State. Water used during disposal site operations shall be limited to a minimal amount reasonably neccessary for dust control purposes.

2. The disposal area(s) shall be protected from any washout or erosion of wastes or covering material, and from inundation, which could occur as a result of floods having a predicted frequency of once in 100 years.

3. Surface drainage from tributary areas, and internal site drainage from surface or subsurface sources shall not contact or percolate through Group 2 wastes deposited on the site.

4. Leachate volumes contained by liquid control barriers or ponds shall be maintained below a volume equal to 75 percent of the total liquid storage capacity of the barrier.

5. Vertical and lateral hydraulic continuity with usable groundwaters shall be prevented by the presence of a natural clay barrier of at least 5 feet in thickness and a permeability of 10^{-6} cm/sec or less on the bottom and sides of disposal areas. If such a natural condition does not exist, and artificial barrier shall be constructed to meet the above specifications.

6. All abandoned wells located within the disposal area shall be sealed to th satisfaction of the California Department of Water Resources and the County Department of Public Health prior to discharging Group 2 wastes within 100 feet of any such wells.

7. The exterior surfaces of the disposal area shall be graded to promote lateral runoff of precipitation and to prevent ponding.

8. The discharge of waste shall not cause the following conditions to exist in waters of the State at any place.

   a. Floating, suspended, or deposited macroscopic particulate matter or foam;

   b. Bottom deposits or aquatic growths;

   c. Alteration of temperature, turbidity, or apparent color beyond present natural background levels;

   d. Visible, floating, suspended or deposited oil or other products of petroleum origin;

e. Toxic or other deleterious substances to be present in concentrations or quantities which will cause deleterious effects on aquatic biota, wildlife or waterfowl, or which render any of these unfit for human consumption either at levels created in the receiving waters or as a result of biological concentration.

C. Provisions

1. "Disposal area" as used herein means that portion of the disposal site which has received or is receiving wastes. Disposal areas are indicated on Attachment "A".

2. The discharger shall comply with all sections of this Order except B. 2. and B. 5. immediately upon its adoption.

3. The discharger shall submit a report no later than July 15, 1975, describing the status of compliance with sections B. 2. and B. 5. of this Order. If compliance is not currently being achieved, plans shall be submitted for achieving compliance. In any case, Sections B. 2. and B. 5. shall be complied with no later than November 1, 1976. All reports and plans described above shall be prepared by a certified engineering geologist or a registered engineer.

4. Disposal of Group 2 or 3 wastes on Area II shall not commence until after the Executive Officer agrees in writing that the measures necessary to meet waste discharge requirements have been taken and a self-monitoring program has been agreed to. Not less than 60 days prior to commencing initial disposal operations the discharger shall submit to this Board's Executive Officer for approval, plans and specifications describing the site preparation, construction and filling procedures and sequence. Sufficient exploratory evidence, from borings or approved geophysical techniques, shall be submitted concurrently to demonstrate compliance with all sections of this Order.

5. No later than July 1, 1975, the discharger shall submit to the Regional Board a detailed plan for site operation, to include the following:

   a) Locations of current active disposal areas,

   b) Locations of future disposal areas and schedule of expected utilization,

   c) A site operation manual, to include site management, construction and maintenance of haul roads, methods for deposition, compaction, and covering of wastes, site maintenance, and other operation procedures.

6. The discharger shall maintain a copy of this order at the site so as to be available at all times to site operating personnel.

7. The discharger shall file with this Board a report of any material change or proposed change in the character, location or quantity of this waste discharge. For the purpose of these requirements, this includes any proposed change in the boundaries, contours or ownership of the disposal area(s).

8. Ninety (90) days prior to discontinuing use of any major phase or unit of this site for waste disposal, the discharger shall submit a technical report to the Board describing the methods and controls used to assure protection of the quality of surface and groundwaters of the area during final operations and during any subsequent use of the land. This report shall be prepared by or under the supervision of a registered engineer or a certified engineering geologist. The method used to close the site and maintain protection of the quality of the surface and groundwaters shall comply with waste discharge requirements established by the Regional Board.

9. This Board considers the property owner to have a continuing responsibility for correcting any problems which may arise in the future as a result of this waste discharge or water applied to this property during subsequent use of the land for other purposes.

10. The discharger shall file with the Board technical reports on self-monitoring work performed according to the detailed specifications contained in any Monitoring and Reporting Program which may be directed by the Executive Officer.

11. The discharger shall permit the Regional Board:

    (a) Entry upon premises on which waste are located or in which any required records are kept,

    (b) Access to copy any records required to be kept under terms and conditions of this Order,

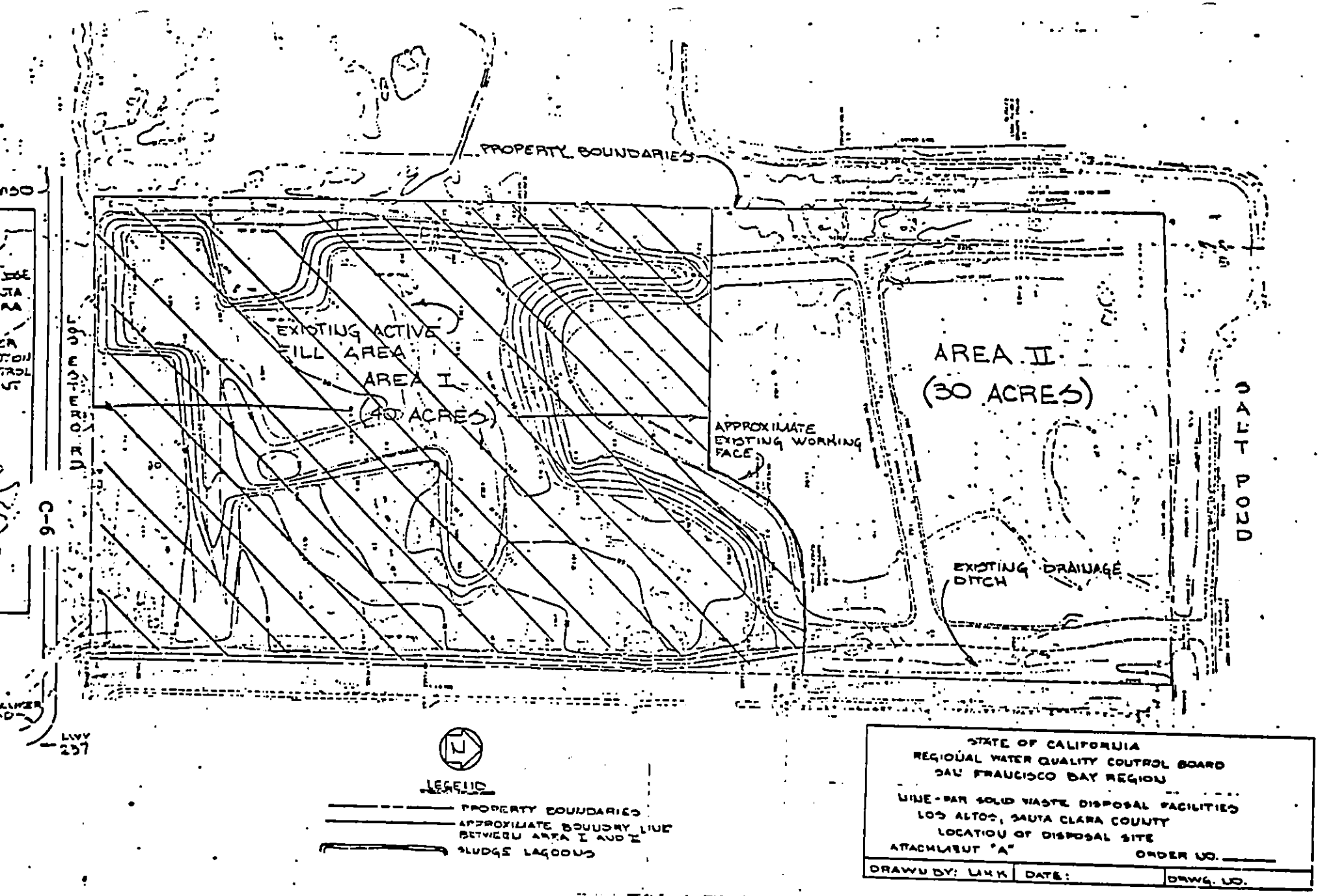
    (c) Inspection of monitoring equipment or records, and

    (d) Sampling of any discharge.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full true, and correct copy of an order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region on April 15, 1975.

FRED H. DIERKER
Executive Officer

Enclosure:
Attachment A


PROPERTY BOUNDARIES
EXISTING ACTIVE FILL AREA
AREA I
(40 ACRES)
APPROXIMATE EXISTING WORKING FACE
AREA II
(30 ACRES)
SALT POND
EXISTING DRAINAGE DITCH
C-6
LEGEND
PROPERTY BOUNDARIES
APPROXIMATE BOUNDARY LINE BETWEEN AREA I AND II
SLUDGE LAGOONS
STATE OF CALIFORNIA
REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION
LINE-PAR SOLID WASTE DISPOSAL FACILITIES
LOS ALTOS, SANTA CLARA COUNTY
LOCATION OF DISPOSAL SITE
ATTACHMENT "A"
ORDER NO.
DRAWN BY: LHK
DATE:
DRWG. NO.

INQUIRY #: 1842328.5
YEAR: 1939
= 555'
N
EDR Environmental Data Resources Inc

INQUIRY #: 1842328.5
YEAR: 1956
= 555'
N
EDR Environmental Data Resources Inc

INQUIRY #: 1842328.5
YEAR: 1965
= 333'
N
EDR Environmental Data Resources Inc

INQUIRY #: 1842328.5
YEAR: 1974
= 601'
N
EDR Environmental Data Resources Inc

INQUIRY #: 1842328.5
YEAR: 1982
= 690'
N
EDR Environmental Data Resources Inc

INQUIRY #: 1842328.5
YEAR: 1993
= 666'
N

INQUIRY #: 1842328.5
YEAR: 1999
= 666'
N
EDR Environmental Data Resources Inc

APPENDIX B

PREVIOUS EXPLORATORY BORING LOGS

950096612

the Dodge plan room • an ideal place to take-off quantities

Your Help Please...
Your help is needed in preserving the condition and tearing of these plans and specifications. They have been lent to us and are not our property.
Proper care will help insure continued cooperation of the architect or engineer who placed these plans with us for your benefit.
Thank you
Your Dodge Plan Room

DR #: 490
BD: 10/26 3:00 PM
ADDENDA

CONTRACT DOCUMENTS FOR THE CITY OF SAN JOSE, CALIFORNIA

SOUTH BAY WATER RECYCLING EFFLUENT DIVERSION FACILITIES

U.S. Dept. of Interior Bureau of Reclamation Grant No. 5-FG-20-12650
State Revolving Fund Project No. C-60-4220-110
SBWRP - Phase I Project No. 03

Property of CIP Engineering

Volume II
SPECIFICATIONS

Bid Date: October 26, 1995

INCLUDED HEREIN:
Geotechnical Report
City Standard Details

For use in connection with:

CITY OF SAN JOSE
Standard Specifications and Standard Details 1992

State of California, Department of Transportation General Prevailing Wage Rates

M&E
Metcalf & Eddy
Palo Alto, CA

APPENDIX A

Logs of ESCNC 1993 Test Borings and

Laboratory Test Results

DATE DRILLED: 30 November 1993
TYPE OF RIG: CME 75
BORING DIAMETER: 6 inch solid flight
LOGGED BY: D. Peluso

DRIVE WEIGHT: 140 lbs.
DROP: 30 inches
DEPTH TO GROUNDWATER: 7.2 feet

Log of Exploratory Boring No. 1

Depth (ft)	Sample No.	Sample Type: Drive	Sample Type: Bulk	Graphic Log	Blows Per Foot	Description	U.S.C.S. Soil Group	In-Place Moisture (% dry weight)	In-Place Dry Density (pcf)
0						Asphalt ~4 in., Aggregate Baserock ~6-8 in.			
2	1-1				30	Sandy CLAY (CH), moist, dark grey with olive brown and very dark gray mottling, sand fraction fine grained, occasional gravel to 1", occasional trash ie. plastic bags, occasional pockets of black fat clay (CH), high plasticity, organic odor, very stiff PP = 3.5	CH	16.6	116.4
4									
						[FILL]			
6	1-2				24	Sandy CLAY w/ Gravel (CL), moist, dark grey with olive brown and very dark gray mottling, sand fraction fine grained, organic odor, high plasticity, very stiff PP = 3.8	CL	16.0	107.1
						final groundwater 7.2 feet			
8						contact approximate			
						Sandy CLAY (CH), moist, dark grey, sand fraction fine grained, abundant trash including cardboard pieces, tin can lid, strip of rubber, toy dart w/ rubber tip, metal wire, string, many apricot pits, abundant voids, organic odor, soft PP < 0.5	CH		
						initial groundwater 8.0 feet			
10	NR				3			NR	NR
12						[FILL]			
	NR				6	organic odor (leachate ?), abundant voids		NR	NR
14									
16	NR				5	broken glass, bottle caps, crushed tin cans, brass tubing, insulated copper wire, paper clips, sponge rubber, pieces of milled wood, etc., abundant voids		NR	NR
18						[FILL]			
20						contact approximate			
	1-3				6	Sandy SILT (ML), wet, olive brown, sand fraction fine grained, medium stiff		21.9	106.6
22						[NATIVE SOIL]			
24									
26	1-4 NR				8	Sandy SILT (ML), wet, olive brown, sand fraction fine grained, medium stiff to stiff		19.1	DS

Boring 1 continued on Figure A4

PP = Pocket Penetrometer test conducted in field (units = tons/sq. ft.)

Earth Systems Consultants
Northern California

Figure No. A3

File Name: SJ Sewer Treatment Plant Nonpotable Water Reclaimation

File No.:NJS-2631-01

DATE DRILLED: 30 November 1993

TYPE OF RIG: CME-75

BORING DIAMETER: 6 in. Solid Flight

LOGGED BY: D. Peluso

BORING NO.: 1

DRIVE WEIGHT: 140 lbs

DROP: 30 inches

DEPTH TO GROUNDWATER: 7.2 feet

Log of Boring 1 (page 2 of 2)

Depth (ft)	Sample No.	Sample Type: Drive	Sample Type: Bulk	Graphic Log	Blows Per Foot	Description	U.S.C.S Soil Group	In-Place Moisture (% dry weight)	In-Place Dry Density (pcf)
26						Continuation of Boring 1 from Figure A3			
						Sandy SILT (ML) — contact approximate	ML		
28						Silty SAND (SM), wet, olive brown, some brownish grey layered mottling, fine to medium sand, medium dense	SM		
30	1-5				21	Silty SAND (SM), wet, olive brown, primarily medium to coarse grained sand, some fine gravel, poorly graded, <20 fines, medium dense — contact approximate	SM	16.0	116.2
32						Silty CLAY (CH), moist, brown [10YR 4/3], minor sand fraction fine grained, high plasticity, stiff to very stiff	CH		
36	1-6				14	Silty CLAY (CH), moist, brown [10YR 5/3], some grey streaking, minor sand fraction fine grained, high plasticity, stiff PP = 1.7	CH	27.5	97.4
40	1-7				13	Silty CLAY (CH), moist, brown [10YR 5/3], some grey streaking, minor sand fraction fine grained, high plasticity, stiff PP = 1.2	CH	20.0	109.5
42						Boring terminated at 41.5 feet below ground surface			
44						Free groundwater was initially encountered at 8.0 feet below the ground surface. We later measured the depth to groundwater immediately after drilling to be 7.2 feet.			
46						NR = No Sample Recovery DS = Disturbed Sample			
48									
50									
52									

DATE DRILLED: 30 November 1993
TYPE OF RIG: CME 75
BORING DIAMETER: 6 inch solid flight
LOGGED BY: D. Peluso

DRIVE WEIGHT: 140 lbs.
DROP: 30 inches
DEPTH TO GROUNDWATER: 8.0 feet

Log of Exploratory Boring No. 2

Depth (ft)	Sample No.	Sample Type: Drive	Sample Type: Bulk	Graphic Log	Blows Per Foot	Description	U.S.C.S. Soil Group	In-Place Moisture (% dry weight)	In-Place Dry Density (pcf)
0						Silty CLAY (CH), moist, very dark gray [10YR 3/1], some fine sand, occasional fine gravel, high plasticity, very stiff	CH		
2	2-1				30	Sandy CLAY (CL), moist, dark yellowish brown [10YR 4/4], some grey mottling, sand fraction fine grained, high plasticity, very stiff PP = 4.5+	CL	14.0	120.4
4						[FILL]			
6	2-2				17	Sandy CLAY (CL), moist, very dark grey, sand fraction fine to medium grained, occassional fine gravel, high plasticity, very stiff PP = 2.8	CL	14.2	116.9
8						**Note: Broken concrete and other debris was encountered between 8 and 14.5 feet.** groundwater measured at 8.0 feet after drilling			
10						[FILL]			
12	2-3				17	Silty CLAY (CH), moist, very dark greyish brown [2.5Y 3/2], minor fine sand, trace coarse sand, high plasticity, very stiff PP = 2.5	CH	20.2	108.4
14						[FILL]			
						contact approximate			
16	2-4				10	Sandy CLAY (CL), moist, olive brown [2.5Y 4/4], with dark greyish brown mottling [2.5Y 4/2], sand fraction fine grained, high plasticity, stiff PP = 1.4	CL	22.5	104.9
18						[NATIVE SOIL]			
						contact approximate			
20	2-5				3	Silty SAND (SM), wet, olive brown [2.5Y 4/4], with greyish brown [2.5Y 5/2] and strong brown [7.5YR 4/6] mottling, sand fraction fine grained, poorly graded, low plasticity, very loose	SM	25.8	100.1
22						[NATIVE SOIL]			
24									
26							SM		

Boring continuation on Figure A6

PP = Pocket Penetrometer test, conducted in field (units = tons/sq. ft.)

File Name: SJ Sewer Treatment Plant Nonpotable Water Reclaimation

File No.:NJS-2631-01

DATE DRILLED: 30 November 1993

TYPE OF RIG: CME-75

BORING DIAMETER: 6 in. Solid Flight

LOGGED BY: D. Peluso

BORING NO.: 2

DRIVE WEIGHT: 140 lbs

DROP: 30 inches

DEPTH TO GROUNDWATER: 8.0 feet

Log of Boring 2 (page 2 of 2)

Depth (ft)	Sample No.	Sample Type: Drive	Sample Type: Bulk	Graphic Log	Blows Per Foot	Description	U.S.C.S. Soil Group	In-Place Moisture (% dry weight)	In-Place Dry Density (pcf)
26						Continuation of Boring 1 from Figure A5			
						Silty SAND (SM), wet, olive brown [2.5Y 4/4], greyish brown and strong brown [7.5YR 4/6] mottling, primarily fine grained sand, minor fine gravel, poorly graded, loose	SM		
28						contact approximate			
30	2-6				12	Silty CLAY (CH), moist, dark yellowish brown [10YR 4/4], some grey mottling, minor sand fraction fine grained, high plasticity, stiff PP = 1.5	CH	25.8	100.4
32									
34									
36									
38									
40	2-7				13	Silty CLAY (CH), moist, dark yellowish brown [10YR 4/4], some grey mottling, minor sand fraction fine grained, high plasticity, stiff PP = 1.5	CH	23.7	103.2
42						Boring terminated at 41.5 feet below ground surface			
						Depth to free groundwater was measured after drilling to be 8.0 feet.			
44						NR = No Sample Recovery			
						DS = Disturbed Sample			
46									
48									
50									
52									

DATE DRILLED: 23 November 1993
TYPE OF RIG: CME 75
BORING DIAMETER: 6 inch solid flight
LOGGED BY: D. Peluso

DRIVE WEIGHT: 140 lbs.
DROP: 30 inches
DEPTH TO GROUNDWATER: 8.4 feet

Log of Exploratory Boring No. 3

Depth (ft)	Sample No.	Sample Type: Drive	Sample Type: Bulk	Graphic Log	Blows Per Foot	Description	U.S.C.S. Soil Group	In-Place Moisture (% dry weight)	In-Place Dry Density (pcf)
0									
2	3-1	■			25	Sandy CLAY (CL), dark greyish brown with dark yellowish brown mottling, sand fraction fine grained, low to moderate plasticity, moist, very stiff, PP = 4.5+	CL	13.3	122.3
						[FILL]			
4						milk glass fragments, organic odor (leachate?)			
6	3-2	■			15	Silty CLAY (CL), black, some fine sand content, organics and phonograph record fragments, moderate to high plasticity, moist, stiff, PP = 2.3	CL	22.8	103.6
						— contact approximate			
8						Silty SAND SM), very dark grey, sand fraction fine to medium grained, poorly graded, 20-30% fines, wet, loose	SM	▼	
10						[NATIVE SOIL] — Groundwater measured at 8.4 feet after drilling			
	3-3	■			6			26.4	96.1
12						minor interbeds of Sandy SILT (ML), very dark grey, sand fraction fine grained, wet, loose	ML		
14									
16	3-4	■			9	Silty SAND (SM), very dark grey, sand fraction fine to medium grained, poorly graded, 20-30% fines, wet, loose to medium dense	SM	20.4	101.9
18						— contact approximate			
20	3-5	■			24	Sandy CLAY (CL), olive brown with brownish grey and strong brown mottling, moderate plasticity, moist, very stiff, PP = 2.0	CL	18.9	110.2
22						Boring terminated at 21.5 feet Groundwater measured at 8.4 feet immediately after drilling PP = Pocket Penetrometer test conducted in field (units = tons/sq. ft.)			
24									
26									

Earth Systems Consultants
Northern California

Figure No. A7

DATE DRILLED: 23 November 1993
TYPE OF RIG: CME 75
BORING DIAMETER: 6 inch solid flight
LOGGED BY: D. Peluso

DRIVE WEIGHT: 140 lbs.
DROP: 30 inches
DEPTH TO GROUNDWATER: 9.2 feet

Log of Exploratory Boring No. 4

Depth (ft)	Sample No.	Sample Type: Drive	Sample Type: Bulk	Graphic Log	Blows Per Foot	Description	U.S.C.S. Soil Group	In-Place Moisture (% dry weight)	In-Place Dry Density (pcf)
0						Sandy SILT (ML), yellowish brown, sand fraction fine grained; abundant debris including metal fragments, glass, wood splinters, and plastic fragments; slightly moist to moist, soft to medium stiff	ML		
2	4-1				6			17.2	DS
4						[FILL]			
						Sandy SILT (ML) with abundant debris, soft to medium stiff	ML	NR	NR
6	4-2				4	Silty CLAY (CL), black with olive brown mottling, leachate odor, moist, medium stiff	CL		
8						[NATIVE SOIL] — Groundwater measured at 9.2 feet after drilling		▼	
10						grades to Silty CLAY (CH), dark greenish grey [5GY 4/1], local gastropod shells (1 intact shell ~20mm long, 10mm wide, 8 spirals), moist, medium stiff, PP = <0.5	CH	44.2	88.1
12	4-3				6				
14						contact approximate — Well-Graded GRAVEL w/ Silt and Sand (GW-GM), black, sand fraction subrounded, less than 10% fines fraction, primarily fine gravel, medium dense	GW-GM		
16	4-4				23	Sandy CLAY (CL), light olive brown [2.5Y 5/3] with grey mottling, sand fraction fine grained, moderate plasticity, moist, very stiff, PP = 3.5	CL	22.6	104.7
20						same, with occasional coarse sand	CL	41.0	DS
	4-5				25				
22						Boring terminated at 21.5 feet Groundwater measured at 9.2 feet immediately after drilling PP = Pocket Penetrometer test conducted in field (units = tons/sq. ft.)			
24									
26									

Figure No. A8

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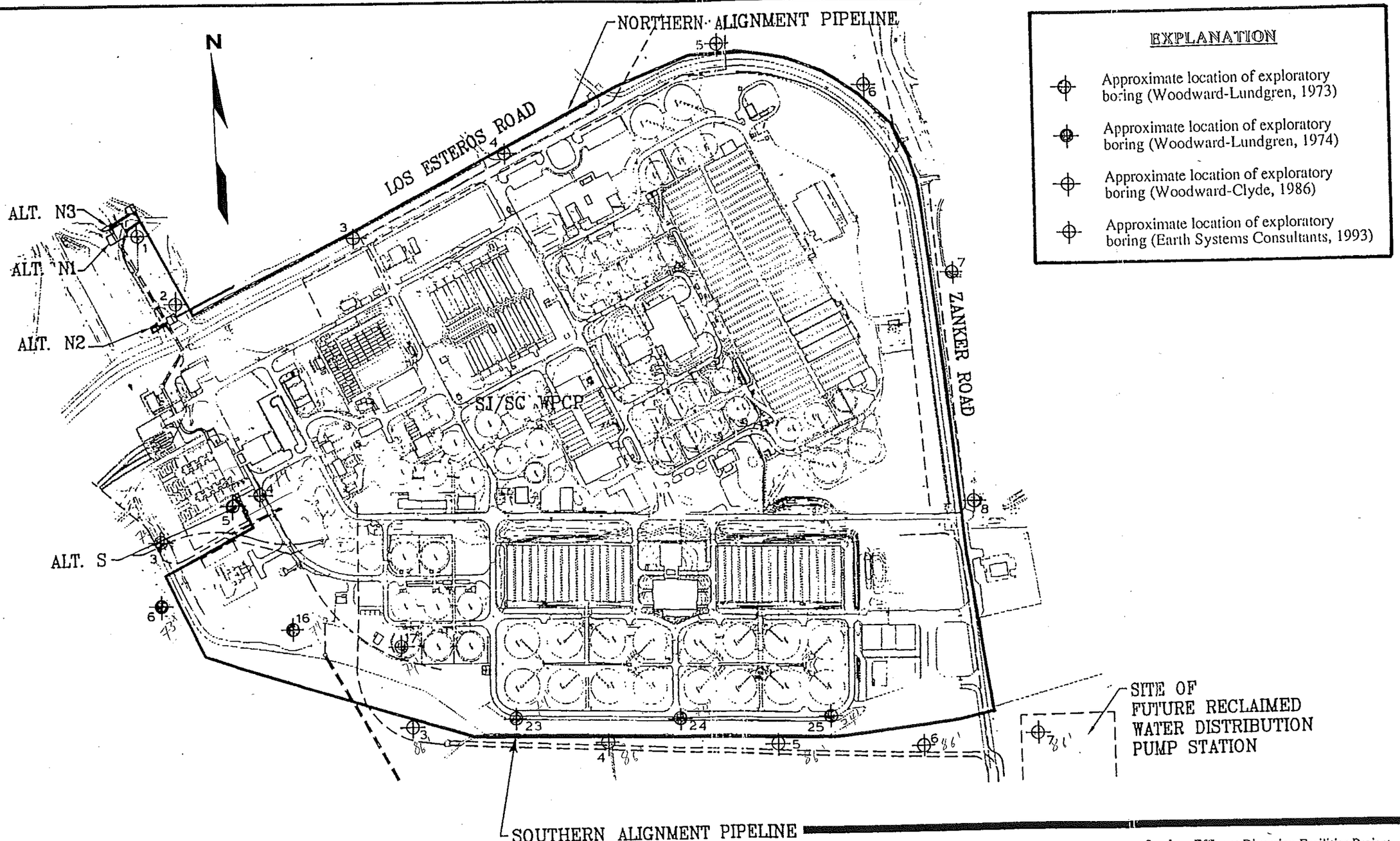
Northern California



Earth Systems Consultants
Northern California

San Jose Effluent Diversion Facilities Project
San Jose/Santa Clara Water Pollution Control Plant
San Jose, California

12 January 1995 File No. NJS-2631-01

FIG. NO: 2

SITE PLAN

APPENDIX C

EXPLORATORY BORING LOGS

SCS ENGINEERS

BORING LOG

6601 Koll Center Parkway, Suite 140
Pleasanton, California 94568

BORING NUMBER: B-1

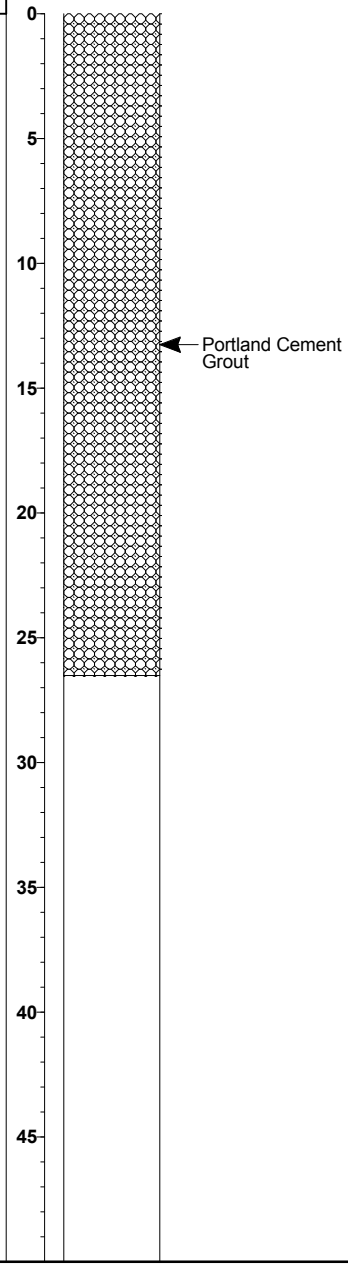
9 Par Landfill
2100 Los Esteros Road
San Jose, California

JOB NUMBER: 01206142.00

REMARKS:
LEL/H2S readings collected at ground surface using Gastech Innova ST.

Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Description
0						Fine sandy clay, few medium to coarse sand and fine gravel, very few coarse sands, brown, moist, no odor.
5	X		12 16 14		CL	Fine sandy clay, very stiff, little silt, very few medium to coarse sands, brown, slightly moist, no odor.
10	X		7 8 8			Waste interface. Soil and mixed waste including glass and metal.
15	X		12 11 7	0.0 LEL/H2S		Poor recovery, mixed waste including carpet, wood, metal, glass, and plastic, moist.
20	X		23 50+			Poor recovery, mixed waste including carpet, wood, metal, glass, and plastic, moist.
						Approximate end of waste.
25	X		10 11 13		CL	Clay,very stiff with medium plasticity, very little very fine sand, dark gray, very moist (bay mud).

Completion Detail



Drilling Company: **HEW Drilling Co. Inc.**
Drilling Method: **Hollow Stem Auger**
Logged By: **T. Sison**
Sampling Method: **Split Spoon and 140 lb Hammer**

Date Started: **6/6/07**
Date Ended: **6/6/07**
Total Depth: **26.5 Feet**
Boring Diameter: **8 inches**

SCS ENGINEERS

BORING LOG

6601 Koll Center Parkway, Suite 140
Pleasanton, California 94568

BORING NUMBER: B-2

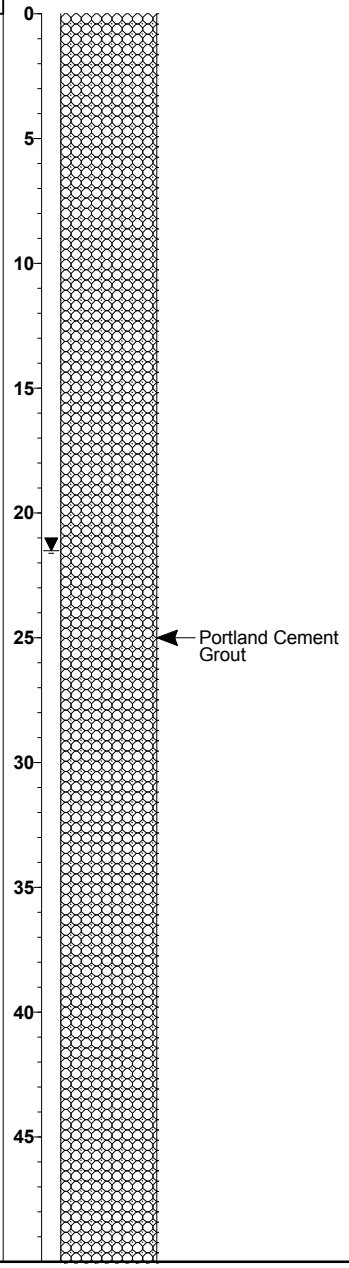
9 Par Landfill
2100 Los Esteros Road
San Jose, California

JOB NUMBER: 01206142.00

REMARKS:
LEL/H2S readings collected at ground surface using Gastech Innova ST.

Depth (meters / feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0							Very fine sandy clay, some silt, some coarse sand and fine gravel, brown, dry, no odor.
5	X		5 7 11		CL		Fine sandy clay, stiff to very stiff, some medium to coarse sand, very few fine gravels, few roots, dark gray, moist, no odor.
10	X		6 6 6	0.0 LEL/H2S			Mixed waste including wood, glass, canvas, and plastic.
15	X		14 9 8				Mixed waste including wood, glass, canvas, and plastic.
20	X		7 7 10	0.0 LEL/H2S			Mixed waste including wood, glass, canvas, and plastic, further decomposed, wet, black.
25	X		3 4 7				Observed 1968 Fiat advertisement. End of waste, saturated.
30	X ■		3 4 7				Clay, little sand, stiff, light gray with rusty streaks, saturated.
35	X		3 4 7		CL		Clay, some silt, stiff, light gray with rusty streaks, saturated.
40	X		5 11 16				Clay, some silt, stiff, light gray with rusty streaks, saturated.
45	X ■		7 7 10		SM		Sandy silt, stiff, brown, saturated, no odor.
50							

Completion Detail



Drilling Company:	**HEW Drilling Co. Inc.**	Date Started:	**6/5/07**
Drilling Method:	**Hollow Stem Auger**	Date Ended:	**6/5/07**
Logged By:	**T. Sison**	Boring Diameter:	**8 inches**
Sampling Method:	**Split Spoon and 140 lb Hammer**	Depth to Water:	**21.5 Feet**
		Total Depth:	**56.5 Feet**

SCS ENGINEERS

BORING LOG

6601 Koll Center Parkway, Suite 140
Pleasanton, California 94568

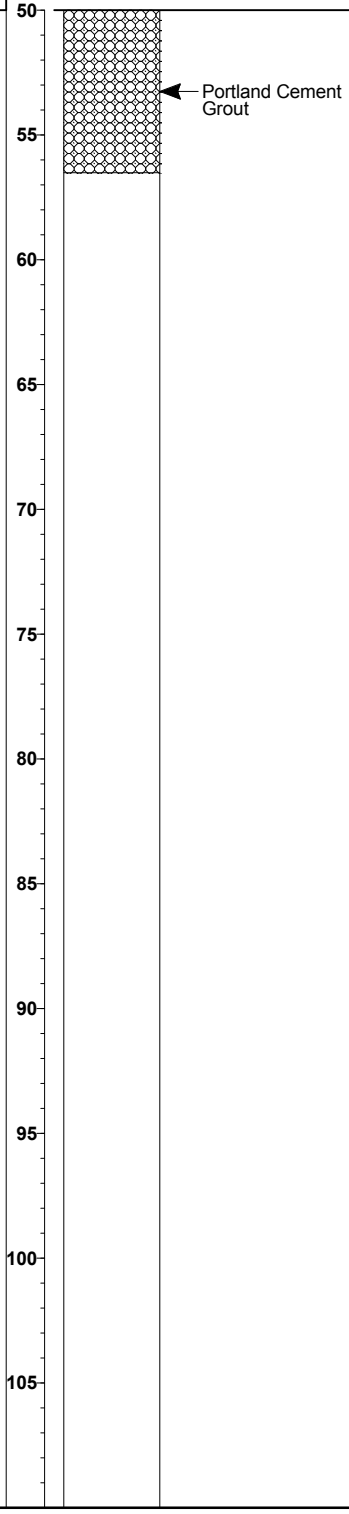
BORING NUMBER: B-2

9 Par Landfill

JOB NUMBER: 01206142.00

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
	50			5 9 15		CL		Fine sandy clay, stiff to very stiff, brown, saturated, no odor.
16								
17	55			8 13 17		SW CL		Fine to medium sand, dense, little clay, saturated, brown, no odor. Fine sandy clay, hard, brown, saturated, no odor.
18	60							
19								
20	65							
21								
22	70							
23	75							
24								
25	80							
26	85							
27								
28	90							
29	95							
30								
31	100							
32	105							
33	110							

Completion Detail



SCS ENGINEERS

BORING LOG

6601 Koll Center Parkway, Suite 140
Pleasanton, California 94568

BORING NUMBER: B-3

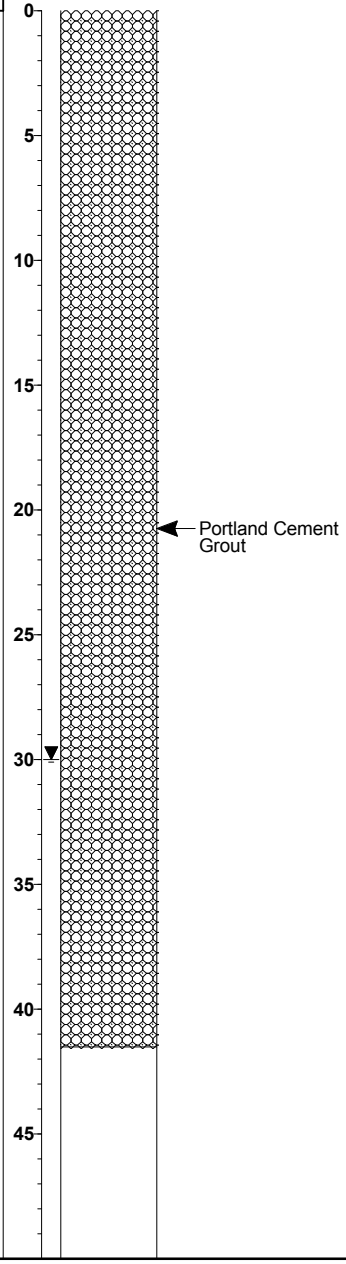
9 Par Landfill
2100 Los Esteros Road
San Jose, California

JOB NUMBER: 01206142.00

REMARKS:
LEL, H2S, and VOC readings collected at ground surface using Gastech Innova ST and MiniRae PID.

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
				30 32 35		CL		Fine sandy clay, approximately 60:40, hard, little coarse sand and fine gravel, dark gray, slightly moist, no odor.
				12 15 22				Fine sandy clay, hard, some silt, very few coarse sands, dark brown, slightly moist, no odor.
				8 9 13		CL		Clay, very stiff, little silt, very little fine to coarse sand, dark brown, slightly moist, no odor.
								Approximate interface of waste.
				9 13 13	0.0 LEL/H2S	ML/CL		Very fine sandy silt and clay, stiff, dark brown, slightly moist, no odor. Traces of waste.
				6 8 12				Poor recovery, soil mixed with waste including paper, wood, and plastic.
				36 18 12	0.0 ppm			Mixed waste including paper, wood, metal, and plastic, saturated.
				13 16 26		SW		Fine to medium sand, black, very dense, saturated.
				9 9 18		SC		Clayey fine to medium sand, approximately 70:30, very dense, light to medium brown, saturated.

Completion Detail



Drilling Company:	**HEW Drilling Co. Inc.**	Date Started:	**6/6/07**
Drilling Method:	**Hollow Stem Auger**	Date Ended:	**6/6/07**
Logged By:	**T. Sison**	Boring Diameter:	**8 inches**
Sampling Method:	**Split Spoon and 140 lb Hammer**	Depth to Water:	**30.0 Feet**
		Total Depth:	**41.5 Feet**

SCS ENGINEERS

BORING LOG

6601 Koll Center Parkway, Suite 140
Pleasanton, California 94568

BORING NUMBER: B-4

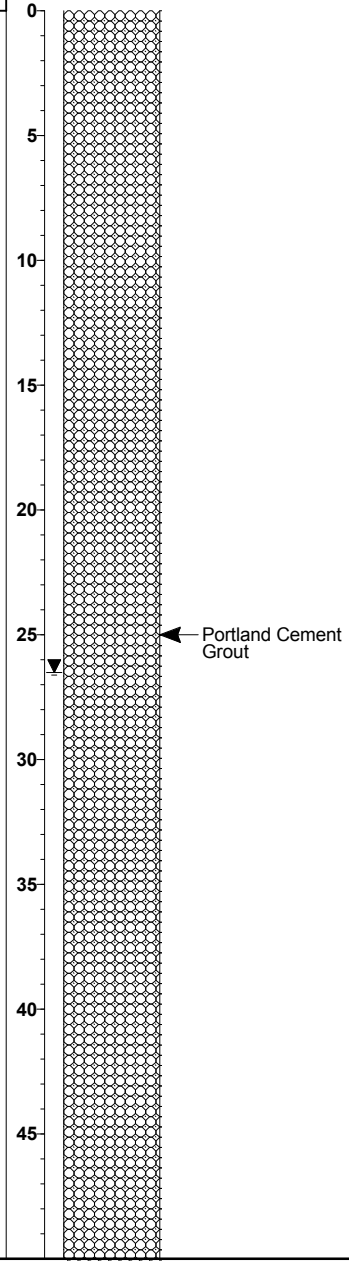
9 Par Landfill
2100 Los Esteros Road
San Jose, California

JOB NUMBER: 01206142.00

REMARKS:
LEL/H2S readings collected at ground surface using Gastech Innova ST.

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0					ML		Silt, little clay, light brown, dry, no odor.
1	5	X		15 18 25				Very fine sandy clay, hard, little coarse sand to fine gravel, very few small asphalt pieces, dark gray, dry, no odor. Bulk sample collected.
2		X		15 16 23				
3	10	X		9 11 14		CL		Fine sandy clay, very stiff, some coarse sand and fine gravel, few coarse gravels, greenish-brown, moist, no odor.
4								
5	15	X		11 14 14				Clay, brittle with no plasticity, hard, some very fine sand, some coarse sand and fine gravel, brown, moist, no odor.
6	20	X		5 7 18	0.0 LEL/H2S	SP		4 inch layer of fine sand, dark gray.
7						CL		Clay, stiff, little fine sand, light to medium plasticity, medium to dark gray, moist, no odor. Mixed waste, including plastic and glass debris, wet.
8	25	X		12 6 6				Poor recovery, sandy clay mixed with debris, including glass metal, and plastic, saturated, strong landfill odor.
9	30	X		7 14 50				Mixed waste including glass, plastic, organics, and metal, saturated, strong hydrocarbon like odor.
10								
11	35	X		17 18 20				No recovery, mixed waste including glass, plastic, organics, and metal, saturated, strong hydrocarbon like odor.
12	40	X		20 21 25				Mixed waste including glass, plastic, organics, and metal, saturated, strong hydrocarbon like odor.
13								
14	45	X		7 8 12		CL		Waste ends. Clay, very stiff, some very fine sand, very little medium to coarse sand, light to medium brown, saturated, light hydrocarbon like odor.
15	50							

Completion Detail



Drilling Company:	**HEW Drilling Co. Inc.**	Date Started:	**6/5/07**
Drilling Method:	**Hollow Stem Auger**	Date Ended:	**6/5/07**
Logged By:	**T. Sison**	Boring Diameter:	**8 inches**
Sampling Method:	**Split Spoon and 140 lb Hammer**	Depth to Water:	**26.5 Feet**
		Total Depth:	**76.5 Feet**

STANDARD_LOG 9 PAR LANDFILL.GPJ STD_LOG.GDT 8/17/07

SCS ENGINEERS

BORING LOG

6601 Koll Center Parkway, Suite 140
Pleasanton, California 94568

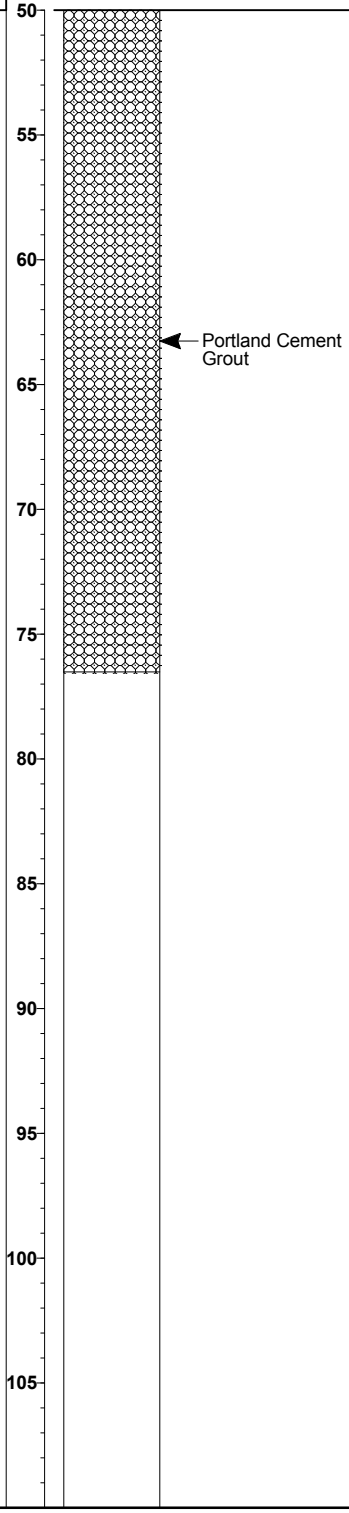
BORING NUMBER: B-4

9 Par Landfill

JOB NUMBER: 01206142.00

Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
50	X		7 11 11				Very fine sandy clay, very stiff, traces of plastic debris, rusty gray and brown, saturated.
55	X ■		5 10 14		CL		Fine to very fine sandy clay, little silt, stiff to very stiff, light to medium brown, saturated.
60	X		8 15 20				Clay, hard, some fine to very fine sand, light to medium brown, saturated.
65	X ■		6 9 9				Fine sandy clay, very stiff, light brown, saturated.
70	X ■		8 15 16		CL		Clay, little fine sand, hard, medium brown, saturated, no odor.
75	X		7 15 15				Fine sandy clay, hard, medium brown, saturated, no odor.

Completion Detail



SCS ENGINEERS

BORING LOG

6601 Koll Center Parkway, Suite 140
Pleasanton, California 94568

BORING NUMBER: B-5

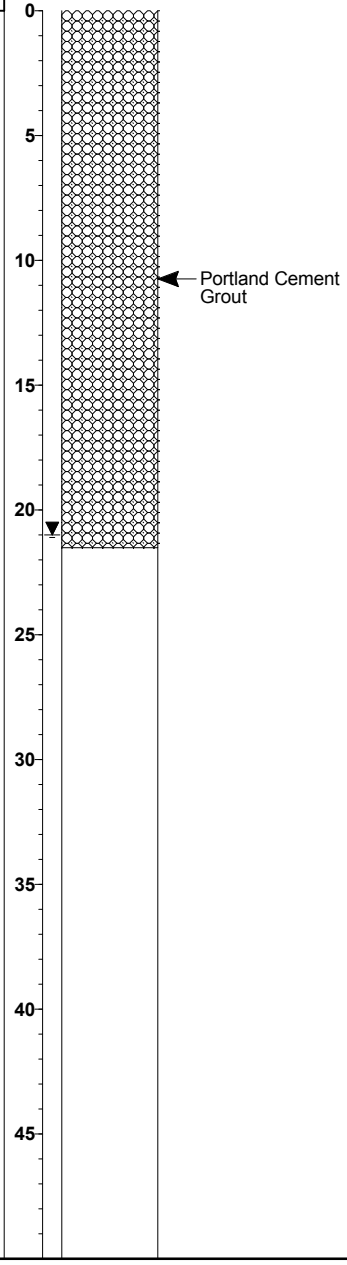
9 Par Landfill
2100 Los Esteros Road
San Jose, California

JOB NUMBER: 01206142.00

REMARKS:

Depth (meters / feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Description
0						Very fine sandy clay, much coarse sand and fine gravel, some coarse gravel, brown, dry to slightly moist, no odor.
1					CL	
5 / 2	X		12 19 23			Fine sandy clay, hard, some coarse sand, few fine gravels, dark brown, moist. Waste begins, including glass and metal.
10 / 3	X		6 9 9		CL	Clay with some fine sand and little debris, very stiff. Mixed waste including paper, plastic, and glass.
15 / 5	X		13 7 13			Mixed waste including paper, plastic, and glass.
20 / 6	X		13 18 18		SW	End of waste. Fine to medium sand, very dense, dark gray, saturated.

Completion Detail



Drilling Company:	**HEW Drilling Co. Inc.**	Date Started:	**6/6/07**
Drilling Method:	**Hollow Stem Auger**	Date Ended:	**6/6/07**
Logged By:	**T. Sison**	Boring Diameter:	**8 inches**
Sampling Method:	**Split Spoon and 140 lb Hammer**	Depth to Water:	**21.0 Feet**
		Total Depth:	**21.5 Feet**

SCS ENGINEERS

BORING LOG

6601 Koll Center Parkway, Suite 140
Pleasanton, California 94568

BORING NUMBER: B-6

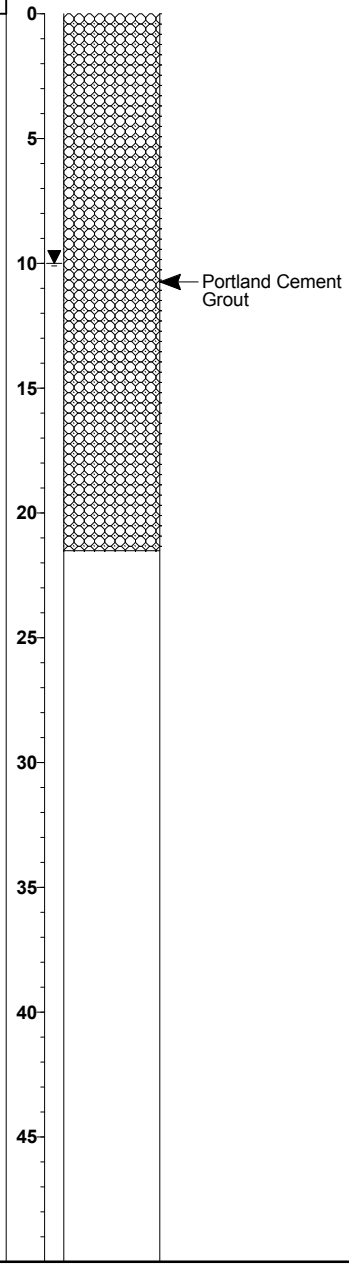
9 Par Landfill
2100 Los Esteros Road
San Jose, California

JOB NUMBER: 01206142.00

REMARKS:
LEL/H2S readings collected at ground surface using Gastech Innova ST. Head space analysis done using MiniRae PID.

Depth (meters / feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0					CL		Silty clay, very few coarse sands and fine gravels, brown, slightly moist, no odor.
5	X		3 5 5	0.0 LEL/H2S 2.0 ppm (Head Space)			Poor recovery, mixed waste including carpet, wood, plastic, glass, and metal.
10	X		3 5 10	0.0 LEL/H2S 20 ppm (Head Space)			Mixed waste, black, saturated, hydrocarbon like odor.
15	X		6 7 7		SW		Fine to coarse sand, black, saturated.
					CL		Clay, little silt, stiff, low plasticity, brownish-gray, saturated.
20	X						Clay, little silt, stiff, low plasticity, gray and rusty streaked, saturated.

Completion Detail



Drilling Company:	**HEW Drilling Co. Inc.**	Date Started:	**6/6/07**
Drilling Method:	**Hollow Stem Auger**	Date Ended:	**6/6/07**
Logged By:	**T. Sison**	Boring Diameter:	**8 inches**
Sampling Method:	**Split Spoon and 140 lb Hammer**	Depth to Water:	**10.0 Feet**
		Total Depth:	**21.5 Feet**

STANDARD_LOG 9 PAR LANDFILL.GPJ STD_LOG.GDT 8/17/07

SCS ENGINEERS

BORING LOG

6601 Koll Center Parkway, Suite 140
Pleasanton, California 94568

BORING NUMBER: B-7

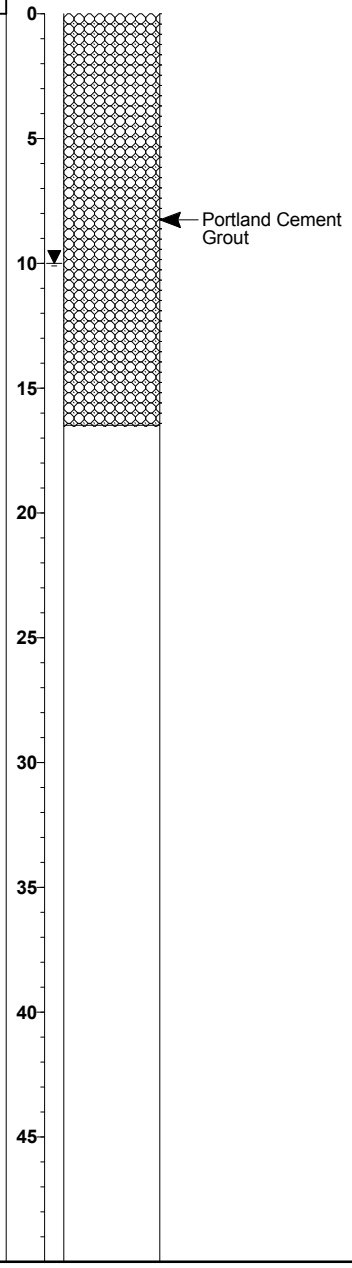
9 Par Landfill
2100 Los Esteros Road
San Jose, California

JOB NUMBER: 01206142.00

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0					CL		Very fine sandy clay and silt, brown, dry, no odor.
1.5	5	X		4 12 18				Mixed waste, including glass, plastic, and metal, rust-colored, dry.
3.0	10	X		0 1 1				Mixed waste, including glass, plastic, and metal, black, saturated.
4.5	15	X		6 8 12		CL		End of waste. Very fine sandy clay, approximately 25:75, stiff to very stiff, little silt, light brown, very moist.

Completion Detail



Drilling Company:	**HEW Drilling Co. Inc.**	Date Started:	**6/6/07**
Drilling Method:	**Hollow Stem Auger**	Date Ended:	**6/6/07**
Logged By:	**T. Sison**	Boring Diameter:	**8 inches**
Sampling Method:	**Split Spoon and 140 lb Hammer**	Depth to Water:	**10.0 Feet**
		Total Depth:	**16.5 Feet**

STANDARD_LOG 9 PAR LANDFILL.GPJ STD_LOG.GDT 8/17/07

SCS ENGINEERS

BORING LOG

6601 Koll Center Parkway, Suite 140
Pleasanton, California 94568

BORING NUMBER: B-8

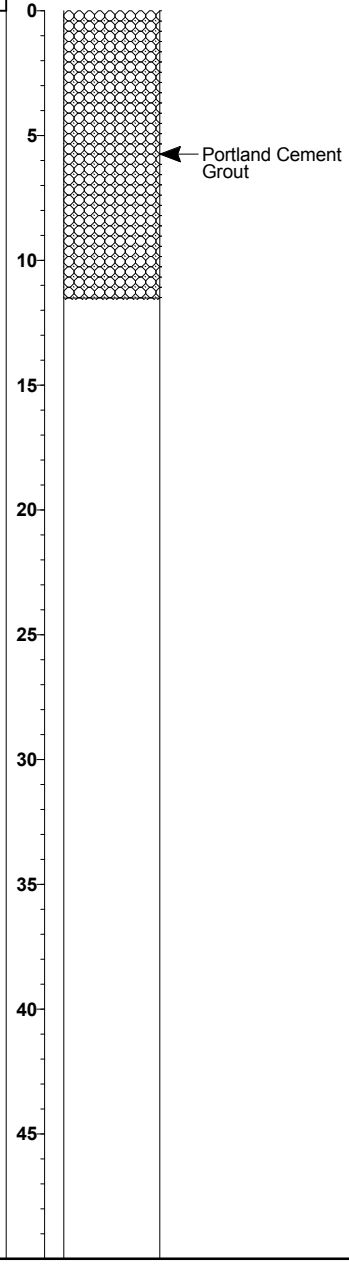
9 Par Landfill
2100 Los Esteros Road
San Jose, California

JOB NUMBER: 01206142.00

REMARKS:

Depth (meters)	Depth (feet)	Sample Location	Sample Number	Blow Counts	OVM (ppm)	USCS Soil Class.	Graphic Log	Description
0	0					CL		3"-4" asphalt. Fine sandy clay, some coarse sand and fine gravel.
1								Waste begins. Mixed waste, including paper, glass, plastic, and metal.
2	5	X		3 6 6				
								Approximate end of waste.
3	10	X		5 9 12		CL		Clay, stiff to very stiff, some silt, gray, very moist.
4								
5	15							
6	20							
7								
8	25							
9	30							
10								
11	35							
12	40							
13								
14	45							
15	50							

Completion Detail



Drilling Company: **HEW Drilling Co. Inc.**
Drilling Method: **Hollow Stem Auger**
Logged By: **T. Sison**
Sampling Method: **Split Spoon and 140 lb Hammer**

Date Started: **6/6/07**
Date Ended: **6/6/07**
Total Depth: **11.5 Feet**
Boring Diameter: **8 inches**

APPENDIX D

TEST PIT LOGS

GROUND SURFACE

DEPTH (BGS)

– 1.0'	Mixture of glass with soil and bay mud throughout trench, dark brown to black, wet, strong odor. Glass also present on slopes to east at surface. Location of trench marks the eastern boundary of bay mud and glass mixture.
– 2.0'	Same.
– 3.0'	Same.
– 4.0'	Same.
– 5.0'	
– 6.0'	
– 7.0'	
– 8.0'	
– 9.0'	
– 10.0'	
– 11.0'	
– 12.0'	
– 13.0'	
– 14.0'	
– 15.0'	

SCS ENGINEERS
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PROJ. NO. 01206142.00	LOGGED. BY: HLG	ACAD FILE:	
EXCAVATION DATE: 6/8/2007	CHK. BY: TMS	APP. BY: J. Miller	

SHEET TITLE: TP-2

PROJECT TITLE: SITE INVESTIGATION
9 PAR LANDFILL
SAN JOSE, CALIFORNIA

SCALE: AS SHOWN

GROUND SURFACE

DEPTH (BGS)	
– 1.0'	(CL) Silty clay, light brown, dry, no odor.
– 2.0'	(CL) Silty clay, some medium sand and coarse gravel, light brown, dry, no odor.
– 3.0'	(CL) Coarse gravelly clay, some silt, medium brown, dry, no odor.
– 4.0'	(CL) Coarse gravelly clay, some silt, medium brown, dry, no odor.
– 5.0'	(CL) Coarse gravelly clay, some silt, medium brown, dry, no odor.
– 6.0'	(CL) Coarse gravelly clay, some silt, medium brown, dry, no odor.
– 7.0'	(ML) Clayey silt, lots of medium sand and coarse gravel, some debris (i.e. rebar and wood), gray–brown, dry, no odor.
– 8.0'	(ML) Clayey silt, lots of medium sand and coarse gravel, some debris (i.e. rebar and wood), gray–brown, dry, no odor.
– 9.0'	(ML) Clayey silt, lots of medium sand and coarse gravel, some debris (i.e. rebar and wood), gray–brown, dry, no odor.
– 10.0'	(ML) Clayey silt, lots of medium sand and coarse gravel, some debris (i.e. rebar and wood), gray–brown, dry, no odor.
– 11.0'	Total Depth 10.0 Feet.
– 12.0'	
– 13.0'	
– 14.0'	
– 15.0'	

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PROJ. NO. 01206142.00	LOGGED. BY: HLG	ACAD FILE:
EXCAVATION DATE: 6/6/2007	CHK. BY: TMS	APP. BY: J. Miller

SHEET TITLE: TP–3

PROJECT TITLE: SITE INVESTIGATION
9 PAR LANDFILL
SAN JOSE, CALIFORNIA

SCALE: AS SHOWN

GROUND SURFACE

DEPTH (BGS)	
1.0'	(CL) Silty clay, light brown, dry, no odor.
2.0'	(CL) Silty clay, some coarse gravel, light brown, slightly moist, no odor.
3.0'	(CL) Silty clay, some coarse gravel, light brown, slightly moist, no odor.
4.0'	(CL) Silty clay, some coarse gravel, light brown, slightly moist, no odor.
5.0'	(CL) Silty clay, some coarse gravel, light brown, slightly moist, no odor.
6.0'	(CL) Silty clay, dark brown, moist, strong waste odor.
7.0'	(CL) Silty clay, dark brown, moist, strong waste odor.
8.0'	(CL) Silty clay, dark brown, moist, strong waste odor.
9.0'	(CL) Silty clay, dark brown, moist, strong waste odor.
10.0'	(CL) Silty clay, dark brown, moist, strong waste odor.
11.0'	Total Depth 10.0 Feet.
12.0'	
13.0'	
14.0'	
15.0'	

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PROJ. NO. 01206142.00	LOGGED. BY: HLG	ACAD FILE:
EXCAVATION DATE: 6/6/2007	CHK. BY: TMS	APP. BY: J. Miller

SHEET TITLE: TP-4

PROJECT TITLE: SITE INVESTIGATION
9 PAR LANDFILL
SAN JOSE, CALIFORNIA

SCALE: AS SHOWN

GROUND SURFACE

DEPTH (BGS)	
– 1.0'	(CL) Silty clay, some coarse gravel, light brown, dry, no odor.
– 2.0'	(CL) Silty clay, some coarse gravel, light brown, dry, no odor.
– 3.0'	(CL) Silty clay, some coarse gravel, light brown, dry, no odor.
– 4.0'	(CL) Silty clay, some coarse gravel, light brown, dry, no odor.
– 5.0'	(CL) Silty clay, some coarse gravel, brown, dry, no odor.
– 6.0'	(CL) Silty clay, some coarse gravel, brown, dry, no odor.
– 7.0'	(CL) Silty clay, some coarse gravel, dark brown, slightly moist, no odor.
– 8.0'	(CL) Silty clay, some coarse gravel, dark brown, slightly moist, no odor.
– 9.0'	(CL) Silty clay, some coarse gravel and quarry fines, greenish gray, slightly moist, no odor.
– 10.0'	(CL) Silty clay, some coarse gravel and quarry fines, greenish gray, slightly moist, no odor.
– 11.0'	Total Depth 10.0 Feet.
– 12.0'	
– 13.0'	
– 14.0'	
– 15.0'	

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PROJ. NO. 01206142.00	LOGGED. BY: HLG	ACAD FILE:	
EXCAVATION DATE: 6/6/2007	CHK. BY: TMS	APP. BY: J. Miller	

SHEET TITLE: TP–5

PROJECT TITLE: SITE INVESTIGATION
9 PAR LANDFILL
SAN JOSE, CALIFORNIA

SCALE: AS SHOWN

GROUND SURFACE

DEPTH (BGS)	
– 1.0'	2" of aggregate road base at surface.
– 2.0'	(CL) Medium sandy clay, some coarse gravel, brown, dry, no odor.
– 3.0'	(CL) Silty clay, dark brown, slightly moist, no odor.
– 4.0'	(CL) Silty clay, dark brown, slightly moist, no odor.
– 5.0'	(CL) Clay, dark brown, slightly moist, no odor.
– 6.0'	(CL) Clay, dark brown, slightly moist, no odor.
– 7.0'	(CL) Clay, some organic wood debris, dark brown, slightly moist, no odor.
– 8.0'	(CL) Clay, few coarse gravels, dark brown, slightly moist, no odor.
– 9.0'	(CL) Clay, some coarse gravel, dark brown, slightly moist, no odor.
– 10.0'	(CL) Clay, some coarse gravel, dark brown, slightly moist, no odor.
– 11.0'	(CL) Clay, some coarse gravel, dark brown, slightly moist, no odor.
– 12.0'	(CL) Clay, some coarse gravel, dark brown, slightly moist, no odor.
– 13.0'	(CL) Clay, some coarse gravel, dark brown, slightly moist, no odor.
– 14.0'	Total Depth 13.0 Feet.
– 15.0'	

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PH. (925) 426-0080 FAX. (925) 426-0707

PROJ. NO. 01206142.00	LOGGED. BY: HLG	ACAD FILE:
EXCAVATION DATE: 6/6/2007	CHK. BY: TMS	APP. BY: J. Miller

SHEET TITLE: TP–6

PROJECT TITLE: SITE INVESTIGATION
9 PAR LANDFILL
SAN JOSE, CALIFORNIA

SCALE: AS SHOWN

GROUND SURFACE

DEPTH (BGS)	
– 1.0'	(ML) Coarse gravelly silt, brown, dry, no odor.
– 2.0'	(CL) Silty clay, some coarse sand and coarse gravel, brown and gray, dry, no odor.
– 3.0'	(CL) Silty clay, very stiff, brown, dry, no odor.
– 4.0'	(CL) Silty clay, some coarse gravel, some brick debris, dark brown, dry, no odor.
– 5.0'	(CL) Sandy clay, black, slightly moist, strong odor.
– 6.0'	(SC) Clayey fine sand, gray, dry, no odor.
– 7.0'	(CL) Silty clay, some gravel, soft, black, moist, strong odor.
– 8.0'	(CL) Silty clay, some gravel, soft, black, moist, strong odor.
– 9.0'	(CL) Silty clay, some coarse gravel, some mixed debris (paper), soft, black, moist, strong odor.
– 10.0'	(CL) Silty clay, some coarse gravel, some mixed debris including glass and paper, soft, black, moist, strong odor.
– 11.0'	(CL) Silty clay, some coarse gravel, some mixed debris including glass, and paper, soft, black, moist, very strong landfill odor.
– 12.0'	Total Depth 11.0 Feet.
– 13.0'	
– 14.0'	
– 15.0'	

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PROJ. NO. 01206142.00	LOGGED. BY: HLG	ACAD FILE:
EXCAVATION DATE: 6/7/2007	CHK. BY: TMS	APP. BY: J. Miller

SHEET TITLE: TP–7

PROJECT TITLE: SITE INVESTIGATION
9 PAR LANDFILL
SAN JOSE, CALIFORNIA

SCALE: AS SHOWN

GROUND SURFACE

DEPTH (BGS)

1.0'	(ML) Coarse gravelly silt, some cobbles, light brown, dry, no odor.
2.0'	(CL) Silty clay, some coarse gravel, dark brown, dry, no odor.
3.0'	(CL) Silty clay, some coarse gravel, dark brown, dry, no odor.
4.0'	(CL) Silty clay, some coarse gravel, dark brown to black, dry, no odor.
5.0'	(CL) Medium sandy clay, some coarse gravel, brown, slightly moist, no odor.
6.0'	(CL) Medium sandy clay, some coarse gravel, brown, slightly moist, no odor.
7.0'	(CL) Silty clay, less gravel, dark brown, moist, no odor.
8.0'	(CL) Silty clay, less gravel, dark brown, moist, no odor.
9.0'	(CL) Silty clay, less gravel, dark brown, moist, no odor. Concrete debris at 9 feet.
10.0'	Total Depth 9.0 Feet.
11.0'	
12.0'	
13.0'	
14.0'	
15.0'	

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PROJ. NO. 01206142.00	LOGGED. BY: HLG	ACAD FILE:	
EXCAVATION DATE: 6/8/2007	CHK. BY: TMS	APP. BY: J. Miller	

SHEET TITLE: TP-8

PROJECT TITLE: SITE INVESTIGATION
9 PAR LANDFILL
SAN JOSE, CALIFORNIA

SCALE: AS SHOWN

GROUND SURFACE

DEPTH (BGS)

- 1.0' (CL) Silty clay, some coarse gravel, light brown, dry, no odor.
- 2.0' (CL) Silty clay, some coarse gravel, light brown, dry, no odor.
- 3.0' (CL) Silty clay, dark brown, slightly moist, no odor.
- 4.0' (CL) Silty clay, dark brown, slightly moist, no odor.
- 5.0' (CL) Silty clay, black, wet, strong odor.
- 6.0' (CL) Silty clay, beginning presence of waste, black, wet, strong odor.
- 7.0'
- 8.0'
- 9.0'
- 10.0'
- 11.0'
- 12.0'
- 13.0'
- 14.0'
- 15.0'

Mixed waste at 7.5 feet including paper, wire, metal, rubber, and wood.

Total Depth 7.5 Feet.

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EXCAVATION DATE: 6/6/2007	CHK. BY: TMS	APP. BY: J. Miller	

SHEET TITLE: TP-9

PROJECT TITLE: SITE INVESTIGATION
9 PAR LANDFILL
SAN JOSE, CALIFORNIA

SCALE: AS SHOWN

GROUND SURFACE

DEPTH (BGS)

1.0'	(CL) Silty clay, little coarse gravel, light brown to gray, dry, no odor.
2.0'	(SC) Clayey fine sand, some coarse gravel, brown, dry, no odor.
3.0'	(CL) Silty clay, some coarse gravel, dark brown, slightly moist, no odor.
4.0'	(CL) Clay, dark brown, slightly moist, no odor.
5.0'	(CL) Clay, some organics including root debris, dark brown, slightly moist, no odor.
6.0'	(CL) Silty clay, some asphalt debris, dark brown, slightly moist, no odor.
	Concrete debris at 6.5 feet.
7.0'	Total Depth 6.5 Feet.
8.0'	
9.0'	
10.0'	
11.0'	
12.0'	
13.0'	
14.0'	
15.0'	

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SHEET TITLE: TP-10

PROJECT TITLE: SITE INVESTIGATION
9 PAR LANDFILL
SAN JOSE, CALIFORNIA

SCALE: AS SHOWN

GROUND SURFACE

DEPTH (BGS)	
– 1.0'	(CL) Fine sandy clay, some coarse gravel, brown, dry, no odor.
– 2.0'	(CL) Fine sandy clay, some coarse gravel, brown, dry, no odor.
– 3.0'	(CL) Fine sandy clay, some coarse gravel, brown, dry, no odor.
– 4.0'	(CL) Fine sandy clay, some coarse gravel, brown, dry, no odor.
– 5.0'	(CL) Silty clay, stiff, some asphalt debris, dark brown, slightly moist, no odor.
– 6.0'	(CL) Silty clay, stiff, some asphalt debris and PVC piping debris, dark brown, slightly moist, no odor.
– 7.0'	(CL) Silty clay, stiff, some asphalt debris and PVC piping debris, dark brown, slightly moist, no odor.
– 8.0'	(CL) Silty clay, stiff, some asphalt debris and PVC piping debris, dark brown, slightly moist, no odor.
– 9.0'	(CL) Silty clay, stiff, some asphalt debris and PVC piping debris, dark brown, slightly moist, no odor.
– 10.0'	(CL) Silty clay, stiff, some asphalt debris and PVC piping debris, dark brown, slightly moist, no odor.
– 11.0'	(CL) Silty clay, stiff, some asphalt debris and PVC piping debris, dark brown, slightly moist, no odor.
– 12.0'	Total Depth 11.0 Feet.
– 13.0'	
– 14.0'	
– 15.0'	

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PROJ. NO. 01206142.00	LOGGED. BY: HLG	ACAD FILE:	
EXCAVATION DATE: 6/7/2007	CHK. BY: TMS	APP. BY: J. Miller	

SHEET TITLE: TP-10A

PROJECT TITLE: SITE INVESTIGATION
9 PAR LANDFILL
SAN JOSE, CALIFORNIA

SCALE: AS SHOWN

GROUND SURFACE

DEPTH (BGS)	
– 1.0'	(CL) Silty clay with much coarse gravel, light brown, dry, no odor.
– 2.0'	(CL) Silty clay with much coarse gravel, light brown, dry, no odor.
– 3.0'	(CL) Silty clay with much coarse gravel, light brown, dry, no odor.
– 4.0'	(CL) Silty clay with much coarse gravel, light brown, dry, no odor.
– 5.0'	(CL) Silty clay, some coarse gravel, light brown, dry, no odor.
– 6.0'	(CL) Silty clay, some coarse gravel, light brown, dry, no odor.
– 7.0'	(CL) Silty clay, some coarse gravel, light brown, dry, no odor.
– 8.0'	(CL) Silty clay, some coarse gravel, light brown, dry, no odor.
– 9.0'	(CL) Silty clay, some coarse gravel, brown, slightly moist, no odor.
– 10.0'	(CL) Clay, soft, dark brown, moist, some odor.
– 11.0'	(CL) Clay, soft, dark brown, moist, some odor.
– 12.0'	(CL) Clay, soft, dark brown, moist, some odor.
	Total Depth 12.0 Feet.
– 13.0'	
– 14.0'	
– 15.0'	

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EXCAVATION DATE: 6/7/2007	CHK. BY: TMS	APP. BY: J. Miller	

SHEET TITLE: TP–11

PROJECT TITLE: SITE INVESTIGATION
9 PAR LANDFILL
SAN JOSE, CALIFORNIA

SCALE: AS SHOWN

GROUND SURFACE

DEPTH (BGS)	
– 1.0'	(CL) Silty clay, some coarse gravel, brown, dry, no odor.
– 2.0'	(CL) Silty clay, some coarse gravel, brown, dry, no odor.
– 3.0'	(CL) Silty clay, some coarse gravel, brown, dry, no odor.
– 4.0'	(CL) Silty clay, some coarse gravel, brown, dry, no odor.
– 5.0'	(CL) Silty clay, some coarse gravel, brown, slightly moist, no odor.
– 6.0'	(CL) Silty clay, some coarse gravel, brown, slightly moist, no odor.
– 7.0'	(CL) Silty clay, some coarse gravel, brown, slightly moist, no odor.
– 8.0'	(CL) Silty clay, some coarse gravel, brown, slightly moist, no odor.
– 9.0'	(CL) Silty clay, black, moist, some odor.
– 10.0'	(CL) Clay, soft, black, moist, some odor.
– 11.0'	(CL) Clay, soft, black, moist, some odor.
– 12.0'	Total Depth 11.0 Feet.
– 13.0'	
– 14.0'	
– 15.0'	

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EXCAVATION DATE: 6/7/2007	CHK. BY: TMS	APP. BY: J. Miller	

SHEET TITLE: TP–12

PROJECT TITLE: SITE INVESTIGATION
9 PAR LANDFILL
SAN JOSE, CALIFORNIA

SCALE: AS SHOWN

GROUND SURFACE

DEPTH (BGS)	
– 1.0'	(ML) Coarse gravelly silt, light brown to gray, dry, no odor.
– 2.0'	(CL) Silty clay, some coarse gravel, very soft, dark brown, moist, no odor.
– 3.0'	(CL) Silty clay, some coarse gravel, very soft, dark brown, moist, no odor.
– 4.0'	(CL) Silty clay, some coarse gravel, very soft, dark brown, moist, no odor.
– 5.0'	(CL) Silty clay, some coarse gravel, very soft, dark brown, moist, no odor.
– 6.0'	(CL) Silty clay, some coarse gravel, very soft, dark brown, moist, no odor.
– 7.0'	(CL) Silty clay, some coarse gravel, very soft, dark brown, moist, no odor.
– 8.0'	(CL) Silty clay, some coarse gravel, very soft, dark brown, moist, no odor.
– 9.0'	(CL) Silty clay, some coarse gravel, very soft, dark brown, moist, no odor.
– 10.0'	(CL) Clay, soft, black, moist, some odor.
– 11.0'	(CL) Clay, soft, black, moist, some odor.
– 12.0'	(CL) Clay, soft, black, moist, some odor.
	Total Depth 12.0 Feet.
– 13.0'	
– 14.0'	
– 15.0'	

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SHEET TITLE: TP–13

PROJECT TITLE: SITE INVESTIGATION
9 PAR LANDFILL
SAN JOSE, CALIFORNIA

SCALE: AS SHOWN

GROUND SURFACE

DEPTH (BGS)	
– 1.0'	(ML) Coarse gravelly silt, light brown, dry, no odor.
– 2.0'	(ML) Coarse gravelly silt, light brown, dry, no odor.
– 3.0'	(CL) Silty clay, some coarse gravel, brown, dry, no odor.
– 4.0'	(CL) Silty clay, some coarse gravel, some organic root debris, concrete debris, and plastic, brown, dry, no odor.
– 5.0'	(CL) Silty clay, some coarse gravel, some plastic and wood debris, brown, dry, no odor.
– 6.0'	(CL) Silty clay, less silt, dark brown, moist, no odor.
– 7.0'	(CL) Silty clay, less silt, dark brown, moist, no odor.
– 8.0'	(CL) Silty clay, less silt, dark brown, moist, no odor.
– 9.0'	(CL) Clay, soft, some PVC pipe debris present, black, moist, some odor.
– 10.0'	(CL) Clay, soft, some PVC pipe debris present, black, moist, some odor.
– 11.0'	(CL) Clay, soft, some PVC pipe debris present, black, moist, some odor.
– 12.0'	(CL) Clay, soft, some PVC pipe debris present, black, moist, some odor.
– 13.0'	Total Depth 12.0 Feet.
– 14.0'	
– 15.0'	

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SHEET TITLE: TP–14

PROJECT TITLE: SITE INVESTIGATION
9 PAR LANDFILL
SAN JOSE, CALIFORNIA

SCALE: AS SHOWN

GROUND SURFACE

DEPTH (BGS)	
– 1.0'	(CL) Silty clay, very little coarse gravel, light brown, dry, no odor.
– 2.0'	(CL) Silty clay, very little coarse gravel, light brown, dry, no odor.
– 3.0'	(CL) Silty clay, very little coarse gravel, light brown, dry, no odor.
– 4.0'	(CL) Silty clay, very little coarse gravel, light brown, dry, no odor.
– 5.0'	(CL) Silty clay, medium to dark brown, slightly moist, no odor.
– 6.0'	(CL) Silty clay, medium to dark brown, slightly moist, no odor.
– 7.0'	(CL) Silty clay, medium to dark brown, slightly moist, no odor.
– 8.0'	(CL) Silty clay, medium to dark brown, slightly moist, no odor.
– 9.0'	(CL) Silty clay, medium to dark brown, slightly moist, no odor.
– 10.0'	(CL) Silty clay, medium to dark brown, slightly moist, strong landfill odor.
– 11.0'	Total Depth 10.0 Feet.
– 12.0'	
– 13.0'	
– 14.0'	
– 15.0'	

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SHEET TITLE: TP–15

PROJECT TITLE: SITE INVESTIGATION
9 PAR LANDFILL
SAN JOSE, CALIFORNIA

SCALE: AS SHOWN

GROUND SURFACE

DEPTH (BGS)	
1.0'	(ML) Coarse gravelly silt, light brown, dry, no odor.
2.0'	(ML) Coarse gravelly silt, some organic root debris, light brown, dry, no odor.
3.0'	(ML) Coarse gravelly silt, some PVC pipe debris, light brown, dry, no odor.
4.0'	(ML) Coarse gravelly silt, some PVC pipe debris, light brown, dry, no odor.
5.0'	(ML) Coarse gravelly silt, dark brown to black, dry, no odor.
6.0'	(ML) Coarse gravelly silt, brown, dry, no odor.
7.0'	(ML) Coarse gravelly silt, organic root and wood debris, brown, dry, no odor.
8.0'	Waste encountered at 8.0 feet, including paper, plastics, glass bottles, and tires, mixed with sandy silt, reddish brown, slightly moist, slight odor.
9.0'	Waste, including paper, plastics, glass bottles, one hubcap, and tires, mixed with sandy silt, reddish brown, slightly moist, slight odor.
10.0'	Waste, including paper, plastics, glass bottles, and tires, mixed with sandy silt, reddish brown, slightly moist, slight odor.
11.0'	Total Depth 10.0 Feet.
12.0'	
13.0'	
14.0'	
15.0'	

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PROJ. NO. 01206142.00	LOGGED. BY: HLG	ACAD FILE:
EXCAVATION DATE: 6/7/2007	CHK. BY: TMS	APP. BY: J. Miller

SHEET TITLE: TP-16

PROJECT TITLE: SITE INVESTIGATION
9 PAR LANDFILL
SAN JOSE, CALIFORNIA

SCALE: AS SHOWN

APPENDIX A

Key to Boring Logs
Exploration Logs

APPENDIX A

KEY TO SOIL LOGS

MAJOR TYPES			DESCRIPTION
COARSE-GRAINED SOILS MORE THAN HALF OF MAT'L LARGER THAN #200 SIEVE	GRAVELS MORE THAN HALF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE SIZE	CLEAN GRAVELS WITH LESS THAN 5% FINES	GW - Well graded gravels or gravel-sand mixtures GP - Poorly graded gravels or gravel-sand mixtures
		GRAVELS WITH OVER 12 % FINES	GM - Silty gravels, gravel-sand and silt mixtures GC - Clayey gravels, gravel-sand and clay mixtures
	SANDS MORE THAN HALF COARSE FRACTION IS SMALLER THAN NO. 4 SIEVE SIZE	CLEAN SANDS WITH LESS THAN 5% FINES	SW - Well graded sands, or gravelly sand mixtures SP - Poorly graded sands or gravelly sand mixtures
		SANDS WITH OVER 12 % FINES	SM - Silty sand, sand-silt mixtures SC - Clayey sand, sand-clay mixtures
FINE-GRAINED SOILS MORE THAN HALF OF MAT'L SMALLER THAN #200 SIEVE	SILTS AND CLAYS LIQUID LIMIT 50 % OR LESS		ML - Inorganic silt with low to medium plasticity CL - Inorganic clay with low to medium plasticity OL - Low plasticity organic silts and clays
	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50 %		MH - Elastic silt with high plasticity CH - Fat clay with high plasticity OH - Highly plastic organic silts and clays
	HIGHLY ORGANIC SOILS		PT - Peat and other highly organic soils

For fine-grained soils with 15 to 29% retained on the #200 sieve, the words "with sand" or "with gravel" (whichever is predominant) are added to the group name.

For fine-grained soil with >30% retained on the #200 sieve, the words "sandy" or "gravelly" (whichever is predominant) are added to the group name.

GRAIN SIZES

U.S. STANDARD SERIES SIEVE SIZE				CLEAR SQUARE SIEVE OPENINGS			
200	40	10	4	3/4 "		3"	12"
SILTS AND CLAYS	SAND			GRAVEL		COBBLES	BOULDERS
	FINE	MEDIUM	COARSE	FINE	COARSE		

RELATIVE DENSITY

SANDS AND GRAVELS	BLOWS/FOOT (S.P.T.)
VERY LOOSE	0-4
LOOSE	4-10
MEDIUM DENSE	10-30
DENSE	30-50
VERY DENSE	OVER 50

CONSISTENCY

SILTS AND CLAYS	STRENGTH*
VERY SOFT	0-1/4
SOFT	1/4-1/2
MEDIUM STIFF	1/2-1
STIFF	1-2
VERY STIFF	2-4
HARD	OVER 4

SAMPLER SYMBOLS

- Modified California (3" O.D.) sampler
- California (2.5" O.D.) sampler
- S.P.T. - Split spoon sampler
- Shelby Tube
- Continuous Core
- Bag Samples
- Grab Samples
- NR No Recovery

MOISTURE CONDITION

DRY	Dusty, dry to touch
MOIST	Damp but no visible water
WET	Visible freewater

LINE TYPES

- Solid - Layer Break
- Dashed - Gradational or approximate layer break

GROUND-WATER SYMBOLS

- Groundwater level during drilling
- Stabilized groundwater level

(S.P.T.) Number of blows of 140 lb. hammer falling 30" to drive a 2-inch O.D. (1-3/8 inch I.D.) sampler

* Unconfined compressive strength in tons/sq. ft., asterisk on log means determined by pocket penetrometer

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LOG OF BORING B8A

ENGEO INCORPORATED

Geotechnical Exploration
ZWE Digestion Facility
San Jose, California
8900.000.000

DATE DRILLED: 2/1/2010
HOLE DEPTH: Approx. 81½ ft.
HOLE DIAMETER: 4 and 8 in.
SURF ELEV (msl): Approx. 14 ft.

LOGGED / REVIEWED BY: M. Harrell / PC
DRILLING CONTRACTOR: Precision Sampling
DRILLING METHOD: HSA/Mud Rotary
HAMMER TYPE: 140 lb. Auto Trip

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	Atterberg Limits: Liquid Limit	Atterberg Limits: Plastic Limit	Atterberg Limits: Plasticity Index	Fines Content (% passing #200 sieve)	Moisture Content (% dry weight)	Dry Unit Weight (pcf)	Unconfined Strength (tsf) *field approx
			SILTY CLAY WITH SAND (CL), dark brown, soft, moist, trace gravel, gravel on ground surface, [FILL]			9	38	17	21		19 15.2	116.1	
			Dark brown mottled with yellowish-brown, medium stiff; unconfined compessive strength: 1570 psf										1.5*
			Unconfined compessive strength: 680 psf			8							
	1												1.75*
5			Very stiff			23							3.0*
	2		SILTY CLAY (CL), dark grayish brown to olive, medium stiff, moist, with debris (plywood and plastic sheet), organic an hydrocarbon odors, [SOIL/REFUSE FILL]			17					43.7		
			Specific gravity: 2.24										
			Debris observed										
10	3					56							
			Debris observed										
	4		Wood fragments Wood fragments Paper and glass			17					70.1		
15					▽								
	5		Rubber sheet			16				59	19.5		
			SANDY SILT (ML), olive brown, medium dense, moist, trace organics										
	6												
20			POORLY GRADED SAND WITH SILT (SP-SM), brown, medium dense, wet, trace gravel, trace silt			24				6	26	96.6	
						18					17		
	7		Strong ammonia odor										
25													

LOG OF BORING B8A

ENGEO INCORPORATED

Geotechnical Exploration
ZWE Digestion Facility
San Jose, California
8900.000.000

DATE DRILLED: 2/1/2010
HOLE DEPTH: Approx. 81½ ft.
HOLE DIAMETER: 4 and 8 in.
SURF ELEV (msl): Approx. 14 ft.

LOGGED / REVIEWED BY: M. Harrell / PC
DRILLING CONTRACTOR: Precision Sampling
DRILLING METHOD: HSA/Mud Rotary
HAMMER TYPE: 140 lb. Auto Trip

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	Atterberg Limits: Liquid Limit	Atterberg Limits: Plastic Limit	Atterberg Limits: Plasticity Index	Fines Content (% passing #200 sieve)	Moisture Content (% dry weight)	Dry Unit Weight (pcf)	Unconfined Strength (tsf) *field approx
			POORLY GRADED SAND WITH SILT (SP-SM), brown, medium dense, wet, trace gravel, trace silt			8	42	21	21		9.7		
	8		SILTY CLAY WITH SAND (CL), yellowish brown mottled with olive, stiff, moist										
	9												
30			Hole caving										
	10												
35						19							
	11		Same olive mottling										2.0*
	12												
40						10							
	13					9	37	17	20		26.7		
			SANDY CLAY (CL), dark yellowish brown mottled with olive, very stiff, moist										
45						19							
	14					17					19.7	110.5	2.5*
	15												
50													

LOG OF BORING B8A

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Geotechnical Exploration
ZWE Digestion Facility
San Jose, California
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DATE DRILLED: 2/1/2010
HOLE DEPTH: Approx. 81½ ft.
HOLE DIAMETER: 4 and 8 in.
SURF ELEV (msl): Approx. 14 ft.

LOGGED / REVIEWED BY: M. Harrell / PC
DRILLING CONTRACTOR: Precision Sampling
DRILLING METHOD: HSA/Mud Rotary
HAMMER TYPE: 140 lb. Auto Trip

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	Atterberg Limits: Liquid Limit	Atterberg Limits: Plastic Limit	Atterberg Limits: Plasticity Index	Fines Content (% passing #200 sieve)	Moisture Content (% dry weight)	Dry Unit Weight (pcf)	Unconfined Strength (tsf) *field approx
			SANDY CLAY (CL), dark yellowish brown mottled with olive, very stiff, moist			14					20.6		0.75*
			Medium dense, with more sand										
	16												
			SILTY CLAY WITH SAND (CL), dark yellowish brown mottled with olive, hard										
55													
	17					40	35	16	19		20.3	78.4	3.0*
	18												
60													
			medium stiff			16					26.3		0.5* 0.5*
	19												
			CLAYEY SAND (SC), yellowish brown, loose to medium dense, wet, fine-grained sand										
65													
	20					9				39	21.8		
			POORLY GRADED SAND WITH SILT (SP), brown to dark yellowish brown, loose, wet, fine- to medium-grained sand										
	21												
70			Medium dense			15				8	28.5		
	22												
			SANDY SILT (ML), dark olive mottled with reddish brown, hard, moist, fine-grained sand										
75													

LOG OF BORING B8A

Geotechnical Exploration
ZWE Digestion Facility
San Jose, California
8900.000.000

DATE DRILLED: 2/1/2010
HOLE DEPTH: Approx. 81½ ft.
HOLE DIAMETER: 4 and 8 in.
SURF ELEV (msl): Approx. 14 ft.

LOGGED / REVIEWED BY: M. Harrell / PC
DRILLING CONTRACTOR: Precision Sampling
DRILLING METHOD: HSA/Mud Rotary
HAMMER TYPE: 140 lb. Auto Trip

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	Atterberg Limits: Liquid Limit	Atterberg Limits: Plastic Limit	Atterberg Limits: Plasticity Index	Fines Content (% passing #200 sieve)	Moisture Content (% dry weight)	Dry Unit Weight (pcf)	Unconfined Strength (tsf) *field approx
	23		SANDY SILT (ML), dark olive mottled with reddish brown, hard, moist, fine-grained sand			42					22.6		3.5* 3.5*
	24		SILTY SAND (SM), blue gray, dense, wet, medium-grained sand										
80						73				23	14.9		
			Boring terminated at approximately 81 1/2 feet. Groundwater encountered at approximately 16 feet.										

LOG OF BORING B9A

ENGEO INCORPORATED

Geotechnical Exploration
ZWE Digestion Facility
San Jose, California
8900.000.000

DATE DRILLED: 2/1/2010
HOLE DEPTH: Approx. 81½ ft.
HOLE DIAMETER: 4 and 8 in.
SURF ELEV (msl): Approx. 26 ft.

LOGGED / REVIEWED BY: M. Harrell / PC
DRILLING CONTRACTOR: Precision Sampling
DRILLING METHOD: HSA/Mud Rotary
HAMMER TYPE: 140 lb. Auto Trip

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	Atterberg Limits: Liquid Limit	Atterberg Limits: Plastic Limit	Atterberg Limits: Plasticity Index	Fines Content (% passing #200 sieve)	Moisture Content (% dry weight)	Dry Unit Weight (pcf)	Unconfined Strength (tsf) *field approx
			CLAYEY SAND (SC), dark brown, medium dense, moist, some gravel, gravel on ground surface, [FILL]			16				30	11.9		
			SILTY CLAY WITH SAND (CL), olive brown mottled with yellowish brown, medium stiff, moist, trace gravel, [FILL]			11					15.1	110.2	1.0*
5	1		Specific Gravity: 2.49 Greenish gray, plastic fragment, hard			56					16.1		4.5+*
	2		Mottled gray and yellowish-brown			53					14.3	101.9	4.5+*
10	3		Specific Gravity: 2.37 CLAY (CH), dark brown, stiff, moist, some sand, conduit fragment, [FILL]			28	58	19	39				2.0*
	4		Mottled dark yellowish-brown, trace gravel			28					15.6		2.0*
15	5		CLAYEY SAND WITH GRAVEL (SC), dark brown mottled with olive brown, very dense, moist, [FILL]			66				20	10.9		
20	6		SILTY CLAY WITH SAND (CL), very dark dark black mottled with gray, medium stiff, moist, with paper debris, [SOIL/REFUSE FILL]			12					47.5	96.7	
25	7												

LOG OF BORING B9A

Geotechnical Exploration
ZWE Digestion Facility
San Jose, California
8900.000.000

DATE DRILLED: 2/1/2010
HOLE DEPTH: Approx. 81½ ft.
HOLE DIAMETER: 4 and 8 in.
SURF ELEV (msl): Approx. 26 ft.

LOGGED / REVIEWED BY: M. Harrell / PC
DRILLING CONTRACTOR: Precision Sampling
DRILLING METHOD: HSA/Mud Rotary
HAMMER TYPE: 140 lb. Auto Trip

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	Atterberg Limits: Liquid Limit	Atterberg Limits: Plastic Limit	Atterberg Limits: Plasticity Index	Fines Content (% passing #200 sieve)	Moisture Content (% dry weight)	Dry Unit Weight (pcf)	Unconfined Strength (tsf) *field approx
	8		SILTY CLAY WITH SAND (CL), very dark dark black mottled with gray, medium stiff, moist, with paper debris, [SOIL/REFUSE FILL]			58/10"							
	9												
30			Peat layer, roots, debris (paper, wire, and plastic)			33					71.7		
			CLAYEY SAND (SC/CL), olive, medium stiff, moist										1.25*
	10												
			SILTY SAND (SM), gray, medium dense, wet										
35													
	11					26				16	22.8		
			SANDY SILT (ML), yellowish brown mottled with gray, medium stiff, moist, ammonia odor			6							
	12												
40			SILTY CLAY WITH SAND (CL), yellowish brown mottled with olive, stiff, moist			23	26	13	13		23		1.25*
	13												
45													
	14		Dark yellowish-brown mottled with olive, stiff			30					21.4		1.75*
	15												
50													

LOG OF BORING B9A

ENGEO INCORPORATED

Geotechnical Exploration
ZWE Digestion Facility
San Jose, California
8900.000.000

DATE DRILLED: 2/1/2010
HOLE DEPTH: Approx. 81½ ft.
HOLE DIAMETER: 4 and 8 in.
SURF ELEV (msl): Approx. 26 ft.

LOGGED / REVIEWED BY: M. Harrell / PC
DRILLING CONTRACTOR: Precision Sampling
DRILLING METHOD: HSA/Mud Rotary
HAMMER TYPE: 140 lb. Auto Trip

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	Atterberg Limits: Liquid Limit	Atterberg Limits: Plastic Limit	Atterberg Limits: Plasticity Index	Fines Content (% passing #200 sieve)	Moisture Content (% dry weight)	Dry Unit Weight (pcf)	Unconfined Strength (tsf) *field approx
			SILTY CLAY WITH SAND (CL), yellowish brown mottled with olive, stiff, moist			14					29.1		
			Dark yellowish-brown with slight olive mottling										1.0*
	16												
55													
	17		Dark yellowish-brown with faint olive mottling			16					25.1		1.0*
	18												
60													
			SANDY LEAN CLAY (CL), dark yellowish brown, medium stiff, wet			26					19.1		1.0* 0.75*
	19												
65													
	20		SILTY CLAY WITH SAND (CL), dark yellowish brown, medium dense, wet			7					24.9		
	21												
70													
			Very stiff			41					17.9		4.25* 2.5*
	22												
			CLAYEY SAND (SC), dark yellowish brown, loose, wet										
75													

LOG OF BORING B9A

Geotechnical Exploration
ZWE Digestion Facility
San Jose, California
8900.000.000

DATE DRILLED: 2/1/2010
HOLE DEPTH: Approx. 81½ ft.
HOLE DIAMETER: 4 and 8 in.
SURF ELEV (msl): Approx. 26 ft.

LOGGED / REVIEWED BY: M. Harrell / PC
DRILLING CONTRACTOR: Precision Sampling
DRILLING METHOD: HSA/Mud Rotary
HAMMER TYPE: 140 lb. Auto Trip

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	Atterberg Limits: Liquid Limit	Atterberg Limits: Plastic Limit	Atterberg Limits: Plasticity Index	Fines Content (% passing #200 sieve)	Moisture Content (% dry weight)	Dry Unit Weight (pcf)	Unconfined Strength (tsf) *field approx
	23		CLAYEY SAND (SC), dark yellowish brown, loose, wet			7					23.5		
			SILTY CLAY (CL), dark yellowish brown, medium dense, wet										
	24												
80						16							0.25*
			Medium stiff										
			Boring terminated at approximately 81 1/2 feet. Groundwater level undetermined due to drilling method.										

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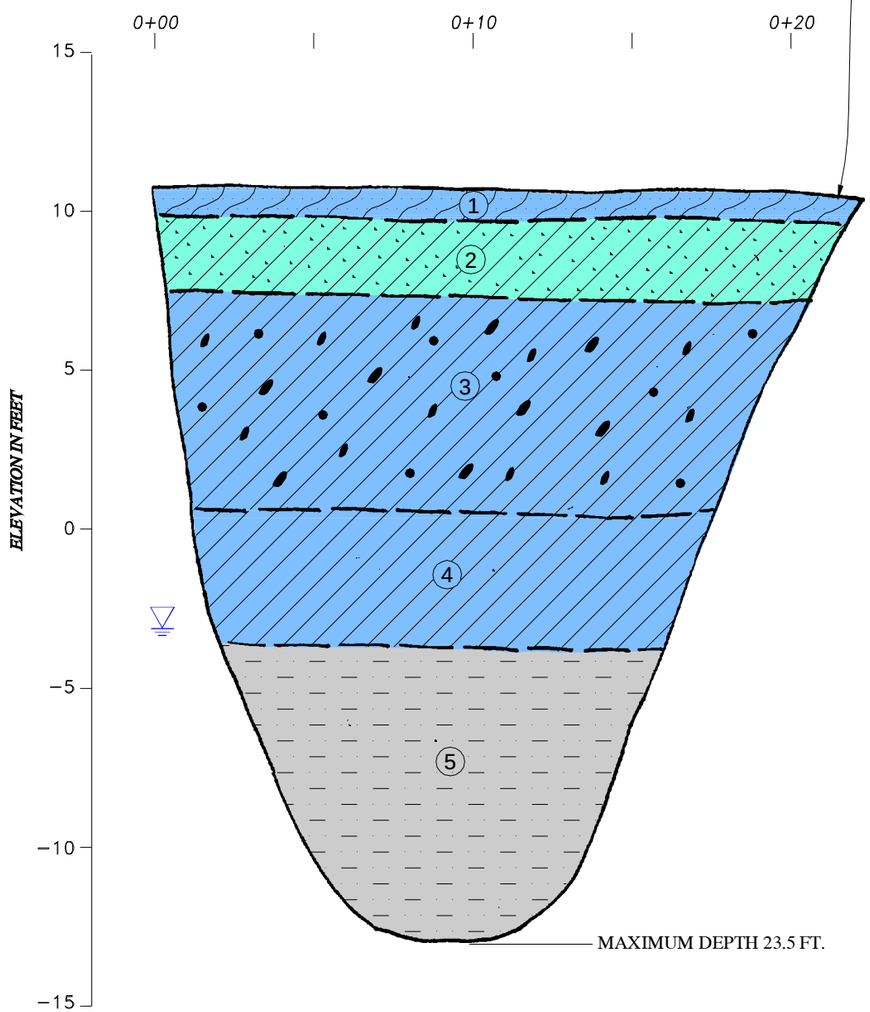
EXPANSION INDEX=53
R-VALUE=<5,
COMPACTION CURVE=124.2PCF AT 9.7% MOISTURE



REFUSE SPOILS

LOOKING INTO TEST PIT

EXPLANATION

1. Silty CLAY (CL), grey, soft, moist trace organics from surface vegetation
2. Clayey SAND (SC), light grey to brown, loose, moist
3. Silty Clay (CL), with gravel, brown, medium stiff, moist
4. Silty Clay (CL), with refuse, dark brown, medium stiff to stiff, moist to saturated, refuse includes glass, wood, and newspaper
5. Refuse FILL, approximately 40% soil, major constituents are paper, wood, and glass. Other constituents include: plastic, wire, metal, tires, and asphalt. A high fraction of intact glass bottles were observed.

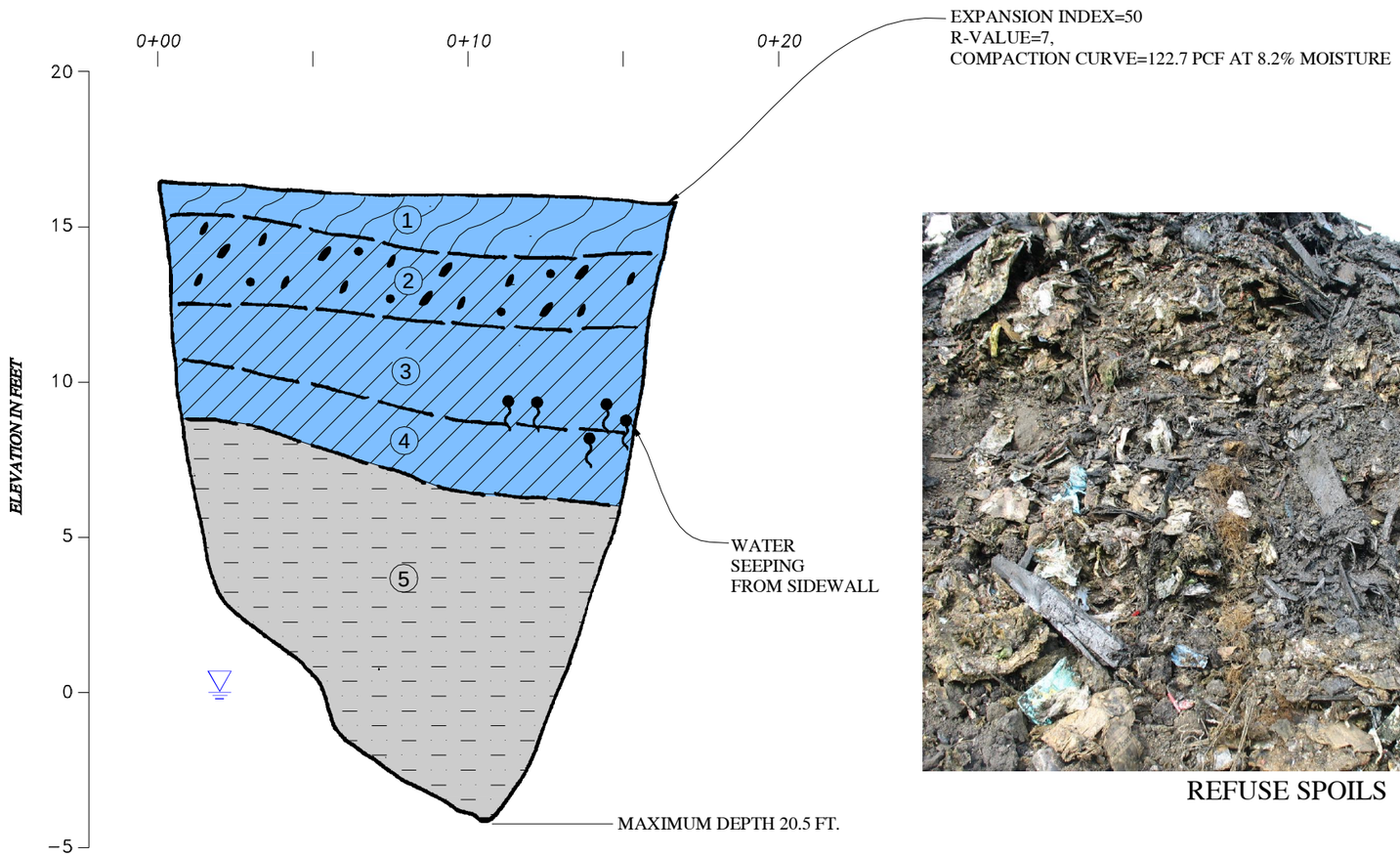
ENGEO Expect Excellence

TEST PIT LOG TP-1A
ZERO WASTE ENERGY ANAEROBIC DIGESTION FACILITY
SAN JOSE, CALIFORNIA

PROJECT NO.: 8900.000.000		FIGURE NO
DATE: MARCH 2010		
DRAWN BY: SRP	CHECKED BY: MG	

G:\Drafting\DRAFTING2_Dwg\8900\000\GEX\8900000000-GEX-Test Pit Log -TP1A-0310.dwg 3-19-10 01:39:33 PM spatters

ORIGINAL FIGURE PRINTED IN COLOR



REFUSE SPOILS

REFUSE SPOILS CLOSE UP

EXPLANATION

1. Silty CLAY (CL), grey, soft, moist trace organics from surface vegetation
2. Silty CLAY (CL), with gravel, olive brown, stiff, moist, minor pieces of concrete and paper
3. Clay (CL) dark black, medium stiff, moist, wet
4. Clay (CL) dark brown, mottled with black, medium stiff, wet, one brick observed
5. Refuse FILL, approximately 50% soil, major constituents are paper, wood, and glass. Other constituents include: plastic, metal, and bricks. A legible newspaper scrap was recovered dated 1966.

ENGEO
Expect Excellence

TRENCH LOG TP-2A
ZERO WASTE ENERGY ANAEROBIC DIGESTION FACILITY
SAN JOSE, CALIFORNIA

PROJECT NO.: 8900.000.000		FIGURE NO
DATE: MARCH 2010		
DRAWN BY: PC	CHECKED BY: MG	

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APPENDIX B

CPT Logs

APPENDIX B

GREGG DRILLING & TESTING, INC.
GEOTECHNICAL AND ENVIRONMENTAL INVESTIGATION SERVICES

February 3, 2010

Engeo
Attn: Paul Cottingham
6399 San Ignacio Ave., Suite 150
San Jose, California 95119

Subject: CPT Site Investigation
Zero Waste Energy Anaerobic Facility
San Jose, California
GREGG Project Number: 10-021MA

Dear Mr. Cottingham:

The following report presents the results of GREGG Drilling & Testing's Cone Penetration Test investigation for the above referenced site. The following testing services were performed:

1	Cone Penetration Tests	(CPTU)	☒
2	Pore Pressure Dissipation Tests	(PPD)	☒
3	Seismic Cone Penetration Tests	(SCPTU)	☐
4	Resistivity Cone Penetration Tests	(RCPTU)	☐
5	UVOST Laser Induced Fluorescence	(UVOST)	☐
6	Groundwater Sampling	(GWS)	☐
7	Soil Sampling	(SS)	☐
8	Vapor Sampling	(VS)	☐
9	Vane Shear Testing	(VST)	☐
10	SPT Energy Calibration	(SPTE)	☐

A list of reference papers providing additional background on the specific tests conducted is provided in the bibliography following the text of the report. If you would like a copy of any of these publications or should you have any questions or comments regarding the contents of this report, please do not hesitate to contact our office at (925) 313-5800.

Sincerely,
GREGG Drilling & Testing, Inc.

Mary Walden
Operations Manager

950 Howe Rd • Martinez, California 94553 • (925) 313-5800 • FAX (925) 313-0302
OTHER OFFICES: LOS ANGELES • HOUSTON
www.greggdrilling.com

Cone Penetration Test Sounding Summary

-Table 1-

CPT Sounding Identification	Date	Termination Depth (Feet)	Depth of Groundwater Samples (Feet)	Depth of Soil Samples (Feet)	Depth of Pore Pressure Dissipation Tests (Feet)
CPT-01	2/01/10	85	-	-	-
CPT-02	2/01/10	85	-	-	-
CPT-03	2/01/10	85	-	-	-
CPT-04	2/02/10	100	-	-	92.4
CPT-05	2/02/10	85	-	-	32.6
CPT-06	2/02/10	85	-	-	22.5

Bibliography

Lunne, T., Robertson, P.K. and Powell, J.J.M., "Cone Penetration Testing in Geotechnical Practice" E & FN Spon. ISBN 0 419 23750, 1997

Roberston, P.K., "Soil Classification using the Cone Penetration Test", Canadian Geotechnical Journal, Vol. 27, 1990 pp. 151-158.

Mayne, P.W., "NHI (2002) Manual on Subsurface Investigations: Geotechnical Site Characterization", available through www.ce.gatech.edu/~geosys/Faculty/Mayne/papers/index.html, Section 5.3, pp. 107-112.

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Robertson, P.K., Sully, J., Woeller, D.J., Lunne, T., Powell, J.J.M., and Gillespie, D.J., "Guidelines for Estimating Consolidation Parameters in Soils from Piezocone Tests", Canadian Geotechnical Journal, Vol. 29, No. 4, August 1992, pp. 539-550.

Robertson, P.K., T. Lunne and J.J.M. Powell, "Geo-Environmental Application of Penetration Testing", Geotechnical Site Characterization, Robertson & Mayne (editors), 1998 Balkema, Rotterdam, ISBN 90 5410 939 4 pp 35-47.

Campanella, R.G. and I. Weemees, "Development and Use of An Electrical Resistivity Cone for Groundwater Contamination Studies", Canadian Geotechnical Journal, Vol. 27 No. 5, 1990 pp. 557-567.

DeGroot, D.J. and A.J. Lutenegger, "Reliability of Soil Gas Sampling and Characterization Techniques", International Site Characterization Conference - Atlanta, 1998.

Woeller, D.J., P.K. Robertson, T.J. Boyd and Dave Thomas, "Detection of Polyaromatic Hydrocarbon Contaminants Using the UVIF-CPT", 53rd Canadian Geotechnical Conference Montreal, QC October pp. 733-739, 2000.

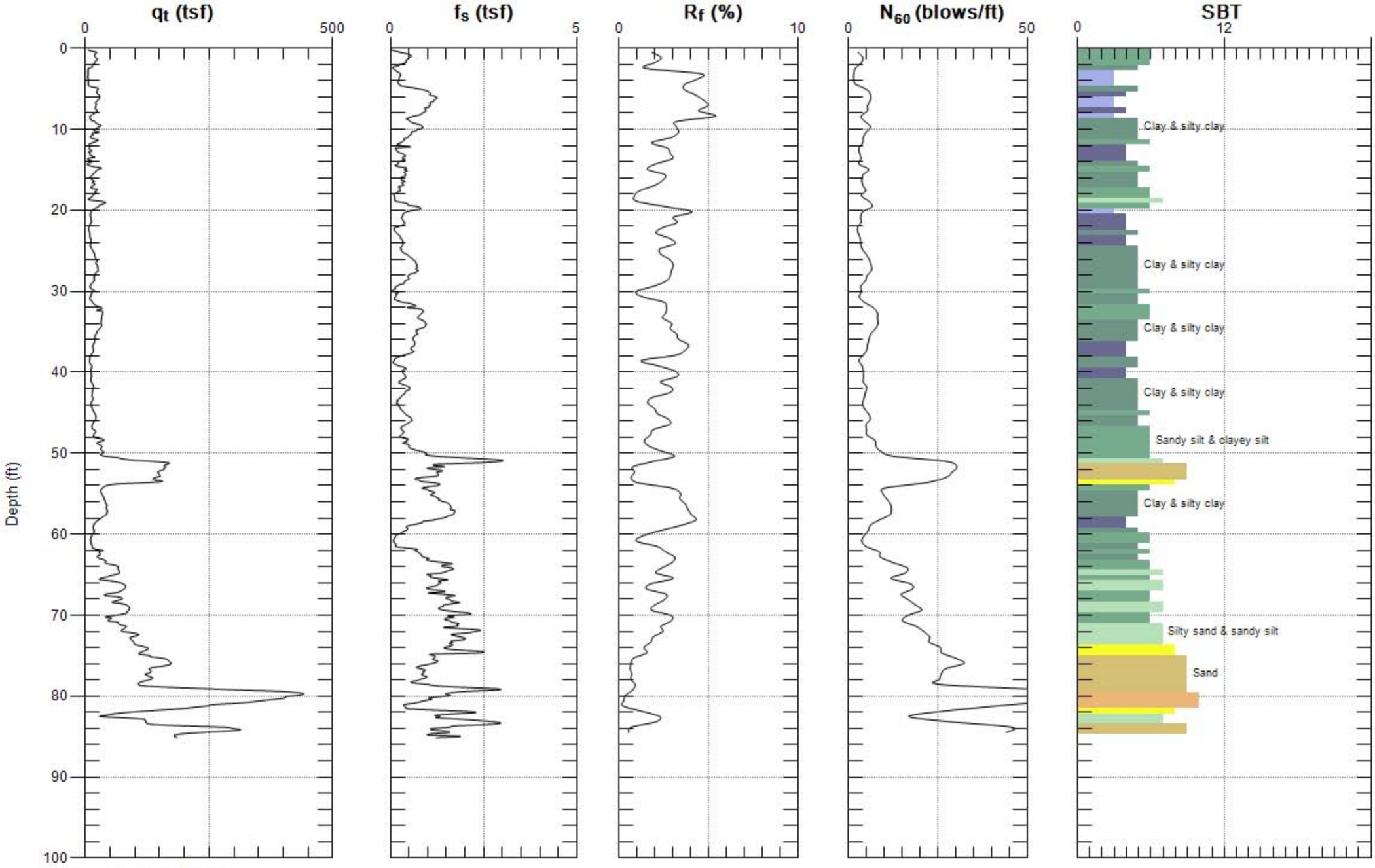
Zemo, D.A., T.A. Delfino, J.D. Gallinatti, V.A. Baker and L.R. Hilpert, "Field Comparison of Analytical Results from Discrete-Depth Groundwater Samplers" BAT EnviroProbe and QED HydroPunch, Sixth national Outdoor Action Conference, Las Vegas, Nevada Proceedings, 1992, pp 299-312.

Copies of ASTM Standards are available through www.astm.org

GREGG ENGEO

Site: ZERO WASTE ENERGY
Sounding: CPT-01

Engineer: P.COTTINGHAM
Date: 2010-02-01 09:30



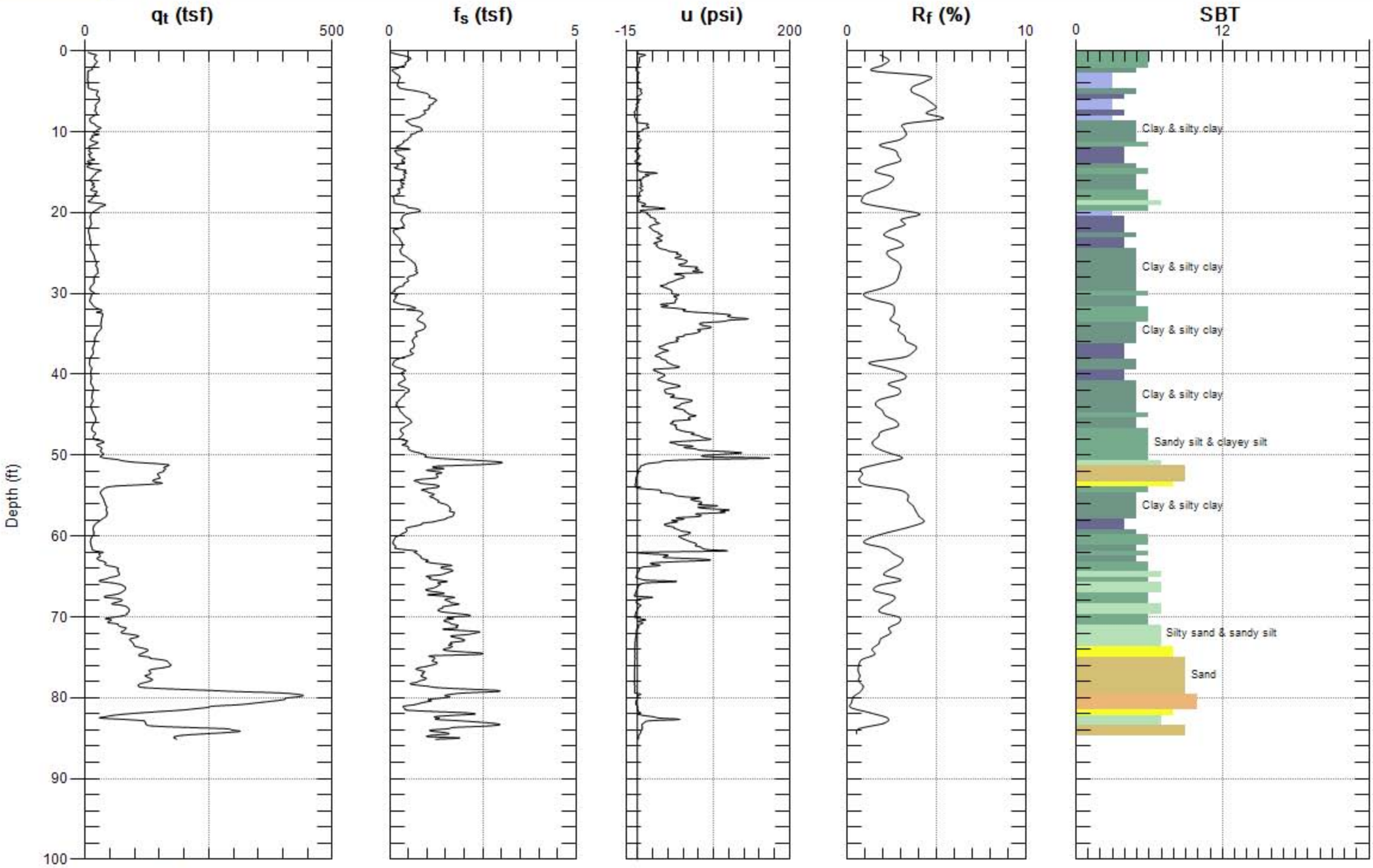
Max. Depth: 85.138 (ft)
Avg. Interval: 0.656 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG ENGEO

Site: ZERO WASTE ENERGY
Sounding: CPT-01

Engineer: P.COTTINGHAM
Date: 2010-02-01 09:30



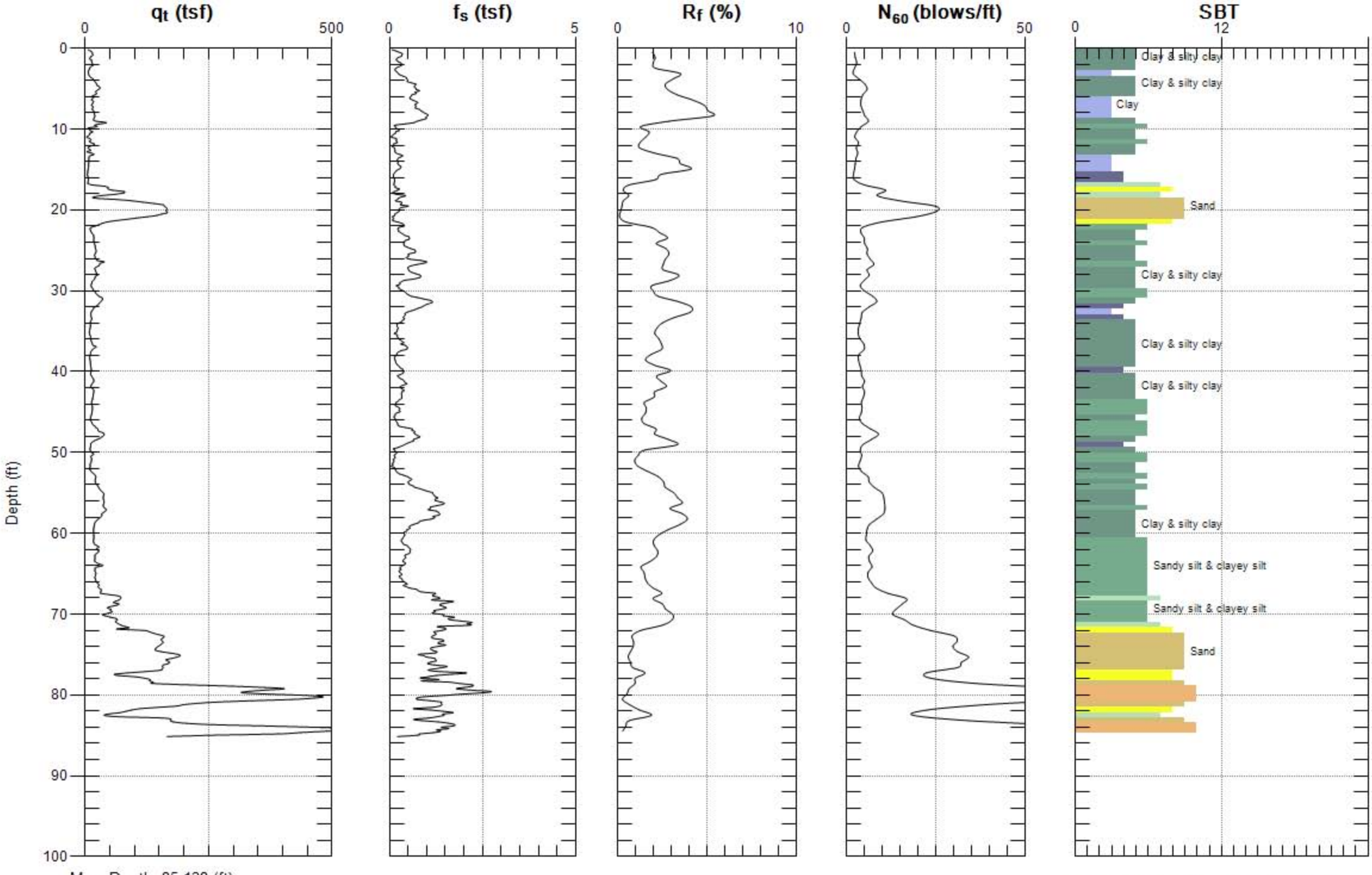
Max. Depth: 85.138 (ft)
Avg. Interval: 0.656 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG ENGEO

Site: ZERO WASTE ENERGY
Sounding: CPT-02

Engineer: P.COTTINGHAM
Date: 2010-02-01 11:39



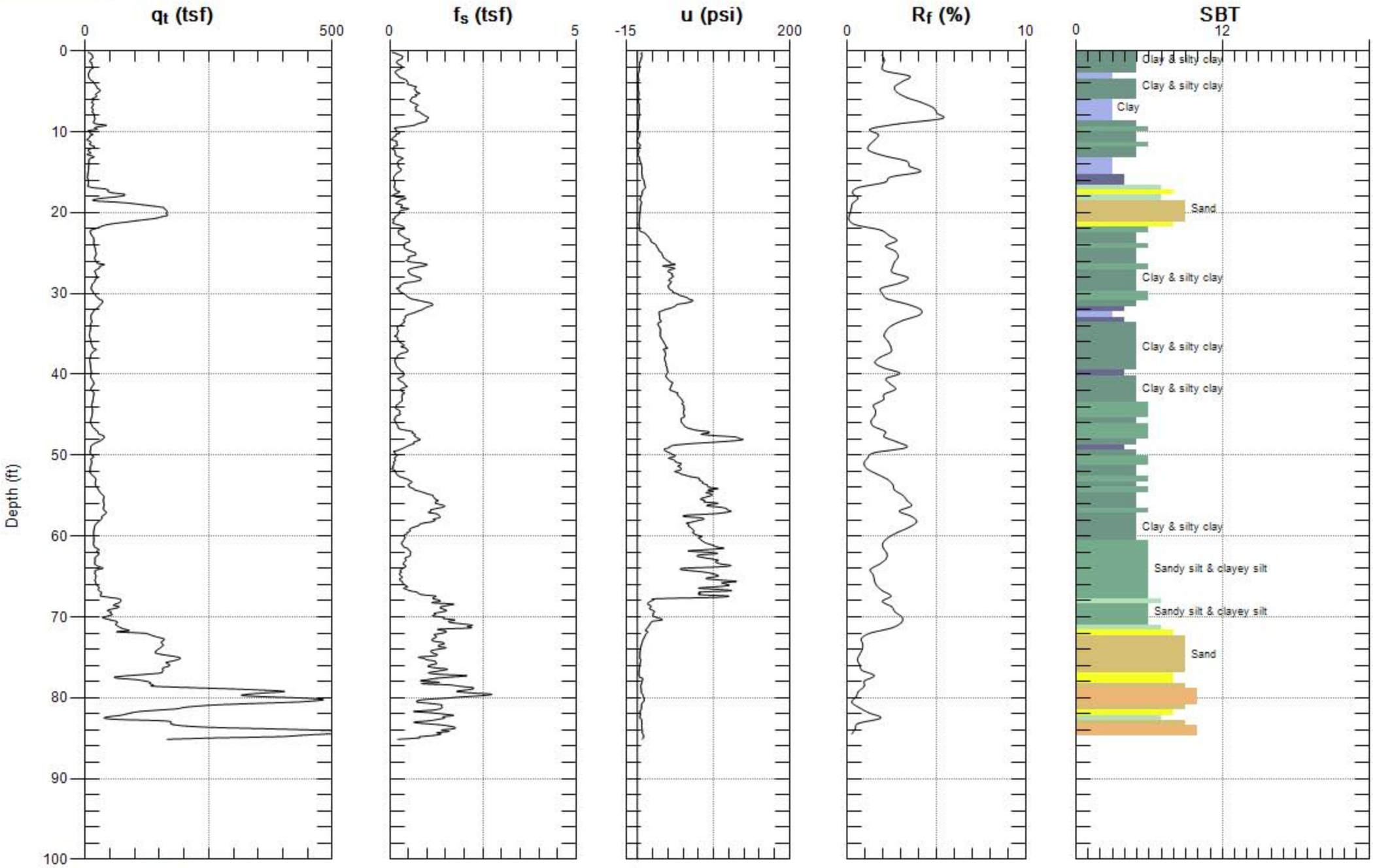
Max. Depth: 85.138 (ft)
Avg. Interval: 0.656 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG ENGEO

Site: ZERO WASTE ENERGY
Sounding: CPT-02

Engineer: P.COTTINGHAM
Date: 2010-02-01 11:39



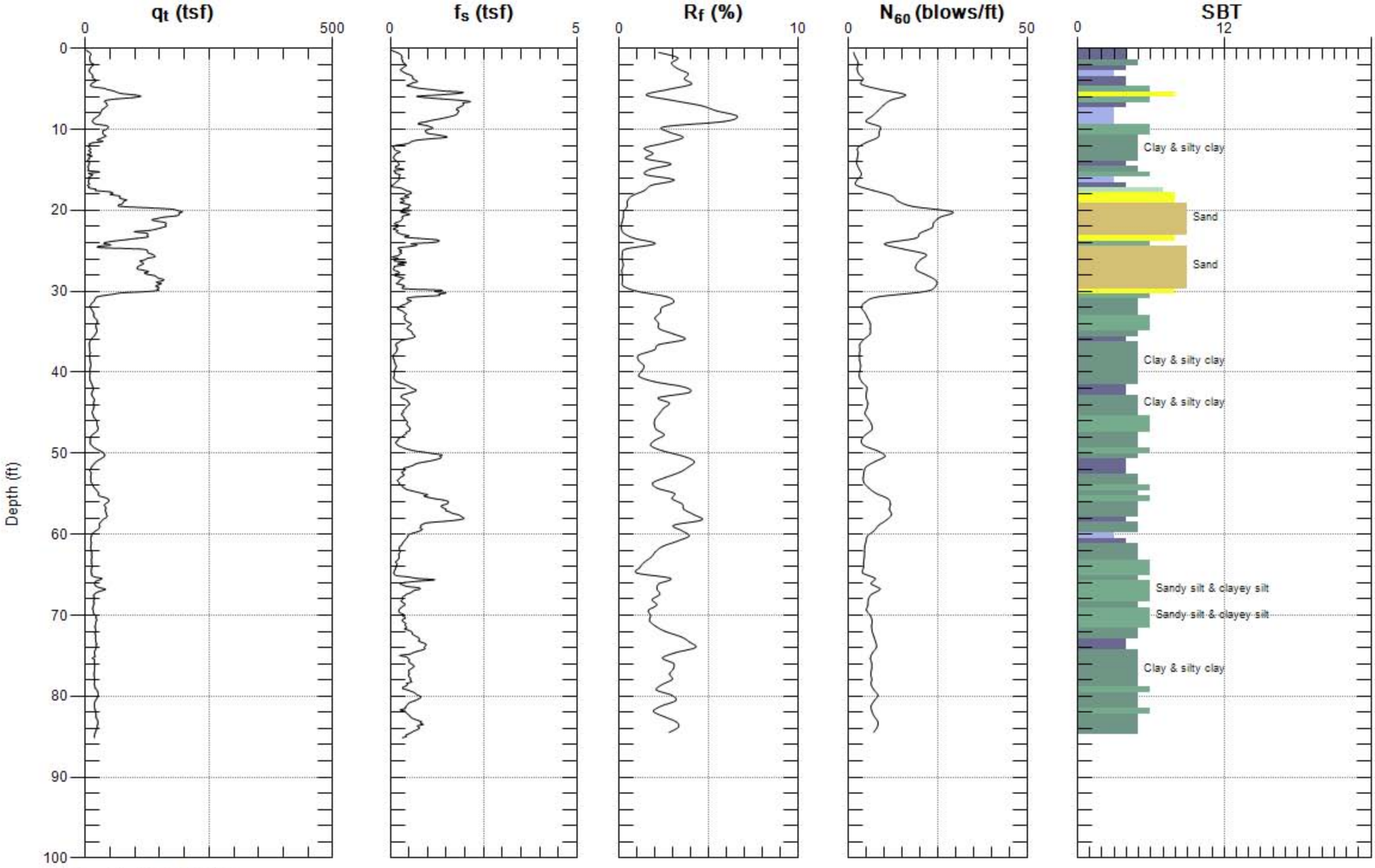
Max. Depth: 85.138 (ft)
Avg. Interval: 0.656 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG ENGEO

Site: ZERO WASTE ENERGY
Sounding: CPT-03

Engineer: P.COTTINGHAM
Date: 2010-02-01 01:27



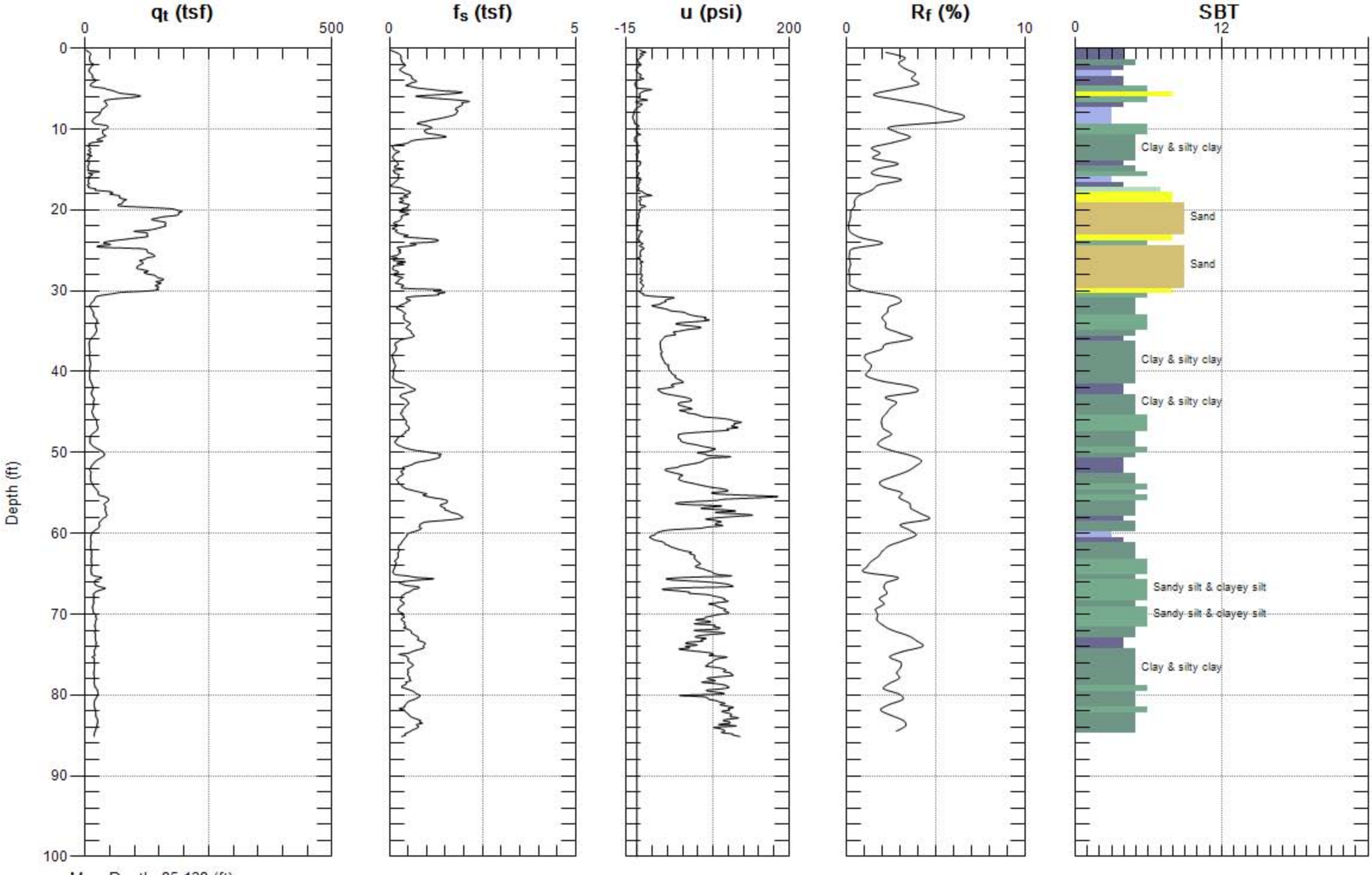
Max. Depth: 85.138 (ft)
Avg. Interval: 0.656 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG ENGEO

Site: ZERO WASTE ENERGY
Sounding: CPT-03

Engineer: P.COTTINGHAM
Date: 2010-02-01 01:27



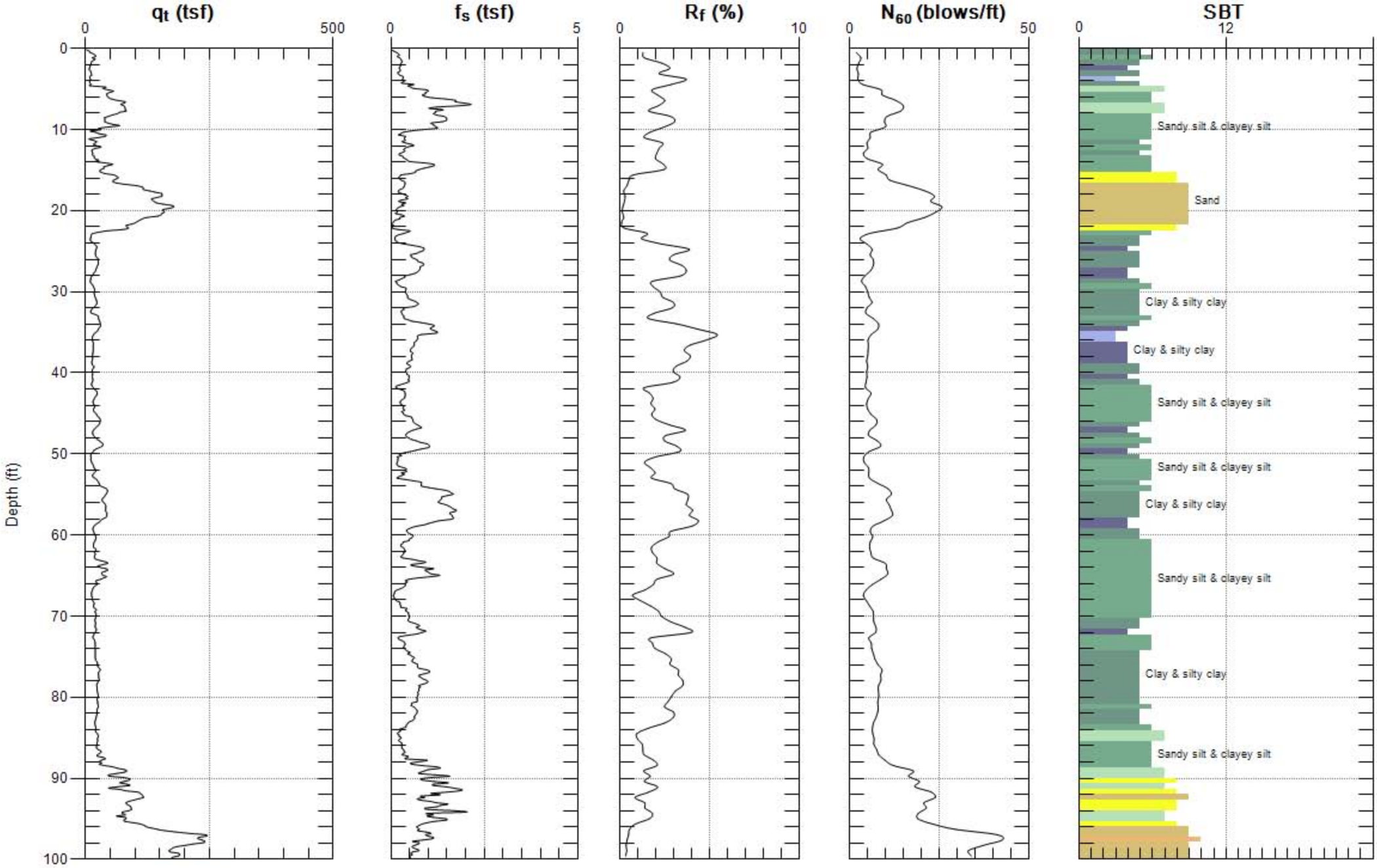
Max. Depth: 85.138 (ft)
Avg. Interval: 0.656 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG ENGEO

Site: ZERO WASTE ENERGY
Sounding: CPT-04

Engineer: P.COTTINGHAM
Date: 2010-02-02 08:11



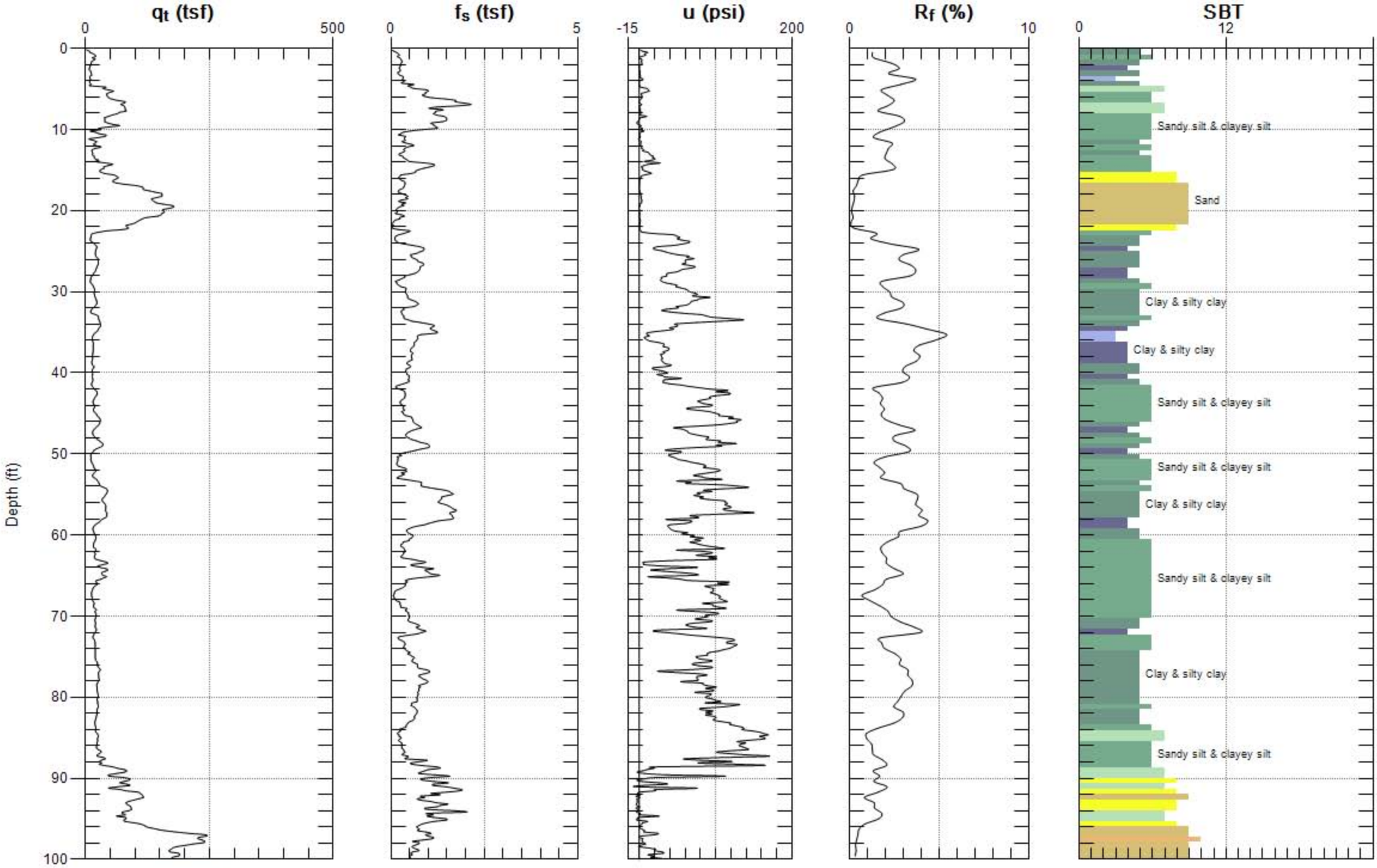
Max. Depth: 100.066 (ft)
Avg. Interval: 0.656 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG ENGEO

Site: ZERO WASTE ENERGY
Sounding: CPT-04

Engineer: P.COTTINGHAM
Date: 2010-02-02 08:11



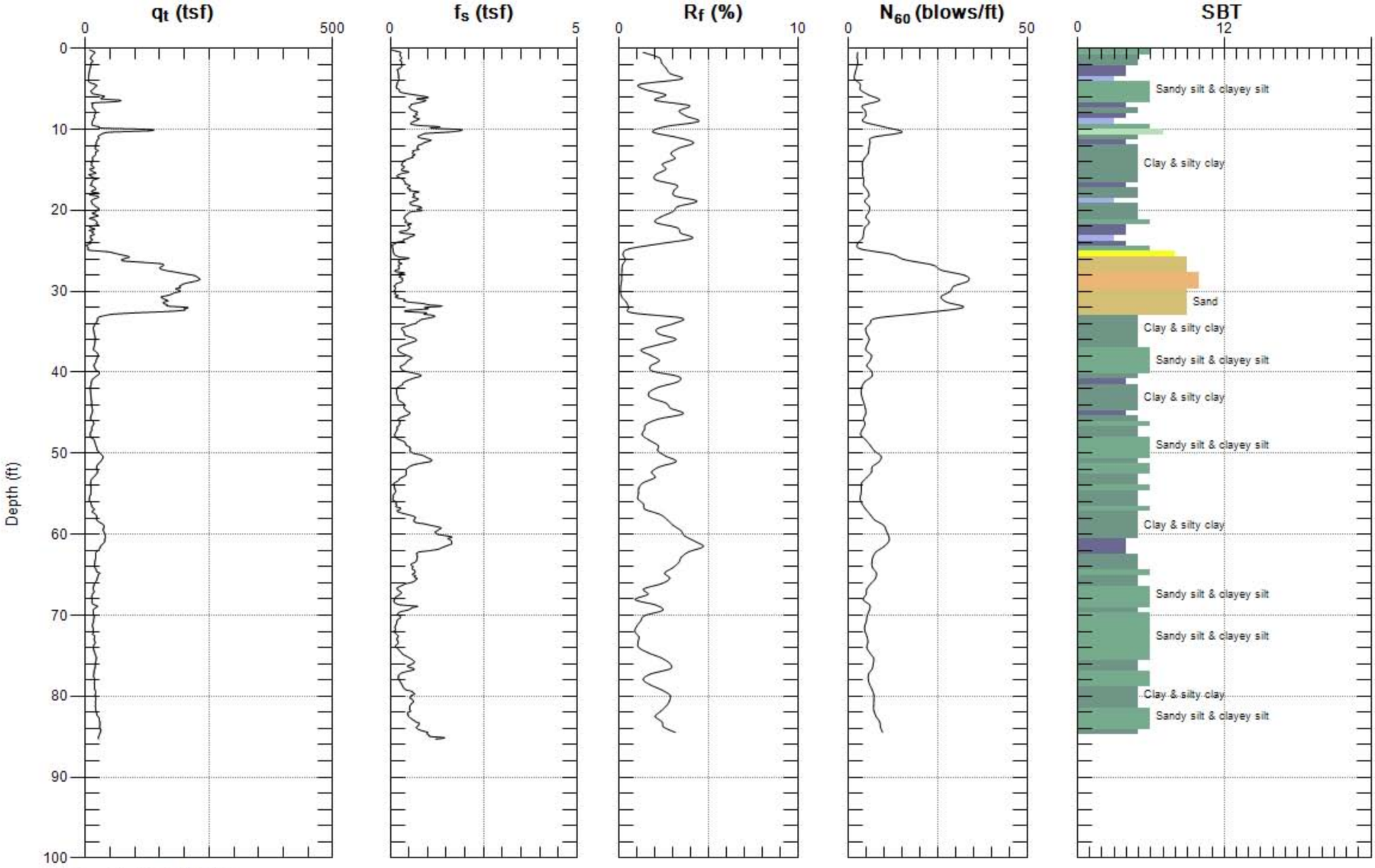
Max. Depth: 100.066 (ft)
Avg. Interval: 0.656 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG ENGEO

Site: ZERO WASTE ENERGY
Sounding: CPT-05

Engineer: P.COTTINGHAM
Date: 2010-02-02 10:30



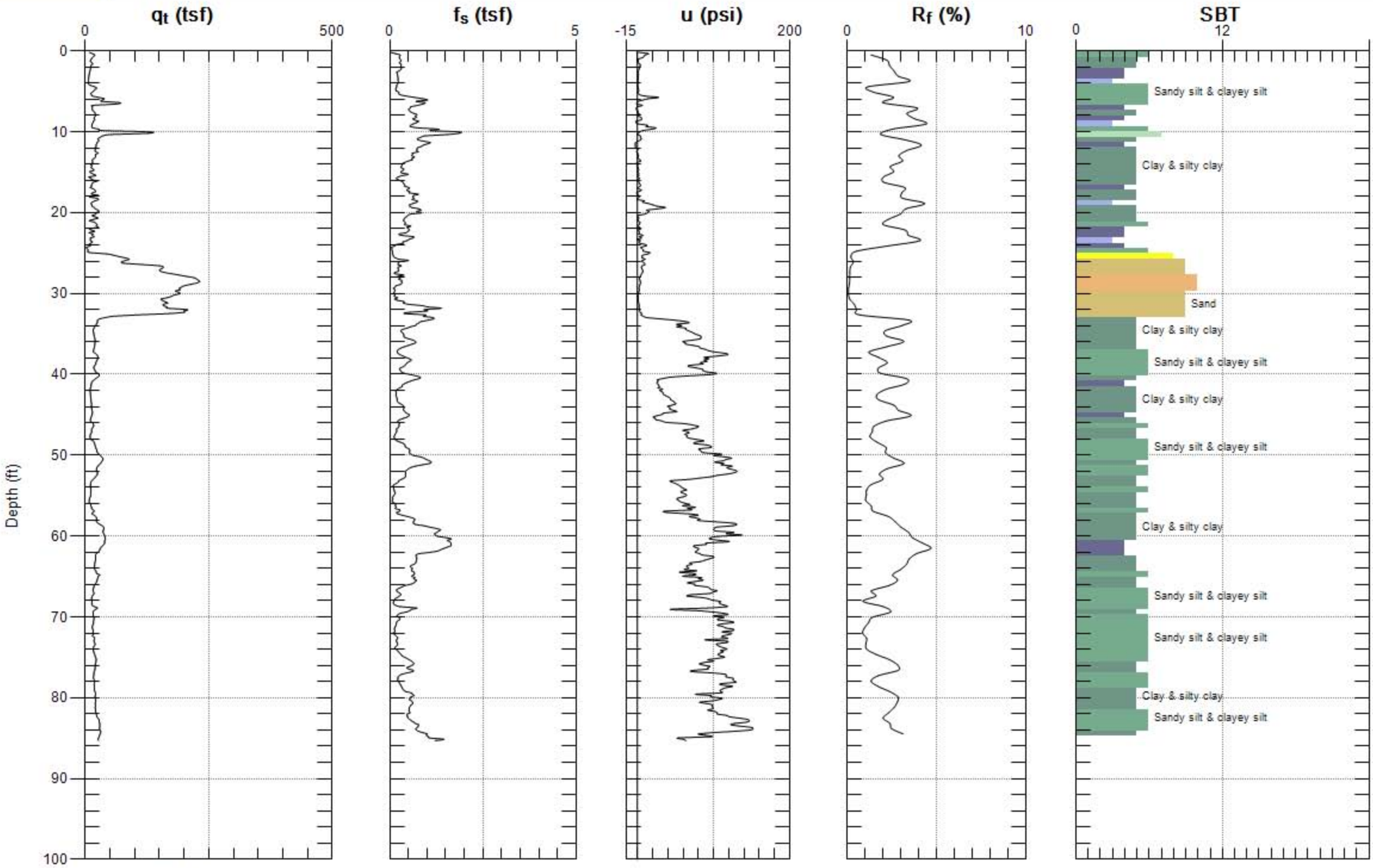
Max. Depth: 85.302 (ft)
Avg. Interval: 0.656 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG ENGEO

Site: ZERO WASTE ENERGY
Sounding: CPT-05

Engineer: P.COTTINGHAM
Date: 2010-02-02 10:30



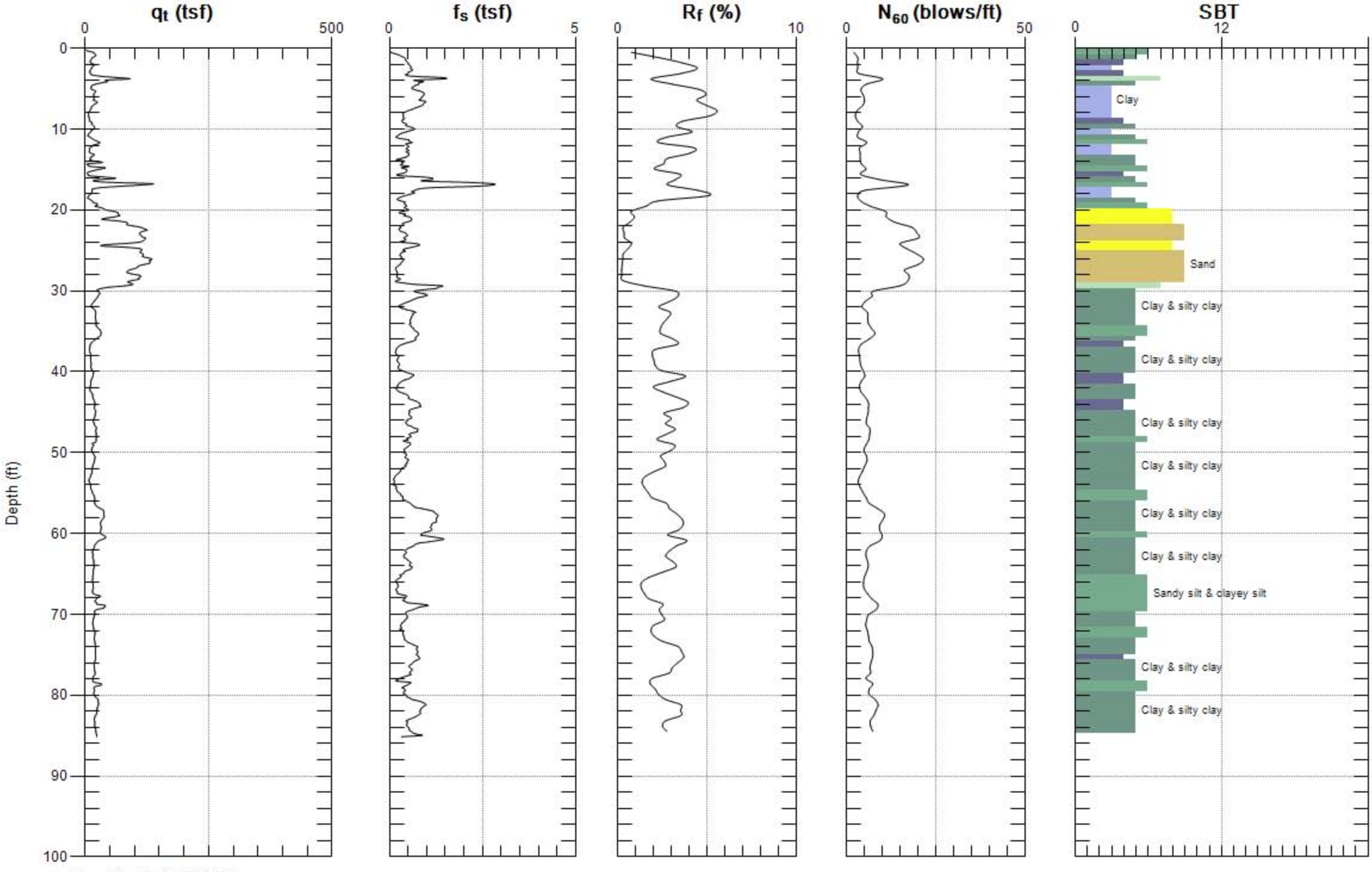
Max. Depth: 85.302 (ft)
Avg. Interval: 0.656 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG ENGEO

Site: ZERO WASTE ENERGY
Sounding: CPT-06

Engineer: P.COTTINGHAM
Date: 2010-02-02 01:10



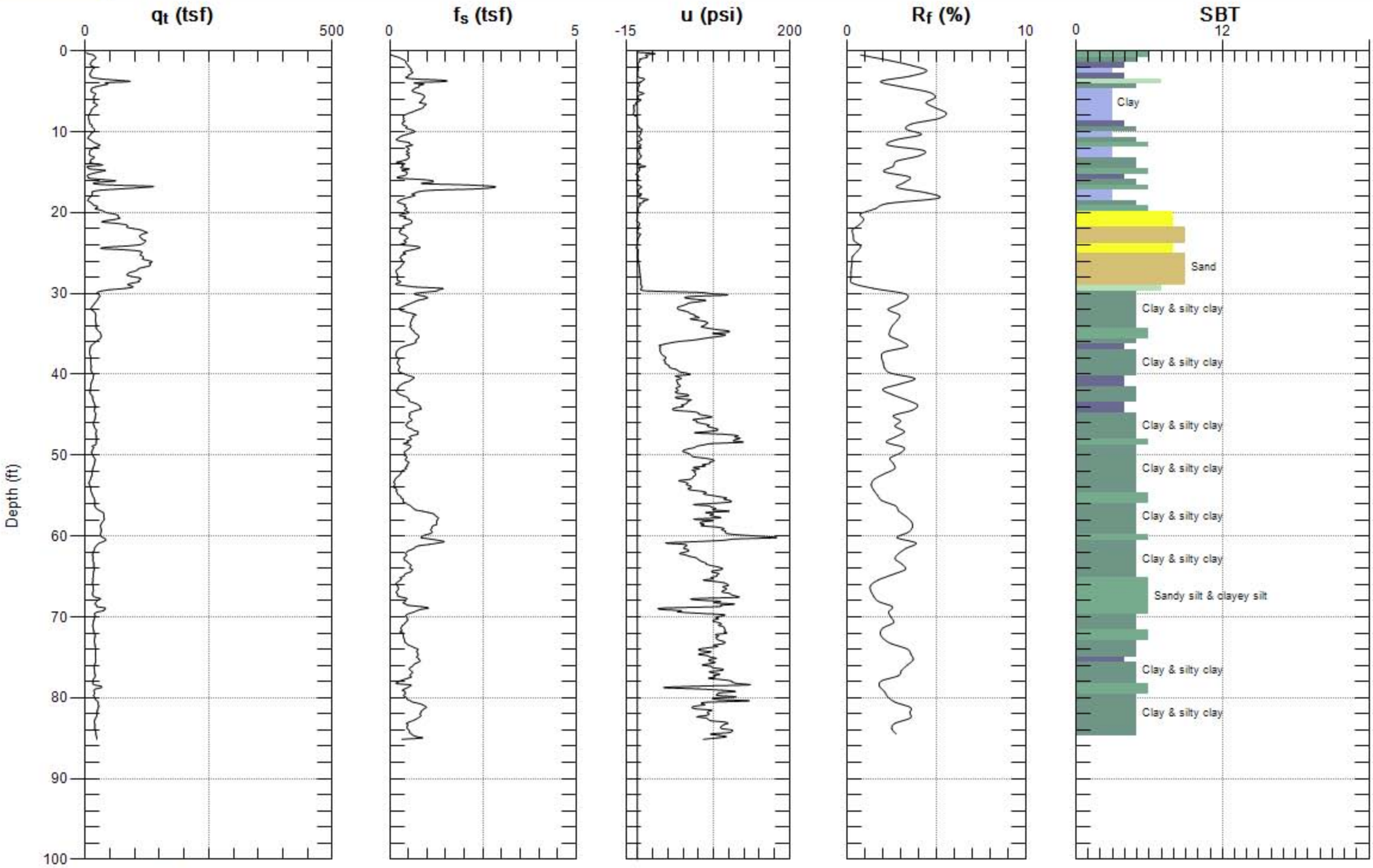
Max. Depth: 85.138 (ft)
Avg. Interval: 0.656 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG ENGEO

Site: ZERO WASTE ENERGY
Sounding: CPT-06

Engineer: P.COTTINGHAM
Date: 2010-02-02 01:10



Max. Depth: 85.138 (ft)
Avg. Interval: 0.656 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG DRILLING & TESTING, INC.
GEOTECHNICAL AND ENVIRONMENTAL INVESTIGATION SERVICES

February 8, 2010

Engeo
Attn: Paul Cottingham
6399 San Ignacio Ave., Suite 150
San Jose, California 95119

Subject: CPT Site Investigation
Zero Waste Energy Anaerobic Facility
San Jose, California
GREGG Project Number: 10-021MA - part 2

Dear Mr. Cottingham:

The following report presents the results of GREGG Drilling & Testing's Cone Penetration Test investigation for the above referenced site. The following testing services were performed:

1	Cone Penetration Tests	(CPTU)	☒
2	Pore Pressure Dissipation Tests	(PPD)	☒
3	Seismic Cone Penetration Tests	(SCPTU)	☐
4	Resistivity Cone Penetration Tests	(RCPTU)	☐
5	UVOST Laser Induced Fluorescence	(UVOST)	☐
6	Groundwater Sampling	(GWS)	☐
7	Soil Sampling	(SS)	☐
8	Vapor Sampling	(VS)	☐
9	Vane Shear Testing	(VST)	☐
10	SPT Energy Calibration	(SPTE)	☐

A list of reference papers providing additional background on the specific tests conducted is provided in the bibliography following the text of the report. If you would like a copy of any of these publications or should you have any questions or comments regarding the contents of this report, please do not hesitate to contact our office at (925) 313-5800.

Sincerely,
GREGG Drilling & Testing, Inc.

Mary Walden
Operations Manager

950 Howe Rd • Martinez, California 94553 • (925) 313-5800 • FAX (925) 313-0302
OTHER OFFICES: LOS ANGELES • HOUSTON
www.greggdrilling.com

Cone Penetration Test Sounding Summary

-Table 1-

CPT Sounding Identification	Date	Termination Depth (Feet)	Depth of Groundwater Samples (Feet)	Depth of Soil Samples (Feet)	Depth of Pore Pressure Dissipation Tests (Feet)
CPT-07	2/05/10	100	-	-	72.5
CPT-B10A	2/05/10	80	-	-	-

Bibliography

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Roberston, P.K., "Soil Classification using the Cone Penetration Test", Canadian Geotechnical Journal, Vol. 27, 1990 pp. 151-158.

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Robertson, P.K., Sully, J., Woeller, D.J., Lunne, T., Powell, J.J.M., and Gillespie, D.J., "Guidelines for Estimating Consolidation Parameters in Soils from Piezocone Tests", Canadian Geotechnical Journal, Vol. 29, No. 4, August 1992, pp. 539-550.

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Campanella, R.G. and I. Weemees, "Development and Use of An Electrical Resistivity Cone for Groundwater Contamination Studies", Canadian Geotechnical Journal, Vol. 27 No. 5, 1990 pp. 557-567.

DeGroot, D.J. and A.J. Lutenegger, "Reliability of Soil Gas Sampling and Characterization Techniques", International Site Characterization Conference - Atlanta, 1998.

Woeller, D.J., P.K. Robertson, T.J. Boyd and Dave Thomas, "Detection of Polyaromatic Hydrocarbon Contaminants Using the UVIF-CPT", 53rd Canadian Geotechnical Conference Montreal, QC October pp. 733-739, 2000.

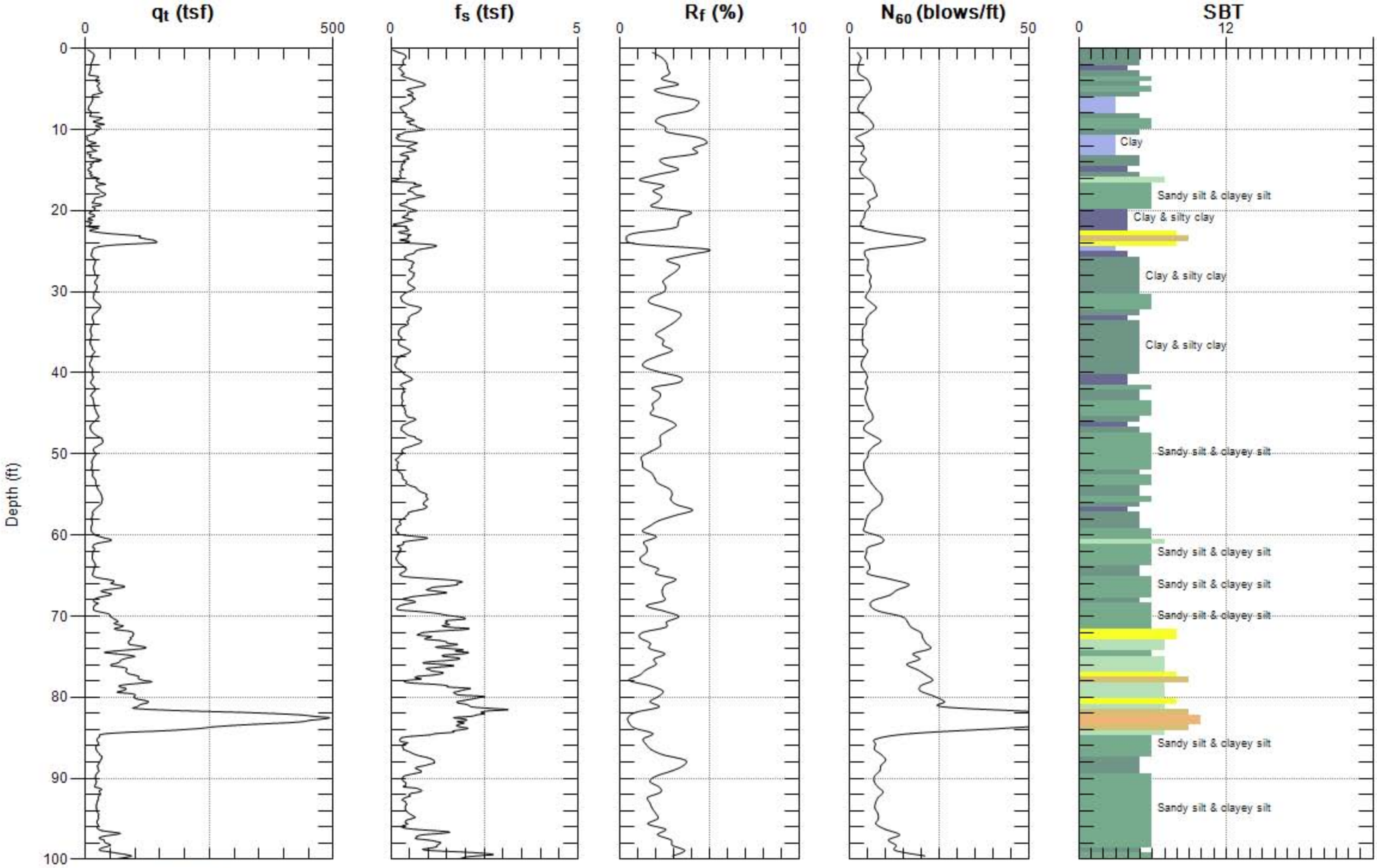
Zemo, D.A., T.A. Delfino, J.D. Gallinatti, V.A. Baker and L.R. Hilpert, "Field Comparison of Analytical Results from Discrete-Depth Groundwater Samplers" BAT EnviroProbe and QED HydroPunch, Sixth national Outdoor Action Conference, Las Vegas, Nevada Proceedings, 1992, pp 299-312.

Copies of ASTM Standards are available through www.astm.org

GREGG ENGEO

Site: ZERO WASTE ENERGY
Sounding: CPT-07

Engineer: P.COTTINGHAM
Date: 2010-02-05 01:05



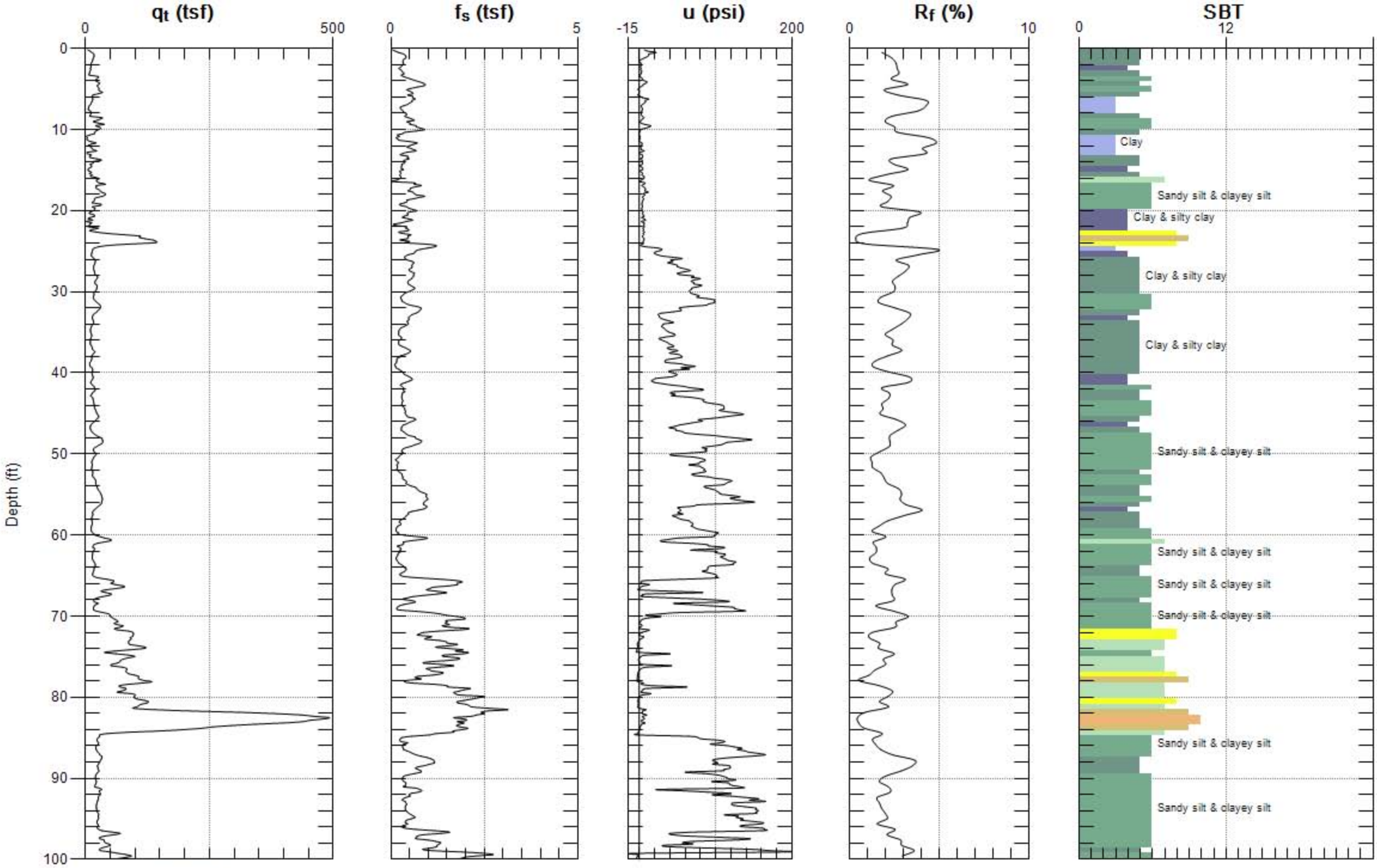
Max. Depth: 100.230 (ft)
Avg. Interval: 0.656 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG ENGEO

Site: ZERO WASTE ENERGY
Sounding: CPT-07

Engineer: P.COTTINGHAM
Date: 2010-02-05 01:05



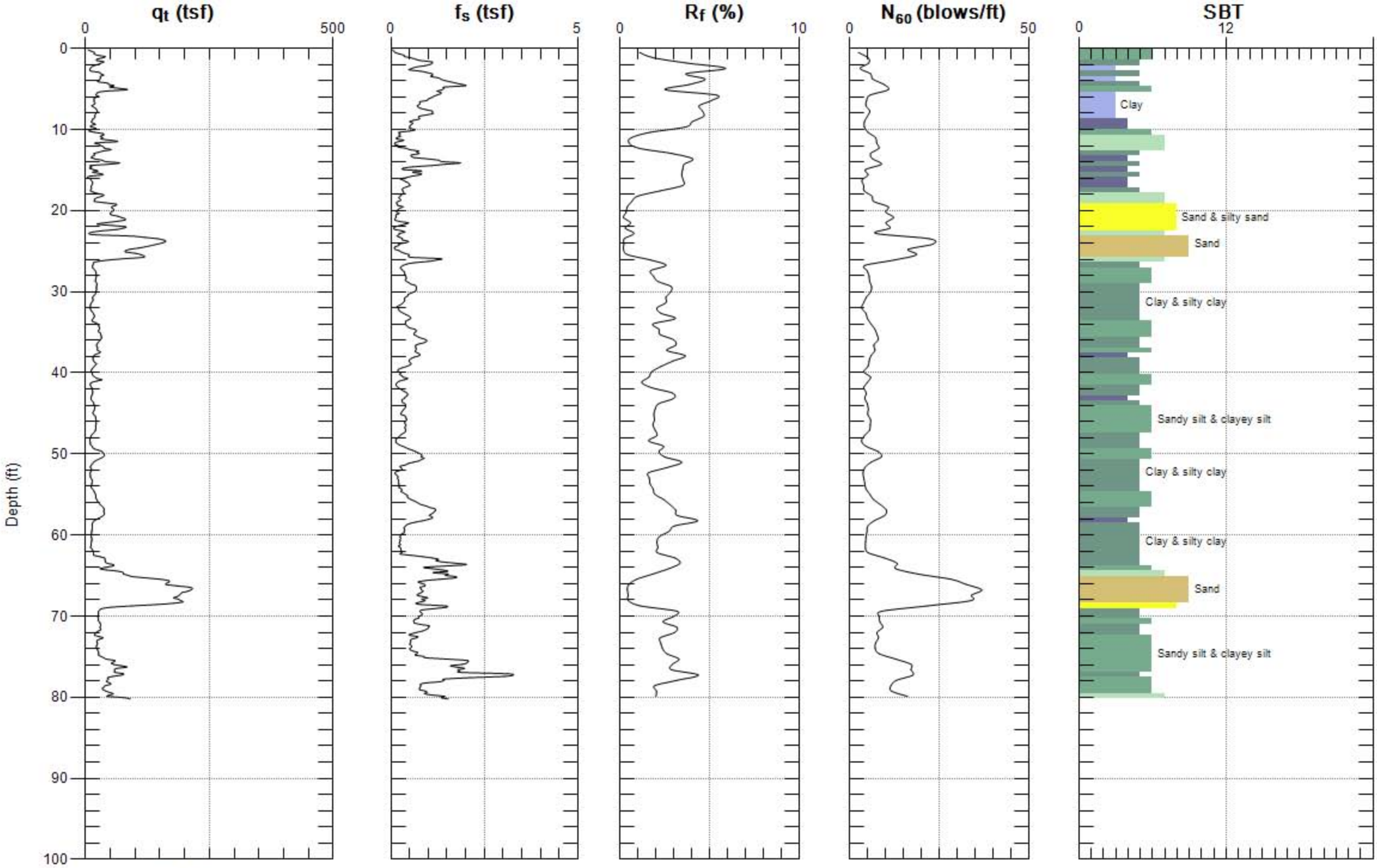
Max. Depth: 100.230 (ft)
Avg. Interval: 0.656 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG ENGEO

Site: ZERO WASTE ENERGY
Sounding: CPT-B10A

Engineer: P.COTTINGHAM
Date: 2010-02-05 11:09



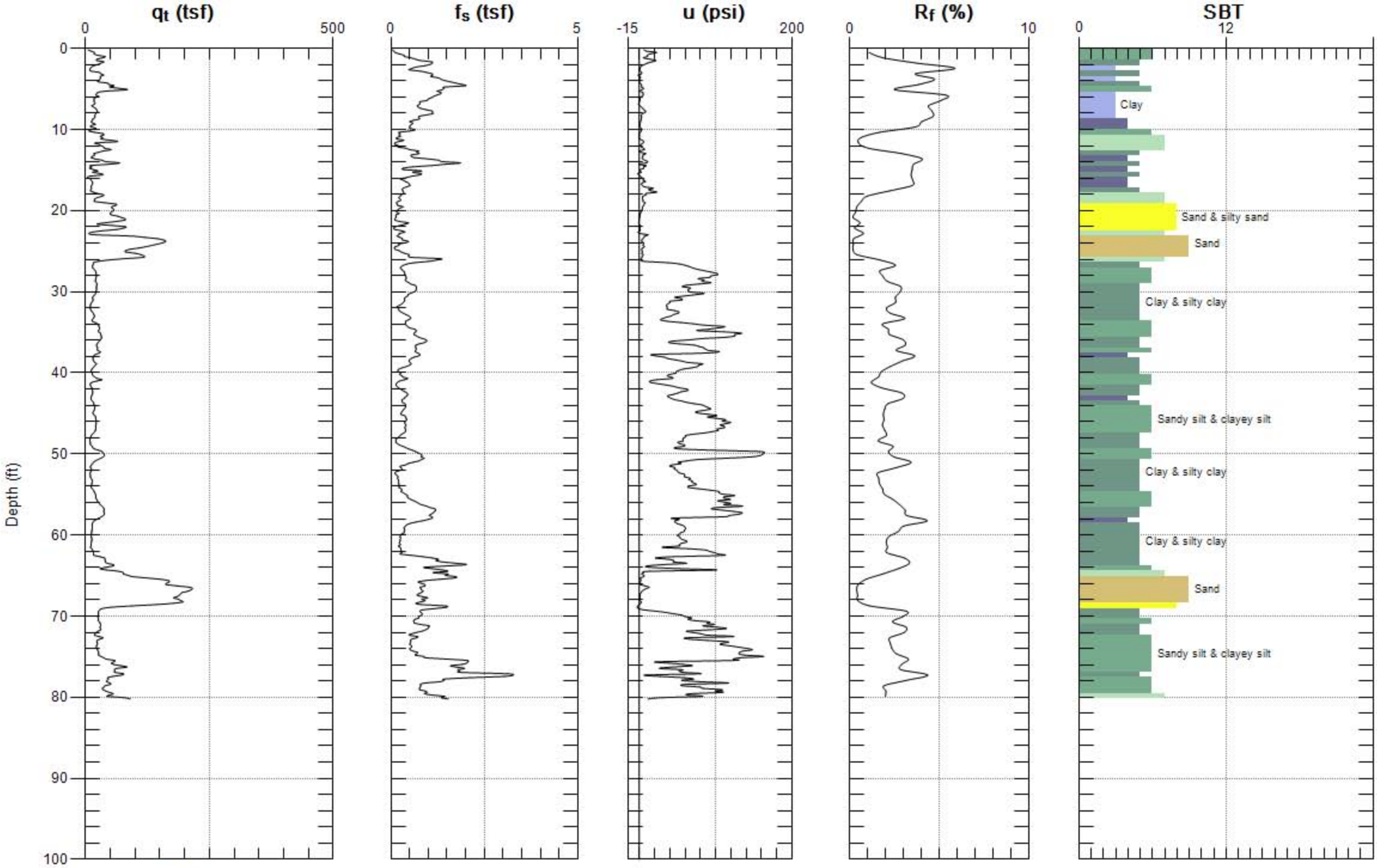
Max. Depth: 80.217 (ft)
Avg. Interval: 0.656 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG ENGEO

Site: ZERO WASTE ENERGY
Sounding: CPT-B10A

Engineer: P.COTTINGHAM
Date: 2010-02-05 11:09



Max. Depth: 80.217 (ft)
Avg. Interval: 0.656 (ft)

SBT: Soil Behavior Type (Robertson 1990)

APPENDIX C
FIELD SAMPLING PROCEDURES

FIELD PROCEDURES FOR THE NINE PAR SITE INVESTIGATION

Odor Assessment

Five upwind and five downwind odor points on the perimeter of the site were established in the office and located in the field using a Garmin 60csx GPS unit. In the field, a GEM 2000 plus with the hydrogen sulfide attachment was used to record percent methane, carbon dioxide, oxygen, and parts per million hydrogen sulfide and carbon monoxide. See Instrument specifications below for measure precision information.

Surface Emissions Monitoring

Surface emissions monitoring for methane was conducted at the closed Nine Par Landfill. Pre-monitoring preparation began by producing a map with areas (grids) to be monitored. Each area was sized to allow monitoring to be completed in approximately 30 minutes. Areas were positioned to account for site topography and physical obstructions such as fences. Walking paths were created at approximately 100 foot spacings and waypoints were established to download to the GPS unit. At the beginning and end of each day, the hydrocarbon detector (TVA 1000B PID/FID) was calibrated using EPA standard calibration gases and protocols. The clocks on GPS and TVA 1000B were synchronized. The surface of the landfill was walked according to the predetermined path while monitoring for methane with the TVA 1000B probe held approximately 1 to 3 inches above ground surface. The TVA 1000B recorded the instantaneous methane concentration at 6 second intervals. If elevated surface methane readings were identified, the technician attempted to locate origin. Upon returning to the office, the methane and location data were uploaded for analysis. The GPS locations were matched with methane concentrations based on monitoring times, and the monitoring locations and points of elevated methane concentrations were displayed on a site map for assessment.

Bar-Hole Sampling

Based on the surface gas emissions monitoring results, bar-hole sampling was conducted in areas where surface emissions measurements indicated methane gas values greater than 2 parts per million (ppm). A slide-hammer was used to drive a 5-foot rod below ground surface (bgs). The rod was removed and ¼-inch polyethylene tubing was placed 3-6 inches off the bottom; the tube was sealed at the surface with compacted native material. A GEM2000 methane meter was used to purge the soil gas until measured percent carbon dioxide, oxygen, and methane values stabilized. A Garmin 60csx GPS was used to record coordinates and the time sampled were collected at each location. All field notes and measurements were recorded on Golder standard field logs.

Exploratory Borings

A track-mounted Geoprobe 7822DT dual-tube direct push drill rig was used to advance 3.25-inch diameter DT32 drill rods lined with acetate sleeves to obtain soil samples for logging at to access water-bearing zones for sample collection. Each sleeve was split and the soils and waste were logged according to the Unified Soil Classification System. Soil colors were based on the Munsell Soil Color Chart. All drilling and sampling equipment was steam-cleaned prior to use and between borings to minimize the potential for cross-contamination. The DT32 rods were pushed to find the base of waste. After the base was identified, 8-inch diameter hollow-stem augers were advanced 2-3 feet below the base of waste into clay to create a seal between waste and subgrade soil. After creating the seal, the DT32 drill rods were advanced inside the augers to locate targeted water-bearing sands while continuously coring the soils. Once water-bearing sands were encountered, the dual-tube casing was pulled back to expose the targeted groundwater grab sample interval. A temporary ¾-inch PVC casing was lowered allowing the 0.010-inch slotted screen to coincide with the exposed sampling interval. A peristaltic pump attached to ¼-inch polyethylene and 7/16-inch silicon tubing was used to sample groundwater from inside the casing. Field parameters were measured with a YSI Multimeter, and all soil was screened with a GEM 2000, a 4-gas meter, and TVA 1000B PID/FID. A Garmin 60csx GPS was used to record coordinates for each location. After the samples were obtained, the borehole was backfilled with bentonite slurry pumped through the temporary well casing. The augers were withdrawn and cuttings were placed back in the borehole. Additional grout was pumped through the casing as the casing was withdrawn so that the ground came to the surface.

Temporary Gas Probe Sampling

A track-mounted Geoprobe 7822DT dual-tube direct push drill rig was used to advance 3.25-inch DT32 drill rods lined with acetate sleeves to obtain soil samples for logging at to access water-bearing zones for sample collection. Each sleeve was split and the soils and waste were logged according to the Unified Soil Classification System. Soil colors were based on the Munsell Soil Color Chart. Once dry waste was encountered, a 3-inch stainless steel mesh screen was attached to ¼-inch polyethylene tubing was lowered inside the DT32 rods and the waste interval was sanded. The rods were removed and borehole was sealed to the surface with hydrated 3/8-inch bentonite chips. A GEM2000 was used to purge the boring until measured percent carbon dioxide, oxygen, and methane were stable. A 6 liter Summa canister was attached to the polyethylene tubing and landfill gas sampled. If dry waste was not encountered, the borehole was abandoned and backfilled with hydrated bentonite chips to ground surface. A Garmin 60csx GPS was used to record coordinates for each location.

Leachate Well Installation

A track mounted Geoprobe 7822DT dual-tube direct push drill rig was used to advance 8-inch hollow stem augers to 5-feet bgs. From there, 3.25-inch DT32 drill rods were advanced inside the augers to the base of waste, while continuously core sampling in acetate liners and driving Shelby tube samples. A well constructed of ¾-inch prepack PVC pipe with 0.010-inch slotted screens was constructed in the open boring as the dual tube casing was pulled back. All wells were constructed with #2/12 sand, 3/8-inch bentonite chips, and an 8-inch steel locking monument set in a concrete footing. All soil was screened with a GEM 2000, a 4-gas meter and TVA 1000B PID/FID. A Garmin 60csx GPS was used to record coordinates for each location.

Liquid Sample Collection

Each sample submitted for analysis was collected according to Golder's standard sampling protocol and labeled to identify the job number, date, time of sample collection, a sample number unique to the sample, and the name of the sampling personnel. All groundwater and leachate samples were unfiltered. Immediately after the samples were collected, they were placed in an ice-cooled container and a chain of custody form was prepared. The samples were returned to Golder's office each day and placed in a secure refrigerator until they were picked up by BC Laboratory personnel. Upon receipt at BC Laboratory, the sample integrity and correct preservation were verified. The manager of the subcontracted laboratory ensured the holding times for requested analyses were not exceeded.

Instrument Specifications

The GEM 2000 instrument was calibrated following manufacturer's instructions by Golder immediately before use. The GEM 2000 pumps gas at approximately 0.3 liters per minute. It measures methane and carbon dioxide at concentrations between 0 and 100 percent with a dual wavelength infra-red cell, oxygen at concentrations between 0 and 25 percent with a hydrogen compensated cell, and 0 to 200 ppm hydrogen sulfide. The measurement accuracy for methane and carbon dioxide is 0.5 percent at concentrations between 0 and 5 percent and 1 percent between 5 and 15 percent. The accuracy for oxygen is 1 percent throughout the measurable range. The accuracy for hydrogen sulfide is plus or minus 10 percent of the full scale range.

The TVA 1000B was calibrated following the manufacturer's instructions prior to use in the field. The instrument has a 1,000 cc/min sample flow rate with an attached photoionization detector (PID) and flame ionization detector (FID). The PID uses a 10.6 eV lamp, with a dynamic range of 0.5 - 2,000 ppm isobutylene and a minimum detectable limit of 100 ppb benzene. The hydrogen-fueled FID has a dynamic range of 1 - 50,000ppm isobutylene, with a minimum detectable limit of 200 ppb benzene. Both the PID and FID operate with +/- 25% accuracy.

The YSI multimeter measures dissolved oxygen, temperature, electrical conductivity, pH, and oxidation reduction potential (ORP). Dissolved oxygen measurements range from 0 to 50 mg/L at +/- 2% accuracy. Temperature readings range from -5 to 45 deg C at +/-0.15 deg C accuracy. Conductivity measurements range from 0 to 200 mS/cm at +/- 0.5% accuracy. pH ranges from 0 to 14 pH units at +/- 0.2 pH accuracy. ORP ranges from -999 to 999 mV at +/- 20 mV accuracy.

The Garmin 60csx GPS is a 12-channel high-sensitivity receiver and data logger capable of +/- 5m accuracy.

APPENDIX D

EXPLORATORY BORING LOGS AND WELL CONSTRUCTION DETAILS

REPORT OF BOREHOLE: TP-1

PROJECT: Nine-Par
LOCATION: San Jose, CA
DRILLING SUMMARY: DT32 to 15'bgs to locate wet waste.

SHEET: 1 OF 1
DRILL RIG: Geoprobe 7822DT
LOGGED: JL DATE: 3/28/11
PROJECT NO.: 10397163-11

Drilling				Sampling		Material Description		
METHOD	RECOVERY (feet)	DEPTH feet	LAYER DEPTH	SAMPLE OR FIELD TEST	SAMPLE TYPE	GRAPHIC LOG	USCS	Soil Description
Direct Push	2/5	0		CORE			CL	SANDY CLAY (CL). Yellowish Brown 10YR 5/6, 80-85% low plasticity fines, 15-20% fine sand, soft, damp.
		2						
		4						
	4/5			CORE				@5'bgs: As above.
		6						
		8						
	4.5/5	10		CORE				@10'bgs: As above.
								@10.9'bgs: Static water level.
		12						
			12.5					Mixed waste including glass, plastic, metal, wood and rock, moist-wet.
		14						
			15.0					Bottom of boring at 15 feet. No dry waste was identified, and landfill gas was not sampled. Borehole was backfilled with hydrated bentonite chips.

Report of borehole must be read in conjunction with accompanying notes and abbreviations

REPORT OF BOREHOLE: TP-2

PROJECT: Nine-Par
LOCATION: San Jose, CA
DRILLING SUMMARY: DT32 to 15'bgs to locate dry waste. Constructed temporary gas probe at 14-15'bgs.

SHEET: 1 OF 1
DRILL RIG: Geoprobe 7822DT
LOGGED: JL DATE: 3/28/11
PROJECT NO.: 10397163-11

Drilling				Sampling		Material Description		
METHOD	RECOVERY (feet)	DEPTH feet	LAYER DEPTH	SAMPLE OR FIELD TEST	SAMPLE TYPE	GRAPHIC LOG	USCS	Soil Description
Direct Push	2.5/5	0		CORE			CL	SANDY CLAY to CLAYEY SAND (CL-SC). Yellowish Brown 10YR 5/6, 40-60% low plasticity fines, 40-60% fine sand, soft, damp.
		2						
		4						
	2.5/5			CORE				@5'bgs: As above.
		6						
			7.0				CL	SANDY CLAY (CL). Dark gray 2.5Y 4/1, 80-85% low plasticity fines, 15-20% fine sand, soft, damp.
		8						
	4.5/5	10		CORE				@10'bgs: As above.
		12						
			12.5					Mixed waste including glass, plastic, metal, wood and rock, dry-damp.
		14						
			15.0					Bottom of boring at 15 feet. Borehole was backfilled with hydrated bentonite chips after landfill gas was sampled in 6-liter Summa canister. Exposed sampling interval was 14-15'bgs.

Report of borehole must be read in conjunction with accompanying notes and abbreviations

REPORT OF BOREHOLE: TP-3

PROJECT: Nine-Par
LOCATION: San Jose, CA
DRILLING SUMMARY: DT32 to 13'bgs to locate dry waste. Constructed temporary gas probe at 12-13'bgs.

SHEET: 1 OF 1
DRILL RIG: Geoprobe 7822DT
LOGGED: JL DATE: 3/28/11
PROJECT NO.: 10397163-11

Drilling				Sampling		Material Description		
METHOD	RECOVERY (feet)	DEPTH feet	LAYER DEPTH	SAMPLE OR FIELD TEST	SAMPLE TYPE	GRAPHIC LOG	USCS	Soil Description
Direct Push	2/5	0		CORE			CL	CLAY to SANDY CLAY (CL). Yellowish Brown 10YR 5/6, 80-90% low plasticity fines, 5-15% fine sand, soft, moist.
		2						
		4						
	5/5			CORE				@5'bgs: As above.
		6						
		8						
	2/3	10		CORE				@10'bgs: As above.
		12	12.0					Mixed waste including glass, plastic, metal, wood and rock, dry-damp.
			13.0					Bottom of boring at 13 feet. Borehole was backfilled with hydrated bentonite chips after landfill gas was sampled in 6-liter Summa canister. Exposed sampling interval was 12-13'bgs.

Report of borehole must be read in conjunction with accompanying notes and abbreviations

REPORT OF BOREHOLE: TP-4

PROJECT: Nine-Par
LOCATION: San Jose, CA
DRILLING SUMMARY: DT32 to 14'bgs to locate wet waste.

SHEET: 1 OF 1
DRILL RIG: Geoprobe 7822DT
LOGGED: JL DATE: 3/29/11
PROJECT NO.: 10397163-11

Drilling				Sampling		Material Description		
METHOD	RECOVERY (feet)	DEPTH feet	LAYER DEPTH	SAMPLE OR FIELD TEST	SAMPLE TYPE	GRAPHIC LOG	USCS	Soil Description
Direct Push	2/5	0		CORE			CL	CLAY to SANDY CLAY (CL). Yellowish Brown 10YR 5/6, 80-90% low plasticity fines, 10-15% fine sand, firm, damp.
		2						
		4						
	2.5/5			CORE				
		6						@6'bgs: Color change to olive brown 2.5Y 4/3.
		8						
	3.5/4	10		CORE				@10'bgs: As above.
		12						
			13.6					@13.5'bgs: Static water level.
		14						Mixed waste including glass, plastic, metal, wood and rock, moist-wet.
			14.0					Bottom of boring at 14 feet. No dry waste was identified, and landfill gas was not sampled. Borehole was backfilled with hydrated bentonite chips.

Report of borehole must be read in conjunction with accompanying notes and abbreviations

REPORT OF BOREHOLE: TP-5

PROJECT: Nine-Par
LOCATION: San Jose, CA
DRILLING SUMMARY: DT32 to 10'bgs to locate dry waste. Constructed temporary gas probe at 9-10'bgs.

SHEET: 1 OF 1
DRILL RIG: Geoprobe 7822DT
LOGGED: JL DATE: 3/29/11
PROJECT NO.: 10397163-11

Drilling				Sampling		Material Description		
METHOD	RECOVERY (feet)	DEPTH feet	LAYER DEPTH	SAMPLE OR FIELD TEST	SAMPLE TYPE	GRAPHIC LOG	USCS	Soil Description
Direct Push	3/5	0		CORE			CL	SANDY CLAY (CL). Dark Brown 10YR 3/3, 80-85% low plasticity fines, 15-20% fine sand, firm, damp.
		2						
		4						
	1/5			CORE				@5'bgs: As above.
		6						
			7.5					Mixed waste including glass, plastic, metal, wood and rock, dry-damp. Contact based on driller input.
		8						
		10	10.0					Bottom of boring at 10 feet. Borehole was backfilled with hydrated bentonite chips after landfill gas was sampled in 6-liter Summa canister. Exposed sampling interval was 9-10'bgs.

Report of borehole must be read in conjunction with accompanying notes and abbreviations

REPORT OF BOREHOLE: TP-6

PROJECT: Nine-Par
LOCATION: San Jose, CA
DRILLING SUMMARY: DT32 to 10'bgs to locate dry waste. Constructed temporary gas probe at 9-10'bgs.

SHEET: 1 OF 1
DRILL RIG: Geoprobe 7822DT
LOGGED: JL DATE: 3/29/11
PROJECT NO.: 10397163-11

Drilling				Sampling		Material Description		
METHOD	RECOVERY (feet)	DEPTH feet	LAYER DEPTH	SAMPLE OR FIELD TEST	SAMPLE TYPE	GRAPHIC LOG	USCS	Soil Description
Direct Push	2/5	0		CORE			CL	CLAY (CL). Dark grayish brown 2.5Y 4/2, 85-90% low plasticity fines, 5-10% fine sand, firm, damp.
		2						
		4						
	4.5/5			CORE				@5'bgs: As above.
		6						
		8						
			9.0					Mixed waste including glass, plastic, metal, wood and rock, dry-damp.
		10	10.0					Bottom of boring at 10 feet. Borehole was backfilled with hydrated bentonite chips after landfill gas was sampled in 6-liter Summa canister. Exposed sampling interval was 9-10'bgs.

Report of borehole must be read in conjunction with accompanying notes and abbreviations

REPORT OF BOREHOLE: TP-7

PROJECT: Nine-Par
LOCATION: San Jose, CA
DRILLING SUMMARY: DT32 to 15'bgs to locate dry waste. Constructed temporary gas probe at 14.2-15'bgs.

SHEET: 1 OF 1
DRILL RIG: Geoprobe 7822DT
LOGGED: JL DATE: 3/29/11
PROJECT NO.: 10397163-11

Drilling				Sampling		Material Description		
METHOD	RECOVERY (feet)	DEPTH feet	LAYER DEPTH	SAMPLE OR FIELD TEST	SAMPLE TYPE	GRAPHIC LOG	USCS	Soil Description
Direct Push	3.5/5	0		CORE			CL	CLAY (CL). Dark grayish brown 2.5Y 4/2, 85-90% low plasticity fines, 5-10% fine sand, <5% fine gravel, firm, damp.
		2						
		4						
	4.5/5			CORE				@5'bgs: As above.
		6						
		8						@9'bgs: Color change to yellowish brown 10YR 5/4.
	4/5	10		CORE				@10'bgs: As above.
		12						
		14						
			14.2					Mixed waste including glass, plastic, metal, wood and rock, dry-damp.
			15.0					Bottom of boring at 15 feet. Borehole was backfilled with hydrated bentonite chips after landfill gas was sampled in 6-liter Summa canister. Exposed sampling interval was 14.2-15'bgs.

Report of borehole must be read in conjunction with accompanying notes and abbreviations

REPORT OF BOREHOLE: TP-8

PROJECT: Nine-Par
LOCATION: San Jose, CA
DRILLING SUMMARY: DT32 to 13'bgs to locate wet waste.

SHEET: 1 OF 1
DRILL RIG: Geoprobe 7822DT
LOGGED: JL DATE: 3/28/11
PROJECT NO.: 10397163-11

Drilling				Sampling		Material Description		
METHOD	RECOVERY (feet)	DEPTH feet	LAYER DEPTH	SAMPLE OR FIELD TEST	SAMPLE TYPE	GRAPHIC LOG	USCS	Soil Description
Direct Push	3.5/5	0		CORE			CL	SANDY CLAY (CL). Brown 10YR 4/3, 80-85% low plasticity fines, 15-20% fine sand, firm, damp.
		2						
		4						
	3.5/5			CORE				@5'bgs: As above.
		6						
		8						
			9.5				GP	SANDY GRAVEL (GP). Gray 10YR 6/1, 75-85% fine gravel, 15-25% fine sand. Dry, loose.
	2/3	10		CORE				@10.1'bgs: Static water level.
			11.0					Mixed waste including glass, plastic, metal, wood and rock, moist-wet.
		12						
			13.0					Bottom of boring at 13 feet. No dry waste was identified, and landfill gas was not sampled. Borehole was backfilled with hydrated bentonite chips.

Report of borehole must be read in conjunction with accompanying notes and abbreviations

REPORT OF BOREHOLE: TP-9

PROJECT: Nine-Par
LOCATION: San Jose, CA
DRILLING SUMMARY: DT32 to 15'bgs to locate wet waste.

SHEET: 1 OF 1
DRILL RIG: Geoprobe 7822DT
LOGGED: JL DATE: 3/29/11
PROJECT NO.: 10397163-11

Drilling				Sampling		Material Description		
METHOD	RECOVERY (feet)	DEPTH feet	LAYER DEPTH	SAMPLE OR FIELD TEST	SAMPLE TYPE	GRAPHIC LOG	USCS	Soil Description
Direct Push	2/5	0		CORE			CL	SANDY CLAY (CL). Brown 10YR 4/3, 80-85% low plasticity fines, 15-20% fine sand, firm, damp.
		2						
		4						
	4.5/5			CORE				@5'bgs: As above.
		6						
		8						@8.2'bgs: Color change to dark gray 10YR 4/1.
	4.5/5	10		CORE				@10'bgs: As above. @10.5'bgs: Static water level.
		12						
			12.5					Mixed waste including glass, plastic, metal, wood and rock, moist-wet.
		14						
			15.0					Bottom of boring at 15 feet. No dry waste was identified, and landfill gas was not sampled. Borehole was backfilled with hydrated bentonite chips.

Report of borehole must be read in conjunction with accompanying notes and abbreviations

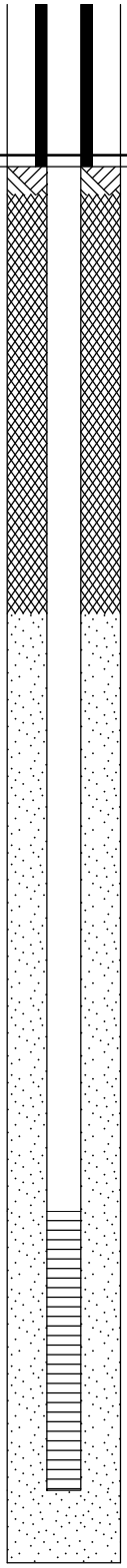
REPORT OF LEACHATE WELL: LW-1

Golder Associates

PROJECT: Nine-Par
LOCATION: San Jose, CA
DRILLING SUMMARY: Direct push with DT32 to 10'bgs to locate the top of waste. Step over, collect Shelby Tubes 2-6'bgs. HSA to 5'bgs, direct push inside augers to 25'bgs. Prepack well constructed within the augers.

GROUND SURFACE ELEVATION: 17.5 ft. MSL
SHEET: 1 OF 1
DRILL RIG: Geoprobe 7822DT
LOGGED: JL DATE: 3/7/11
PROJECT NO.: 10397163-11

Drilling						Sampling		Material Description		
METHOD	PID (ppm)	FID (ppm)	RECOVERY (feet)	DEPTH feet	LAYER DEPTH	SAMPLE OR FIELD TEST	SAMPLE TYPE	GRAPHIC LOG	USCS	Soil Description
Hollow Stem Auger	0	1	1.5/2	0		SHELBY			CL	CLAY to SANDY CLAY (CL). Yellowish Brown 10YR 5/6, 80-85% low plasticity fines, 5-15% fine sand, <5% fine 1/4"-3/4" gravel, firm, moist.
										@2-4.5'bgs bag samples were taken.
										@3'bgs color change to dark gray 2.5Y 4/1.
Direct Push	0	3	1/2			SHELBY				
			3/5	5		CORE				@4.5-5.5'bgs core samples were taken
					6.0					Mixed waste including glass, plastic, metal, wood and rock, damp-moist.
			3/5	10		CORE				
			3/5	15		CORE				@15.45'bgs: Stabilized leachate measured 3/8/11.
			3/5	20	20.0	CORE			CL	CLAY (CL). Dark gray 2.5Y 4/1, low plasticity, firm-stiff, damp-moist.
				25	25.0					Bottom of boring at 25 feet. Prepack well was constructed within the augers.



MONITORING WELL DETAILS

- concrete footing
- bentonite chip seal
- 3/4" schedule 40 pvc
- 0.010 slotted screen
- #2/12 sand

Report of borehole must be read in conjunction with accompanying notes and abbreviations

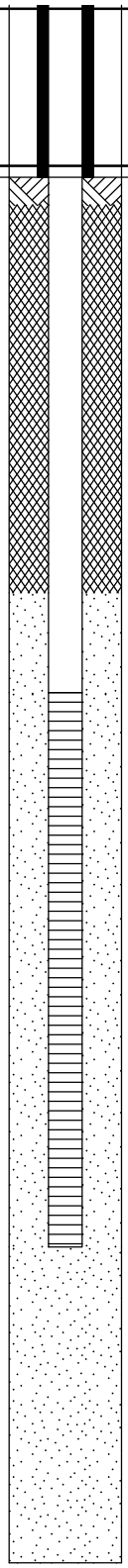
REPORT OF LEACHATE WELL: LW-2

Golder Associates

PROJECT: Nine-Par
LOCATION: San Jose, CA
DRILLING SUMMARY: Direct push with DT32 to 15'bgs to locate the top of waste. Step over, collect Shelby Tubes to 2-14'bgs. HSA to 5'bgs, direct push inside augers to 25'bgs. Prepack well constructed within the augers.

GROUND SURFACE ELEVATION: 16.3 ft. MSL
SHEET: 1 OF 1
DRILL RIG: Geoprobe 7822DT
LOGGED: JL DATE: 3/8/11
PROJECT NO.: 10397163-11

Drilling						Sampling		Material Description		
METHOD	PID (ppm)	FID (ppm)	RECOVERY (feet)	DEPTH feet	LAYER DEPTH	SAMPLE OR FIELD TEST	SAMPLE TYPE	GRAPHIC LOG	USCS	Soil Description
Hollow Stem Auger	0	1	1.5/2	0		SHELBY			CL	CLAY to SANDY CLAY (CL). Yellowish Brown 10YR 5/6 mottled with reddish brown 5YR 5/4, 80-85% low plasticity fines, 10-15% fine sand, <5% fine 1/4"-3/4" gravel, firm, moist. @2-2.5'bgs core sample was taken @2.5-4.5'bgs bag samples were taken
Direct Push	0	43	1.75/2			SHELBY				@4.5-5'bgs core sample was taken @5-9.5'bgs bag samples were taken
	0	592	1/2	5		SHELBY				
	4	275	1.5/2			SHELBY				@9'bgs color change to dark olive brown 2.5Y 3/3. @9.5-10'bgs core sample was taken
			1.5/2	10		SHELBY				
			0.75/2			SHELBY				@12-12.5'bgs core sample was taken @12.5-15'bgs bag samples were taken
			2/6		14.0	CORE				Mixed waste including glass, plastic, metal, wood and rock, damp-moist. @14.58'bgs: Stabilized leachate measured 3/9/11.
			1/5	15	19.0	CORE			CL	CLAY (CL). Dark olive brown 2.5Y 3/3, low plasticity, firm-stiff, damp-moist.
				20	21.0				SP	SAND (SP). Dark olive brown 2.5Y 3/3, fine sand, loose, wet.
				25	25.0					Bottom of boring at 25 feet. Prepack well was constructed within the augers.



MONITORING WELL DETAILS

- concrete footing
- bentonite chip seal
- 3/4" schedule 40 pvc
- 0.010 slotted screen
- #2/12 sand

Report of borehole must be read in conjunction with accompanying notes and abbreviations

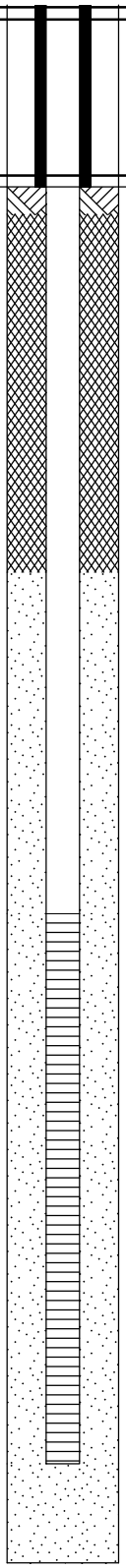
REPORT OF LEACHATE WELL: LW-3

Golder Associates

PROJECT: Nine-Par
LOCATION: San Jose, CA
DRILLING SUMMARY: Direct push with DT32 to 10'bgs to locate the top of waste. Step over, collect Shelby Tubes to 2-6'bgs. HSA to 5'bgs, direct push inside augers to 25'bgs. Prepack well constructed within the augers.

GROUND SURFACE ELEVATION: 14.5 ft. MSL
SHEET: 1 OF 1
DRILL RIG: Geoprobe 7822DT
LOGGED: JL DATE: 3/7/11
PROJECT NO.: 10397163-11

Drilling						Sampling		Material Description			
METHOD	PID (ppm)	FID (ppm)	RECOVERY (feet)	DEPTH feet	LAYER DEPTH	SAMPLE OR FIELD TEST	SAMPLE TYPE	GRAPHIC LOG	USCS	Soil Description	MONITORING WELL DETAILS
Hollow Stem Auger	0	1	1/2	0		SHELBY			CL	CLAY to SANDY CLAY (CL). Dark yellowish brown 10YR 4/4, 85-90% low plasticity fines, 5-10% fine sand, <5% fine 1/4"-3/4" gravel, firm, damp-moist. @1-3'bgs bag samples were taken	concrete footing
Direct Push	0	165	1.5/2			SHELBY				@4.5-5'bgs core sample was taken	bentonite chip seal
			2/5	5		CORE				@5.5-6'bgs bag sample was taken	
					6.3					Mixed waste including glass, plastic, metal, wood and rock, damp-moist. @6.5-7'bgs core sample was taken	
			2/5	10		CORE					3/4" schedule 40 pvc
										@12.68'bgs: Stabilized leachate measured 3/8/11.	
			2/5	15		CORE					0.010 slotted screen
			2/5	20	19.5	CORE			CL	CLAY (CL). Dark yellowish brown 10YR 4/4, low plasticity, firm-stiff, damp-moist.	
					21.0				SP	SAND (SP). Dark yellowish brown 10YR 4/4, fine sand, loose, wet.	#2/12 sand
				25	25.0					Bottom of boring at 25 feet. Prepack well was constructed within the augers.	



Report of borehole must be read in conjunction with accompanying notes and abbreviations

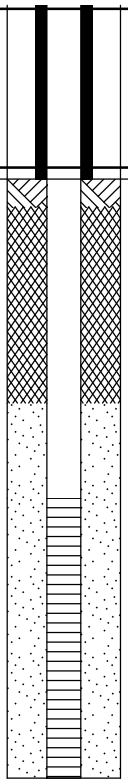
REPORT OF LEACHATE WELL: LW-4

Golder Associates

PROJECT: Nine-Par
LOCATION: San Jose, CA
DRILLING SUMMARY: Direct push with DT32 to 15'bgs to locate the bottom of waste. Step over, HSA to 5'bgs, direct push inside augers to 10.5'bgs. Prepack well constructed within the augers.

GROUND SURFACE ELEVATION: 7.0 ft. MSL
SHEET: 1 OF 1
DRILL RIG: Geoprobe 7822DT
LOGGED: JL DATE: 4/5/11
PROJECT NO.: 10397163-11

Drilling						Sampling		Material Description			
METHOD	PID (ppm)	FID (ppm)	RECOVERY (feet)	DEPTH feet	LAYER DEPTH	SAMPLE OR FIELD TEST	SAMPLE TYPE	GRAPHIC LOG	USCS	Soil Description	MONITORING WELL DETAILS
Hollow Stem Auger			1.5/5	0					CL	CLAY to SANDY CLAY (CL). Yellowish Brown 10YR 5/6, 85-95% low plasticity fines, 5-15% fine sand, damp, loose.	concrete footing bentonite chip seal
					4.2					Mixed waste including glass, plastic, metal, wood and rock, damp-moist.	
Direct Push			2/5	5							3/4" schedule 40 pvc
										@7.7'bgs: Stabilized leachate measured 4/5/11.	0.010 slotted screen
			5/5	10							
					10.2				CL	CLAY (CL). Dark brown 7.5YR 3/3, low plasticity, firm-stiff, damp-moist.	
				15							
					15.0					Bottom of boring at 15 feet. Prepack well was constructed within the augers.	



Report of borehole must be read in conjunction with accompanying notes and abbreviations

WELL CONSTRUCTION DETAILS

BORING DESIGNATION: LW-1

INSTALLATION

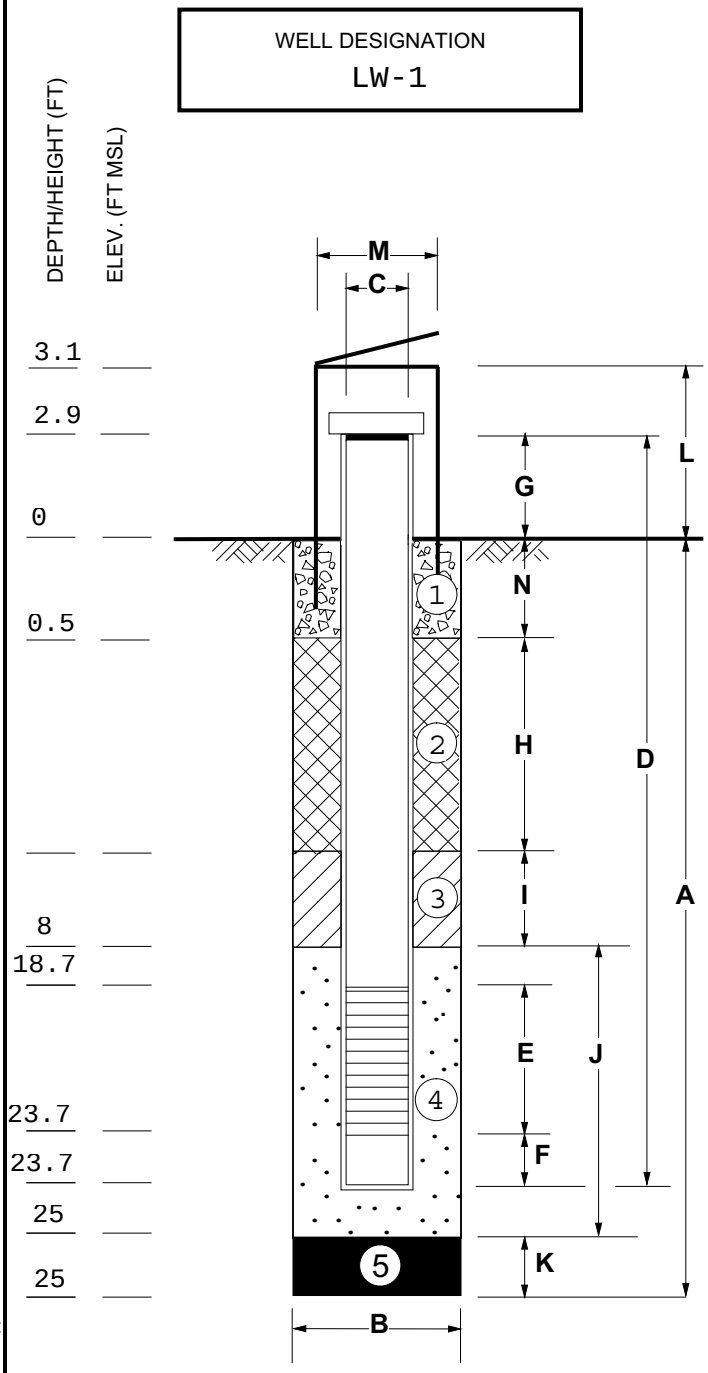
DATE: 3/7/2011 BY: Jeff Linder

DIMENSIONS

A	Total Depth of Boring (ft.)	25
B	Borehole Diameter (in.)	8
C	Well Casing Diameter (in.)	3/4
D	Well Casing Length (ft.)	26.55
E	Well Casing Slotted Interval (ft.)	5
F	Well Casing End Cap or Sump (ft.)	-
G	Well Casing Height (ft.)	2.9
H	Annular Seal Interval (ft.)	0.5-8
I	Annular Seal Interval (ft.)	-
J	Sand Pack Interval (ft.)	8-25
K	Bottom Material Interval (ft.)	-
L	Protective Cover Height (ft.)	3.1
M	Protective Cover Diameter (in.)	8
N	Annular Seal Interval (ft.)	0-0.5
	Well Centralizer Depth(s) (ft.)	-

MATERIALS DATA

Monument Footing	1	Concrete
Annular Seal	2	Bent. chips
Annular Seal	3	Bent. chips
Sand Pack	4	#2/12 sand
Bottom Material	5	-
Slotted Casing		0.010"
Well Casing		3/4" Sch. 40 pvc
Well Centralizers		-
Protective Cover		8" monument



SECTION VIEW
(not to scale)

NOTES: Prepack well constructed within the hollow stem augers

SITE: Nine-Par Landfill
PROJ. NO: 10397163-11
LOCATION: N 37 26'09.7 W 121 57'04.9
WELL PERMIT NO: N/A
T.O.C. ELEV: 20.4 ft. MSL

WELL CONSTRUCTION DETAILS

BORING DESIGNATION: LW-2

INSTALLATION

DATE: 3/8/2011 BY: Jeff Linder

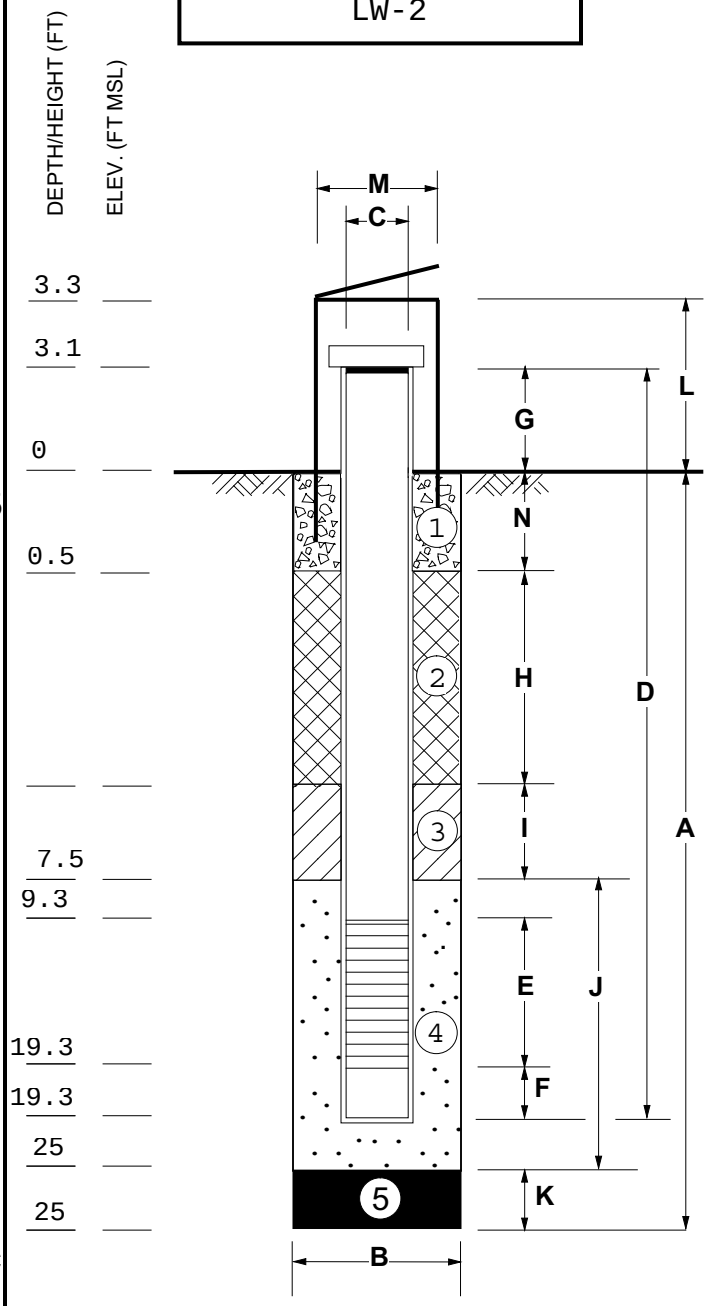
DIMENSIONS

A	Total Depth of Boring (ft.)	25
B	Borehole Diameter (in.)	8
C	Well Casing Diameter (in.)	3/4
D	Well Casing Length (ft.)	22.35
E	Well Casing Slotted Interval (ft.)	10
F	Well Casing End Cap or Sump (ft.)	-
G	Well Casing Height (ft.)	3.1
H	Annular Seal Interval (ft.)	0.5-7.5
I	Annular Seal Interval (ft.)	-
J	Sand Pack Interval (ft.)	7.5-25
K	Bottom Material Interval (ft.)	-
L	Protective Cover Height (ft.)	3.3
M	Protective Cover Diameter (in.)	8
N	Annular Seal Interval (ft.)	0-0.5
	Well Centralizer Depth(s) (ft.)	-

MATERIALS DATA

Monument Footing	1	Concrete
Annular Seal	2	Bent. chips
Annular Seal	3	Bent. chips
Sand Pack	4	#2/12 sand
Bottom Material	5	-
Slotted Casing		0.010"
Well Casing		3/4" Sch. 40 pvc
Well Centralizers		-
Protective Cover		8" monument

WELL DESIGNATION
LW-2



SECTION VIEW
(not to scale)

NOTES: Prepack well constructed within the hollow stem augers

SITE: Nine-Par Landfill
PROJ. NO: 10397163-11
LOCATION: N 37 26'07.4 W 121 56'51.8
WELL PERMIT NO: N/A
T.O.C. ELEV: 19.4 ft. MSL

WELL CONSTRUCTION DETAILS

BORING DESIGNATION: LW-3

INSTALLATION

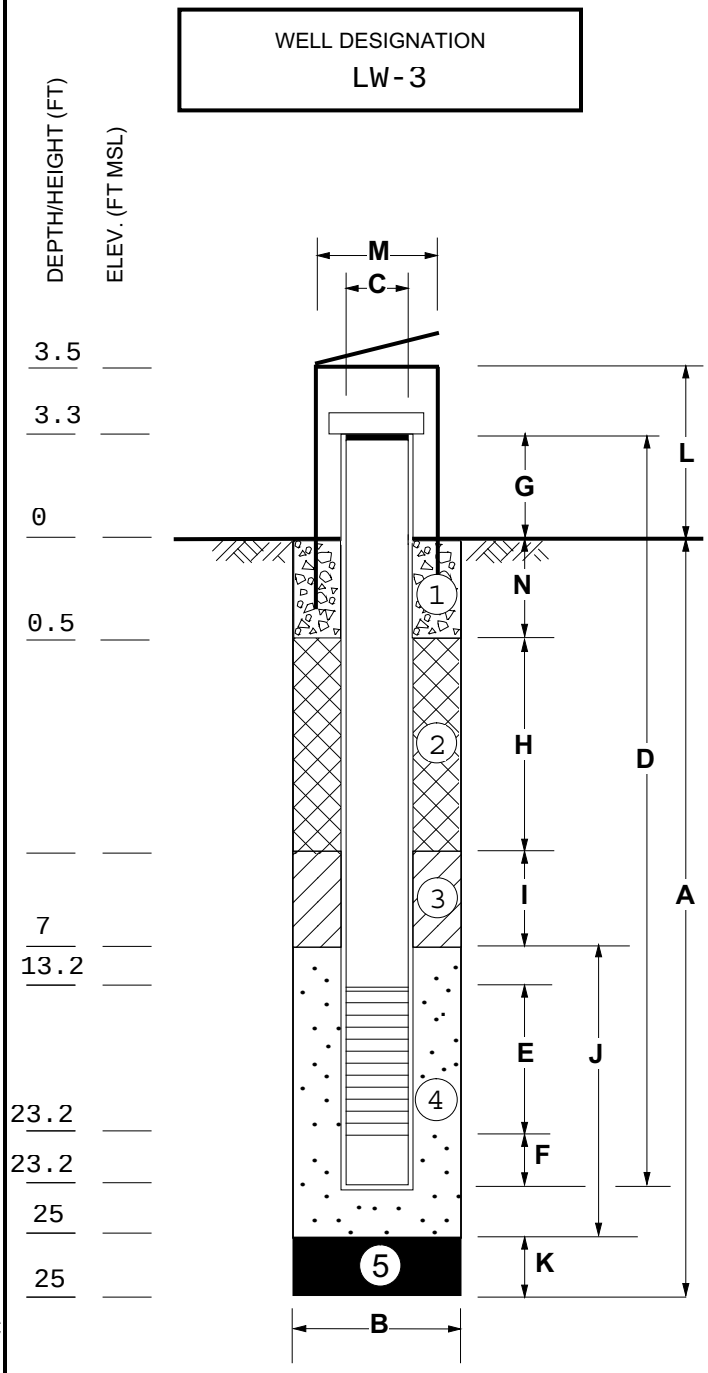
DATE: 3/7/2011 BY: Jeff Linder

DIMENSIONS

A	Total Depth of Boring (ft.)	25
B	Borehole Diameter (in.)	8
C	Well Casing Diameter (in.)	3/4
D	Well Casing Length (ft.)	26.45
E	Well Casing Slotted Interval (ft.)	10
F	Well Casing End Cap or Sump (ft.)	-
G	Well Casing Height (ft.)	3.3
H	Annular Seal Interval (ft.)	0.5-7
I	Annular Seal Interval (ft.)	-
J	Sand Pack Interval (ft.)	7-25
K	Bottom Material Interval (ft.)	-
L	Protective Cover Height (ft.)	3.5
M	Protective Cover Diameter (in.)	8
N	Annular Seal Interval (ft.)	0-0.5
	Well Centralizer Depth(s) (ft.)	-

MATERIALS DATA

Monument Footing	1	Concrete
Annular Seal	2	Bent. chips
Annular Seal	3	Bent. chips
Sand Pack	4	#2/12 sand
Bottom Material	5	-
Slotted Casing		0.010"
Well Casing		3/4" Sch. 40 pvc
Well Centralizers		-
Protective Cover		8" monument



SECTION VIEW
(not to scale)

NOTES: Prepack well constructed within the hollow stem augers

SITE: Nine-Par Landfill
PROJ. NO: 10397163-11
LOCATION: N 37 26'04.8 W 121 56'58.5
WELL PERMIT NO: N/A
T.O.C. ELEV: 17.8 ft. MSL

WELL CONSTRUCTION DETAILS

BORING DESIGNATION: LW-4

INSTALLATION

DATE: 4/5/2011 BY: Jeff Linder

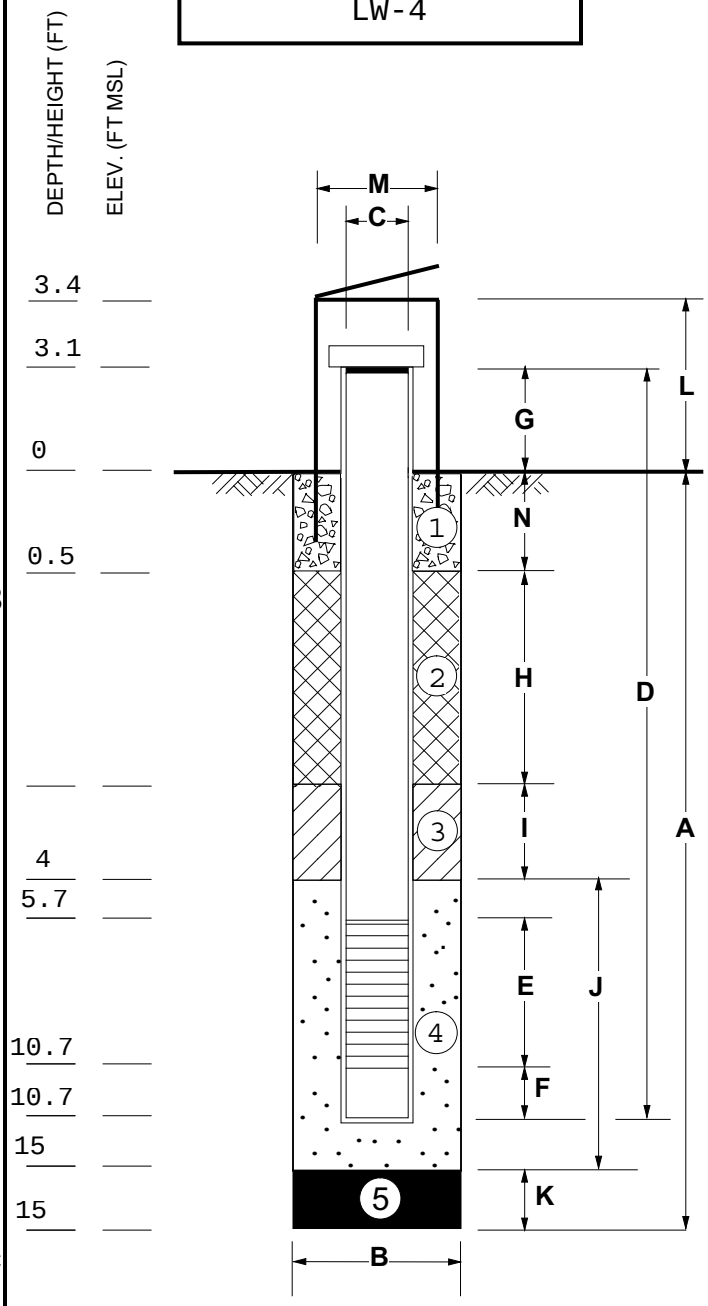
DIMENSIONS

A	Total Depth of Boring (ft.)	15
B	Borehole Diameter (in.)	8
C	Well Casing Diameter (in.)	3/4
D	Well Casing Length (ft.)	13.81
E	Well Casing Slotted Interval (ft.)	5
F	Well Casing End Cap or Sump (ft.)	-
G	Well Casing Height (ft.)	3.08
H	Annular Seal Interval (ft.)	0.5-4
I	Annular Seal Interval (ft.)	-
J	Sand Pack Interval (ft.)	4-10.73
K	Bottom Material Interval (ft.)	-
L	Protective Cover Height (ft.)	3.4
M	Protective Cover Diameter (in.)	8
N	Annular Seal Interval (ft.)	0-0.5
	Well Centralizer Depth(s) (ft.)	-

MATERIALS DATA

Monument Footing	1	Concrete
Annular Seal	2	Bent. chips
Annular Seal	3	Bent. chips
Sand Pack	4	#2/12 sand
Bottom Material	5	-
Slotted Casing		0.010"
Well Casing		3/4" Sch. 40 pvc
Well Centralizers		-
Protective Cover		8" monument

WELL DESIGNATION
LW-4



SECTION VIEW
(not to scale)

NOTES: Prepack well constructed within the hollow stem augers

SITE: Nine-Par Landfill
PROJ. NO: 10397163-11
LOCATION: N 37 26'10.0 W 121 57'10.0
WELL PERMIT NO: N/A
T.O.C. ELEV: 11.5 ft. MSL

REPORT OF BOREHOLE: EB-1

PROJECT: Nine-Par
LOCATION: San Jose, CA
DRILLING SUMMARY: Hand auger to 5'bgs, direct push with DT32 to 12'bgs to locate Bay Mud. Hollow Stem augers drilled with plug to 15'bgs, direct push inside augers to 35'bgs where temporary well was installed and groundwater was sampled.

SHEET: 1 OF 1
DRILL RIG: Geoprobe 7822DT
LOGGED: JL DATE: 2/23/11
PROJECT NO.: 10397163-11

Drilling						Sampling		Material Description		
METHOD	PID (ppm)	FID (ppm)	RECOVERY (feet)	DEPTH feet	LAYER DEPTH	SAMPLE OR FIELD TEST	SAMPLE TYPE	GRAPHIC LOG	USCS	Soil Description
Hollow Stem Auger				0		GRAB			CL	SANDY CLAY (CL). Yellowish Brown 10YR 5/6, 80-85% low plasticity fines, 15-20% fine sand, soft, moist.
					1.0					Mixed waste including glass, plastic, metal, wood and rock, moist-wet.
	52	1	4/5			CORE				
					7.0				CL	SANDY CLAY (CL). Yellowish Brown 10YR 5/6, 80-85% low plasticity fines, 15-20% fine sand, soft, moist-wet.
					8.0				CL	CLAY (CL). Yellowish Brown 10YR 5/6, low plasticity, firm-stiff, damp-moist.
	61	3	4/5	10		CORE				@10'bgs: color change to dark gray 2.5Y 4/1
					12.0				SP	SAND (SP). Yellowish Brown 10YR 5/6, fine sand at 12'bgs coarsening with depth to medium sand at 25'bgs, loose, wet.
Direct Push |	60	2	4/5			CORE				
	33	4	4/5	20		CORE				
			4/5		25.0	CORE			CL	CLAY (CL). Yellowish Brown 10YR 5/6, low plasticity, firm-stiff, damp-moist.
			4/5	30		CORE				
					35.0					Bottom of boring at 35 feet. Borehole was backfilled with neat cement grout after groundwater was sampled in a temporary well with a peristaltic pump. Exposed sampling interval was 15-35'bgs.

Report of borehole must be read in conjunction with accompanying notes and abbreviations

REPORT OF BOREHOLE: EB-2

PROJECT: Nine-Par
LOCATION: San Jose, CA
DRILLING SUMMARY: Hand auger to 5'bgs, direct push with DT32 to 15'bgs to locate Bay Mud. Hollow Stem augers drilled with plug to 10'bgs, direct push inside augers to 26.5'bgs where temporary well was installed and groundwater was sampled.

SHEET: 1 OF 1
DRILL RIG: Geoprobe 7822DT
LOGGED: JL DATE: 2/24/11
PROJECT NO.: 10397163-11

Drilling					Sampling			Material Description	
METHOD	PID (ppm)	FID (ppm)	RECOVERY (feet)	DEPTH feet	LAYER DEPTH	SAMPLE OR FIELD TEST	SAMPLE TYPE	GRAPHIC LOG	USCS	Soil Description
Hollow Stem Auger				0		GRAB			CL	SANDY CLAY (CL). Yellowish Brown 10YR 5/6, 80-85% low plasticity fines, 15-20% fine sand, soft, moist.
					1.0					Mixed waste including glass, plastic, metal, wood and rock, moist-wet.
	30	2	4/5		5.0	CORE			CL	SANDY CLAY (CL). Olive Gray 5Y 4/2, 80-85% low plasticity fines, 15-20% fine sand, soft, moist-wet.
					7.0				CL	CLAY (CL). Olive Gray 5Y 4/2, low plasticity, firm-stiff, damp-moist.
Direct push |	42	1	3/5	10		CORE				@12'bgs: Color change to yellowish brown 10YR 5/6.
	40	2	5/5		14.5	CORE			CL	SANDY CLAY (CL). Olive Gray 5Y 4/2, 80-85% low plasticity fines, 15-20% fine sand, soft, moist-wet.
					16.5				SP	SAND (SP). Yellowish brown 10YR 5/6, fine sand at 16.5'bgs coarsening with depth to medium sand at 21.5'bgs, loose, wet.
	31	1	4/5	20		CORE				
					21.5				CL	CLAY (CL). Yellowish Brown 10YR 5/6, low plasticity, firm-stiff, damp-moist.
	30	2	4/5			CORE				
					26.5					Bottom of boring at 26.5 feet. Borehole was backfilled with neat cement grout after groundwater was sampled in a temporary well with a peristaltic pump. Exposed sampling interval was 10-26.5'bgs.

Report of borehole must be read in conjunction with accompanying notes and abbreviations

REPORT OF BOREHOLE: EB-3

PROJECT: Nine-Par
LOCATION: San Jose, CA
DRILLING SUMMARY: Hand auger to 5'bgs, direct push with DT32 to 12'bgs to locate Bay Mud. Hollow Stem augers drilled with plug to 15'bgs, direct push inside augers to 40'bgs where temporary well was installed and groundwater was sampled.

SHEET: 1 OF 1
DRILL RIG: Geoprobe 7822DT
LOGGED: JL DATE: 2/25/11
PROJECT NO.: 10397163-11

Drilling						Sampling		Material Description		
METHOD	PID (ppm)	FID (ppm)	RECOVERY (feet)	DEPTH feet	LAYER DEPTH	SAMPLE OR FIELD TEST	SAMPLE TYPE	GRAPHIC LOG	USCS	Soil Description
Hollow Stem Auger				0		GRAB			CL	SANDY CLAY (CL). Yellowish Brown 10YR 5/6, 80-85% low plasticity fines, 15-20% fine sand, soft, moist.
					1.0					Mixed waste including glass, plastic, metal, wood and rock, moist-wet
	0	3	4/5			CORE				
	1.5	3	2/5	10		CORE				
					12.5				CL	CLAY (CL). Yellowish Brown 10YR 5/6, low plasticity, firm-stiff, damp-moist.
Direct Push |	1.5	3	4/5			CORE				
					18.0				CL	SANDY CLAY (CL). Yellowish Brown 10YR 5/6, 80-85% low plasticity fines, 15-20% fine sand, soft, moist-wet.
	1.5	3.5	4/5	20	20.0	CORE			CL	CLAY (CL). Yellowish Brown 10YR 5/6, low plasticity, firm-stiff, damp-moist.
	2	3.5	4/5			CORE				@25'bgs: As above.
	2	4	4/5	30		CORE				@30'bgs: As above.
	1.5	3	5/5			CORE				@35'bgs: As above.
				40	40.0					Bottom of boring at 40 feet. Borehole was backfilled with neat cement grout after groundwater was sampled in a temporary well with a peristaltic pump. Exposed sampling interval was 15-40'bgs.

Report of borehole must be read in conjunction with accompanying notes and abbreviations

REPORT OF BOREHOLE: EB-4

PROJECT: Nine-Par
LOCATION: San Jose, CA
DRILLING SUMMARY: Hand auger to 5'bgs, direct push with DT32 to 15'bgs to locate Bay Mud. Hollow Stem augers drilled with plug to 14'bgs, direct push inside augers to 40'bgs where temporary well was installed and groundwater was sampled.

SHEET: 1 OF 1
DRILL RIG: Geoprobe 7822DT
LOGGED: JL DATE: 2/25/11
PROJECT NO.: 10397163-11

Drilling						Sampling		Material Description		
METHOD	PID (ppm)	FID (ppm)	RECOVERY (feet)	DEPTH feet	LAYER DEPTH	SAMPLE OR FIELD TEST	SAMPLE TYPE	GRAPHIC LOG	USCS	Soil Description
Hollow Stem Auger				0		GRAB			CL	SANDY CLAY (CL). Yellowish Brown 10YR 5/6, 80-85% low plasticity fines, 15-20% fine sand, soft, moist.
					1.0					Mixed waste including glass, plastic, metal, wood and rock, moist-wet.
	1	7.5	4/5			CORE				
	1	6	2/5	10		CORE				
					11.5				CL	CLAY (CL). Yellowish Brown 10YR 5/6, low plasticity, firm-stiff, damp-moist.
Direct Push	2	5.5	3/5			CORE				
					18.5				CL	SANDY CLAY (CL). Yellowish Brown 10YR 5/6, 80-85% low plasticity fines, 15-20% fine sand, soft, moist-wet.
	1	3.5	4/5	20	20.0	CORE			CL	CLAY (CL). Yellowish Brown 10YR 5/6, low plasticity firm-stiff, damp-moist.
	1	3	4/5			CORE				
					27.5				CL	SANDY CLAY (CL). Olive Brown 2.5Y 4/3, 80-85% low plasticity fines, 15-20% fine sand, soft, moist-wet.
	1	3.5	4/5	30	30.0	CORE			SP	SAND (SP). Olive Brown 2.5Y 4/3, fine sand at 30'bgs coarsening with depth to medium sand at 35'bgs, loose, wet.
	0.5	3.5	4/5		35.0	CORE			CL	CLAY (CL). Yellowish Brown 10YR 5/6, firm-stiff, damp-moist.
				40	40.0					Bottom of boring at 40 feet. Borehole was backfilled with neat cement grout after groundwater was sampled in a temporary well with a peristaltic pump. Exposed sampling interval was 14-40'bgs.

Report of borehole must be read in conjunction with accompanying notes and abbreviations

REPORT OF BOREHOLE: EB-5

PROJECT: Nine-Par
LOCATION: San Jose, CA
DRILLING SUMMARY: Hand auger to 5'bgs, direct push with DT32 to 10'bgs to locate Bay Mud. Hollow Stem augers drilled with plug to 10'bgs, direct push inside augers to 40'bgs where temporary well was installed and groundwater was sampled.

SHEET: 1 OF 1
DRILL RIG: Geoprobe 7822DT
LOGGED: JL DATE: 2/28/11
PROJECT NO.: 10397163-11

Drilling						Sampling		Material Description		
METHOD	PID (ppm)	FID (ppm)	RECOVERY (feet)	DEPTH feet	LAYER DEPTH	SAMPLE OR FIELD TEST	SAMPLE TYPE	GRAPHIC LOG	USCS	Soil Description
Hollow Stem Auger				0		GRAB			CL	SANDY CLAY (CL). Yellowish Brown 10YR 5/6, 80-85% low plasticity fines, 15-20% fine sand, soft, moist.
					1.0					Mixed waste including glass, plastic, metal, wood and rock, moist-wet.
			4/5			CORE				
					7.5				CL	CLAY (CL). Yellowish Brown 10YR 5/6, low plasticity, firm-stiff, damp-moist.
Direct Push |	38	2	2/5	10		CORE				
			3/5			CORE				@15'bgs: As above.
					17.0				CL	CLAY to SANDY CLAY (CL). Olive Brown 2.5Y 4/3, 85-90% low plasticity fines, 10-15% fine sand, soft, moist-wet.
					18.0				CL	CLAY (CL). Olive Brown 2.5Y 4/3, low plasticity, firm-stiff, damp-moist.
			4/5	20		CORE				
			4/5			CORE				@25'bgs: As above.
			2.5/5	30		CORE				@30'bgs: As above.
					34.0				SC	SANDY CLAY (CL) TO CLAYEY SAND (SC). Olive Brown 2.5Y 4/3, 50% low plasticity fines, 50% fine sand, soft, moist-wet.
			4/5		35.0	CORE			CL	CLAY (CL). Olive Brown 2.5Y 4/3, low plasticity, firm-stiff, damp-moist.
				40	40.0					Bottom of boring at 40 feet. Borehole was backfilled with neat cement grout after groundwater was sampled in a temporary well with a peristaltic pump. Exposed sampling interval was 10-40'bgs.

Report of borehole must be read in conjunction with accompanying notes and abbreviations

REPORT OF BOREHOLE: EB-6

PROJECT: Nine-Par
LOCATION: San Jose, CA
DRILLING SUMMARY: Hand auger to 5'bgs, direct push to 10', HSA drilled w/ plug to 10'. Direct push inside augers to 15' where temp. well was set and sampled w/ peri. pump. Direct push advanced to 40', and casing to 19'bgs targeting second water bearing zone

SHEET: 1 OF 1
DRILL RIG: Geoprobe 7822DT
LOGGED: JL DATE: 2/28/11
PROJECT NO.: 10397163-11

Drilling						Sampling		Material Description		
METHOD	PID (ppm)	FID (ppm)	RECOVERY (feet)	DEPTH feet	LAYER DEPTH	SAMPLE OR FIELD TEST	SAMPLE TYPE	GRAPHIC LOG	USCS	Soil Description
Hollow Stem Auger				0		GRAB			CL	SANDY CLAY (CL). Yellowish Brown 10YR 5/6, 80-85% low plasticity fines, 15-20% fine sand, soft, moist.
					1.0					Mixed waste including glass, plastic, metal, wood and rock, moist-wet.
			4/5			CORE				
					8.0				CL	CLAY to SANDY CLAY (CL). Dark gray 10YR 4/1, 70-90% low plasticity fines, 10-30% fine sand, soft, moist-wet.
	30	50	5/5	10	10.0	CORE			SP	SAND (SP). Dark gray 10YR 4/1, fine sand at 10'bgs coarsening with depth to medium grained at 16'bgs, loose, wet.
	50	11	5/5			CORE				
					16.0				CL	CLAY to SANDY CLAY (CL). Yellowish brown 10YR 5/6, 85-95% low plasticity fines, 5-15% fine sand, soft, moist.
					17.3				SC	SANDY CLAY TO CLAYEY SAND (SC). Yellowish brown 10YR 5/6, 50% low plasticity fines, 50% fine sand, soft, moist-wet.
			4/5	20		CORE				
					21.0				CL	CLAY (CL). Yellowish Brown 10YR 5/6, firm-stiff, damp-moist.
Direct Push			4/5			CORE				
			4/5	30		CORE				@30'bgs: As above.
			4/5			CORE				@35'bgs: As above.
				40	40.0					Bottom of boring at 40 feet. Borehole was backfilled with neat cement grout after groundwater was sampled in a temporary well with a peristaltic pump. Exposed sampling intervals were 10-15'bgs and 19-40'bgs.

Report of borehole must be read in conjunction with accompanying notes and abbreviations

REPORT OF BOREHOLE: EB-7

PROJECT: Nine-Par
LOCATION: San Jose, CA
DRILLING SUMMARY: Direct push with DT22 to 30'bgs. Pull back casing to 23'bgs and set temporary well inside the casing. Sampled with a check-valve.

SHEET: 1 OF 1
DRILL RIG: Geoprobe 7822DT
LOGGED: JL DATE: 3/29/11
PROJECT NO.: 10397163-11

Drilling						Sampling		Material Description		
METHOD	PID (ppm)	FID (ppm)	RECOVERY (feet)	DEPTH feet	LAYER DEPTH	SAMPLE OR FIELD TEST	SAMPLE TYPE	GRAPHIC LOG	USCS	Soil Description
Direct Push			1.5/5	0		CORE			CL	SANDY CLAY (CL). Yellowish Brown 10YR 5/6, 80-85% low plasticity fines, 15-20% fine sand, soft, moist.
					1.0					Mixed waste including glass, plastic, metal, wood and rock, moist-wet.
			2/5			CORE				
					6.5				CL	CLAY (CL). Yellowish Brown 10YR 5/6, 90-95% low plasticity fines, 5-10% fine sand. firm-stiff, damp-moist.
			3.5/4	10		CORE				
			3.5/5			CORE				
					16.5				CL	SANDY CLAY (CL). Yellowish Brown 10YR 5/6, 60-80% low plasticity fines, 20-40% fine sand, soft, moist-wet.
					17.5				CL	CLAY (CL). Yellowish Brown 10YR 5/6, 90-95% low plasticity fines, 5-10% fine sand. firm-stiff, damp-moist.
			3.5/5	20		CORE				
			4/4			CORE				
					26.5				CL	SANDY CLAY (CL). Yellowish Brown 10YR 5/6, 65-75% low plasticity fines, 25-35% fine sand, soft, moist-wet.
			2/2		28.0	CORE			CL	CLAY (CL). Yellowish Brown 10YR 5/6, low plasticity, firm-stiff, damp-moist.
				30	30.0					Bottom of boring at 30 feet. Borehole was backfilled with neat cement grout after groundwater was sampled in a temporary well with a check valve. Exposed sampling interval was 23-30'bgs.

Report of borehole must be read in conjunction with accompanying notes and abbreviations

APPENDIX E
FIELD MEASUREMENTS

Nine Par Landfill
Surface Emissions Monitoring Data

Grid 1 Results			Grid 2 Results			Grid 3 Results			Grid 4 Results			Grid 5 Results		
Latitude	Longitude	Methane (ppm)	Latitude	Longitude	Methane (ppm)	Latitude	Longitude	Methane (ppm)	Latitude	Longitude	Methane (ppm)	Latitude	Longitude	Methane (ppm)
37.43565	121.9463	-14	37.43625	121.9487	0.69	37.43437	121.9487	-0.67	37.4346	121.9508	-0.56	37.4351	121.9499	-2.41
37.43567	121.9463	-15	37.43625	121.9487	0.8	37.43435	121.9488	-0.64	37.4346	121.9508	-0.52	37.43515	121.9499	-1.19
37.43567	121.9463	-14	37.43625	121.9487	0.69	37.43435	121.9488	-0.6	37.43458	121.9508	-0.56	37.4352	121.9499	-1
37.43567	121.9463	-14	37.43625	121.9487	0	37.43432	121.9488	-0.07	37.43458	121.9508	-0.6	37.43523	121.9498	-0.83
37.43567	121.9463	-13	37.43625	121.9486	0.37	37.4343	121.9489	0.96	37.43458	121.9509	-0.48	37.43527	121.9498	-0.96
37.43568	121.9462	-13	37.43625	121.9486	0.41	37.43428	121.9489	-0.57	37.43458	121.9509	-0.51	37.4353	121.9498	-1.03
37.43568	121.9462	-13	37.43625	121.9486	0.26	37.43427	121.9489	-0.59	37.43455	121.9509	-0.4	37.43527	121.9499	-0.96
37.4357	121.9462	-13	37.43625	121.9486	0.3	37.43425	121.949	-0.54	37.43455	121.9509	-0.45	37.43527	121.9499	-0.93
37.4357	121.9462	-13	37.43625	121.9486	0.6	37.43423	121.9491	-0.5	37.43455	121.9509	-0.44	37.43527	121.95	-0.9
37.43572	121.9462	-13	37.43625	121.9485	0.52	37.43422	121.9491	-0.59	37.43455	121.9509	-0.26	37.43527	121.9501	-1.29
37.43572	121.9462	-13	37.43625	121.9485	0.25	37.4342	121.9492	-0.62	37.43455	121.951	-0.18	37.43523	121.9502	-1
37.43572	121.9462	-14	37.43623	121.9485	0.3	37.4342	121.9492	-0.56	37.43453	121.951	-0.23	37.43528	121.9502	-1.08
37.43572	121.9461	-13	37.43623	121.9485	0.39	37.43417	121.9492	-0.59	37.43453	121.951	-0.2	37.43533	121.9502	-1.05
37.43573	121.9461	-14	37.43623	121.9485	0.31	37.43415	121.9493	-0.64	37.43453	121.951	-0.2	37.43538	121.9502	-1.17
37.43575	121.9461	-13	37.43623	121.9485	0.8	37.43412	121.9493	-0.61	37.43452	121.951	-0.4	37.43543	121.9502	-1.21
37.43575	121.9461	-13	37.43623	121.9485	0.29	37.43408	121.9494	-0.48	37.43452	121.951	-0.43	37.43547	121.9502	-1.07
37.43575	121.9461	-14	37.43623	121.9485	0.61	37.43405	121.9494	-0.33	37.43452	121.9511	-0.36	37.43547	121.9502	-1.09
37.43577	121.9461	-14	37.43623	121.9484	0.8	37.43405	121.9494	-0.49	37.4345	121.9511	-0.57	37.43548	121.9501	-1.14
37.43577	121.946	-14	37.43625	121.9484	0.43	37.43405	121.9494	-0.39	37.43448	121.9511	-0.57	37.43548	121.9501	-1.07
37.43577	121.946	-14	37.43627	121.9484	0.58	37.43403	121.9495	-0.53	37.43448	121.9512	-0.65	37.43548	121.95	-1.09
37.43577	121.946	-14	37.43627	121.9483	2.45	37.43402	121.9495	-0.52	37.43448	121.9512	-0.81	37.4355	121.9499	-1.07
37.43577	121.946	-14	37.43625	121.9483	0.31	37.43398	121.9496	-0.07	37.4345	121.9512	-0.61	37.43552	121.9499	-1.11
37.43577	121.946	-14	37.43625	121.9483	0.85	37.43398	121.9496	-0.32	37.4345	121.9512	-0.6	37.43552	121.9498	-0.96
37.43577	121.946	-14	37.43625	121.9483	0.23	37.43397	121.9497	-0.42	37.43448	121.9513	-0.64	37.43553	121.9498	-1.06
37.43578	121.946	-14	37.43625	121.9482	0.26	37.43398	121.9497	-0.41	37.43448	121.9513	-0.57	37.43553	121.9497	-1.23
37.4358	121.946	-13	37.43623	121.9482	0.22	37.43403	121.9497	-0.44	37.43448	121.9513	-0.55	37.43553	121.9497	-1.15
37.4358	121.946	-13	37.43623	121.9482	0.22	37.43405	121.9497	-0.25	37.43448	121.9513	-0.58	37.43552	121.9496	-1.09
37.43582	121.9459	-14	37.43623	121.9482	0.21	37.43408	121.9497	-0.45	37.43448	121.9513	-0.57	37.4355	121.9495	-1.2
37.4358	121.9459	-14	37.43623	121.9481	0.4	37.43413	121.9497	-0.23	37.43448	121.9513	-0.32	37.43547	121.9495	-1.17
37.4358	121.9459	-14	37.43625	121.9481	0.52	37.43415	121.9497	-0.34	37.43448	121.9513	-0.53	37.43548	121.9494	-1.37
37.4358	121.9459	-14	37.43627	121.9481	0.52	37.43415	121.9497	-0.51	37.43448	121.9513	-0.37	37.43548	121.9494	-1.44
37.43583	121.9459	-14	37.43628	121.9481	0.49	37.43415	121.9497	-0.51	37.43447	121.9513	-0.42	37.43548	121.9493	-1
37.43585	121.946	-14	37.43627	121.948	0.47	37.43417	121.9497	-0.57	37.43447	121.9514	-0.33	37.43547	121.9492	-1.15
37.43587	121.946	-14	37.43627	121.948	0.45	37.43418	121.9496	-0.67	37.43443	121.9514	-0.37	37.43547	121.9492	-1.19
37.4359	121.946	-14	37.43625	121.948	0.43	37.43418	121.9496	-0.58	37.43442	121.9514	-0.36	37.43545	121.9491	-1.06
37.43592	121.946	-14	37.43623	121.9479	0.29	37.43418	121.9496	-0.34	37.4344	121.9514	-0.33	37.43545	121.949	-0.88
37.43592	121.946	-14	37.43623	121.9479	0.47	37.43418	121.9495	-0.38	37.43438	121.9515	-0.69	37.43547	121.949	-0.88
37.4359	121.946	-14	37.43623	121.9479	0.45	37.43423	121.9495	-0.42	37.43435	121.9515	-0.31	37.43547	121.9489	-0.98
37.43588	121.9461	-14	37.43623	121.9479	0.14	37.43427	121.9495	-0.38	37.43433	121.9515	-0.06	37.43547	121.9489	-0.97
37.43588	121.9461	-14	37.43623	121.9478	0.13	37.43427	121.9494	-0.79	37.43432	121.9515	-0.2	37.43545	121.9488	-0.87
37.43588	121.9461	-14	37.43623	121.9478	0.21	37.43428	121.9494	-0.17	37.43432	121.9516	-0.29	37.43543	121.9488	-0.87
37.43587	121.9461	-14	37.43623	121.9478	0.16	37.4343	121.9493	0.08	37.4343	121.9516	-0.32	37.43543	121.9487	-0.86
37.43585	121.9461	-14	37.43623	121.9478	0.12	37.43432	121.9493	-0.01	37.43427	121.9516	-0.27	37.43542	121.9486	-0.75
37.43585	121.9461	-14	37.43623	121.9477	0.13	37.43435	121.9492	0.05	37.43427	121.9517	0.2	37.43538	121.9486	-0.72
37.43585	121.9461	-14	37.43623	121.9477	4.3	37.43438	121.9492	0.01	37.43425	121.9517	0.45	37.43538	121.9485	-0.81
37.43585	121.9461	-14	37.43625	121.9477	0.07	37.4344	121.9491	0	37.43423	121.9517	0.14	37.43538	121.9485	-0.96
37.43585	121.9462	-14	37.43625	121.9477	0	37.43443	121.9491	0.03	37.43422	121.9518	-0.43	37.43545	121.9485	-0.92
37.43583	121.9462	-14	37.43625	121.9477	0.22	37.43445	121.9491	-0.02	37.4342	121.9518	-0.53	37.4355	121.9485	-1.18
37.43583	121.9462	-16	37.43625	121.9476	0.02	37.43448	121.949	0.06	37.43418	121.9518	-0.43	37.43553	121.9486	-1.19
37.43582	121.9462	-16	37.43625	121.9476	1.2	37.4345	121.949	0.3	37.43417	121.9519	-0.52	37.43555	121.9486	-1.23
37.4358	121.9462	-16	37.43625	121.9476	0.77	37.43453	121.9489	-0.07	37.43415	121.9519	-0.35	37.43555	121.9487	-1.21
37.4358	121.9463	-16	37.43625	121.9476	0.72	37.43455	121.9489	-0.37	37.43413	121.952	-0.68	37.43557	121.9488	-1.27
37.43578	121.9463	-16	37.43625	121.9476	0.47	37.43457	121.9489	-0.38	37.43412	121.952	-0.71	37.4356	121.9488	-1.23
37.43578	121.9463	-16	37.43627	121.9476	0.3	37.4346	121.9488	-0.31	37.43412	121.9521	-0.55	37.4356	121.9489	-1.2
37.43577	121.9464	-16	37.43627	121.9476	0.16	37.43462	121.9488	-0.52	37.4341	121.9521	-0.65	37.43562	121.949	-0.97
37.43575	121.9464	-16	37.43627	121.9476	0.13	37.43463	121.9487	-0.19	37.43408	121.9521	-0.7	37.43562	121.949	-1.39
37.43573	121.9464	-16	37.43627	121.9476	0.12	37.43467	121.9487	-0.47	37.43405	121.9522	-0.72	37.43563	121.9491	-1.2
37.43573	121.9465	-16	37.43627	121.9476	0.14	37.43468	121.9486	-0.52	37.43403	121.9522	-0.74	37.43565	121.9492	-1.38
37.43572	121.9465	-16	37.43627	121.9476	0.16	37.4347	121.9486	-0.57	37.43403	121.9523	-0.73	37.43567	121.9492	-1.3
37.43573	121.9465	-16	37.43628	121.9476	0.13	37.43472	121.9486	-0.71	37.43402	121.9523	-0.71	37.43568	121.9493	-1.07
37.43577	121.9465	-16	37.43627	121.9475	0.16	37.43473	121.9485	-0.49	37.43397	121.9523	-0.35	37.43568	121.9494	-1.09
37.43578	121.9466	-16	37.43625	121.9475	0.17	37.43475	121.9485	-0.54	37.43393	121.9522	-0.35	37.43565	121.9494	-1.03
37.43582	121.9466	-16	37.43625	121.9475	0.19	37.43475	121.9484	-0.5	37.4339	121.9522	-0.53	37.43565	121.9495	-1.07
37.43582	121.9466	-16	37.43625	121.9475	0.19	37.43477	121.9484	-0.46	37.43387	121.9522	-0.53	37.43563	121.9496	-1.18
37.43582	121.9466	-16	37.43625	121.9475	0.14	37.43477	121.9483	-0.38	37.43383	121.9521	-0.51	37.43565	121.9496	-1.14
37.43583	121.9466	-16	37.43622	121.9475	0.2	37.43478	121.9483	-0.51	37.43382	121.9521	-0.57	37.43567	121.9497	-1.27
37.43583	121.9466	-16	37.4362	121.9475	0.19	37.4348	121.9482	0.25	37.4338	121.9521	-0.19	37.43567	121.9497	-0.98
37.43585	121.9466	-16	37.43618	121.9474	0.22	37.4348	121.9482	-0.03	37.4338	121.952	-0.34	37.43567	121.9498	-0.84
37.43587	121.9467	-16	37.43617	121.9474	0.24	37.43482	121.9481	-0.26	37.43382	121.952	-0.34	37.43565	121.9498	-0.72
37.43587	121.9467	-16	37.43615	121.9474	0.39	37.43483	121.9481	-0.18	37.43382	121.9519	-0.34	37.43565	121.9499	-0.79
37.43587	121.9467	-16	37.43613	121.9474	0.23	37.43485	121.948	-0.41	37.43383	121.9519	-0.35	37.43565	121.9499	-0.91
37.4359	121.9467	-16	37.43612	121.9474	0.22	37.43488	121.948	-0.64	37.43385	121.9519	-0.38	37.43565	121.95	-1.17
37.43592	121.9467	-16	37.4361	121.9473	0.25	37.4349	121.948	-0.18	37.43387	121.9518	-0.59	37.43562	121.9501	-0.97
37.43592	121.9467	-16	37.43607	121.9473	0.32	37.43492	121.948	-0.23	37.43387	121.9518	-0.62	37.4356	121.9502	-0.91
37.43592	121.9466	-15	37.43605	121.9472	0.35	37.43492	121.948	-0.31	37.43388	121.9518	-0.48	37.43557	121.9502	-1.28
37.43592	121.9466	-16	37.43605	121.9472	0.44	37.43492	121.948	-0.75	37.4339	121.9517	-0.25	37.43557	121.9503	-1.27
37.43592	121.9466	-16	37.43605	121.9472	0.15	37.43492	121.948	-0.86	37.43393	121.9517	-0.15	37.43555	121.9504	-1.39
37.43592	121.9466	-17	37.43605	121.9473	0.17	37.43492	121.948	-0.88	37.43393	121.9516	-0.23	37.43557	121.9504	-1.34
37.43593	121.9465	-16	37.43605	121.9473	0.19	37.43492	121.948	-0.83	37.43395	121.9516	-0.46	37.43562	121.9504	-1.16
37.43593	121.9465	-16	37.43605	121.9473	0.21	37.43495	121.948	-0.84	37.43397	121.9515	-0.48	37.43568	121.9504	-1.02
37.43593	121.9465	-16	37.43605	121.9473	0.32	37.435	121.948	-0.85	37.43398	121.9515	-0.47	37.43572	121.9504	-0.77
37.43593	121.9465	-16	37.43605	121.9473	0.11	37.43505	121.9481	-0.8	37.434	121.9515	-0.56	37.43575	121.9505	-1.11
37.43595	121.9465	-16	37.43605	121.9473	0.11	37.43508	121.9481	-0.64	37.43402	121.9514	-0.54	37.43577	121.9505	-1.11
37.43595	121.9465	-17	37.43607	121.9474	0.06	37.43512	121.9481	-0.78	37.43402	121.9514	-0.61	37.43577	121.9505	-1.15
37.43595	121.9464	-16	37.43608	121.9474	0.15	37.43513	121.9482	-0.65	37.43402	121.9514	-0.41	37.43575	121.9504	-1.11
37.43595	121.9464	-16	37.43608	121.9474	0.06	37.43512	121.9482	-0.73	37.43405	121.9513	-0.42	37.43575	121.9503	-1.06
37.43597	121.9464	-16	37.43608	121.9475	0.29	37.43512	121.9482	-0.59	37.43405	121.9513	-0.43	37.43577	121.9503	-0.97
37.43597	121.9464	-16	37.4361	121.9475	0.47	37.4351	121.9482	-0.4	37.43408	121.9512	-0.6	37.43578	121.9502	-1.1
37.43598	121.9464	-16	37.4361	121.9475	0.5	37.43508	121.9483	0.85	37.43408	121.9512	-0.56	37.4358	121.9501	-1.18
37.43598	121.9463	-17	37.43612	121.9476	0.54	37.43507	121.9483	2.62	37.43408	121.9511	-0.55	37.4358	121.95	-1.03
37.436	121.9463	-16	37.4361	121.9476	0.38	37.43505	121.9484	1.43	37.43408	121.9511	-0.74	37.4358	121.9499	-1.11
37.43602	121.9463	-17	37.4361	121.9476	0.34	37.43503	121.9484	0.07	37.4341	121.9511	-0.59	37.4358	121.9499	-1.12
37.43602	121.9463	-17	37.4361	121.9476	0.23	37.43503	121.9484	-0.78	37.43412	121.9511	-0.56	37.43582	121.9498	-1.06
37.43602	121.9462	-17	37.4361	121.9476	0.25	37.43503	121.9484	-0.69	37.43412	121.951	-0.53	37.43582	121.9498	-1.26
37.43602	121.9462	-17	37.43608	121.9476	0.13	37.43502	121.9485	-0.57	37.43413	121.951	-0.52	37.43583	121.9497	-1.25
37.43602	121.9462	-18	37.4361	121.9477	0.03	37.43498	121.9485	-0.4	37.43415	121.9509	-0.32	37.43585	121.9496	-1.2
37.43602	121.9462	-18	37.4361	121.9477	0.31	37.43498	121.9485	-0.63	37.43418	121.9509	-0.11	37.43585	121.9496	-1.32

Nine Par Landfill
Surface Emissions Monitoring Data

Grid 1 Results			Grid 2 Results			Grid 3 Results			Grid 4 Results			Grid 5 Results		
Latitude	Longitude	Methane (ppm)	Latitude	Longitude	Methane (ppm)	Latitude	Longitude	Methane (ppm)	Latitude	Longitude	Methane (ppm)	Latitude	Longitude	Methane (ppm)
37.43602	121.9462	-18	37.4361	121.9477	0.02	37.43497	121.9486	-0.54	37.43422	121.9509	-0.39	37.43585	121.9495	-1.3
37.43602	121.9462	-18	37.43608	121.9477	0.21	37.43495	121.9486	-0.54	37.43423	121.9508	-0.11	37.43587	121.9495	-1.04
37.43603	121.9462	-18	37.43608	121.9478	-0.08	37.43493	121.9487	-0.43	37.43423	121.9508	-0.31	37.43587	121.9494	-1.11
37.43605	121.9462	-18	37.4361	121.9478	0.07	37.43492	121.9487	-0.35	37.43425	121.9507	-0.46	37.43587	121.9493	-1.01
37.43605	121.9461	-18	37.4361	121.9478	0.1	37.4349	121.9488	-0.53	37.43427	121.9507	-0.27	37.43587	121.9493	-0.84
37.43607	121.9461	-18	37.4361	121.9478	0.21	37.43488	121.9488	-0.59	37.4343	121.9507	-0.5	37.43585	121.9492	-0.98
37.43607	121.9461	-18	37.43608	121.9478	-0.1	37.43488	121.9488	-0.61	37.43432	121.9507	-0.53	37.43583	121.9491	-1.12
37.43607	121.9461	-18	37.4361	121.9479	-0.19	37.43488	121.9488	-0.58	37.43433	121.9506	-0.47	37.4358	121.949	-1.25
37.43607	121.9461	-18	37.43612	121.9479	-0.24	37.43488	121.9489	-0.56	37.43435	121.9506	-0.61	37.43577	121.949	-1.34
37.43607	121.9461	-18	37.43612	121.9479	-0.22	37.43485	121.9489	-0.68	37.43437	121.9506	-0.62	37.43573	121.9489	-1.26
37.43607	121.9461	-18	37.4361	121.9479	-0.06	37.43485	121.9489	-0.59	37.4344	121.9506	-0.62	37.43572	121.9489	-1.25
37.43607	121.946	-18	37.4361	121.948	0.5	37.43483	121.949	-0.53	37.4344	121.9505	-0.46	37.43573	121.9488	-1.12
37.43608	121.946	-18	37.4361	121.948	0	37.43482	121.9491	-0.54	37.43442	121.9505	-0.32	37.43578	121.9489	-1.16
37.43608	121.946	-18	37.4361	121.948	-0.16	37.4348	121.9491	-0.55	37.43443	121.9504	-0.31	37.43583	121.9489	-1.1
37.43608	121.946	-18	37.4361	121.9481	-0.13	37.43477	121.9491	-0.54	37.43443	121.9504	-0.87	37.43588	121.9489	-1.02
37.4361	121.946	-18	37.4361	121.9481	-0.08	37.43473	121.9491	-0.54	37.43445	121.9504	-0.74	37.43592	121.949	-1.24
37.43608	121.9459	-19	37.43612	121.9481	-0.1	37.4347	121.9492	-0.57	37.43445	121.9503	-0.79	37.43597	121.949	-1.15
37.43608	121.9459	-18	37.43612	121.9481	0.15	37.43468	121.9492	-0.56	37.43447	121.9503	-0.69	37.43597	121.949	-1.06
37.4361	121.9459	-25	37.43612	121.9481	0.92	37.43467	121.9493	-0.55	37.43447	121.9502	-0.73	37.43598	121.9491	-1.11
37.43613	121.9459	-19	37.43612	121.9481	0.94	37.43465	121.9493	-0.42	37.43448	121.9502	-0.71	37.43598	121.9492	-1.16
37.43615	121.9459	-18	37.43612	121.9481	0.33	37.43463	121.9493	-0.44	37.43448	121.9502	-0.53	37.436	121.9492	1.39
37.43617	121.9459	-17	37.43612	121.9481	0.26	37.43462	121.9494	-0.38	37.4345	121.9501	-0.53	37.43598	121.9493	-0.57
37.43618	121.9459	-17	37.43612	121.9482	0.26	37.43458	121.9495	-0.41	37.43448	121.9501	-0.71	37.43598	121.9494	-0.4
37.4362	121.9459	-17	37.43613	121.9482	0.37	37.43457	121.9495	-0.18	37.43445	121.9501	-0.74	37.43598	121.9495	-0.5
37.4362	121.9459	-17	37.43613	121.9482	0.41	37.43455	121.9496	-0.36	37.43442	121.9501	-0.74	37.43597	121.9495	-0.88
37.43622	121.9459	-17	37.43612	121.9482	0.4	37.43453	121.9496	-0.46	37.43437	121.9501	-0.84	37.43597	121.9496	-1.07
37.43623	121.9459	-17	37.43613	121.9482	0.42	37.43452	121.9496	-0.29	37.43433	121.9501	-0.83	37.43595	121.9497	-0.97
37.43623	121.9459	-17	37.43615	121.9483	0.39	37.4345	121.9497	-0.18	37.43432	121.9501	-0.79	37.43593	121.9497	-0.79
37.43622	121.9459	-18	37.43615	121.9483	0.4	37.43448	121.9497	-0.65	37.4343	121.9501	-0.74	37.43592	121.9498	-0.86
37.43623	121.9459	-19	37.43615	121.9483	0.36	37.43447	121.9498	-0.56	37.4343	121.9502	-0.88	37.43588	121.9498	-0.94
37.43623	121.946	-19	37.43615	121.9484	0.14	37.43443	121.9498	-0.6	37.43428	121.9502	-0.77	37.43588	121.9499	-0.96
37.43622	121.946	-19	37.43615	121.9484	0.16	37.43442	121.9499	-0.59	37.43428	121.9502	-0.56	37.43587	121.95	-0.98
37.43622	121.946	-19	37.43615	121.9484	0.08	37.43438	121.9499	0.34	37.43428	121.9503	-0.51	37.43587	121.95	-0.95
37.43622	121.946	-18	37.43615	121.9485	0.03	37.43433	121.9499	-0.36	37.43428	121.9503	-0.54	37.43587	121.9501	-0.84
37.43622	121.946	-20	37.43615	121.9485	0.23	37.43437	121.9499	-0.41	37.43428	121.9503	-0.45	37.4359	121.9501	-1.01
37.43622	121.946	-20	37.43615	121.9485	0.18	37.43442	121.95	-0.27	37.43428	121.9504	-0.91	37.43588	121.9502	-0.99
37.43622	121.946	-19	37.43615	121.9485	0.12	37.43445	121.95	-0.6	37.43427	121.9504	-0.76	37.43588	121.9502	-1.16
37.43622	121.946	-19	37.43613	121.9485	0.16	37.43448	121.95	-0.31	37.43425	121.9504	-0.75	37.43588	121.9503	-1.14
37.43622	121.946	-19	37.43612	121.9486	0.21	37.43453	121.95	-0.33	37.43427	121.9504	-0.77	37.43588	121.9503	-0.95
37.43622	121.946	-19	37.43613	121.9486	0.15	37.43453	121.95	0.48	37.43427	121.9505	-0.72	37.4359	121.9504	-0.98
37.43622	121.946	-19	37.43612	121.9486	0.24	37.43453	121.95	0.97	37.43425	121.9505	-0.8	37.4359	121.9504	-1.05
37.43622	121.946	-19	37.43612	121.9487	0	37.43452	121.95	-0.21	37.43427	121.9505	-0.5	37.4359	121.9505	-0.98
37.43622	121.946	-19	37.43612	121.9487	0.11	37.43452	121.95	0.04	37.43427	121.9506	-0.73	37.4359	121.9506	-1.01
37.43622	121.946	-19	37.43613	121.9487	-0.03	37.43452	121.95	-0.9	37.43427	121.9506	-0.69	37.4359	121.9506	-0.84
37.43622	121.946	-19	37.43613	121.9487	-0.17	37.43452	121.95	-0.73	37.43425	121.9506	-0.7	37.43592	121.9507	-0.82
37.43622	121.946	-19	37.43613	121.9488	-0.26	37.43452	121.95	-0.09	37.43422	121.9507	-0.74	37.43592	121.9507	-0.56
37.43622	121.946	-19	37.43613	121.9488	-0.51	37.43452	121.95	0.33	37.43418	121.9507	-0.71	37.43593	121.9507	-0.7
37.43622	121.946	-19	37.43613	121.9488	-0.63	37.43452	121.95	-0.01	37.43415	121.9507	-0.7	37.43595	121.9508	-0.79
37.43622	121.946	-19	37.43613	121.9489	-0.47	37.43452	121.95	0.2	37.43412	121.9507	-0.77	37.43598	121.9508	-0.66
37.4362	121.9461	-19	37.43615	121.9489	-0.52	37.43452	121.95	-0.05	37.43412	121.9508	-0.78	37.43602	121.9508	-0.81
37.4362	121.9461	-19	37.43615	121.9489	-0.32	37.43452	121.95	-0.27	37.43408	121.9508	-0.64	37.43605	121.9508	-0.96
37.43618	121.9462	-19	37.43618	121.9489	-0.33	37.43452	121.95	-0.43	37.43405	121.9509	-0.69	37.43607	121.9508	-1.44
37.43618	121.9462	-19	37.43617	121.949	-0.29	37.43452	121.95	-0.37	37.43403	121.9509	-0.74	37.4361	121.9508	-0.83
37.43617	121.9462	-19	37.43613	121.949	-0.28	37.43452	121.95	-0.33	37.43402	121.951	-0.65	37.4361	121.9507	-1.16
37.43615	121.9463	-19	37.43612	121.949	-0.33	37.43452	121.95	-0.41	37.434	121.951	-0.68	37.43608	121.9507	-0.99
37.43613	121.9463	-19	37.43612	121.949	-0.26	37.43453	121.95	-0.35	37.43397	121.951	-0.71	37.43608	121.9507	-1.38
37.43613	121.9463	-19	37.43612	121.949	-0.31	37.43453	121.9499	-0.17	37.43397	121.9511	-0.66	37.43608	121.9507	-1.16
37.43612	121.9463	-19	37.43613	121.949	-0.36	37.43455	121.9499	-0.32	37.43393	121.9511	-0.66	37.4361	121.9507	-1.12
37.43612	121.9464	-19	37.43613	121.949	-0.33	37.43455	121.9499	-0.31	37.43393	121.9511	-0.64	37.43612	121.9506	-1.11
37.43612	121.9464	-19	37.43613	121.949	-0.3	37.43457	121.9498	-0.05	37.43393	121.9512	-0.65	37.4361	121.9505	-0.93
37.4361	121.9464	-19	37.43613	121.949	-0.28	37.43458	121.9498	-0.18	37.43392	121.9512	-0.66	37.43613	121.9505	-0.8
37.4361	121.9465	-20	37.43613	121.949	-0.26	37.43458	121.9497	-0.32	37.43392	121.9512	-0.63	37.43615	121.9504	-0.55
37.43608	121.9465	-19	37.43613	121.949	-0.32	37.4346	121.9497	-0.24	37.4339	121.9513	-0.56	37.43615	121.9503	-0.34
37.43607	121.9465	-19	37.43613	121.949	-0.29	37.4346	121.9497	-0.49	37.4339	121.9513	-0.66	37.43615	121.9503	-0.14
37.43605	121.9466	-18	37.43613	121.949	-0.29	37.43463	121.9496	-0.37	37.4339	121.9513	-0.37	37.43617	121.9502	4.31
37.43603	121.9466	-19	37.43613	121.949	-0.1	37.43465	121.9496	-0.41	37.43388	121.9514	-0.56	37.43617	121.9502	0.79
37.43602	121.9466	-18	37.43613	121.949	-0.38	37.43467	121.9496	-0.41	37.43388	121.9514	-0.59	37.43615	121.9501	-0.72
37.43602	121.9467	-19	37.43612	121.949	-0.38	37.43468	121.9495	-0.4	37.43388	121.9514	-0.55	37.43613	121.95	3.07
37.436	121.9467	-18	37.43612	121.949	-0.24	37.4347	121.9495	-0.37	37.43387	121.9514	-0.56	37.43612	121.95	0.08
37.436	121.9467	-19	37.43612	121.949	-0.25	37.43472	121.9495	-0.41	37.43387	121.9515	-0.54	37.43613	121.9499	1.23
37.43598	121.9468	-18	37.43612	121.949	-0.42	37.43472	121.9495	-0.99	37.43385	121.9515	-0.54	37.43617	121.9499	-1.25
37.43597	121.9468	-18	37.4361	121.949	-0.34	37.43472	121.9494	-0.43	37.43383	121.9515	-0.57	37.43615	121.9498	-1.22
37.43598	121.9469	-18	37.4361	121.949	-0.25	37.43473	121.9494	-0.14	37.43382	121.9516	-0.45	37.43615	121.9497	-1.15
37.43603	121.9469	-18	37.43608	121.949	-0.33	37.43473	121.9494	-0.41	37.43382	121.9516	-0.45	37.43617	121.9497	-1.21
37.43607	121.9469	-17	37.43608	121.949	-0.41	37.43475	121.9494	-0.5	37.4338	121.9516	-0.51	37.43617	121.9496	-1.19
37.43608	121.9469	-17	37.43607	121.949	-0.47	37.43477	121.9493	-0.05	37.4338	121.9516	-0.47	37.43618	121.9496	-1.07
37.43612	121.9469	-17	37.43608	121.949	-0.44	37.43478	121.9493	-0.07	37.43377	121.9517	-0.45	37.43617	121.9495	-0.97
37.43613	121.9469	-16	37.43608	121.949	-0.47	37.4348	121.9493	-0.32	37.43375	121.9517	-0.07	37.43617	121.9494	-1.1
37.43615	121.9469	-17	37.43608	121.949	-0.41	37.43483	121.9492	-0.79	37.43373	121.9517	0.01	37.43618	121.9494	-1.01
37.43615	121.9469	-18	37.43608	121.949	-0.27	37.43485	121.9492	-0.47	37.43372	121.9517	-0.23	37.43618	121.9494	-1.18
37.43615	121.9469	-18	37.43605	121.949	-0.28	37.43488	121.9492	-0.4	37.43368	121.9518	-0.25	37.43618	121.9494	-1.1
37.43615	121.9469	-18	37.43603	121.949	-0.08	37.4349	121.9491	-0.35	37.43367	121.9518	-0.25	37.43618	121.9494	-1.01
37.43613	121.9468	-18	37.43602	121.949	-0.01	37.43492	121.9491	-0.42	37.43363	121.9519	-0.29	37.4362	121.9493	-1.19
37.43613	121.9468	-18	37.43602	121.949	-0.23	37.43495	121.9491	-0.65	37.43362	121.9519	-0.28	37.4362	121.9492	-1.16
37.43615	121.9467	-18	37.436	121.9489	-0.25	37.43497	121.949	-0.61	37.4336	121.9519	-0.27	37.43623	121.9492	-1.18
37.43615	121.9467	-18	37.43598	121.9489	-0.28	37.43498	121.949	-0.5	37.43357	121.9519	-0.27	37.43625	121.9493	-1.17
37.43617	121.9467	-18	37.43597	121.9489	-0.32	37.43502	121.949	-0.68	37.43352	121.9519	-0.26	37.43628	121.9493	-1.06
37.43617	121.9466	-18	37.43595	121.9488	-0.23	37.43502	121.9489	-0.64	37.4335	121.9518	-0.27	37.43632	121.9494	-1.24
37.43617	121.9466	-18	37.43595	121.9488	-0.25	37.43502	121.9489	-0.66	37.43345	121.9518	-0.25	37.43632	121.9495	-1.21
37.43618	121.9466	-18	37.43595	121.9487	-0.27	37.43502	121.9489	-0.52	37.4334	121.9518	-0.26	37.43632	121.9495	-1.38
37.4362	121.9465	-18	37.43595	121.9487	-0.4	37.43502	121.9488	-0.64	37.4334	121.9518	-0.3	37.43632	121.9496	-1.15
37.4362	121.9465	-17	37.43597	121.9487	-0.36	37.43503	121.9488	-0.07	37.43343	121.9517	-0.27	37.43632	121.9497	-1.02
37.4362	121.9464	-18	37.43595	121.9487	-0.36	37.43505	121.9488	-0.66	37.43347	121.9517	-0.32	37.43632	121.9497	-0.49
37.4362	121.9464	-18	37.43595	121.9487	-0.41	37.43507	121.9487	-0.56	37.43348	121.9517	-0.23	37.43632	121.9498	-0.71
37.4362	121.9464	-18	37.43595	121.9487	-0.18	37.43508	121.9487	-0.65	37.43352	121.9517	-0.41	37.43632	121.9499	-1
37.4362	121.9464	-18	37.43597	121.9487	-0.18	37.4351	121.9487	-0.64	37.43352	121.9516	-0.51	37.43632	121.9499	-1.18
37.4362	121.9464	-18	37.43595	121.9486	-0.23	37.43512	121.9486	-0.06	37.43352	121.9516	-0.68	37.43632	121.95	-0.99

Nine Par Landfill
Surface Emissions Monitoring Data

Grid 1 Results

Latitude	Longitude	Methane (ppm)
37.43622	121.9463	-18
37.43622	121.9463	-18
37.43622	121.9463	-19
37.43623	121.9462	-20
37.43623	121.9462	-20
37.43623	121.9461	-20
37.43623	121.9461	-20
37.43623	121.946	-20
37.43625	121.946	-20
37.43628	121.946	-20
37.43633	121.946	-20
37.43637	121.946	-20
37.43638	121.946	-20
37.43638	121.9461	-20
37.43637	121.9461	-20
37.43637	121.9461	-21
37.43637	121.9462	-19
37.43637	121.9462	-20
37.43637	121.9463	-20
37.43637	121.9463	-20
37.43637	121.9463	-19
37.43637	121.9464	-20
37.43637	121.9464	-20
37.43635	121.9464	-20
37.43633	121.9465	-20
37.43633	121.9465	-20
37.43635	121.9466	-20
37.43635	121.9466	-20
37.43635	121.9467	-21
37.43635	121.9467	-21
37.43635	121.9467	-22
37.43635	121.9468	-20
37.43635	121.9468	-21
37.43635	121.9469	-21
37.43633	121.9469	-21
37.43635	121.947	-21
37.43635	121.947	-21
37.43635	121.9471	-20
37.43637	121.9471	-20
37.43635	121.9472	-20
37.43633	121.9472	-20
37.4363	121.9472	-20
37.43627	121.9472	-21
37.43623	121.9471	-21
37.4362	121.9471	-21
37.43615	121.947	-21
37.4361	121.947	-21
37.43605	121.947	-21
37.436	121.9469	-21
37.43597	121.9469	-21
37.43593	121.9468	-21
37.43588	121.9468	-22
37.43585	121.9467	-21
37.4358	121.9467	-21
37.43577	121.9466	-21
37.43573	121.9466	-22
37.4357	121.9465	-22
37.43567	121.9465	-22
37.43563	121.9464	-23
37.4356	121.9464	-24
37.43555	121.9463	-24
37.4355	121.9462	-24
37.43545	121.9462	-24
37.4354	121.9461	-23
37.43538	121.946	-24
37.43538	121.946	-23
37.43538	121.9459	-23
37.43542	121.9459	-23
37.43542	121.9459	-24
37.43542	121.9459	-25
37.43542	121.946	-24

Grid 2 Results

Latitude	Longitude	Methane (ppm)
37.43593	121.9486	-0.01
37.43593	121.9485	-0.15
37.43593	121.9485	-0.04
37.43593	121.9485	-0.14
37.43595	121.9485	-0.07
37.43595	121.9484	0.1
37.43595	121.9484	0.11
37.43595	121.9484	-0.34
37.43595	121.9484	-0.21
37.43595	121.9484	-0.1
37.43595	121.9483	-0.05
37.43597	121.9483	-0.07
37.43597	121.9482	-0.17
37.43597	121.9482	-0.25
37.43597	121.9482	-0.16
37.43597	121.9481	-0.17
37.43597	121.9481	-0.22
37.43597	121.9481	0.01
37.43597	121.948	-0.04
37.43597	121.948	-0.11
37.43597	121.948	-0.09
37.43597	121.9479	-0.29
37.43598	121.9479	-0.28
37.43598	121.9479	-0.37
37.43597	121.9478	-0.38
37.43598	121.9478	-0.32
37.43598	121.9478	-0.37
37.43598	121.9477	-0.39
37.436	121.9477	-0.37
37.436	121.9477	-0.44
37.43602	121.9477	-0.39
37.43602	121.9476	-0.37
37.43602	121.9476	-0.46
37.43602	121.9476	-0.62
37.436	121.9475	-0.44
37.43598	121.9475	-0.46
37.43598	121.9474	-0.52
37.43598	121.9474	-0.44
37.43598	121.9474	-0.33
37.43598	121.9473	-0.1
37.43598	121.9473	-0.31
37.43598	121.9472	-0.21
37.43598	121.9472	-0.23
37.43597	121.9471	-0.37
37.43595	121.9471	-0.28
37.43592	121.9471	-0.37
37.4359	121.947	-0.37
37.43588	121.947	-0.38
37.43588	121.947	-0.3
37.43588	121.947	-0.47
37.4359	121.947	-0.41
37.4359	121.947	-0.35
37.4359	121.947	-0.09
37.4359	121.947	-0.35
37.4359	121.947	-0.27
37.4359	121.947	-0.1
37.4359	121.947	-0.22
37.4359	121.947	-0.14
37.43587	121.947	-0.11
37.43583	121.9469	0.23
37.43582	121.9469	-0.06
37.4358	121.9468	-0.26
37.4358	121.9468	-0.18
37.43578	121.9468	-0.07
37.43577	121.9468	-0.22
37.43577	121.9468	-0.35
37.43575	121.9468	-0.32
37.43573	121.9467	-0.55
37.43572	121.9467	0.03
37.4357	121.9467	-0.38
37.43567	121.9467	-0.51
37.43567	121.9467	0.35
37.43568	121.9467	-0.42
37.43567	121.9467	6.41
37.43565	121.9467	-0.44
37.43565	121.9468	-0.13
37.43565	121.9468	-0.39
37.43565	121.9468	-0.36
37.43565	121.9468	-0.3
37.43565	121.9468	-0.28
37.43565	121.9468	0.1
37.43565	121.9468	-0.26
37.43565	121.9468	-0.15
37.43565	121.9468	-0.13
37.43565	121.9468	0.1
37.43565	121.9468	-0.03
37.43565	121.9468	-0.18
37.43565	121.9468	-0.23
37.43565	121.9468	-0.13
37.43565	121.9468	2.67
37.43565	121.9468	-0.13
37.43565	121.9468	-0.11
37.43565	121.9468	-0.18
37.43563	121.9468	-0.01
37.43563	121.9468	-0.1
37.43565	121.9469	0
37.43565	121.9469	0

Grid 3 Results

Latitude	Longitude	Methane (ppm)
37.43513	121.9486	-0.35
37.43515	121.9485	-0.13
37.43518	121.9485	0.98
37.4352	121.9485	0.8
37.43522	121.9484	0.98
37.43523	121.9484	0.18
37.43525	121.9484	0.69
37.43527	121.9483	2.18
37.43528	121.9484	1.52
37.43532	121.9484	-0.01
37.43532	121.9485	-0.53
37.43532	121.9485	-0.56
37.43533	121.9485	-0.87
37.43532	121.9486	-0.91
37.43528	121.9486	-0.53
37.43525	121.9487	0.13
37.43522	121.9487	-0.38
37.43518	121.9487	-0.5
37.43517	121.9488	-0.52
37.43517	121.9488	0.06
37.43515	121.9488	-0.42
37.43513	121.9489	-0.78
37.43513	121.949	-0.53
37.4351	121.949	-0.51
37.43508	121.949	-0.71
37.43508	121.9491	-0.63
37.43507	121.9491	-0.45
37.43507	121.9491	-0.57
37.43503	121.9492	-0.83
37.43502	121.9492	-0.7
37.435	121.9493	-0.7
37.435	121.9493	-0.59
37.43497	121.9494	-0.33
37.43495	121.9494	-0.46
37.43493	121.9494	-0.41
37.43495	121.9495	-0.23
37.43493	121.9495	-0.37
37.43492	121.9496	-0.24
37.43492	121.9496	-0.21
37.4349	121.9496	-0.29
37.43488	121.9497	-0.28
37.43488	121.9497	-0.24
37.43487	121.9498	-0.38
37.43485	121.9498	-0.22
37.43483	121.9499	-0.37
37.43482	121.9499	-0.44
37.4348	121.95	-0.46
37.4348	121.95	-0.55
37.43478	121.95	-0.49
37.43478	121.9501	-0.61
37.43478	121.9501	-0.49
37.43477	121.9502	-0.43
37.43477	121.9502	-0.53
37.43477	121.9502	-0.62
37.43477	121.9502	-0.65
37.43477	121.9502	-0.11
37.43477	121.9502	-0.07
37.43477	121.9502	0.13
37.43477	121.9502	-0.05
37.43477	121.9502	0.14
37.43477	121.9502	-0.17
37.43477	121.9502	0.04
37.43477	121.9502	-0.23
37.43477	121.9502	-0.11
37.43477	121.9502	-0.15
37.43477	121.9502	-0.27
37.43477	121.9502	-0.25
37.43477	121.9502	-0.21
37.43477	121.9502	-0.51
37.43477	121.9501	-0.29
37.43477	121.9501	-0.31
37.43477	121.9501	-0.51
37.43477	121.9501	-0.45
37.43477	121.9501	0.25
37.43477	121.9501	-0.23
37.43477	121.9501	-0.51
37.43477	121.9501	-0.59
37.43477	121.9501	-0.59
37.43477	121.9501	-0.48
37.43477	121.9502	-0.53
37.43475	121.9502	-0.64
37.43473	121.9502	-0.55
37.43473	121.9503	-0.53

Grid 4 Results

Latitude	Longitude	Methane (ppm)
37.43355	121.9515	-0.66
37.43357	121.9515	-0.66
37.43358	121.9515	-0.61
37.43362	121.9514	-0.63
37.43362	121.9514	-0.69
37.43363	121.9514	-0.59
37.43363	121.9513	-0.89
37.43367	121.9513	-0.56
37.43368	121.9513	-0.26
37.43368	121.9512	-0.51
37.4337	121.9512	-0.56
37.43372	121.9512	-0.54
37.43375	121.9512	-0.55
37.43373	121.9511	-0.54
37.43373	121.9511	-0.47
37.43373	121.951	-0.5
37.43375	121.951	-0.45
37.43375	121.951	-0.3
37.43377	121.951	-0.2
37.43377	121.951	-0.32
37.43378	121.9509	-0.28
37.43378	121.9509	-0.47
37.4338	121.9509	-0.35
37.4338	121.9508	-0.48
37.4338	121.9508	-0.5
37.43382	121.9508	-0.47
37.43383	121.9507	-0.82
37.43383	121.9507	0.48
37.43385	121.9506	-0.6
37.43387	121.9506	-0.54
37.4339	121.9506	-0.53
37.43393	121.9505	-0.39
37.43395	121.9505	-0.38
37.43397	121.9504	-0.48
37.434	121.9504	-0.55
37.43403	121.9504	-0.58
37.43407	121.9504	-0.56
37.43407	121.9503	-0.59
37.43407	121.9503	-0.8
37.43407	121.9502	-0.59
37.43407	121.9502	-0.64
37.43408	121.9501	-0.68
37.43412	121.9501	-0.55
37.43412	121.9501	-0.73
37.43413	121.95	-0.71
37.43413	121.95	-0.69
37.43413	121.95	-0.73
37.43415	121.9499	-0.72
37.4341	121.95	-0.7
37.43405	121.9499	-0.81
37.43402	121.9499	-0.77
37.43398	121.9499	-0.77
37.43395	121.9498	-0.64
37.43392	121.9498	-0.8
37.4339	121.9499	-0.75
37.43388	121.9499	-0.79
37.43387	121.95	-0.78
37.43385	121.95	-0.8
37.43383	121.95	-0.74
37.43382	121.9501	-0.83
37.43378	121.9501	-0.92
37.43377	121.9502	-0.78
37.43373	121.9502	-0.75
37.43372	121.9502	-0.71
37.4337	121.9503	-0.74
37.43368	121.9503	-0.76
37.43365	121.9504	-0.83
37.43363	121.9504	-0.91
37.43363	121.9504	-0.77
37.43362	121.9505	-0.46
37.4336	121.9505	-0.83
37.43358	121.9505	-0.9
37.43358	121.9506	-0.71
37.43357	121.9506	-0.73
37.43353	121.9507	-0.76
37.43352	121.9507	-0.68
37.4335	121.9508	-0.68
37.43348	121.9508	-0.61
37.43348	121.9508	-0.42
37.43345	121.9509	-0.63
37.43345	121.9509	-0.64
37.43345	121.951	-0.63
37.43343	121.951	-0.8
37.43343	121.951	-0.78
37.43342	121.9511	-0.73
37.43338	121.9511	-0.59
37.43337	121.9512	-0.82
37.43337	121.9512	-0.81
37.43335	121.9512	-0.87
37.43333	121.9513	-0.74
37.43332	121.9513	-0.68
37.4333	121.9514	-0.79
37.4333	121.9514	-0.79
37.43328	121.9514	-0.84
37.43325	121.9515	-0.84
37.43323	121.9515	-0.74
37.43323	121.9516	-0.82

Grid 5 Results

Latitude	Longitude	Methane (ppm)
37.43632	121.95	-1.12
37.43632	121.9501	-0.93
37.43632	121.9501	-1.18
37.4363	121.9501	-1.04
37.43632	121.9502	-0.89
37.43632	121.9502	-0.66
37.4363	121.9503	-0.21
37.4363	121.9503	0.15
37.43628	121.9503	0.34
37.43628	121.9504	0.44
37.4363	121.9505	1.99
37.4363	121.9506	0.32
37.4363	121.9506	-0.27
37.4363	121.9507	-0.24
37.4363	121.9508	-0.39
37.43632	121.9508	-0.61
37.43632	121.9509	-0.91
37.43632	121.9509	-1.08
37.4363	121.951	-0.93
37.43628	121.951	-0.92
37.43628	121.951	-0.91
37.43628	121.951	-1.03
37.4363	121.951	-0.93
37.4363	121.951	-0.88
37.4363	121.951	-1.1
37.4363	121.951	-1.16
37.43628	121.951	-1.32
37.43625	121.9511	-1.22
37.4362	121.9511	-1.23
37.43617	121.9512	-1.23
37.43613	121.9512	-0.63
37.4361	121.9512	-0.98
37.4361	121.9512	-1.23
37.4361	121.9512	-1.07
37.4361	121.9512	-1.1
37.43605	121.9513	-0.79
37.436	121.9513	-1.2
37.43595	121.9513	-1.25
37.43588	121.9513	-1.29
37.43582	121.9513	-0.83
37.43575	121.9512	-0.93
37.4357	121.9512	-1
37.43565	121.9512	-0.93
37.4356	121.9512	-1.12
37.43553	121.9511	-0.76
37.43548	121.9511	-0.83
37.43543	121.9512	-0.58
37.43538	121.9512	0.39
37.43533	121.9512	-1.18
37.43528	121.9512	-0.8
37.43523	121.9512	1.72
37.4352	121.9512	-2.24

Nine Par Landfill
Surface Emissions Monitoring Data

Grid 1 Results			Grid 2 Results			Grid 3 Results			Grid 4 Results			Grid 5 Results		
Latitude	Longitude	Methane (ppm)	Latitude	Longitude	Methane (ppm)	Latitude	Longitude	Methane (ppm)	Latitude	Longitude	Methane (ppm)	Latitude	Longitude	Methane (ppm)
			37.43565	121.9469	0.02				37.43322	121.9516	-0.82			
			37.43565	121.9469	-0.36				37.4332	121.9516	-0.57			
			37.43565	121.947	0				37.4332	121.9516	-0.61			
			37.43565	121.947	-0.01				37.4332	121.9516	-0.78			
			37.43567	121.947	2.16				37.4332	121.9516	-1.07			
			37.43567	121.947	-0.35				37.4332	121.9516	-0.78			
			37.43567	121.947	-0.32				37.4332	121.9516	-0.89			
			37.43567	121.947	-0.32				37.4332	121.9516	-0.59			
			37.43567	121.947	0.03				37.4332	121.9516	-0.69			
			37.43567	121.947	-0.23				37.4332	121.9517	-0.74			
			37.43567	121.947	-0.09				37.4332	121.9518	-0.94			
			37.43567	121.947	-0.12				37.4332	121.9519	-0.93			
			37.43568	121.9471	-0.33				37.43322	121.9519	-0.83			
			37.43568	121.9471	-0.36				37.43323	121.952	-0.88			
			37.4357	121.9472	-0.32				37.43322	121.9521	-0.72			
			37.4357	121.9472	-0.31				37.43323	121.9521	-0.65			
			37.4357	121.9472	-0.4				37.43322	121.9522	-0.66			
			37.43572	121.9473	-0.38				37.43322	121.9522	-0.77			
			37.43572	121.9473	-0.41				37.43325	121.9522	-0.83			
			37.43572	121.9473	-0.41				37.43328	121.9522	-0.78			
			37.43572	121.9473	-0.38				37.43328	121.9522	-0.83			
			37.43573	121.9474	-0.48				37.43328	121.9522	-0.82			
			37.43573	121.9474	-0.19				37.43328	121.9522	-0.72			
			37.43573	121.9474	-0.38				37.43328	121.9522	-0.65			
			37.43573	121.9475	0.09				37.43328	121.9522	-0.68			
			37.43575	121.9475	-0.21				37.43325	121.9522	-0.69			
			37.43575	121.9475	-0.41				37.43325	121.9522	-0.84			
			37.43575	121.9475	0.85				37.43325	121.9522	-0.73			
			37.43575	121.9475	-0.37				37.43325	121.9522	-0.94			
			37.43575	121.9475	-0.43				37.43325	121.9522	-0.71			
			37.43575	121.9475	-0.47				37.43325	121.9522	-0.6			
			37.43575	121.9475	-0.65				37.43325	121.9522	-0.55			
			37.43575	121.9475	-0.49				37.43325	121.9522	-2.97			
			37.43575	121.9475	-0.53				37.43325	121.9522	0.12			
			37.43577	121.9475	-0.59									
			37.43577	121.9476	-0.49									
			37.43577	121.9476	-0.53									
			37.43577	121.9477	-0.37									
			37.43578	121.9477	0.16									
			37.43578	121.9477	0.07									
			37.43578	121.9477	-0.18									
			37.43578	121.9477	-0.17									
			37.43578	121.9478	-0.41									
			37.43577	121.9478	-0.47									
			37.43577	121.9478	-0.15									
			37.43575	121.9479	-0.32									
			37.43575	121.9479	-0.66									
			37.43577	121.9479	-0.64									
			37.43575	121.948	-0.72									
			37.43577	121.948	-0.5									
			37.43575	121.948	-0.55									
			37.43575	121.948	-0.35									
			37.43575	121.9481	-0.24									
			37.43573	121.9481	-0.52									
			37.43573	121.9481	-0.36									
			37.43572	121.9482	-0.38									
			37.43573	121.9482	-0.46									
			37.43577	121.9482	-0.32									
			37.43577	121.9482	-0.19									
			37.43577	121.9482	0.05									
			37.43577	121.9482	0.91									
			37.43577	121.9482	1.96									
			37.43577	121.9482	0.95									
			37.43577	121.9483	1.04									
			37.43578	121.9483	1.49									
			37.43578	121.9483	0.37									
			37.43577	121.9483	0.03									
			37.43575	121.9484	-0.28									
			37.43577	121.9484	-0.16									
			37.43577	121.9485	0.01									
			37.43577	121.9485	-0.13									
			37.43575	121.9485	-0.17									
			37.43575	121.9486	-0.1									
			37.43575	121.9486	-0.13									
			37.43577	121.9486	-0.1									
			37.43577	121.9487	-0.14									
			37.43575	121.9487	-0.15									
			37.43575	121.9487	0.1									
			37.43575	121.9488	-0.04									
			37.43575	121.9488	-0.04									
			37.43575	121.9488	0.11									
			37.43573	121.9488	-0.05									
			37.43572	121.9488	0.07									
			37.43568	121.9488	-0.07									
			37.43565	121.9487	-0.07									
			37.43563	121.9487	0.51									
			37.43562	121.9487	0.61									
			37.4356	121.9487	-0.17									
			37.43558	121.9487	0.21									
			37.43557	121.9487	-0.27									
			37.43555	121.9487	-0.29									
			37.43555	121.9486	-0.32									
			37.43555	121.9486	-0.21									
			37.43555	121.9486	-0.2									
			37.43557	121.9486	-0.1									
			37.43557	121.9485	-0.31									
			37.43555	121.9485	-0.1									

Nine Par Landfill
Surface Emissions Monitoring Data

Grid 1 Results			Grid 2 Results			Grid 3 Results			Grid 4 Results			Grid 5 Results		
Latitude	Longitude	Methane (ppm)	Latitude	Longitude	Methane (ppm)	Latitude	Longitude	Methane (ppm)	Latitude	Longitude	Methane (ppm)	Latitude	Longitude	Methane (ppm)
			37.43555	121.9485	-0.19									
			37.43555	121.9485	-0.37									
			37.43555	121.9484	-0.31									
			37.43557	121.9484	-0.07									
			37.43557	121.9484	-0.55									
			37.43557	121.9483	-0.53									
			37.43557	121.9483	-0.51									
			37.43557	121.9483	-0.47									
			37.43557	121.9483	-0.63									
			37.43557	121.9483	-0.68									
			37.43557	121.9483	-0.69									
			37.43557	121.9483	-0.59									
			37.43557	121.9483	-0.67									
			37.43557	121.9482	-0.68									
			37.43558	121.9482	-0.53									
			37.43558	121.9482	-0.39									
			37.43558	121.9481	-0.69									
			37.43558	121.9481	-0.68									
			37.43558	121.9481	-0.61									
			37.4356	121.948	-0.65									
			37.43558	121.948	-0.8									
			37.43558	121.948	-0.72									
			37.43558	121.948	-0.48									
			37.4356	121.948	-0.57									
			37.4356	121.948	-0.56									
			37.4356	121.9479	-0.5									
			37.4356	121.9479	-0.55									
			37.43558	121.9478	-0.54									
			37.43557	121.9478	-0.41									
			37.43558	121.9478	-0.45									
			37.43557	121.9478	-0.52									
			37.43557	121.9477	-0.18									
			37.43557	121.9477	-0.41									
			37.43557	121.9477	-0.32									
			37.43557	121.9476	-0.07									
			37.43558	121.9476	-0.35									
			37.43558	121.9476	-0.43									
			37.43558	121.9475	1.4									
			37.43557	121.9475	-0.18									
			37.43557	121.9475	-0.15									
			37.43557	121.9475	0.1									
			37.43557	121.9474	1.74									
			37.43558	121.9474	2.14									
			37.43558	121.9473	0.86									
			37.43558	121.9473	0.39									
			37.43558	121.9473	-0.14									
			37.43558	121.9473	-0.32									
			37.43558	121.9473	-0.13									
			37.43558	121.9473	-0.23									
			37.43558	121.9473	-0.05									
			37.43558	121.9473	-0.4									
			37.43558	121.9472	-0.43									
			37.43558	121.9472	-0.51									
			37.4356	121.9472	-0.5									
			37.43558	121.9471	-0.54									
			37.43558	121.9471	-0.52									
			37.43558	121.9471	-0.53									
			37.43558	121.947	-0.5									
			37.43558	121.947	-0.44									
			37.43558	121.947	-0.56									
			37.43557	121.947	-0.43									
			37.43553	121.947	-0.48									
			37.43552	121.9469	-0.45									
			37.43552	121.9469	-0.42									
			37.43552	121.9469	-0.05									
			37.4355	121.9468	-0.03									
			37.43548	121.9468	-0.15									
			37.43548	121.9468	-0.2									
			37.43548	121.9468	-0.26									
			37.43545	121.9467	-0.24									
			37.43545	121.9467	-0.34									
			37.43545	121.9466	-0.4									
			37.43545	121.9466	-0.42									
			37.43545	121.9465	-0.45									
			37.43543	121.9465	-0.51									
			37.43542	121.9465	-0.64									
			37.43542	121.9465	-0.65									
			37.43542	121.9465	-0.41									
			37.43542	121.9465	-0.46									
			37.43542	121.9465	-0.37									
			37.43542	121.9465	-0.34									
			37.43542	121.9465	-0.4									
			37.43542	121.9465	-0.37									
			37.43538	121.9465	-0.33									
			37.43535	121.9465	-0.47									
			37.43533	121.9465	-0.4									
			37.4353	121.9466	-0.32									
			37.43528	121.9466	-0.18									
			37.43527	121.9466	-0.49									
			37.43527	121.9467	-0.66									
			37.43525	121.9467	-0.26									
			37.43522	121.9468	-0.17									
			37.4352	121.9468	-0.03									
			37.43517	121.9469	-0.14									
			37.43515	121.9469	0.02									
			37.43513	121.947	0.63									
			37.43515	121.947	1.12									

Nine Par Landfill
Surface Emissions Monitoring Data

Grid 1 Results			Grid 2 Results			Grid 3 Results			Grid 4 Results			Grid 5 Results		
Latitude	Longitude	Methane (ppm)	Latitude	Longitude	Methane (ppm)	Latitude	Longitude	Methane (ppm)	Latitude	Longitude	Methane (ppm)	Latitude	Longitude	Methane (ppm)
			37.43517	121.947	0.67									
			37.4352	121.9471	-0.17									
			37.4352	121.9471	-0.16									
			37.43523	121.9471	0.19									
			37.43525	121.9472	-0.07									
			37.43527	121.9472	-0.4									
			37.43528	121.9473	-0.27									
			37.4353	121.9473	-0.35									
			37.43528	121.9474	-0.38									
			37.43532	121.9474	1.41									
			37.43533	121.9474	-0.2									
			37.43533	121.9474	-0.08									
			37.43535	121.9475	-0.12									
			37.43537	121.9475	-0.33									
			37.43538	121.9475	-0.41									
			37.4354	121.9476	-0.31									
			37.4354	121.9476	-0.1									
			37.43542	121.9476	-0.04									
			37.43542	121.9477	-0.36									
			37.43543	121.9477	-0.62									
			37.43543	121.9477	-0.47									
			37.43543	121.9477	-0.55									
			37.43545	121.9478	-0.39									
			37.43545	121.9478	-0.54									
			37.43545	121.9478	-0.53									
			37.43547	121.9479	-0.57									
			37.43548	121.9479	-0.61									
			37.43548	121.9479	-0.56									
			37.43548	121.9479	-0.55									
			37.43548	121.9479	-0.56									
			37.43548	121.948	-0.58									
			37.43548	121.948	-0.59									
			37.43548	121.948	-0.38									
			37.43548	121.948	-0.33									
			37.43548	121.948	-0.41									
			37.43548	121.948	-0.32									
			37.43548	121.948	1.77									
			37.43548	121.9481	-0.46									
			37.43548	121.9481	-0.5									
			37.43548	121.948	-0.52									
			37.43547	121.9481	-0.58									
			37.43547	121.9481	-0.52									
			37.43545	121.9481	-0.52									
			37.43543	121.9481	-0.59									
			37.43543	121.9482	-0.4									
			37.43543	121.9483	-0.42									
			37.43542	121.9483	-0.38									
			37.43542	121.9484	-0.59									
			37.4354	121.9484	-0.59									
			37.43538	121.9485	-0.59									
			37.43533	121.9484	-0.6									
			37.4353	121.9484	-0.53									
			37.43528	121.9484	-0.37									
			37.43528	121.9484	-0.43									
			37.43527	121.9484	-0.5									
			37.43525	121.9484	-0.49									
			37.43525	121.9484	-0.47									
			37.43523	121.9483	-0.45									
			37.4352	121.9483	-0.37									
			37.43518	121.9482	-0.06									
			37.4352	121.9482	0.06									
			37.43518	121.9482	0.45									
			37.43517	121.9481	0.39									
			37.43515	121.9481	0.24									
			37.43515	121.9481	0.16									
			37.43513	121.948	0.16									
			37.43512	121.948	0.1									
			37.4351	121.948	0.52									
			37.43507	121.9479	0.45									
			37.43505	121.9479	0.54									
			37.43503	121.9478	-0.18									
			37.43503	121.9478	-0.47									
			37.43502	121.9477	-0.25									
			37.435	121.9477	-0.38									
			37.43498	121.9477	-0.41									
			37.43497	121.9476	0.01									
			37.43497	121.9476	0									
			37.43495	121.9475	0.03									
			37.43493	121.9475	8.66									
			37.43492	121.9475	-0.31									
			37.4349	121.9474	-0.11									
			37.4349	121.9474	-0.06									
			37.4349	121.9474	-0.42									
			37.4349	121.9474	-0.26									
			37.43488	121.9475	-0.22									
			37.43487	121.9476	-0.23									
			37.43485	121.9476	-0.54									
			37.43483	121.9477	-0.51									
			37.4348	121.9477	-0.51									
			37.43482	121.9478	-0.58									
			37.43482	121.9478	-0.62									
			37.43478	121.9478	-0.77									
			37.4348	121.9478	-0.43									
			37.4348	121.9478	-0.33									
			37.4348	121.9478	-0.64									
			37.4348	121.9478	-0.67									
			37.4348	121.9478	-0.63									

Nine Par Landfill
Surface Emissions Monitoring Data

Grid 1 Results			Grid 2 Results			Grid 3 Results			Grid 4 Results			Grid 5 Results		
Latitude	Longitude	Methane (ppm)	Latitude	Longitude	Methane (ppm)	Latitude	Longitude	Methane (ppm)	Latitude	Longitude	Methane (ppm)	Latitude	Longitude	Methane (ppm)
			37.4348	121.9478	-0.19									
			37.4348	121.9478	-0.66									
			37.4348	121.9478	-0.66									
			37.4348	121.9478	-0.84									
			37.4348	121.9478	-0.53									
			37.4348	121.9478	-0.83									
			37.4348	121.9478	-0.5									
			37.4348	121.9478	-0.53									
			37.4348	121.9478	-0.53									
			37.4348	121.9478	-0.47									
			37.4348	121.9478	-0.51									
			37.4348	121.9478	-0.65									
			37.4348	121.9478	-0.76									
			37.4348	121.9478	-0.59									
			37.4348	121.9478	-0.49									
			37.4348	121.9478	-0.48									
			37.4348	121.9478	-0.47									
			37.4348	121.9478	-0.44									
			37.4348	121.9478	-0.19									
			37.4348	121.9478	-0.21									
			37.4348	121.9478	-0.41									
			37.4348	121.9478	-0.36									
			37.4348	121.9478	-0.27									
			37.4348	121.9478	-0.34									
			37.4348	121.9478	-0.82									
			37.4348	121.9478	-0.6									

Nine Par Landfill
Surface Emissions Monitoring Data

Grid 6 Results			Grid 7 Results			Grid 8 Results			Grid 9 Results		
Latitude	Longitude	Methane (ppm)	Latitude	Longitude	Methane (ppm)	Latitude	Longitude	Methane (ppm)	Latitude	Longitude	Methane (ppm)
37.43505	121.9514	-1.28	37.43538	121.952	-1.23	37.43423	121.9525	-1.24	37.43535	121.9542	-2.02
37.43503	121.9514	-1.07	37.43543	121.952	-0.99	37.43427	121.9525	-1.41	37.43538	121.9543	-1.56
37.43505	121.9514	-1.23	37.43548	121.952	-0.29	37.4343	121.9526	-1.94	37.43542	121.9543	-0.28
37.43507	121.9515	-1.07	37.43553	121.9521	-1.21	37.43428	121.9526	-1.32	37.43547	121.9543	-0.76
37.4351	121.9515	-0.7	37.43558	121.9521	-1.31	37.43425	121.9527	-1.17	37.4355	121.9543	-0.78
37.43513	121.9516	-0.43	37.43563	121.9521	-1.3	37.43423	121.9527	-1.17	37.43555	121.9544	-0.72
37.43515	121.9516	-0.69	37.43567	121.9522	-1.5	37.43422	121.9528	-1.36	37.43558	121.9544	-0.76
37.4352	121.9517	-0.99	37.43572	121.9522	-1.19	37.43418	121.9528	-1.43	37.43562	121.9544	-0.78
37.43523	121.9517	-0.99	37.43577	121.9522	-1.25	37.43413	121.9527	-1.25	37.43567	121.9545	-0.89
37.43528	121.9518	-1.22	37.43583	121.9523	-1.3	37.4341	121.9526	-1.25	37.4357	121.9545	-1.27
37.43533	121.9518	-1.25	37.43588	121.9523	-1.49	37.43403	121.9526	-1.51	37.43573	121.9545	-0.83
37.43535	121.9518	-1.25	37.43593	121.9524	-1.53	37.43398	121.9526	-1.48	37.43577	121.9545	-1.09
37.4354	121.9519	-1.15	37.43598	121.9524	-1.28	37.43395	121.9525	-1.39	37.43582	121.9546	-1.02
37.43543	121.9519	-1.11	37.43602	121.9525	-1.35	37.4339	121.9525	-1.69	37.43585	121.9546	-1.07
37.43547	121.952	-1.01	37.43607	121.9525	-1.35	37.43385	121.9525	-1.6	37.43588	121.9546	-0.82
37.43552	121.952	-1.1	37.4361	121.9526	-1.03	37.4338	121.9524	-1.65	37.43592	121.9546	-0.87
37.43557	121.952	-1.11	37.43615	121.9526	-0.68	37.43377	121.9524	-1.63	37.43595	121.9547	-0.83
37.4356	121.9521	-0.93	37.43618	121.9526	-0.62	37.43372	121.9523	-1.42	37.43598	121.9547	-0.94
37.43565	121.9521	-0.92	37.43622	121.9526	-0.8	37.43368	121.9523	-1.65	37.43602	121.9547	-0.95
37.43568	121.9522	-0.87	37.43625	121.9527	-0.72	37.43365	121.9523	-1.42	37.43605	121.9547	-0.98
37.43573	121.9522	-0.86	37.43628	121.9527	-0.81	37.43362	121.9523	-1.09	37.43608	121.9548	0.4
37.43577	121.9522	-0.84	37.43627	121.9528	-0.81	37.43358	121.9522	-1.23	37.43613	121.9548	-0.4
37.43583	121.9523	-0.69	37.43627	121.9529	-0.57	37.43353	121.9522	-1.17	37.43617	121.9548	-0.87
37.43588	121.9523	-0.96	37.43625	121.9529	-1.11	37.43348	121.9522	-1.48	37.4362	121.9549	-1.08
37.43595	121.9524	-0.86	37.43625	121.953	-1.14	37.43345	121.9522	-1.46	37.43625	121.9549	-0.95
37.436	121.9524	-0.37	37.43623	121.953	-1.09	37.4334	121.9521	-1.32	37.43628	121.9549	-1.07
37.43607	121.9524	0.72	37.43625	121.9531	-0.87	37.43335	121.9521	-1.21	37.43632	121.9549	-1.32
37.4361	121.9524	-1.07	37.43625	121.9531	-1.01	37.43332	121.9521	-1.15	37.43635	121.955	-0.96
37.43615	121.9524	-0.73	37.43625	121.9531	-1.02	37.43327	121.9521	-1.07	37.43633	121.955	-0.98
37.4362	121.9524	1.21	37.43625	121.9531	-0.91	37.43325	121.9521	-1.26	37.43628	121.955	-0.95
37.43623	121.9524	-0.26	37.43623	121.9531	-1.28	37.43322	121.952	-1.55	37.43625	121.955	-0.91
37.43625	121.9524	-0.41	37.43617	121.953	-1.1	37.43318	121.952	-1.14	37.4362	121.9549	-0.82
37.43627	121.9524	0.59	37.43612	121.953	-1.33	37.4332	121.952	-1.15	37.43617	121.9549	-0.88
37.43628	121.9523	-0.05	37.43607	121.9529	-1.29	37.43318	121.9519	-1.08	37.43613	121.9549	-0.99
37.43628	121.9522	1.44	37.43602	121.9529	-1.29	37.43313	121.9519	-1.19	37.4361	121.9548	-0.89
37.43628	121.9522	-1.27	37.43597	121.9529	-1.16	37.43307	121.9519	-1.37	37.43607	121.9548	-0.91
37.43628	121.9521	-1.16	37.43592	121.9528	-1.48	37.43303	121.9519	-1.46	37.43603	121.9548	-0.9
37.43628	121.9521	-1.1	37.43587	121.9528	-1.52	37.433	121.952	-1.48	37.436	121.9548	-0.66
37.43628	121.9521	-1.34	37.43582	121.9528	-1.44	37.43298	121.952	-1.33	37.43597	121.9547	-0.77
37.43628	121.9521	-1.05	37.4358	121.9528	-1.41	37.43297	121.9521	-1.28	37.43593	121.9547	-0.78
37.43627	121.9521	-1.29	37.43577	121.9528	-1.3	37.43297	121.9521	-1.26	37.4359	121.9547	-0.7
37.43623	121.9521	-1.2	37.43573	121.9527	-1.2	37.43293	121.9521	-1.44	37.43587	121.9547	-0.81
37.43618	121.9521	-1.14	37.43568	121.9527	-1.21	37.43288	121.9522	-1.44	37.43583	121.9546	-1.01
37.43613	121.9521	-1.24	37.43565	121.9526	-1.5	37.43288	121.9522	-1.28	37.4358	121.9546	-0.83
37.43608	121.9521	-1.09	37.43563	121.9526	-1.3	37.43288	121.9522	-1.33	37.43577	121.9546	-0.95
37.43605	121.952	-0.92	37.4356	121.9526	-1.17	37.43288	121.9522	-1.36	37.43572	121.9545	-1.01
37.436	121.952	-1.2	37.43558	121.9525	-1.15	37.43288	121.9522	-1.26	37.43568	121.9545	-0.85
37.43598	121.9519	-1.21	37.43555	121.9525	-0.83	37.4329	121.9522	-1.31	37.43563	121.9545	-0.59
37.43593	121.9519	-1.22	37.43552	121.9525	-0.9	37.43295	121.9522	-1.32	37.4356	121.9545	-0.5
37.4359	121.9519	-1.19	37.43552	121.9525	-0.65	37.43302	121.9523	-1.26	37.43557	121.9544	-0.92
37.43587	121.9518	-1.16	37.43552	121.9525	-0.91	37.43307	121.9523	-1.08	37.43552	121.9544	-0.69
37.43583	121.9518	-0.97	37.43548	121.9525	-0.88	37.43312	121.9523	-1.22	37.43548	121.9544	-0.87
37.43578	121.9517	-1.27	37.43543	121.9524	-1.12	37.43307	121.9523	-1.45	37.43545	121.9544	-1.02
37.43577	121.9517	-1.19	37.43538	121.9524	-1.01	37.43312	121.9523	-1.32	37.4354	121.9543	-0.97
37.43573	121.9516	-1.12	37.43535	121.9523	-1.01	37.43318	121.9524	-1.28	37.43537	121.9543	-1.01
37.43568	121.9516	-1.14	37.4353	121.9523	-0.74	37.4332	121.9524	-1.11	37.43533	121.9543	-0.78
37.43563	121.9516	-1.18	37.43527	121.9522	-0.78	37.43322	121.9524	-1.3	37.43528	121.9543	-0.71
37.43562	121.9516	-1.16	37.43523	121.9522	-0.51	37.43328	121.9524	-1.21	37.43525	121.9542	-0.55
37.43558	121.9516	-1.17	37.43522	121.9521	-0.79	37.43335	121.9524	-1.15	37.4352	121.9542	-0.69
37.43557	121.9516	-1.05	37.43517	121.9521	-0.91	37.4334	121.9525	-1.15	37.43517	121.9542	-0.75
37.43553	121.9515	-1.02	37.43513	121.9521	-0.95	37.43345	121.9525	-1.22	37.43512	121.9541	-0.78
37.4355	121.9515	-0.86	37.43508	121.952	-1.02	37.4335	121.9525	-1.45	37.43508	121.9541	-0.44
37.43545	121.9514	-1.03	37.43505	121.952	-1.07	37.43353	121.9525	-1.45	37.43505	121.9541	-0.52
37.43542	121.9513	-0.99	37.43502	121.952	-1.16	37.43357	121.9525	-1.27	37.435	121.9541	-0.53
37.43538	121.9513	-1.03	37.43498	121.9519	-1.13	37.43362	121.9526	-1.14	37.43497	121.954	-0.74
37.43533	121.9512	-0.86	37.43495	121.9519	-1.16	37.43367	121.9526	-1.24	37.43493	121.954	-0.83
37.4353	121.9512	-0.55	37.4349	121.9519	-1.22	37.43372	121.9526	-1.24	37.4349	121.954	-0.95
37.43527	121.9511	-1.04	37.43485	121.9518	-1.21	37.43377	121.9526	-1.18	37.43487	121.954	-0.77
37.43525	121.9511	-1.01	37.43483	121.9518	-1.2	37.43382	121.9527	-1.11	37.43482	121.9539	-0.71
37.43525	121.951	-0.99	37.4348	121.9517	-1.14	37.43387	121.9527	-1.16	37.43477	121.9539	-0.82
37.43525	121.951	-1.01	37.43477	121.9517	-1.2	37.43392	121.9527	-0.98	37.43473	121.9539	-0.82
37.43523	121.951	-1.2	37.43473	121.9517	-1.19	37.43397	121.9528	-1.12	37.4347	121.9538	-0.84
37.43518	121.951	-0.99	37.43468	121.9516	-1.13	37.43402	121.9528	-1.15	37.43465	121.9538	-0.82
37.43513	121.951	-1.03	37.43465	121.9516	-1.2	37.43407	121.9528	-0.97	37.43462	121.9537	-0.77
37.43507	121.951	-1.1	37.4346	121.9516	-1.17	37.43412	121.9528	-0.98	37.4346	121.9537	-0.95
37.43502	121.9509	-1.24	37.43457	121.9516	-1.16	37.43413	121.9528	-1.39	37.43457	121.9536	-1.5
37.43495	121.9509	-1.31	37.43452	121.9516	-1.12	37.43417	121.9529	-1.56	37.43455	121.9536	-1.52
37.4349	121.9509	-1.33	37.43447	121.9516	-1	37.4342	121.953	-1.14	37.43455	121.9536	-1.24
37.43485	121.9509	-1.15	37.43443	121.9517	-1.19	37.43417	121.953	-1.31	37.43455	121.9535	-0.8
37.43482	121.9509	-1.29	37.43438	121.9517	-0.43	37.43412	121.9529	-1.33	37.43453	121.9535	-1.09
37.43477	121.9509	-1.33	37.43433	121.9517	0.97	37.4341	121.9528	-1.27	37.43453	121.9535	-1.11
37.43473	121.9509	-1.07	37.43428	121.9517	2.41	37.43408	121.9528	-1.26	37.4345	121.9535	-0.86
37.43468	121.9508	-1.33	37.43427	121.9518	-1.1	37.43403	121.9528	-1.2	37.43448	121.9534	-0.68
37.43463	121.9508	-1.37	37.43423	121.9518	-1.11	37.434	121.9528	-1.2	37.43445	121.9534	-0.51
37.43462	121.9508	-1.32	37.4342	121.9518	-1.26	37.43395	121.9529	-1.19	37.4344	121.9534	0.41
37.43465	121.9507	-1.38	37.43415	121.9518	-1.25	37.4339	121.9529	-1.27	37.4344	121.9533	0.38
37.43467	121.9507	-1.26	37.43412	121.9517	-1.01	37.43385	121.953	-1.27	37.43438	121.9533	0.85
37.43468	121.9506	-1.36	37.43412	121.9518	-1.1	37.4338	121.953	-1.19	37.43437	121.9532	-0.55
37.4347	121.9505	-1.23	37.43415	121.9519	-1.28	37.43375	121.953	-0.88	37.43438	121.9532	-0.49
37.43472	121.9505	-1.24	37.43417	121.9519	-1.42	37.43373	121.953	-1.28	37.4344	121.9531	-0.51
37.43472	121.9505	-1.16	37.4342	121.952	-0.97	37.43368	121.953	-1.47	37.43445	121.9531	-0.46
37.43472	121.9505	-1.03	37.4342	121.952	-1.19	37.43362	121.953	-1.11	37.4345	121.9532	0
37.43472	121.9505	-1.15	37.4342	121.952	-1.48	37.43357	121.953	-1.12	37.43455	121.9532	-0.26
37.43472	121.9505	-0.26	37.4342	121.952	-1.39	37.43353	121.9529	-1.38	37.4346	121.9532	-0.49
37.43472	121.9505	-0.86	37.43423	121.952	-1.21	37.43348	121.9529	-0.99	37.43465	121.9532	-0.8
37.43472	121.9505	-0.95	37.4343	121.952	-0.98	37.43345	121.9529	-0.97	37.43468	121.9532	-0.11
37.43473	121.9506	-0.86	37.43435	121.952	-1.36	37.4334	121.9529	-1.27	37.43473	121.9532	-0.98

Nine Par Landfill
Surface Emissions Monitoring Data

Grid 6 Results

Latitude	Longitude	Methane (ppm)
37.4348	121.9506	-0.91
37.43485	121.9506	-1.03
37.4349	121.9506	-1.01
37.43495	121.9507	-1.03
37.435	121.9507	-1.07
37.43505	121.9507	-1.06
37.4351	121.9507	-0.97
37.43513	121.9508	-0.88
37.43518	121.9508	-1.01
37.43522	121.9509	-1.08
37.43527	121.9509	-1.08
37.4353	121.9509	-1.15
37.43533	121.951	-1.11
37.43537	121.951	-1.13
37.4354	121.9511	-0.91
37.43545	121.9511	-0.99
37.4355	121.9511	-1.18
37.43553	121.9512	-1.33
37.43557	121.9512	-1.35
37.4356	121.9512	-1.33
37.43565	121.9513	-1.03
37.43568	121.9513	-1.32
37.43573	121.9513	-1.41
37.43577	121.9513	-1.43
37.43578	121.9513	-1.4
37.43582	121.9514	-1.28
37.43585	121.9514	-1.45
37.4359	121.9514	-1.46
37.43595	121.9514	-1.08
37.436	121.9515	-1.28
37.43603	121.9515	-1.22
37.43607	121.9516	-1.2
37.43612	121.9516	-1.26
37.43617	121.9516	-1
37.4362	121.9516	-0.99
37.43623	121.9516	-1.11
37.43628	121.9516	-1.15
37.4363	121.9517	-1.25
37.43632	121.9517	-1.24
37.43633	121.9518	-1.39
37.43633	121.9518	-1.2
37.43633	121.9518	-0.91
37.43633	121.9518	-1.04
37.43632	121.9517	-0.37
37.43632	121.9516	-1.24
37.4363	121.9516	-1.04
37.4363	121.9516	-1.33
37.4363	121.9516	-1.37
37.4363	121.9516	-1.4
37.4363	121.9515	-1.42
37.4363	121.9515	-1.18
37.4363	121.9515	-1.24
37.4363	121.9515	-1.26
37.4363	121.9515	-1.37
37.4363	121.9515	-1.36
37.4363	121.9515	-1.48
37.4363	121.9515	-1.29
37.4363	121.9515	-1.51
37.4363	121.9515	-1.2
37.4363	121.9515	-1.3
37.4363	121.9515	-1.29
37.4363	121.9515	-1.25
37.4363	121.9515	-1.17
37.4363	121.9515	-1.16
37.4363	121.9515	-1
37.4363	121.9515	-1.09
37.4363	121.9515	-1.17
37.4363	121.9515	-1.04
37.4363	121.9515	-1.05
37.4363	121.9515	-1.37
37.4363	121.9515	-1.29
37.4363	121.9515	-1.41
37.4363	121.9515	-1.52
37.4363	121.9515	-1.51
37.4363	121.9515	-1.47
37.4363	121.9515	-1.37
37.4363	121.9515	-1.26
37.4363	121.9515	-1.35
37.43625	121.9515	-1.36
37.4362	121.9515	-1.26
37.43615	121.9515	-1.11
37.43612	121.9515	-1.36
37.43607	121.9515	-1.2
37.43605	121.9514	-0.86
37.43602	121.9513	-0.91
37.43597	121.9513	-1.12
37.43592	121.9512	-1.16
37.43588	121.9512	-1.18
37.43585	121.9511	-1.27
37.43583	121.9511	-1.24
37.4358	121.9511	-1.29
37.43575	121.951	-1.42
37.4357	121.951	-1.36
37.43565	121.9509	-1.15
37.4356	121.9509	-1.25
37.43555	121.9509	-1.41
37.4355	121.9508	-0.98

Grid 7 Results

Latitude	Longitude	Methane (ppm)
37.43442	121.952	-1.41
37.43447	121.952	-1.33
37.43452	121.952	-1.38
37.43457	121.952	-1.45
37.43463	121.9521	-1.2
37.4347	121.9521	-1.43
37.43475	121.9521	-1.18
37.43478	121.9521	-1.38
37.4348	121.9521	-1.44
37.43482	121.9522	-1.3
37.43483	121.9521	-1.32
37.43487	121.9521	-0.96
37.4349	121.9521	-0.9
37.43495	121.9522	-0.86
37.43498	121.9522	-0.99
37.43502	121.9522	-1.17
37.43505	121.9522	-1.11
37.4351	121.9523	-1.07
37.43513	121.9523	-1.17
37.43517	121.9523	-1.21
37.43522	121.9523	-1.16
37.43523	121.9523	-1.15
37.43527	121.9524	-1.15
37.43528	121.9524	-1.32
37.43532	121.9525	-1.3
37.43535	121.9525	-1.55
37.43538	121.9526	-1.19
37.43543	121.9526	-1.5
37.43547	121.9526	-1.52
37.4355	121.9527	-1.52
37.43553	121.9527	-1.05
37.43557	121.9527	-1.24
37.4356	121.9528	-1.25
37.43565	121.9528	-1.44
37.4357	121.9529	-1.17
37.43575	121.9529	-1.18
37.43578	121.9529	-1.15
37.43583	121.953	-1.33
37.43588	121.953	-1.3
37.43593	121.953	-1.17
37.43598	121.9531	-1
37.43603	121.9531	-0.98
37.43608	121.9532	-1.15
37.43612	121.9532	-1.05
37.43613	121.9532	-1.18
37.43618	121.9533	-1.08
37.43622	121.9533	-1.1
37.43623	121.9534	-1.22
37.43625	121.9534	-1.14
37.43623	121.9534	-1.1
37.43622	121.9534	-1.09
37.43623	121.9534	-0.79
37.43623	121.9534	-0.86
37.43623	121.9534	-0.95
37.43618	121.9534	-1.2
37.43615	121.9534	-1.01
37.43613	121.9535	-1.06
37.43612	121.9536	-0.9
37.4361	121.9536	-0.81
37.43612	121.9537	-0.91
37.43612	121.9537	-0.9
37.43612	121.9537	-0.64
37.43612	121.9537	-0.58
37.4361	121.9537	-0.97
37.43605	121.9536	-0.96
37.43603	121.9536	-1.27
37.436	121.9535	-1.27
37.43597	121.9535	-1.27
37.43593	121.9534	-1.17
37.4359	121.9534	-1.23
37.43587	121.9534	-1.07
37.43583	121.9533	-0.8
37.43582	121.9532	-0.92
37.4358	121.9532	-1.21
37.43575	121.9532	-1.11
37.43572	121.9531	-1.2
37.43568	121.9531	-1.24
37.43563	121.953	-1.23
37.4356	121.953	-1.05
37.43557	121.9529	-0.96
37.43553	121.9529	-1.35
37.43552	121.9528	-1.1
37.4355	121.9528	-1.08
37.43545	121.9527	-1.14
37.43543	121.9527	-0.93
37.4354	121.9527	-0.99
37.43537	121.9526	-0.95
37.43535	121.9526	-1.06
37.43532	121.9526	-1.11
37.43527	121.9525	-1.05
37.43522	121.9525	-0.8
37.43517	121.9525	-0.98
37.43512	121.9524	-0.98
37.43508	121.9524	-0.93
37.43505	121.9524	-0.9
37.43503	121.9523	-0.97
37.43503	121.9523	-0.86

Grid 8 Results

Latitude	Longitude	Methane (ppm)
37.43338	121.9528	-1.32
37.43335	121.9528	-1.27
37.43332	121.9528	-1.16
37.43327	121.9527	-1.47
37.43323	121.9527	-1.28
37.4332	121.9527	-1.18
37.43317	121.9526	-1.23
37.43313	121.9526	-1.14
37.43312	121.9525	-1.2
37.43308	121.9525	-1.06
37.43305	121.9524	-1.08
37.433	121.9524	-1
37.43295	121.9524	-1.16
37.4329	121.9524	-0.55
37.43287	121.9524	-0.64
37.43283	121.9524	-0.56
37.4328	121.9524	-1.04
37.4328	121.9524	-1.1
37.4328	121.9524	-0.93
37.4328	121.9524	-0.93
37.4328	121.9524	-0.99
37.4328	121.9524	-0.93
37.4328	121.9524	-1.02
37.4328	121.9524	-0.97
37.4328	121.9524	-0.95
37.4328	121.9524	-0.89
37.4328	121.9524	-1.07
37.43282	121.9524	-1.04
37.43282	121.9524	-1.03
37.43282	121.9524	-1.02
37.43282	121.9524	-1.1
37.43282	121.9524	-1.04
37.43282	121.9524	-1.07
37.43282	121.9524	-1.15
37.43282	121.9524	-1.17
37.43287	121.9524	-1.16
37.43292	121.9524	-1.13
37.433	121.9524	-1.14
37.43307	121.9524	-1.13
37.43312	121.9525	-1.23
37.43317	121.9525	-1
37.43323	121.9525	-0.89
37.4333	121.9526	-0.98
37.43335	121.9526	-0.98
37.43342	121.9526	-1.24
37.43347	121.9526	-1.26
37.43353	121.9527	-0.18
37.43358	121.9527	-0.63

Grid 9 Results

Latitude	Longitude	Methane (ppm)
37.43478	121.9532	-0.97
37.4348	121.9532	-0.92
37.43485	121.9532	-0.79
37.43488	121.9532	-0.94
37.43493	121.9533	-0.98
37.43497	121.9533	-1.05
37.43502	121.9533	-0.81
37.43507	121.9534	-0.73
37.43512	121.9534	-1.14
37.43515	121.9534	-0.89
37.4352	121.9534	-1.03
37.43523	121.9535	-0.95
37.43528	121.9535	-0.93
37.43532	121.9535	-1.35
37.43537	121.9536	-0.66
37.4354	121.9536	-0.46
37.43543	121.9536	-0.62
37.43548	121.9537	-0.91
37.43552	121.9537	-1.07
37.43555	121.9537	-1.21
37.4356	121.9538	-1.14
37.43563	121.9538	-1.07
37.43568	121.9538	-1.06
37.4357	121.9538	-1.12
37.4357	121.9538	-1
37.43572	121.9538	-1.02
37.43575	121.9538	-1.09
37.4358	121.9539	-0.99
37.43583	121.9539	-1.06
37.43588	121.9539	-1.11
37.43593	121.954	-0.8
37.43598	121.954	-0.66
37.43603	121.954	-0.78
37.43608	121.954	-0.8
37.43615	121.954	-0.83
37.43618	121.9541	-0.87
37.43623	121.9541	-0.88
37.43627	121.9541	-0.91
37.43627	121.954	-0.81
37.43627	121.954	-0.69
37.43623	121.9539	-0.85
37.43618	121.9539	-1.06
37.43613	121.9539	-1
37.43612	121.9539	-0.98
37.43607	121.9538	-0.87
37.43603	121.9538	-0.78
37.436	121.9538	-0.91
37.43595	121.9538	-0.81
37.43592	121.9537	-0.82
37.43588	121.9537	-0.74
37.43583	121.9537	-0.81
37.43578	121.9536	-0.8
37.43573	121.9536	-1.12
37.43568	121.9536	-1.05
37.43565	121.9536	-1.08
37.43563	121.9535	-1.18
37.43558	121.9535	-1.1
37.43553	121.9535	-1.08
37.4355	121.9535	-0.63
37.43547	121.9534	-0.91
37.43545	121.9534	-1.16
37.43542	121.9535	-1.07
37.43535	121.9534	-1.24
37.4353	121.9534	-1.1
37.43527	121.9534	-1.05
37.43527	121.9534	-1.22
37.43527	121.9534	-0.79
37.43527	121.9534	-0.51
37.43527	121.9534	-0.69
37.43525	121.9534	-0.79
37.43518	121.9534	-0.8
37.43512	121.9533	-1.05
37.43505	121.9533	-0.99
37.43503	121.9533	-0.99
37.43502	121.9533	-0.99
37.43502	121.9533	-0.9
37.43502	121.9533	-0.89

Nine Par Landfill
Surface Emissions Monitoring Data

Grid 6 Results			Grid 7 Results			Grid 8 Results			Grid 9 Results		
Latitude	Longitude	Methane (ppm)	Latitude	Longitude	Methane (ppm)	Latitude	Longitude	Methane (ppm)	Latitude	Longitude	Methane (ppm)
37.43545	121.9508	-1.27	37.435	121.9523	-0.95						
37.4354	121.9508	-1.29	37.43497	121.9523	-0.91						
37.43535	121.9508	-1.33	37.43495	121.9522	-0.89						
37.43528	121.9507	-1.28	37.43493	121.9522	-1.13						
37.43523	121.9507	-1.3	37.43492	121.9522	-0.96						
37.43518	121.9507	-1.31	37.43488	121.9521	-1.22						
37.43513	121.9506	-1.2	37.43487	121.9521	-1.11						
37.43508	121.9506	-1.41	37.43485	121.9521	-1.08						
37.43503	121.9506	-1.39	37.43483	121.952	-1.17						
37.435	121.9506	-1.09	37.43478	121.952	-1.32						
37.43495	121.9505	-0.91	37.43473	121.952	-1.25						
37.43492	121.9505	-1.41	37.43472	121.9521	-1.12						
37.43488	121.9504	-1.17	37.43473	121.9522	-0.98						
37.43487	121.9504	-1.15	37.4347	121.9522	-1.12						
37.43482	121.9503	-1.35	37.43467	121.9522	-1.38						
37.43478	121.9503	-1.37	37.43462	121.9521	-1.34						
37.43477	121.9502	-1.49	37.43457	121.9521	-1.35						
37.43478	121.9501	-1.32	37.4345	121.9521	-1.14						
37.4348	121.9501	-1.51	37.43443	121.952	-1.16						
37.43482	121.95	-1.13	37.43442	121.952	-0.79						
37.43483	121.95	-1.21	37.43438	121.952	-1.13						
37.43483	121.95	-1.24	37.43433	121.952	-1.16						
37.43483	121.95	-1.25	37.43435	121.9521	-0.91						
37.43483	121.95	-1.19	37.43433	121.9522	-1.31						
37.43485	121.95	-1.15	37.43428	121.9523	-1.16						
37.4349	121.95	-0.69	37.4342	121.9522	-1.1						
37.43495	121.9501	-0.43	37.43413	121.9522	-0.92						
37.435	121.9501	-0.79	37.4341	121.9522	-0.97						
37.43507	121.9501	-0.72	37.43407	121.9522	-0.93						
37.43512	121.9502	-1.43	37.43402	121.9522	-1.18						
37.43517	121.9502	-1.21	37.43397	121.9522	-1.03						
37.43522	121.9502	-1.16	37.43393	121.9523	-1.05						
37.43527	121.9502	-1.26	37.43387	121.9523	-0.95						
37.43532	121.9503	-0.53	37.43382	121.9523	-1						
37.43537	121.9503	-0.63	37.43377	121.9523	-0.99						
37.4354	121.9503	-0.65	37.43372	121.9523	-0.84						
37.43545	121.9503	-1.01	37.43367	121.9522	-0.97						
37.43548	121.9504	-0.93	37.43362	121.9522	-1.45						
37.43553	121.9504	-0.72	37.43357	121.9522	-1.43						
37.43558	121.9504	-0.69	37.43352	121.9521	-1.46						
37.43563	121.9504	-0.71	37.43345	121.9521	-1.01						
37.43567	121.9504	-1.2	37.4334	121.9521	-0.83						
37.4357	121.9505	-1.25	37.43333	121.9521	-1.25						
37.43575	121.9505	-1.17	37.43328	121.9521	-1.28						
37.4358	121.9505	-1.24	37.43322	121.9522	-0.9						
37.43585	121.9506	-1.19	37.4332	121.9522	-1.03						
37.43588	121.9506	-1.18	37.4332	121.9522	-1						
37.43592	121.9507	-1.1	37.4332	121.9522	-1.2						
37.43595	121.9507	-1.2	37.4332	121.9522	-0.95						
37.43595	121.9507	-1.19	37.4332	121.9522	-0.81						
37.43597	121.9507	-1.28	37.4332	121.9522	-0.84						
37.436	121.9508	-0.94	37.4332	121.9522	-0.89						
37.43603	121.9508	-1.09	37.4332	121.9522	-1.23						
37.43607	121.9509	-1.09	37.4332	121.9522	-1.23						
37.4361	121.9509	-0.92	37.4332	121.9522	-1.23						
37.43613	121.951	-1.19	37.4332	121.9522	-1.09						
37.43617	121.9511	-1.24	37.4332	121.9522	-1.28						
37.43618	121.9512	-1.19	37.4332	121.9522	-1.19						
37.43622	121.9512	-1.16	37.4332	121.9522	-1.44						
37.43625	121.9512	-1.23	37.4332	121.9522	-1.39						
37.4363	121.9512	-1.12	37.4332	121.9522	-1.26						
37.43633	121.9513	-1.25	37.4332	121.9522	-1.02						
37.43632	121.9513	-1.09	37.4332	121.9522	-1.07						
37.43632	121.9512	-0.99	37.4332	121.9522	-1.07						
37.43632	121.9512	-1.28	37.4332	121.9522	-1.08						
37.43632	121.9512	-1.23	37.4332	121.9522	-1.07						
37.43632	121.9512	-1.1	37.4332	121.9522	-0.67						
37.43632	121.9512	-0.95	37.4332	121.9522	-0.49						
37.43632	121.9512	-1.05	37.4332	121.9522	-0.85						
37.43633	121.9512	-0.92	37.4332	121.9522	-0.47						
37.43633	121.9512	-0.81	37.4332	121.9522	-0.9						
37.43633	121.9512	-0.81	37.4332	121.9522	-0.9						
37.43633	121.9512	-1.08	37.4332	121.9522	-1.1						
37.43633	121.9512	-1.37	37.4332	121.9522	-0.78						
37.43633	121.9512	-1.22	37.4332	121.9522	-0.95						
37.43633	121.9512	-1.25	37.4332	121.9522	-1.29						
37.43633	121.9512	-0.99	37.4332	121.9522	-1.14						
37.43633	121.9512	-1.01	37.4332	121.9522	-1.13						
37.43633	121.9512	-0.98	37.4332	121.9522	-1.27						
37.43633	121.9512	-0.86									
37.43633	121.9512	-1.06									
37.43633	121.9512	-0.91									
37.43633	121.9512	-0.96									
37.43633	121.9512	-1.1									
37.43633	121.9512	-1.06									
37.43633	121.9512	-0.99									
37.43633	121.9512	-1.05									
37.43633	121.9512	-0.83									
37.43633	121.9512	-0.81									
37.43633	121.9512	-1									
37.43633	121.9512	-1.05									
37.43633	121.9512	-0.94									
37.43633	121.9512	-1.34									
37.43633	121.9512	-1.1									
37.43633	121.9512	-0.88									

Nine Par Bar Probe Sampling
Data Sheet

Monitoring Date: 3/18/2011

Location Number	Location ID	Date	Time	CH4	CO2	O2	Balance	Pressure
1	G3-5	3/18/2011	9:15	0.0	3.0	16.4	80.6	0.0
2	G3-4	3/18/2011	9:29	0.0	4.7	15.2	80.1	0.0
3	G4-4	3/18/2011	9:48	0.0	3.1	16.9	80.0	0.0
4	G4-3	3/18/2011	10:05	0.0	3.9	14.9	81.2	0.0
5	G8-1	3/18/2011	10:19	9.5	10.6	3.0	76.9	0.0
6	G7-3	3/18/2011	10:35	0.0	8.6	10.7	80.7	0.0
7	G7-2	3/18/2011	10:49	0.0	4.5	16.4	79.1	0.0
8	G6-2	3/18/2011	11:04	0.0	2.4	15.4	82.2	0.0
9	G5-3	3/18/2011	11:19	0.0	1.1	19.2	79.7	0.0
10	G1-1	3/18/2011	11:40	0.0	1.5	19.9	78.6	0.0
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

WATER LEVEL DATA SHEET

Golder Associates

Project: Nine Par

Project No. 103-97163-11

Date(s): 4/20/2011

Technician: M. Todi

Weather: Sunny **Sounder #:**

Well	Date	Time	DTW (TOC)	Well Depth	Measured by	Comments
LW-1	4/20/2011	1537	17.62	NM	MT	
LW-2	4/20/2011	1518	16.81	NM	MT	
LW-3	4/20/2011	1527	15.96	NM	MT	
LW-4	4/20/2011	1546	11.10	NM	MT	

NOTES:

Golder Associates

Nine-Par Landfill

Barhole Sampling

DATE: 3/4/11	**TECHNICIAN: Michael Pierce, Jeff Linder**
EQUIPMENT: Bar hole sampler, GEM 2000, 4-gas	**WEATHER CONDITIONS:** Sunny, warm, dewy
TEMPERATURE: 67°F	**BAROMETRIC PRESSURE:** 30.18

	Bar Probe	Time	CH4 (%)	CH4 (%LEL)	CO2 (%)	O2 (%)	GPS Coordinate	
	G2-7	0930	0	0	8.1	12.2	N37 26.096	W121 56.852
	G3-2	0945	0	0	2.1	17.5	N37 26.106	W121 56.899
@4'	G3-1	1000	17.7	>100%	7.2	0	N3726.116	W121 56.899
@2'	G3-1	1010	15.5	>100%	6.4	1.0	N3726.116	W121 56.899
	G5-1	1015	0	0	6.0	14.0	N3726.171	W121 57.015
loc.	G5-2	1020	0	0	3.0	16.5	N37 26.168	W121 57.003
based	G2-1	1035	0	0	3.0	4.2	N 37 26.172	W 121 56.893
on Map	G2-2	1040	0	0	2.1	17.7	N 37 26.171	W 121 56.863
	G2-6	1050	8.0	>100%	10.4	0	N 3726.133	W 121 56.840
	G2-5	1105	0	0	7.7	7.5	N3726.142	W 121 56.820
refuse	G2-4	1110	0	0	0.6	20.2	N 3726.140	W 121 56.808
@ 4'	G2-3	1125	0	0	2.1	17.5	N 3726.144	W 121 56.803
	G7-1	1325	0	0	2.1	18.0	N 3726.058	W 121 57.104
	LW-1	1345	0.3	7%	1.3	19.1	N 3726.162	W 121 57.081
	G4-1	1400	0	0	3.2	14.8	N 3726.027	W121 57.092
	G4-2	1410	0	0	3.0	15.5	N 3726.042	W 121 57.047
	LW-2	1425	0	0	5.8	12.6	N 3726.108	W 121 56.853
	LW-3	1435	62.3	>100	15.4	0	N 3726.073	W 121 56.988

NOTES:

LANDFILL GAS MONITORING DATA SHEET

Project: Nine Par landfill
Project No.: 103-97163-11
Date: March 28 and 29, 2011
Technician: Jeff Linder
Equipment: GEM 2000, MiniRAE 2000
Weather:

Sampling Point	Sample Date	Sample Time	Purge Time (min)	Purge Time (L/min)	Methane Concentration (% CH_4)	Carbon Dioxide (%)	Oxygen (%)	Hydrogen Sulfide (ppm)	Carbon Monoxide (ppm)	VOCs (PID) (ppm)	Comments
TP-1	3/28	NA	--	--	--	--	--	--	--	--	Not sampled, refuse saturated to cover at 12.5 ft. bgs
TP-2	3/28	16:15	9	0.3	0.5	0.7	19.1	0	19	0.0	Probe at 14 to 15 feet bgs, Summa canister #765
TP-3	3/28	13:40	8	0.3	79.7	21.1	0.0	5	0	0.0	Probe at 12 to 13 feet bgs, Summa canister #789
TP-4	3/29	NA	--	--	--	--	--	--	--	--	Not sampled, refuse saturated to cover at 13.9 ft. bgs
TP-5	3/29	9:30	10	0.3	15.8	13.8	2.9	0	29	1.3	Probe at 9 to 10 feet bgs, Summa canister #804
TP-6	3/29	10:30	7	0.3	10.3	11.8	2.4	0	24	0.0	Probe at 9 to 10 feet bgs, Summa canister #484
TP-7	3/29	12:00	6	0.3	2.0	1.1	18.4	0	11	0.1	Probe at 14.2 to 15 feet bgs, Summa canister #812
TP-8	3/29	NA	--	--	--	--	--	--	--	--	Not sampled, refuse saturated to cover at 11.0 ft. bgs
TP-9	3/29	NA	--	--	--	--	--	--	--	--	Not sampled, refuse saturated to cover at 12.5 ft. bgs
LW-2	3/29	16:30	8	0.3	0.5	0.7	19.3	0	1	0.0	Summa canister #614
LW-3	3/29	16:15	8	0.3	68.8	18.8	0.0	0	7	0.0	Summa canister #791

Notes:

NA = not applicable.
% CH_4 = percent methane by volume
ppm = parts per million by volume
PID = photoionization detector with a 10.6 eV lamp.
GEM 2000 and MiniRAE 2000 instruments calibrated by Ashtead Technology on March 25, 2011

Golder Associates

WATER SAMPLE FIELD DATA

LOCATION: Mine-Par
SAMPLE ID: EB-1
PROJECT NO: 103-97163
SAMPLED BY: JL
CLIENT: Zero Waste
REGULATORY AGENCY: SCVWD

SAMPLE TYPE: Groundwater X Surface Water ____ Leachate ____ Treatment System ____ Other ____

CASING DIAMETER (OD-inches): 3/4 ____ 1 ____ 2 ____ 4 ____ 4.5 ____ 6 ____ 8 ____ Other ____
GALLONS PER LINEAR FOOT : (0.02) (0.04) (0.17) (0.66) (0.83) (1.5) (2.6)

Well Total Depth (ft): 20
Volume in Casing (gal): -
Depth to Water (ft): ~3.5'
Calculated Purge (volumes / gal.): -
Height of Water Column (ft): -
Actual Pre-Sampling Purge (gal): -

PURGE:
Device (Depth of Intake from TOC): S.S. Bailer ____ Teflon Bailer ____ PVC Bailer ____ Disp. Bailer ____
PVC Hand Pump ____ Peristaltic Pump ____ Centrifugal Pump ____ Bladder Pump ____
Pneumatic Displacement Pump ____ Electric Submersible Pump ____ Dedicated ____ Other ____
Purge Water Containment: ____
Field QC Samples Collected at this Well (Equipment or Field Blank): EB-___ FB-___ Other ____

Time (2400 Hr)	Volume (gallons)	Temp. (°C)	Elec. Conductivity (µmhos/cm)	pH (std. units)	Color (visual)	Turbidity (visual)	Other	Observation
~~1500~~								

Purge Date: ____

SAMPLE:
Device (Depth of Intake from TOC): S.S. Bailer ____ Teflon Bailer ____ PVC Bailer ____ Disp. Bailer ____
PVC Hand Pump ____ Peristaltic Pump X Centrifugal Pump ____ Bladder Pump ____
Pneumatic Displacement Pump ____ Electric Submersible Pump ____ Dedicated ____ Other ____

Time (2400 Hr)	Temp. (°C)	Electrical Conductivity (µmhos/cm)	pH (std. units)	Dissolved Oxygen (mg/l)	Color (visual)	Turbidity (NTU)	Other
1500	13.87	36990	7.45	10.03	brown	-	

Sheen: - Odor: - Sample Date: 2/23/11

Field Measurement Devices: Horiba: ~~X~~ YSI: X Oakton Turbidity: ____ D.O. Test Kit: ____

REMARKS: sample from 20' bgs w/ peri pump

SIGNATURE: Jeff Jia **DATE:** 2/23/11

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Golder Associates

WATER SAMPLE FIELD DATA

LOCATION: Nine-Par
SAMPLE ID: EB-2
PROJECT NO: 103-97163
SAMPLED BY: JL
CLIENT: Zero Waste
REGULATORY AGENCY: SCVWD

SAMPLE TYPE: Groundwater X Surface Water ____ Leachate ____ Treatment System ____ Other ____

CASING DIAMETER (OD-inches): 3/4 ____ 1 ____ 2 ____ 4 ____ 4.5 ____ 6 ____ 8 ____ Other ____
GALLONS PER LINEAR FOOT: (0.02) (0.04) (0.17) (0.66) (0.83) (1.5) (2.6)

Well Total Depth (ft): 26.5
Volume in Casing (gal): ____
Depth to Water (ft): ~4-4.5
Calculated Purge (volumes / gal.): ____
Height of Water Column (ft): ____
Actual Pre-Sampling Purge (gal): ____

PURGE:

Device (Depth of Intake from TOC): S.S. Bailer ____ Teflon Bailer ____ PVC Bailer ____ Disp. Bailer ____
PVC Hand Pump ____ Peristaltic Pump ____ Centrifugal Pump ____ Bladder Pump ____
Pneumatic Displacement Pump ____ Electric Submersible Pump ____ Dedicated ____ Other ____

Purge Water Containment: ____

Field QC Samples Collected at this Well (Equipment or Field Blank): EB-___ FB-___ Other ____

Time (2400 Hr)	Volume (gallons)	Temp. (°C)	Elec. Conductivity (µmhos/cm)	pH (std. units)	Color (visual)	Turbidity (visual)	Other	Observation

Purge Date: ____

SAMPLE:

Device (Depth of Intake from TOC): S.S. Bailer ____ Teflon Bailer ____ PVC Bailer ____ Disp. Bailer ____
PVC Hand Pump ____ Peristaltic Pump X Centrifugal Pump ____ Bladder Pump ____
Pneumatic Displacement Pump ____ Electric Submersible Pump ____ Dedicated ____ Other ____

Time (2400 Hr)	Temp. (°C)	Electrical Conductivity (µmhos/cm)	pH (std. units)	Dissolved Oxygen (mg/l)	Color (visual)	Turbidity (NTU)	Other
1210	18.2	24140	7.51	7.71	Yellowish brown	–	~

Sheen: No Odor: No Sample Date: 2/24/11

Field Measurement Devices: Horiba: ____ YSI: X Oakton Turbidity: ____ D.O. Test Kit: ____

REMARKS: Sampled w/ peri pump

SIGNATURE: [signature] **DATE:** 2/24

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Golder Associates

WATER SAMPLE FIELD DATA

LOCATION: Nmenlar
SAMPLE ID: EB-3
PROJECT NO: 103 97163
SAMPLED BY: JL
CLIENT:
REGULATORY AGENCY :

SAMPLE TYPE: Groundwater X Surface Water ____ Leachate ____ Treatment System ____ Other ____

CASING DIAMETER (OD-inches): 3/4 ____ 1 ____ 2 ____ 4 ____ 4.5 ____ 6 ____ 8 ____ Other ____
GALLONS PER LINEAR FOOT : (0.02) (0.04) (0.17) (0.66) (0.83) (1.5) (2.6)

Well Total Depth (ft): ____ Volume in Casing (gal): ____
Depth to Water (ft): ____ Calculated Purge (volumes / gal.): ____
Height of Water Column (ft): ____ Actual Pre-Sampling Purge (gal): ____

PURGE:

Device (Depth of Intake from TOC): S.S. Bailer ____ Teflon Bailer ____ PVC Bailer ____ Disp. Bailer ____
PVC Hand Pump ____ Peristaltic Pump ____ Centrifugal Pump ____ Bladder Pump ____
Pneumatic Displacement Pump ____ Electric Submersible Pump ____ Dedicated ____ Other ____
Purge Water Containment: ____
Field QC Samples Collected at this Well (Equipment or Field Blank): EB-___ FB-___ Other ____

Time (2400 Hr)	Volume (gallons)	Temp. (°C)	Elec. Conductivity (µmhos/cm)	pH (std. units)	Color (visual)	Turbidity (visual)	Other	Observation

Purge Date: ____

SAMPLE:

Device (Depth of Intake from TOC): S.S. Bailer ____ Teflon Bailer ____ PVC Bailer ____ Disp. Bailer ____
PVC Hand Pump ____ Peristaltic Pump X Centrifugal Pump ____ Bladder Pump ____
Pneumatic Displacement Pump ____ Electric Submersible Pump ____ Dedicated ____ Other ____

Time (2400 Hr)	Temp. (°C)	Electrical Conductivity (µmhos/cm)	pH (std. units)	Dissolved Oxygen (mg/l)	Color (visual)	Turbidity (NTU)	Other
1615	19.90	32707	7.44	2.38	brown	—	

Sheen: No Odor: No Sample Date: 2/24/11

Field Measurement Devices: Horiba: ~~X~~ YSI: X Oakton Turbidity: ____ D.O. Test Kit: ____

REMARKS: Sampled w/ peri. pump

SIGNATURE: ____ **DATE:** 2/24/11

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Golder Associates

WATER SAMPLE FIELD DATA

LOCATION: 9-par
SAMPLE ID: EB-4
PROJECT NO: 103 97163
SAMPLED BY: JL
CLIENT: Zero Waste
REGULATORY AGENCY :
SAMPLE TYPE: Groundwater X Surface Water ____ Leachate ____ Treatment System ____ Other ____

CASING DIAMETER (OD-inches): 3/4 ____ 1 ____ 2 ____ 4 ____ 4.5 ____ 6 ____ 8 ____ Other ____
GALLONS PER LINEAR FOOT : (0.02) (0.04) (0.17) (0.66) (0.83) (1.5) (2.6)

Well Total Depth (ft): ____ Volume in Casing (gal): ____
Depth to Water (ft): ____ Calculated Purge (volumes / gal.): ____
Height of Water Column (ft): ____ Actual Pre-Sampling Purge (gal): ____

PURGE:
Device (Depth of Intake from TOC): S.S. Bailer ____ Teflon Bailer ____ PVC Bailer ____ Disp. Bailer ____
PVC Hand Pump ____ Peristaltic Pump ____ Centrifugal Pump ____ Bladder Pump ____
Pneumatic Displacement Pump ____ Electric Submersible Pump ____ Dedicated ____ Other ____
Purge Water Containment: ____
Field QC Samples Collected at this Well (Equipment or Field Blank): EB-___ FB-___ Other ____

Time (2400 Hr)	Volume (gallons)	Temp. (°C)	Elec. Conductivity (µmhos/cm)	pH (std. units)	Color (visual)	Turbidity (visual)	Other	Observation

Purge Date: ____

SAMPLE:
Device (Depth of Intake from TOC): S.S. Bailer ____ Teflon Bailer ____ PVC Bailer ____ Disp. Bailer ____
PVC Hand Pump ____ Peristaltic Pump X Centrifugal Pump ____ Bladder Pump ____
Pneumatic Displacement Pump ____ Electric Submersible Pump ____ Dedicated ____ Other ____

Time (2400 Hr)	Temp. (°C)	Electrical Conductivity (µmhos/cm)	pH (std. units)	Dissolved Oxygen (mg/l)	Color (visual)	Turbidity (NTU)	Other
1100	17.48	4248	8.18	4.88	Brown	Silty, high	—

Sheen: No Odor: No Sample Date: 2/25

Field Measurement Devices: Horiba: ____ YSI: X Oakton Turbidity: ____ D.O. Test Kit: ____

REMARKS: Sampled w/ peristaltic pump

SIGNATURE: [signature] **DATE:** 2/25/14

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Golder Associates

WATER SAMPLE FIELD DATA

LOCATION: 9-pw
SAMPLE ID: EB-5
PROJECT NO: 103 97163
SAMPLED BY: JL
CLIENT: Zero Waste
REGULATORY AGENCY :

SAMPLE TYPE: Groundwater X Surface Water ____ Leachate ____ Treatment System ____ Other ____

CASING DIAMETER (OD-inches): 3/4 ____ 1 ____ 2 ____ 4 ____ 4.5 ____ 6 ____ 8 ____ Other ____
GALLONS PER LINEAR FOOT : (0.02) (0.04) (0.17) (0.66) (0.83) (1.5) (2.6)

Well Total Depth (ft): ____ Volume in Casing (gal): ____
Depth to Water (ft): ____ Calculated Purge (volumes / gal.): ____
Height of Water Column (ft): ____ Actual Pre-Sampling Purge (gal): ____

PURGE:
Device (Depth of Intake from TOC): S.S. Bailer ____ Teflon Bailer ____ PVC Bailer ____ Disp. Bailer ____
PVC Hand Pump ____ Peristaltic Pump ____ Centrifugal Pump ____ Bladder Pump ____
Pneumatic Displacement Pump ____ Electric Submersible Pump ____ Dedicated ____ Other ____
Purge Water Containment: ____
Field QC Samples Collected at this Well (Equipment or Field Blank): EB-___ FB-___ Other ____

Time (2400 Hr)	Volume (gallons)	Temp. (°C)	Elec. Conductivity (µmhos/cm)	pH (std. units)	Color (visual)	Turbidity (visual)	Other	Observation

Purge Date: ____

SAMPLE:
Device (Depth of Intake from TOC): S.S. Bailer ____ Teflon Bailer ____ PVC Bailer ____ Disp. Bailer ____
PVC Hand Pump ____ Peristaltic Pump X Centrifugal Pump ____ Bladder Pump ____
Pneumatic Displacement Pump ____ Electric Submersible Pump ____ Dedicated ____ Other ____

Time (2400 Hr)	Temp. (°C)	Electrical Conductivity (µmhos/cm)	pH (std. units)	Dissolved Oxygen (mg/l)	Color (visual)	Turbidity (NTU)	Other
1000	19.11	5471	8.01	4.41	lt. brown	moderate	—

Sheen: — Odor: ____ Sample Date: 2/28/11

Field Measurement Devices: Horiba: ____ YSI: X Oakton Turbidity: ____ D.O. Test Kit: ____

REMARKS: Peri pump

SIGNATURE: Jeff Glie **DATE:** 2/28/11

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Golder Associates

WATER SAMPLE FIELD DATA

LOCATION: 9-por
SAMPLE ID: EB-6d
PROJECT NO: 103 97163
SAMPLED BY:
CLIENT: Zero Waste
REGULATORY AGENCY :

SAMPLE TYPE: Groundwater X Surface Water ____ Leachate ____ Treatment System ____ Other ____

CASING DIAMETER (OD-inches): 3/4 ____ 1 ____ 2 ____ 4 ____ 4.5 ____ 6 ____ 8 ____ Other ____
GALLONS PER LINEAR FOOT : (0.02) (0.04) (0.17) (0.66) (0.83) (1.5) (2.6)

Well Total Depth (ft): 18-23
Volume in Casing (gal):
Depth to Water (ft):
Calculated Purge (volumes / gal.):
Height of Water Column (ft):
Actual Pre-Sampling Purge (gal):

PURGE:

Device (Depth of Intake from TOC): S.S. Bailer ____ Teflon Bailer ____ PVC Bailer ____ Disp. Bailer ____
PVC Hand Pump ____ Peristaltic Pump ____ Centrifugal Pump ____ Bladder Pump ____
Pneumatic Displacement Pump ____ Electric Submersible Pump ____ Dedicated ____ Other ____
Purge Water Containment:
Field QC Samples Collected at this Well (Equipment or Field Blank): EB-___ FB-___ Other

Time (2400 Hr)	Volume (gallons)	Temp. (°C)	Elec. Conductivity (µmhos/cm)	pH (std. units)	Color (visual)	Turbidity (visual)	Other	Observation

Purge Date:

SAMPLE:

Device (Depth of Intake from TOC): S.S. Bailer ____ Teflon Bailer ____ PVC Bailer ____ Disp. Bailer ____
PVC Hand Pump ____ Peristaltic Pump X Centrifugal Pump ____ Bladder Pump ____
Pneumatic Displacement Pump ____ Electric Submersible Pump ____ Dedicated ____ Other ____

Time (2400 Hr)	Temp. (°C)	Electrical Conductivity (µmhos/cm)	pH (std. units)	Dissolved Oxygen (mg/l)	Color (visual)	Turbidity (NTU)	Other
1600	22.03	17058	7.6	4.55	lt. brown	low-med.	—

Sheen: — Odor: — Sample Date: 2/28/11

Field Measurement Devices: Horiba: ____ YSI: X Oakton Turbidity: ____ D.O. Test Kit: ____

REMARKS: Per-pump

SIGNATURE: [signature] **DATE:** 2/28/11

G:\Admin\Forms\Field Forms\Groundwater\Watersmpl2010.DOC

Golder Associates

WATER SAMPLE FIELD DATA

LOCATION: 9-pa
SAMPLE ID: EB-65
PROJECT NO: 103 97163
SAMPLED BY: JL
CLIENT: Zero Waste
REGULATORY AGENCY :

SAMPLE TYPE: Groundwater X Surface Water ____ Leachate ____ Treatment System ____ Other ____

CASING DIAMETER (OD-inches): 3/4 ____ 1 ____ 2 ____ 4 ____ 4.5 ____ 6 ____ 8 ____ Other ____
GALLONS PER LINEAR FOOT : (0.02) (0.04) (0.17) (0.66) (0.83) (1.5) (2.6)

Well Total Depth (ft): 10-15'
Volume in Casing (gal):
Depth to Water (ft):
Calculated Purge (volumes / gal.):
Height of Water Column (ft):
Actual Pre-Sampling Purge (gal):

PURGE:

Device (Depth of Intake from TOC): S.S. Bailer ____ Teflon Bailer ____ PVC Bailer ____ Disp. Bailer ____
PVC Hand Pump ____ Peristaltic Pump ____ Centrifugal Pump ____ Bladder Pump ____
Pneumatic Displacement Pump ____ Electric Submersible Pump ____ Dedicated ____ Other ____
Purge Water Containment:
Field QC Samples Collected at this Well (Equipment or Field Blank): EB-___ FB-___ Other

Time (2400 Hr)	Volume (gallons)	Temp. (°C)	Elec. Conductivity (µmhos/cm)	pH (std. units)	Color (visual)	Turbidity (visual)	Other	Observation

Purge Date:

SAMPLE:

Device (Depth of Intake from TOC): S.S. Bailer ____ Teflon Bailer ____ PVC Bailer ____ Disp. Bailer ____
PVC Hand Pump ____ Peristaltic Pump X Centrifugal Pump ____ Bladder Pump ____
Pneumatic Displacement Pump ____ Electric Submersible Pump ____ Dedicated ____ Other ____

Time (2400 Hr)	Temp. (°C)	Electrical Conductivity (µmhos/cm)	pH (std. units)	Dissolved Oxygen (mg/l)	Color (visual)	Turbidity (NTU)	Other
1400	21.02	5766	7.48	3.32	H-brown	mod-hi	–

Sheen: – Odor: – Sample Date: 2/28/11

Field Measurement Devices: Horiba: ____ YSI: X Oakton Turbidity: ____ D.O. Test Kit: ____

REMARKS: peri-pump

SIGNATURE: **DATE:** 2/28/11

Golder Associates

WATER SAMPLE FIELD DATA

Location: 9-Pav

Sample ID: ~~GW-1~~ EB-7

Project No.: 103 97163 11

Sampled By: JL

Client: Zero Waste

Sample Type: Groundwater X Surface Water ____ Leachate ____ Treatment System ____ Other ____

Casing Diameter: 3/4" X 1" ____ 2" ____ 4" ____ 4.5" ____ 6" ____ 8" ____ Other ____

Gallons per Linear Foot: (0.02) (0.04) (0.17) (0.66) (0.83) (1.5) (2.6)

Well Total Depth (ft): 30

Volume in Casing (gal): ____

Depth to Water (ft): 6.28 after 30 min

Calculated Purge Volume (gal.): ____

Height of Water Column (ft): ____

PURGE:

Device (Depth of Intake from TOC): Bladder Pump ____ Peristaltic Pump ____ Disp Bailer ____

Electric Submersible Pump ____ Dedicated ____ Other ____

Purge Water Containment: ____

Field Measurement Device: Horiba ____ YSI X LaMotte ____ Other ____

Time (2400 Hr)	Volume (gallons)	Temp. (°C)	Elec. Conductivity (µmhos/cm)	pH (std. units)	Color (visual)	Turbidity (visual)	Other	Observation

Purge Date: ____

SAMPLE:

Device (Depth of Intake from TOC): Bladder Pump ____ Peristaltic Pump ____ Disp Bailer ____

Electric Submersible Pump ____ Dedicated ____ Other Check valve

Time (2400 Hr)	Temp. (°C)	Electrical Conductivity (µmhos/cm)	pH (std. units)	Dissolved Oxygen (mg/l)	Color (visual)	Turbidity (NTU)	ORP (mV)
1540	20.02	28819	7.31	1.95	brown		46.6

Sheen: No Odor: No

QC Samples Collected at this Well: QCEB-____ QCAB-____ DUP-____ Other trip Time: ____

REMARKS: Check valve sampled

SIGNATURE: [signature] **SAMPLE DATE:** 3/29/11

G:\Admin\Sampling\Forms\Wtrsmpl-2007.DOC

Golder Associates

WATER SAMPLE FIELD DATA

LOCATION: 9-par
SAMPLE ID: LW-1
PROJECT NO: 1039 7163 11
SAMPLED BY: JL
CLIENT: Zero Waste
REGULATORY AGENCY: Sewmp

SAMPLE TYPE: Groundwater ____ Surface Water ____ Leachate X Treatment System ____ Other ____

CASING DIAMETER (OD-inches): 3/4 X 1 ____ 2 ____ 4 ____ 4.5 ____ 6 ____ 8 ____ Other ____
GALLONS PER LINEAR FOOT : (0.02) (0.04) (0.17) (0.66) (0.83) (1.5) (2.6)

Well Total Depth (ft): ____ Volume in Casing (gal): ____
Depth to Water (ft): Grab 18.55 Calculated Purge (volumes / gal.): ____
Height of Water Column (ft): ____ Actual Pre-Sampling Purge (gal): ____

PURGE:
Device (Depth of Intake from TOC): S.S. Bailer ____ Teflon Bailer ____ PVC Bailer ____ Disp. Bailer ____
PVC Hand Pump ____ Peristaltic Pump ____ Centrifugal Pump ____ Bladder Pump ____
Pneumatic Displacement Pump ____ Electric Submersible Pump ____ Dedicated ____ Other ____
Purge Water Containment: ____
Field QC Samples Collected at this Well (Equipment or Field Blank): EB-___ FB-___ Other ____

Time (2400 Hr)	Volume (gallons)	Temp. (°C)	Elec. Conductivity (µmhos/cm)	pH (std. units)	Color (visual)	Turbidity (visual)	Other	Observation
	No purge							

Purge Date: ____

SAMPLE:
Device (Depth of Intake from TOC): S.S. Bailer ____ Teflon Bailer ____ PVC Bailer ____ Disp. Bailer ____
PVC Hand Pump ____ Peristaltic Pump X Centrifugal Pump ____ Bladder Pump ____
Pneumatic Displacement Pump ____ Electric Submersible Pump ____ Dedicated ____ Other ____

Time (2400 Hr)	Temp. (°C)	Electrical Conductivity (µmhos/cm)	pH (std. units)	Dissolved Oxygen (mg/l)	Color (visual)	Turbidity (NTU)	~~Other~~ ORP
1420	25.3	9995	8.74	5.45	brown	265	72.0

Sheen: ____ Odor: ____ Sample Date: 3/14/11

Field Measurement Devices: Horiba: ____ YSI: X Oakton Turbidity: X D.O. Test Kit: ____

REMARKS: ~~per pump, grab sample w/ 4 gpm~~
N37 26 09.7 W121 57 04.9

SIGNATURE: [signature] **DATE:** 3/14/11

G:\Admin\Forms\Field Forms\Groundwater\Watersmpl2010.DOC

Golder Associates

WATER SAMPLE FIELD DATA

LOCATION: Mine Par
SAMPLE ID: LW-2
PROJECT NO: 103 97163 11
SAMPLED BY: JL
CLIENT: Zero Waste
REGULATORY AGENCY: SCUMP

SAMPLE TYPE: Groundwater _____ Surface Water _____ Leachate X Treatment System _____ Other _____

CASING DIAMETER (OD-inches): 3/4 X 1 ____ 2 ____ 4 ____ 4.5 ____ 6 ____ 8 ____ Other ____
GALLONS PER LINEAR FOOT : (0.02) (0.04) (0.17) (0.66) (0.83) (1.5) (2.6)

Well Total Depth (ft): _____ Volume in Casing (gal): _____
Depth to Water (ft): Grab 17.68 Calculated Purge (volumes / gal.): _____
Height of Water Column (ft): _____ Actual Pre-Sampling Purge (gal): _____

PURGE:
Device (Depth of Intake from TOC): S.S. Bailer _____ Teflon Bailer _____ PVC Bailer _____ Disp. Bailer _____
PVC Hand Pump _____ Peristaltic Pump X Centrifugal Pump _____ Bladder Pump _____
Pneumatic Displacement Pump _____ Electric Submersible Pump _____ Dedicated _____ Other _____
Purge Water Containment: _____
Field QC Samples Collected at this Well (Equipment or Field Blank): EB-___ FB-___ Other _____

Time (2400 Hr)	Volume (gallons)	Temp. (°C)	Elec. Conductivity (µmhos/cm)	pH (std. units)	Color (visual)	Turbidity (visual)	Other	Observation
1100	No purge							

Purge Date: _____

SAMPLE:
Device (Depth of Intake from TOC): S.S. Bailer _____ Teflon Bailer _____ PVC Bailer _____ Disp. Bailer _____
PVC Hand Pump _____ Peristaltic Pump X Centrifugal Pump _____ Bladder Pump _____
Pneumatic Displacement Pump _____ Electric Submersible Pump _____ Dedicated _____ Other _____

Time (2400 Hr)	Temp. (°C)	Electrical Conductivity (µmhos/cm)	pH (std. units)	Dissolved Oxygen (mg/l)	Color (visual)	Turbidity (NTU)	~~Other~~ ORP
1100	21.00	7015	7.70	2.77	Gray	5.74	-2.9

Sheen: _____ Odor: _____ Sample Date: 3/14

Field Measurement Devices: Horiba: ____ YSI: X Oakton Turbidity: X D.O. Test Kit: ____

REMARKS: per pump, grab sample ~1/4 gpm
N37 26 07.4 W121 56 51.8

SIGNATURE: Jeff [illegible] **DATE:** 3/14/11

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Golder Associates

WATER SAMPLE FIELD DATA

LOCATION: Nine Par
SAMPLE ID: LW-3
PROJECT NO: 103 97163 11
SAMPLED BY: JL
CLIENT: Zero Waste
REGULATORY AGENCY: SCVWD

SAMPLE TYPE: Groundwater ____ Surface Water ____ Leachate X Treatment System ____ Other ____

CASING DIAMETER (OD-inches): 3/4 X 1 ____ 2 ____ 4 ____ 4.5 ____ 6 ____ 8 ____ Other ____
GALLONS PER LINEAR FOOT: (0.02) (0.04) (0.17) (0.66) (0.83) (1.5) (2.6)

Well Total Depth (ft): Grab
Depth to Water (ft): 15.98
Height of Water Column (ft): ____
Volume in Casing (gal): ____
Calculated Purge (volumes / gal.): ____
Actual Pre-Sampling Purge (gal): ____

PURGE:
Device (Depth of Intake from TOC): S.S. Bailer ____ Teflon Bailer ____ PVC Bailer ____ Disp. Bailer ____
PVC Hand Pump ____ Peristaltic Pump ____ Centrifugal Pump ____ Bladder Pump ____
Pneumatic Displacement Pump ____ Electric Submersible Pump ____ Dedicated ____ Other ____
Purge Water Containment: ____
Field QC Samples Collected at this Well (Equipment or Field Blank): EB-___ FB-___ Other ____

Time (2400 Hr)	Volume (gallons)	Temp. (°C)	Elec. Conductivity (µmhos/cm)	pH (std. units)	Color (visual)	Turbidity (visual)	Other	Observation
	No Purge							

Purge Date: ____

SAMPLE:
Device (Depth of Intake from TOC): S.S. Bailer ____ Teflon Bailer ____ PVC Bailer ____ Disp. Bailer ____
PVC Hand Pump ____ Peristaltic Pump X Centrifugal Pump ____ Bladder Pump ____
Pneumatic Displacement Pump ____ Electric Submersible Pump ____ Dedicated ____ Other ____

Time (2400 Hr)	Temp. (°C)	Electrical Conductivity (µmhos/cm)	pH (std. units)	Dissolved Oxygen (mg/l)	Color (visual)	Turbidity (NTU)	~~Other~~ ORP
1220	20.94	10359	8.38	7.25	brnish yellow	134	57.2

Sheen: ____ Odor: ____ Sample Date: 3/14

Field Measurement Devices: Horiba: ____ YSI: X Oakton Turbidity: X D.O. Test Kit: ____

REMARKS: per pump grab sample w/4 gpm
N37 26 04.8
W121 56 58.5

SIGNATURE: [signature] **DATE:** 3/14

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Golder Associates

WATER SAMPLE FIELD DATA

LOCATION: 9-Par
SAMPLE ID: LW-4
PROJECT NO: 103 97163 11
SAMPLED BY: JL
CLIENT: Zero Waste
REGULATORY AGENCY: SCWQD

SAMPLE TYPE: Groundwater ____ Surface Water ____ Leachate X Treatment System ____ Other ____

CASING DIAMETER (OD-inches): 3/4 ____ 1 ____ 2 ____ 4 ____ 4.5 ____ 6 ____ 8 ____ Other ____
GALLONS PER LINEAR FOOT: (0.02) (0.04) (0.17) (0.66) (0.83) (1.5) (2.6)

Well Total Depth (ft): 13.81
Volume in Casing (gal): ____
Depth to Water (ft): 10.78
Calculated Purge (volumes / gal.): ____
Height of Water Column (ft): ____
Actual Pre-Sampling Purge (gal): ____

PURGE:

Device (Depth of Intake from TOC): S.S. Bailer ____ Teflon Bailer ____ PVC Bailer ____ Disp. Bailer ____
PVC Hand Pump ____ Peristaltic Pump ____ Centrifugal Pump ____ Bladder Pump ____
Pneumatic Displacement Pump ____ Electric Submersible Pump ____ Dedicated ____ Other ____
Purge Water Containment: ____
Field QC Samples Collected at this Well (Equipment or Field Blank): EB- ____ FB- ____ Other ____

Time (2400 Hr)	Volume (gallons)	Temp. (°C)	Elec. Conductivity (µmhos/cm)	pH (std. units)	Color (visual)	Turbidity (visual)	Other	Observation

Purge Date: ____

SAMPLE:

Device (Depth of Intake from TOC): S.S. Bailer ____ Teflon Bailer ____ PVC Bailer ____ Disp. Bailer ____
PVC Hand Pump ____ Peristaltic Pump X Centrifugal Pump ____ Bladder Pump ____
Pneumatic Displacement Pump ____ Electric Submersible Pump ____ Dedicated ____ Other ____

Time (2400 Hr)	Temp. (°C)	Electrical Conductivity (µmhos/cm)	pH (std. units)	Dissolved Oxygen (mg/l)	Color (visual)	Turbidity (NTU)	~~Other~~
1000	22.14	5458	8.01	1.53	brown	turbid	ORP 241.2

Sheen: ____ Odor: ____ Sample Date: 4/7/11

Field Measurement Devices: Horiba: ____ YSI: X Oakton Turbidity: ____ D.O. Test Kit: ____

REMARKS: ____

SIGNATURE: Jeff J. C. **DATE:** 4/7/11

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APPENDIX F
LABORATORY ANALYTICAL REPORTS

Date of Report: 04/25/2011

Tom Vercoutere

Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

RE:	Nine Par
BC Work Order:	1105509
Invoice ID:	B099121

Enclosed are the results of analyses for samples received by the laboratory on 4/8/2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Linda Phoudamneun

Contact Person: Linda Phoudamneun
Client Service Rep

Authorized Signature

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Executive Summary - Detections

Constituent	Result	PQL	MDL	Units	Method	Lab Quals
1105509-01 LW-4, 4/7/2011 10:00:00AM						
Benzene	1.7	1.0	0.17	ug/L	EPA-8260	A01
n-Butylbenzene	0.50	1.0	0.22	ug/L	EPA-8260	J,A01
sec-Butylbenzene	0.54	1.0	0.30	ug/L	EPA-8260	J,A01
Ethylbenzene	11	1.0	0.20	ug/L	EPA-8260	A01
Isopropylbenzene	2.2	1.0	0.28	ug/L	EPA-8260	A01
p-Isopropyltoluene	0.44	1.0	0.24	ug/L	EPA-8260	J,A01
Naphthalene	2.6	1.0	0.72	ug/L	EPA-8260	A01
n-Propylbenzene	1.4	1.0	0.22	ug/L	EPA-8260	A01
Toluene	1.9	1.0	0.19	ug/L	EPA-8260	A01
1,2,4-Trimethylbenzene	12	1.0	0.24	ug/L	EPA-8260	A01
1,3,5-Trimethylbenzene	3.6	1.0	0.24	ug/L	EPA-8260	A01
Total Xylenes	60	2.0	0.72	ug/L	EPA-8260	A01
t-Butyl alcohol	41	20	19	ug/L	EPA-8260	A01
Total Purgeable Petroleum Hydrocarbons	310	100	14	ug/L	Luft-GC/MS	A01
1,4-Dioxane	21	1.0	0.26	ug/L	EPA-8270C	
TPH - C10 - C11	230	12	6.2	ug/L	EPA-8015CC	
TPH - C12 - C14	430	12	6.2	ug/L	EPA-8015CC	
TPH - C15 - C16	200	12	6.2	ug/L	EPA-8015CC	
TPH - C17 - C18	270	12	6.2	ug/L	EPA-8015CC	
TPH - C19 - C20	210	12	6.2	ug/L	EPA-8015CC	
TPH - C21 - C22	160	12	6.2	ug/L	EPA-8015CC	
TPH - C23 - C28	340	12	6.2	ug/L	EPA-8015CC	
TPH - C29 - C32	130	12	6.2	ug/L	EPA-8015CC	
TPH (Total)	2000	250	120	ug/L	EPA-8015CC	
Total Calcium	42	0.50	0.12	mg/L	EPA-6010B	A01
Total Magnesium	43	0.25	0.080	mg/L	EPA-6010B	A01
Total Sodium	1800	2.5	0.38	mg/L	EPA-6010B	A01
Total Potassium	390	5.0	0.70	mg/L	EPA-6010B	A01
Bicarbonate Alkalinity as CaCO3	3300	8.2	8.2	mg/L	EPA-310.1	
Chloride	860	2.5	0.25	mg/L	EPA-300.0	A01
Fluoride	0.93	0.10	0.024	mg/L	EPA-300.0	A01
Nitrate/Nitrite as N	0.24	0.10	0.010	mg/L	EPA-353.2	
Sulfate	290	5.0	0.50	mg/L	EPA-300.0	A01
Total Dissolved Solids @ 180 C	5400	500	500	mg/L	EPA-160.1	
Total Cyanide	0.016	0.0050	0.0016	mg/L	EPA-335.4	
Total Sulfide	2.9	1.0	0.50	mg/L	EPA-376.2	A01
Non-Volatile Organic Carbon	170	30	6.2	mg/L	EPA-415.1	A01
Total Arsenic	120	250	49	ug/L	EPA-6010B	J,A01

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Executive Summary - Detections

Constituent	Result	PQL	MDL	Units	Method	Lab Quals
1105509-01 LW-4, 4/7/2011 10:00:00AM						
Total Barium	980	50	5.0	ug/L	EPA-6010B	A01
Total Chromium	100	50	5.0	ug/L	EPA-6010B	A01
Total Cobalt	31	250	25	ug/L	EPA-6010B	J,A01
Total Copper	930	50	12	ug/L	EPA-6010B	A01
Total Lead	1800	250	25	ug/L	EPA-6010B	A01
Total Mercury	0.36	0.20	0.034	ug/L	EPA-7470A	
Total Molybdenum	42	250	25	ug/L	EPA-6010B	J,A01
Total Nickel	100	50	6.0	ug/L	EPA-6010B	A01
Total Silver	5.0	50	5.0	ug/L	EPA-6010B	J,A01
Total Vanadium	18	50	8.0	ug/L	EPA-6010B	J,A01
Total Zinc	1000	250	14	ug/L	EPA-6010B	A01

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Golder Associates 11-05509

Golder Associates
CHAIN OF CUSTODY

Page 1 of 1
Quotation No.

PROJECT NO.: 103 97163 11
SITE NAME: Mine-Par
SAMPLER(S): Jeff Linder (printed) (signature)
CONTRACT LABORATORY: BC LABS
TURN-AROUND TIME: Standard

EDD required? [X] Yes [ ] No
EDF required? [ ] Yes [X] No

ANALYSES: VOC 8260; TPH-CC; 1-4 Dioxane; General Chem. Chlorinated Herbicide 8151; Cyanide; Sulfides; CAM17 Metals plus Ca, Mg, Na, K; TOC

Sample I.D.	Lab I.D.	Collection Date	Collection Time	Matrix	Depth	Container Info	VOC 8260	TPH-CC	1-4 Dioxane	General Chem.	Chlorinated Herbicide 8151	Cyanide	Sulfides	CAM17 Metals plus Ca, Mg, Na, K	TOC	Cont. Qty.	Remarks
						Type/Vol.	VOA 40ml	1L Amber	1L Amber	1L poly	1L Amber	500ml poly	500ml poly	500ml poly	500ml amber		
						Filter	N	N	N	N	N	N	N	N	N		
						Preserv.	HCl	N	N	N	N	NaOH	Zinc Acetate	HNO_3	H_2SO_4		
LW-4	-1	4/7	1000	GW	-		3	1	1	1	1	1	1	1	1	11	CAM17 metals plus Ca, Mg, Na, K General Chem: Bicarb and carb alkalinity, chloride, fluoride, Nitrate as N, Nitrate + Nitrite as N, Sulfate, TDS, Nitrite as N

CHK BY DAT
DISTRIBUTION SCV SUB-OUT

SHORT HOLDING TIME
Cr^{+6} NO_2 NO_3 OP SS
DO Cl_2 BOD MBAS COT

Relinquished by: (signature)	Received by: (signature)	Date/Time:
	P. BINK BCL	4/07/11 1556
Relinquished by: (signature) 4/7/11 1730 BCL via GSO	Received by: (signature)	Date/Time: 4/8/11 8:00
Relinquished by: (signature)	Received by: (signature)	Date/Time:

SEND RESULTS TO:
Attn: Tom Vercoutere
Golder Associates Inc.
425 Lakeside Drive
Sunnyvale, CA 94085
Phone (408) 220-9223
Fax (408) 220-9224

white: lab copy yellow: project file

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4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com

Chain of Custody and Cooler Receipt Form for 1105509 Page 2 of 2

BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 06/24/08 Page 1 Of 1

Submission #: 1105509

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☐ Other ☒ (Specify) GSO

SHIPPING CONTAINER
Ice Chest ☒ None ☐
Box ☐ Other ☐ (Specify)

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☐ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: QT-PE Thermometer ID: #163 Date/Time 4/8/11 8:00
Temperature: A — °C / C 3.1 °C Analyst Init NSC

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL	B									
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS	C									
PT CYANIDE	D									
PT NITROGEN FORMS										
PT TOTAL SULFIDE	E									
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON	F									
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A3									
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER	GHIJ									
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:
Sample Numbering Completed By: CAM Date/Time: 4/8/11 1304 [H:\DOCS\WP80\LAB_DOCS\FORMS\SAMREC3.WPD]
A = Actual / C = Corrected

Golder Associates 425 Lakeside Drive Sunnyvale, CA 94085	**Reported:** 04/25/2011 11:11 Project: Nine Par Project Number: 103-97163-11 Project Manager: Tom Vercoutere

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1105509-01	**COC Number:**	---	**Receive Date:**	04/08/2011 08:00
	Project Number:	---	**Sampling Date:**	04/07/2011 10:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	LW-4	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater

Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 04/25/2011 11:11
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Chlorinated Herbicides (EPA Method 8151)

BCL Sample ID: 1105509-01 | **Client Sample Name:** LW-4, 4/7/2011 10:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2,4-D	ND	ug/L	0.40	0.065	EPA-8151	ND		1
2,4-DB	ND	ug/L	3.0	0.32	EPA-8151	ND		1
Dalapon	ND	ug/L	10	2.4	EPA-8151	ND		1
Dicamba	ND	ug/L	0.080	0.037	EPA-8151	ND		1
Dichloroprop	ND	ug/L	0.50	0.012	EPA-8151	ND	V11	1
Dinoseb	ND	ug/L	0.20	0.040	EPA-8151	ND		1
2,4,5-T	ND	ug/L	0.090	0.012	EPA-8151	ND		1
2,4,5-TP (Silvex)	ND	ug/L	0.070	0.016	EPA-8151	ND		1
2,4-Dichlorophenylacetic acid (Surrogate)	57.3	%	50 - 150 (LCL - UCL)		EPA-8151			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8151	04/11/11	04/13/11 00:58	CC1	GC-8	1.031	BUD0735

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Reported: 04/25/2011 11:11
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1105509-01 | **Client Sample Name:** LW-4, 4/7/2011 10:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	**1.7**	**ug/L**	**1.0**	**0.17**	**EPA-8260**	**ND**	**A01**	1
Bromobenzene	ND	ug/L	1.0	0.26	EPA-8260	ND	A01	1
Bromochloromethane	ND	ug/L	1.0	0.48	EPA-8260	ND	A01	1
Bromodichloromethane	ND	ug/L	1.0	0.28	EPA-8260	ND	A01	1
Bromoform	ND	ug/L	1.0	0.54	EPA-8260	ND	A01	1
Bromomethane	ND	ug/L	2.0	0.50	EPA-8260	ND	A01	1
n-Butylbenzene	**0.50**	**ug/L**	**1.0**	**0.22**	**EPA-8260**	**ND**	**J,A01**	1
sec-Butylbenzene	**0.54**	**ug/L**	**1.0**	**0.30**	**EPA-8260**	**ND**	**J,A01**	1
tert-Butylbenzene	ND	ug/L	1.0	0.26	EPA-8260	ND	A01	1
Carbon tetrachloride	ND	ug/L	1.0	0.36	EPA-8260	ND	A01	1
Chlorobenzene	ND	ug/L	1.0	0.19	EPA-8260	ND	A01	1
Chloroethane	ND	ug/L	1.0	0.28	EPA-8260	ND	A01	1
Chloroform	ND	ug/L	1.0	0.24	EPA-8260	ND	A01	1
Chloromethane	ND	ug/L	1.0	0.28	EPA-8260	ND	A01	1
2-Chlorotoluene	ND	ug/L	1.0	0.40	EPA-8260	ND	A01	1
4-Chlorotoluene	ND	ug/L	1.0	0.30	EPA-8260	ND	A01	1
Dibromochloromethane	ND	ug/L	1.0	0.26	EPA-8260	ND	A01	1
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	0.88	EPA-8260	ND	A01	1
1,2-Dibromoethane	ND	ug/L	1.0	0.32	EPA-8260	ND	A01	1
Dibromomethane	ND	ug/L	1.0	0.48	EPA-8260	ND	A01	1
1,2-Dichlorobenzene	ND	ug/L	1.0	0.14	EPA-8260	ND	A01	1
1,3-Dichlorobenzene	ND	ug/L	1.0	0.30	EPA-8260	ND	A01	1
1,4-Dichlorobenzene	ND	ug/L	1.0	0.12	EPA-8260	ND	A01	1
Dichlorodifluoromethane	ND	ug/L	1.0	0.20	EPA-8260	ND	A01	1
1,1-Dichloroethane	ND	ug/L	1.0	0.22	EPA-8260	ND	A01	1
1,2-Dichloroethane	ND	ug/L	1.0	0.34	EPA-8260	ND	A01	1
1,1-Dichloroethene	ND	ug/L	1.0	0.36	EPA-8260	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.17	EPA-8260	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.30	EPA-8260	ND	A01	1
1,2-Dichloropropane	ND	ug/L	1.0	0.26	EPA-8260	ND	A01	1
1,3-Dichloropropane	ND	ug/L	1.0	0.17	EPA-8260	ND	A01	1
2,2-Dichloropropane	ND	ug/L	1.0	0.26	EPA-8260	ND	A01	1
1,1-Dichloropropene	ND	ug/L	1.0	0.17	EPA-8260	ND	A01	1

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425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 04/25/2011 11:11
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1105509-01 | **Client Sample Name:** LW-4, 4/7/2011 10:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.28	EPA-8260	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.16	EPA-8260	ND	A01	1
Ethylbenzene	**11**	**ug/L**	**1.0**	**0.20**	**EPA-8260**	**ND**	**A01**	1
Hexachlorobutadiene	ND	ug/L	1.0	0.34	EPA-8260	ND	A01	1
Isopropylbenzene	**2.2**	**ug/L**	**1.0**	**0.28**	**EPA-8260**	**ND**	**A01**	1
p-Isopropyltoluene	**0.44**	**ug/L**	**1.0**	**0.24**	**EPA-8260**	**ND**	**J,A01**	1
Methylene chloride	ND	ug/L	2.0	0.96	EPA-8260	ND	A01	1
Methyl t-butyl ether	ND	ug/L	1.0	0.22	EPA-8260	ND	A01	2
Naphthalene	**2.6**	**ug/L**	**1.0**	**0.72**	**EPA-8260**	**ND**	**A01**	1
n-Propylbenzene	**1.4**	**ug/L**	**1.0**	**0.22**	**EPA-8260**	**ND**	**A01**	1
Styrene	ND	ug/L	1.0	0.14	EPA-8260	ND	A01	1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.36	EPA-8260	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.34	EPA-8260	ND	A01	1
Tetrachloroethene	ND	ug/L	1.0	0.26	EPA-8260	ND	A01	1
Toluene	**1.9**	**ug/L**	**1.0**	**0.19**	**EPA-8260**	**ND**	**A01**	1
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.32	EPA-8260	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.38	EPA-8260	ND	A01	1
1,1,1-Trichloroethane	ND	ug/L	1.0	0.22	EPA-8260	ND	A01	1
1,1,2-Trichloroethane	ND	ug/L	1.0	0.32	EPA-8260	ND	A01	1
Trichloroethene	ND	ug/L	1.0	0.17	EPA-8260	ND	A01	1
Trichlorofluoromethane	ND	ug/L	1.0	0.26	EPA-8260	ND	A01	1
1,2,3-Trichloropropane	ND	ug/L	2.0	0.48	EPA-8260	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	1.0	0.30	EPA-8260	ND	A01	1
1,2,4-Trimethylbenzene	**12**	**ug/L**	**1.0**	**0.24**	**EPA-8260**	**ND**	**A01**	1
1,3,5-Trimethylbenzene	**3.6**	**ug/L**	**1.0**	**0.24**	**EPA-8260**	**ND**	**A01**	1
Vinyl chloride	ND	ug/L	1.0	0.24	EPA-8260	ND	A01	1
Total Xylenes	**60**	**ug/L**	**2.0**	**0.72**	**EPA-8260**	**ND**	**A01**	1
t-Amyl Methyl ether	ND	ug/L	1.0	0.50	EPA-8260	ND	A01	1
t-Butyl alcohol	**41**	**ug/L**	**20**	**19**	**EPA-8260**	**ND**	**A01**	1
Diisopropyl ether	ND	ug/L	1.0	0.46	EPA-8260	ND	A01	1
1,4-Dioxane	ND	ug/L	200	84	EPA-8260	ND	A01	1
Ethyl t-butyl ether	ND	ug/L	1.0	0.36	EPA-8260	ND	A01	1
Total Purgeable Petroleum Hydrocarbons	**310**	**ug/L**	**100**	**14**	**Luft-GC/MS**	**ND**	**A01**	1

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425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 04/25/2011 11:11
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1105509-01 | **Client Sample Name:** LW-4, 4/7/2011 10:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,2-Dichloroethane-d4 (Surrogate)	86.4	%	76 - 114 (LCL - UCL)		EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	106	%	76 - 114 (LCL - UCL)		EPA-8260			2
Toluene-d8 (Surrogate)	98.7	%	88 - 110 (LCL - UCL)		EPA-8260			1
Toluene-d8 (Surrogate)	98.1	%	88 - 110 (LCL - UCL)		EPA-8260			2
4-Bromofluorobenzene (Surrogate)	99.9	%	86 - 115 (LCL - UCL)		EPA-8260			1
4-Bromofluorobenzene (Surrogate)	102	%	86 - 115 (LCL - UCL)		EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	04/11/11	04/14/11 03:55	JCC	MS-V4	2	BUD0347
2	EPA-8260	04/11/11	04/15/11 05:36	JCC	MS-V4	2	BUD0347

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Reported: 04/25/2011 11:11
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

1,4-Dioxane (EPA Method 8270C)

BCL Sample ID: 1105509-01 | **Client Sample Name:** LW-4, 4/7/2011 10:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,4-Dioxane	**21**	**ug/L**	**1.0**	**0.26**	**EPA-8270C**	**ND**		1
Naphthalene-d8 (Surrogate)	131	%	75 - 132 (LCL - UCL)		EPA-8270C			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	04/12/11	04/19/11 20:36	RDS	HPCHEM	0.980	BUD1011

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Reported: 04/25/2011 11:11
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1105509-01 | **Client Sample Name:** LW-4, 4/7/2011 10:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - C8 - C9	ND	ug/L	12	6.2	EPA-8015CC	ND		1
TPH - C10 - C11	**230**	**ug/L**	**12**	**6.2**	**EPA-8015CC**	**ND**		1
TPH - C12 - C14	**430**	**ug/L**	**12**	**6.2**	**EPA-8015CC**	**ND**		1
TPH - C15 - C16	**200**	**ug/L**	**12**	**6.2**	**EPA-8015CC**	**ND**		1
TPH - C17 - C18	**270**	**ug/L**	**12**	**6.2**	**EPA-8015CC**	**ND**		1
TPH - C19 - C20	**210**	**ug/L**	**12**	**6.2**	**EPA-8015CC**	**ND**		1
TPH - C21 - C22	**160**	**ug/L**	**12**	**6.2**	**EPA-8015CC**	**ND**		1
TPH - C23 - C28	**340**	**ug/L**	**12**	**6.2**	**EPA-8015CC**	**ND**		1
TPH - C29 - C32	**130**	**ug/L**	**12**	**6.2**	**EPA-8015CC**	**ND**		1
TPH - C33 - C36	ND	ug/L	12	6.2	EPA-8015CC	ND		1
TPH - C37 - C40	ND	ug/L	12	6.2	EPA-8015CC	ND		1
TPH - C41 - C43	ND	ug/L	12	6.2	EPA-8015CC	ND		1
TPH - C44 plus	ND	ug/L	12	6.2	EPA-8015CC	ND		1
TPH (Total)	**2000**	**ug/L**	**250**	**120**	**EPA-8015CC**	**ND**		1
Tetracosane (Surrogate)	88.5	%	37 - 134 (LCL - UCL)		EPA-8015CC			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015CC	04/11/11	04/15/11 03:14	MWB	GC-13	1.250	BUD0751

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Reported: 04/25/2011 11:11
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Water Analysis (General Chemistry)

BCL Sample ID: 1105509-01 | **Client Sample Name:** LW-4, 4/7/2011 10:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Calcium	**42**	**mg/L**	**0.50**	**0.12**	**EPA-6010B**	**ND**	**A01**	1
Total Magnesium	**43**	**mg/L**	**0.25**	**0.080**	**EPA-6010B**	**ND**	**A01**	1
Total Sodium	**1800**	**mg/L**	**2.5**	**0.38**	**EPA-6010B**	**ND**	**A01**	1
Total Potassium	**390**	**mg/L**	**5.0**	**0.70**	**EPA-6010B**	**ND**	**A01**	1
Bicarbonate Alkalinity as CaCO3	**3300**	**mg/L**	**8.2**	**8.2**	**EPA-310.1**	**ND**		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	EPA-310.1	ND		2
Chloride	**860**	**mg/L**	**2.5**	**0.25**	**EPA-300.0**	**0.77**	**A01**	3
Fluoride	**0.93**	**mg/L**	**0.10**	**0.024**	**EPA-300.0**	**ND**	**A01**	4
Nitrate/Nitrite as N	**0.24**	**mg/L**	**0.10**	**0.010**	**EPA-353.2**	**ND**		5
Nitrate as N	ND	mg/L	1.0	0.14	EPA-300.0	ND	A01,Z1	6
Sulfate	**290**	**mg/L**	**5.0**	**0.50**	**EPA-300.0**	**ND**	**A01**	3
Total Dissolved Solids @ 180 C	**5400**	**mg/L**	**500**	**500**	**EPA-160.1**	**ND**		7
Total Cyanide	**0.016**	**mg/L**	**0.0050**	**0.0016**	**EPA-335.4**	**ND**		8
Nitrite as N	ND	mg/L	0.050	0.0081	EPA-353.2	ND		9
Total Sulfide	**2.9**	**mg/L**	**1.0**	**0.50**	**EPA-376.2**	**ND**	**A01**	10
Non-Volatile Organic Carbon	**170**	**mg/L**	**30**	**6.2**	**EPA-415.1**	**8.1**	**A01**	11

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	04/12/11	04/15/11 12:33	ARD	PE-OP1	5	BUD0667
2	EPA-310.1	04/09/11	04/09/11 12:26	RML	MET-1	2	BUD0514
3	EPA-300.0	04/11/11	04/11/11 20:34	LRS	IC1	5	BUD0673
4	EPA-300.0	04/08/11	04/09/11 15:24	LD1	IC5	2	BUD0555
5	EPA-353.2	04/18/11	04/18/11 13:02	SDU	SC-1	1	BUD1025
6	EPA-300.0	04/08/11	04/08/11 21:16	LRS	IC5	10	BUD0555
7	EPA-160.1	04/12/11	04/12/11 11:55	NW1	MANUAL	50	BUD0683
8	EPA-335.4	04/14/11	04/14/11 11:34	TDC	KONE-1	1	BUD0822
9	EPA-353.2	04/08/11	04/08/11 21:51	TDC	KONE-1	1	BUD0551
10	EPA-376.2	04/11/11	04/11/11 01:00	MRM	SPEC05	10	BUD0521
11	EPA-415.1	04/11/11	04/11/11 20:39	CDR	TOC2	100	BUD0665

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Sunnyvale, CA 94085

Reported: 04/25/2011 11:11
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Water Analysis (Metals)

BCL Sample ID: 1105509-01 | **Client Sample Name:** LW-4, 4/7/2011 10:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Antimony	ND	ug/L	500	65	EPA-6010B	ND	A01	1
Total Arsenic	**120**	**ug/L**	**250**	**49**	**EPA-6010B**	**ND**	**J,A01**	1
Total Barium	**980**	**ug/L**	**50**	**5.0**	**EPA-6010B**	**ND**	**A01**	1
Total Beryllium	ND	ug/L	50	5.0	EPA-6010B	ND	A01	1
Total Cadmium	ND	ug/L	50	5.0	EPA-6010B	ND	A01	1
Total Chromium	**100**	**ug/L**	**50**	**5.0**	**EPA-6010B**	**ND**	**A01**	1
Total Cobalt	**31**	**ug/L**	**250**	**25**	**EPA-6010B**	**ND**	**J,A01**	1
Total Copper	**930**	**ug/L**	**50**	**12**	**EPA-6010B**	**ND**	**A01**	1
Total Lead	**1800**	**ug/L**	**250**	**25**	**EPA-6010B**	**ND**	**A01**	1
Total Mercury	**0.36**	**ug/L**	**0.20**	**0.034**	**EPA-7470A**	**ND**		2
Total Molybdenum	**42**	**ug/L**	**250**	**25**	**EPA-6010B**	**ND**	**J,A01**	1
Total Nickel	**100**	**ug/L**	**50**	**6.0**	**EPA-6010B**	**ND**	**A01**	1
Total Selenium	ND	ug/L	500	75	EPA-6010B	ND	A01	1
Total Silver	**5.0**	**ug/L**	**50**	**5.0**	**EPA-6010B**	**24**	**J,A01**	1
Total Thallium	ND	ug/L	500	85	EPA-6010B	ND	A01	1
Total Vanadium	**18**	**ug/L**	**50**	**8.0**	**EPA-6010B**	**ND**	**J,A01**	1
Total Zinc	**1000**	**ug/L**	**250**	**14**	**EPA-6010B**	**ND**	**A01**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	04/12/11	04/15/11 12:33	ARD	PE-OP1	5	BUD0667
2	EPA-7470A	04/13/11	04/14/11 15:16	MEV	CETAC1	1	BUD0818

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425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 04/25/2011 11:11
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Chlorinated Herbicides (EPA Method 8151)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUD0735						
2,4-D	BUD0735-BLK1	ND	ug/L	0.40	0.065	
2,4-DB	BUD0735-BLK1	ND	ug/L	3.0	0.32	
Dalapon	BUD0735-BLK1	ND	ug/L	10	2.4	
Dicamba	BUD0735-BLK1	ND	ug/L	0.080	0.037	
Dichloroprop	BUD0735-BLK1	ND	ug/L	0.50	0.012	V11
Dinoseb	BUD0735-BLK1	ND	ug/L	0.20	0.040	
2,4,5-T	BUD0735-BLK1	ND	ug/L	0.090	0.012	
2,4,5-TP (Silvex)	BUD0735-BLK1	ND	ug/L	0.070	0.016	
2,4-Dichlorophenylacetic acid (Surrogate)	BUD0735-BLK1	70.6	%	50 - 150 (LCL - UCL)		

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Reported: 04/25/2011 11:11
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Chlorinated Herbicides (EPA Method 8151)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUD0735										
2,4-D	BUD0735-BS1	LCS	1.9970	2.4000	ug/L	83.2		55 - 124		
2,4-DB	BUD0735-BS1	LCS	4.2940	5.4000	ug/L	79.5		62 - 134		
Dicamba	BUD0735-BS1	LCS	0.43300	0.60000	ug/L	72.2		64 - 120		
Dichloroprop	BUD0735-BS1	LCS	1.8580	2.4000	ug/L	77.4		47 - 120		
Dinoseb	BUD0735-BS1	LCS	0.77000	1.2000	ug/L	64.2		55 - 120		
2,4,5-T	BUD0735-BS1	LCS	0.56200	0.60000	ug/L	93.7		67 - 139		
2,4,5-TP (Silvex)	BUD0735-BS1	LCS	0.49300	0.60000	ug/L	82.2		56 - 127		
2,4-Dichlorophenylacetic acid (Surrogate)	BUD0735-BS1	LCS	0.69900	1.0000	ug/L	69.9		50 - 150		

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Reported: 04/25/2011 11:11
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Chlorinated Herbicides (EPA Method 8151)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUD0735	Used client sample: N										
2,4-D	MS	1104069-85	ND	2.1840	2.4000	ug/L		91.0		47 - 128	
	MSD	1104069-85	ND	2.1590	2.4000	ug/L	1.2	90.0	30	47 - 128	
2,4-DB	MS	1104069-85	ND	4.7130	5.4000	ug/L		87.3		59 - 138	
	MSD	1104069-85	ND	4.6180	5.4000	ug/L	2.0	85.5	30	59 - 138	
Dicamba	MS	1104069-85	ND	0.47600	0.60000	ug/L		79.3		64 - 120	
	MSD	1104069-85	ND	0.46400	0.60000	ug/L	2.6	77.3	30	64 - 120	
Dichloroprop	MS	1104069-85	ND	1.9000	2.4000	ug/L		79.2		48 - 120	
	MSD	1104069-85	ND	1.9710	2.4000	ug/L	3.7	82.1	30	48 - 120	
Dinoseb	MS	1104069-85	ND	0.93100	1.2000	ug/L		77.6		53 - 120	
	MSD	1104069-85	ND	0.84000	1.2000	ug/L	10.3	70.0	30	53 - 120	
2,4,5-T	MS	1104069-85	ND	0.60500	0.60000	ug/L		101		63 - 137	
	MSD	1104069-85	ND	0.59300	0.60000	ug/L	2.0	98.8	30	63 - 137	
2,4,5-TP (Silvex)	MS	1104069-85	ND	0.53000	0.60000	ug/L		88.3		47 - 132	
	MSD	1104069-85	ND	0.53000	0.60000	ug/L	0	88.3	30	47 - 132	
2,4-Dichlorophenylacetic acid (Surrogate	MS	1104069-85	ND	0.69900	1.0000	ug/L		69.9		50 - 150	
	MSD	1104069-85	ND	0.79000	1.0000	ug/L	12.2	79.0		50 - 150	

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Reported: 04/25/2011 11:11
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUD0347						
Benzene	BUD0347-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BUD0347-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BUD0347-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BUD0347-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BUD0347-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BUD0347-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BUD0347-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BUD0347-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BUD0347-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BUD0347-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BUD0347-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BUD0347-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BUD0347-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BUD0347-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BUD0347-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BUD0347-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BUD0347-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BUD0347-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BUD0347-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BUD0347-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BUD0347-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BUD0347-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BUD0347-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BUD0347-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BUD0347-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BUD0347-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BUD0347-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BUD0347-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BUD0347-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BUD0347-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BUD0347-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BUD0347-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BUD0347-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BUD0347-BLK1	ND	ug/L	0.50	0.14	

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Reported: 04/25/2011 11:11
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUD0347						
trans-1,3-Dichloropropene	BUD0347-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BUD0347-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BUD0347-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BUD0347-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BUD0347-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BUD0347-BLK1	ND	ug/L	1.0	0.48	
Methyl t-butyl ether	BUD0347-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BUD0347-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BUD0347-BLK1	ND	ug/L	0.50	0.11	
Styrene	BUD0347-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BUD0347-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BUD0347-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BUD0347-BLK1	ND	ug/L	0.50	0.13	
Toluene	BUD0347-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BUD0347-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BUD0347-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BUD0347-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BUD0347-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BUD0347-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BUD0347-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BUD0347-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BUD0347-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BUD0347-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BUD0347-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BUD0347-BLK1	ND	ug/L	0.50	0.12	
Total Xylenes	BUD0347-BLK1	ND	ug/L	1.0	0.36	
t-Amyl Methyl ether	BUD0347-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BUD0347-BLK1	ND	ug/L	10	9.4	
Diisopropyl ether	BUD0347-BLK1	ND	ug/L	0.50	0.23	
1,4-Dioxane	BUD0347-BLK1	ND	ug/L	100	42	
Ethyl t-butyl ether	BUD0347-BLK1	ND	ug/L	0.50	0.18	
Total Purgeable Petroleum Hydrocarbons	BUD0347-BLK1	ND	ug/L	50	7.2	
1,2-Dichloroethane-d4 (Surrogate)	BUD0347-BLK1	100	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BUD0347-BLK1	97.6	%	88 - 110 (LCL - UCL)		

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Reported: 04/25/2011 11:11
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUD0347						
4-Bromofluorobenzene (Surrogate)	BUD0347-BLK1	96.5	%	86 - 115 (LCL - UCL)		

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Reported: 04/25/2011 11:11
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUD0347										
Benzene	BUD0347-BS1	LCS	25.150	25.000	ug/L	101		70 - 130		
Bromodichloromethane	BUD0347-BS1	LCS	24.430	25.000	ug/L	97.7		70 - 130		
Chlorobenzene	BUD0347-BS1	LCS	26.140	25.000	ug/L	105		70 - 130		
Chloroethane	BUD0347-BS1	LCS	23.720	25.000	ug/L	94.9		70 - 130		
1,4-Dichlorobenzene	BUD0347-BS1	LCS	25.730	25.000	ug/L	103		70 - 130		
1,1-Dichloroethane	BUD0347-BS1	LCS	25.570	25.000	ug/L	102		70 - 130		
1,1-Dichloroethene	BUD0347-BS1	LCS	25.330	25.000	ug/L	101		70 - 130		
Toluene	BUD0347-BS1	LCS	25.010	25.000	ug/L	100		70 - 130		
Trichloroethene	BUD0347-BS1	LCS	26.300	25.000	ug/L	105		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BUD0347-BS1	LCS	9.8400	10.000	ug/L	98.4		76 - 114		
Toluene-d8 (Surrogate)	BUD0347-BS1	LCS	9.7900	10.000	ug/L	97.9		88 - 110		
4-Bromofluorobenzene (Surrogate)	BUD0347-BS1	LCS	9.7600	10.000	ug/L	97.6		86 - 115		

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Project Number: 103-97163-11
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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUD0347	Used client sample: N										
Benzene	MS	1105230-08	ND	22.280	25.000	ug/L		89.1		70 - 130	
	MSD	1105230-08	ND	23.040	25.000	ug/L	3.4	92.2	20	70 - 130	
Bromodichloromethane	MS	1105230-08	ND	22.200	25.000	ug/L		88.8		70 - 130	
	MSD	1105230-08	ND	22.820	25.000	ug/L	2.8	91.3	20	70 - 130	
Chlorobenzene	MS	1105230-08	ND	24.040	25.000	ug/L		96.2		70 - 130	
	MSD	1105230-08	ND	24.340	25.000	ug/L	1.2	97.4	20	70 - 130	
Chloroethane	MS	1105230-08	ND	20.950	25.000	ug/L		83.8		70 - 130	
	MSD	1105230-08	ND	22.140	25.000	ug/L	5.5	88.6	20	70 - 130	
1,4-Dichlorobenzene	MS	1105230-08	ND	24.010	25.000	ug/L		96.0		70 - 130	
	MSD	1105230-08	ND	24.160	25.000	ug/L	0.6	96.6	20	70 - 130	
1,1-Dichloroethane	MS	1105230-08	ND	22.520	25.000	ug/L		90.1		70 - 130	
	MSD	1105230-08	ND	23.440	25.000	ug/L	4.0	93.8	20	70 - 130	
1,1-Dichloroethene	MS	1105230-08	ND	22.750	25.000	ug/L		91.0		70 - 130	
	MSD	1105230-08	ND	23.300	25.000	ug/L	2.4	93.2	20	70 - 130	
Toluene	MS	1105230-08	ND	22.570	25.000	ug/L		90.3		70 - 130	
	MSD	1105230-08	ND	22.850	25.000	ug/L	1.2	91.4	20	70 - 130	
Trichloroethene	MS	1105230-08	ND	25.410	25.000	ug/L		102		70 - 130	
	MSD	1105230-08	ND	23.940	25.000	ug/L	6.0	95.8	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1105230-08	ND	9.7500	10.000	ug/L		97.5		76 - 114	
	MSD	1105230-08	ND	10.050	10.000	ug/L	3.0	100		76 - 114	
Toluene-d8 (Surrogate)	MS	1105230-08	ND	9.8500	10.000	ug/L		98.5		88 - 110	
	MSD	1105230-08	ND	10.040	10.000	ug/L	1.9	100		88 - 110	
4-Bromofluorobenzene (Surrogate)	MS	1105230-08	ND	9.8700	10.000	ug/L		98.7		86 - 115	
	MSD	1105230-08	ND	9.9600	10.000	ug/L	0.9	99.6		86 - 115	

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1,4-Dioxane (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUD1011						
1,4-Dioxane	BUD1011-BLK1	ND	ug/L	1.0	0.26	
Naphthalene-d8 (Surrogate)	BUD1011-BLK1	114	%	75 - 132 (LCL - UCL)		

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Project: Nine Par
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1,4-Dioxane (EPA Method 8270C)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUD1011										
1,4-Dioxane	BUD1011-BS1	LCS	47.903	50.000	ug/L	95.8		70 - 130		
Naphthalene-d8 (Surrogate)	BUD1011-BS1	LCS	50.190	40.000	ug/L	125		75 - 132		

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Reported: 04/25/2011 11:11
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

1,4-Dioxane (EPA Method 8270C)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUD1011	Used client sample: N										
1,4-Dioxane	MS	1011454-97	ND	45.962	50.000	ug/L		91.9		70 - 130	
	MSD	1011454-97	ND	49.762	50.000	ug/L	7.9	99.5	30	70 - 130	
Naphthalene-d8 (Surrogate)	MS	1011454-97	ND	46.510	40.000	ug/L		116		75 - 132	
	MSD	1011454-97	ND	46.270	40.000	ug/L	0.5	116		75 - 132	

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Reported: 04/25/2011 11:11
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUD0751						
TPH - C8 - C9	BUD0751-BLK1	ND	ug/L	10	5.0	
TPH - C10 - C11	BUD0751-BLK1	ND	ug/L	10	5.0	
TPH - C12 - C14	BUD0751-BLK1	ND	ug/L	10	5.0	
TPH - C15 - C16	BUD0751-BLK1	ND	ug/L	10	5.0	
TPH - C17 - C18	BUD0751-BLK1	ND	ug/L	10	5.0	
TPH - C19 - C20	BUD0751-BLK1	ND	ug/L	10	5.0	
TPH - C21 - C22	BUD0751-BLK1	ND	ug/L	10	5.0	
TPH - C23 - C28	BUD0751-BLK1	ND	ug/L	10	5.0	
TPH - C29 - C32	BUD0751-BLK1	ND	ug/L	10	5.0	
TPH - C33 - C36	BUD0751-BLK1	ND	ug/L	10	5.0	
TPH - C37 - C40	BUD0751-BLK1	ND	ug/L	10	5.0	
TPH - C41 - C43	BUD0751-BLK1	ND	ug/L	10	5.0	
TPH - C44 plus	BUD0751-BLK1	ND	ug/L	10	5.0	
TPH (Total)	BUD0751-BLK1	ND	ug/L	200	100	
Tetracosane (Surrogate)	BUD0751-BLK1	103	%	37 - 134 (LCL - UCL)		

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Golder Associates 425 Lakeside Drive Sunnyvale, CA 94085	**Reported:** 04/25/2011 11:11 Project: Nine Par Project Number: 103-97163-11 Project Manager: Tom Vercoutere

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUD0751										
Tetracosane (Surrogate)	BUD0751-BS1	LCS	86.470	100.00	ug/L	86.5		37 - 134		

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Reported: 04/25/2011 11:11
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUD0751	Used client sample: N										
Tetracosane (Surrogate)	MS	1105230-27	ND	105.64	100.00	ug/L		106		37 - 134	
	MSD	1105230-27	ND	105.40	100.00	ug/L	0.2	105		37 - 134	

Golder Associates
425 Lakeside Drive
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Reported: 04/25/2011 11:11
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUD0514						
Bicarbonate Alkalinity as CaCO3	BUD0514-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BUD0514-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BUD0521						
Total Sulfide	BUD0521-BLK1	ND	mg/L	0.10	0.050	
QC Batch ID: BUD0551						
Nitrite as N	BUD0551-BLK1	ND	mg/L	0.050	0.0081	
QC Batch ID: BUD0555						
Fluoride	BUD0555-BLK1	ND	mg/L	0.050	0.012	
Nitrate as N	BUD0555-BLK1	ND	mg/L	0.10	0.014	
QC Batch ID: BUD0665						
Non-Volatile Organic Carbon	BUD0665-BLK1	0.081000	mg/L	0.30	0.062	J
QC Batch ID: BUD0667						
Total Calcium	BUD0667-BLK1	ND	mg/L	0.10	0.023	
Total Magnesium	BUD0667-BLK1	ND	mg/L	0.050	0.016	
Total Sodium	BUD0667-BLK1	ND	mg/L	0.50	0.077	
Total Potassium	BUD0667-BLK1	ND	mg/L	1.0	0.14	
QC Batch ID: BUD0673						
Chloride	BUD0673-BLK1	0.15400	mg/L	0.50	0.050	J
Sulfate	BUD0673-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BUD0683						
Total Dissolved Solids @ 180 C	BUD0683-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BUD0822						
Total Cyanide	BUD0822-BLK1	ND	mg/L	0.0050	0.0016	
QC Batch ID: BUD1025						
Nitrate/Nitrite as N	BUD1025-BLK1	ND	mg/L	0.10	0.010	

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Reported: 04/25/2011 11:11
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUD0521										
Total Sulfide	BUD0521-BS1	LCS	0.51298	0.50000	mg/L	103		90 - 110		
QC Batch ID: BUD0551										
Nitrite as N	BUD0551-BS1	LCS	0.49317	0.50000	mg/L	98.6		90 - 110		
QC Batch ID: BUD0555										
Fluoride	BUD0555-BS1	LCS	0.99200	1.0000	mg/L	99.2		90 - 110		
Nitrate as N	BUD0555-BS1	LCS	4.8650	5.0000	mg/L	97.3		90 - 110		
QC Batch ID: BUD0665										
Non-Volatile Organic Carbon	BUD0665-BS1	LCS	5.2790	5.0000	mg/L	106		85 - 115		
QC Batch ID: BUD0667										
Total Calcium	BUD0667-BS1	LCS	9.5083	10.000	mg/L	95.1		85 - 115		
Total Magnesium	BUD0667-BS1	LCS	9.7206	10.000	mg/L	97.2		85 - 115		
Total Sodium	BUD0667-BS1	LCS	9.6623	10.000	mg/L	96.6		85 - 115		
Total Potassium	BUD0667-BS1	LCS	9.4540	10.000	mg/L	94.5		85 - 115		
QC Batch ID: BUD0673										
Chloride	BUD0673-BS1	LCS	95.941	100.00	mg/L	95.9		90 - 110		
Sulfate	BUD0673-BS1	LCS	95.172	100.00	mg/L	95.2		90 - 110		
QC Batch ID: BUD0683										
Total Dissolved Solids @ 180 C	BUD0683-BS1	LCS	595.00	586.00	mg/L	102		90 - 110		
QC Batch ID: BUD0822										
Total Cyanide	BUD0822-BS1	LCS	0.14883	0.15000	mg/L	99.2		90 - 110		
QC Batch ID: BUD1025										
Nitrate/Nitrite as N	BUD1025-BS1	LCS	1.9861	2.0000	mg/L	99.3		90 - 110		

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Reported: 04/25/2011 11:11
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUD0514	Used client sample: N										
Bicarbonate Alkalinity as CaCO3	DUP	1105486-02	296.05	297.27		mg/L	0.4		10		
Carbonate Alkalinity as CaCO3	DUP	1105486-02	ND	ND		mg/L			10		
QC Batch ID: BUD0521	Used client sample: Y - Description: W-20, 04/07/2011 11:15										
Total Sulfide	DUP	1105508-01	ND	ND		mg/L			10		
	MS	1105508-01	ND	0.48937	0.50000	mg/L		97.9		80 - 120	
	MSD	1105508-01	ND	0.48937	0.50000	mg/L	0	97.9	10	80 - 120	
QC Batch ID: BUD0551	Used client sample: Y - Description: W-24, 04/07/2011 12:25										
Nitrite as N	DUP	1105535-01	0.027880	0.026795		mg/L	4.0		10		J
	MS	1105535-01	0.027880	0.53430	0.52632	mg/L		96.2		90 - 110	
	MSD	1105535-01	0.027880	0.54259	0.52632	mg/L	1.5	97.8	10	90 - 110	
QC Batch ID: BUD0555	Used client sample: N										
Fluoride	DUP	105511-01RE´	1.2650	1.2500		mg/L	1.2		10		
	MS	105511-01RE´	1.2650	6.4040	5.0505	mg/L		102		80 - 120	
	MSD	105511-01RE´	1.2650	6.3939	5.0505	mg/L	0.2	102	10	80 - 120	
Nitrate as N	DUP	105511-01RE´	0.18500	0.19000		mg/L	2.7		10		J
	MS	105511-01RE´	0.18500	25.904	25.253	mg/L		102		80 - 120	
	MSD	105511-01RE´	0.18500	25.470	25.253	mg/L	1.7	100	10	80 - 120	
QC Batch ID: BUD0665	Used client sample: N										
Non-Volatile Organic Carbon	DUP	1105450-06	0.088000	0.10000		mg/L	12.8		10		J,A02
	MS	1105450-06	0.088000	5.3779	5.0251	mg/L		105		80 - 120	
	MSD	1105450-06	0.088000	5.3970	5.0251	mg/L	0.4	106	10	80 - 120	
QC Batch ID: BUD0667	Used client sample: N										
Total Calcium	DUP	1105507-01	5.9741	5.5583		mg/L	7.2		20		
	MS	1105507-01	5.9741	15.294	10.000	mg/L		93.2		75 - 125	
	MSD	1105507-01	5.9741	15.760	10.000	mg/L	3.0	97.9	20	75 - 125	
Total Magnesium	DUP	1105507-01	3.7200	3.4472		mg/L	7.6		20		
	MS	1105507-01	3.7200	13.558	10.000	mg/L		98.4		75 - 125	
	MSD	1105507-01	3.7200	13.663	10.000	mg/L	0.8	99.4	20	75 - 125	
Total Sodium	DUP	1105507-01	6.7717	6.4920		mg/L	4.2		20		
	MS	1105507-01	6.7717	16.421	10.000	mg/L		96.5		75 - 125	
	MSD	1105507-01	6.7717	16.848	10.000	mg/L	2.6	101	20	75 - 125	
Total Potassium	DUP	1105507-01	2.4920	2.4369		mg/L	2.2		20		
	MS	1105507-01	2.4920	11.878	10.000	mg/L		93.9		75 - 125	
	MSD	1105507-01	2.4920	12.200	10.000	mg/L	2.7	97.1	20	75 - 125	
QC Batch ID: BUD0673	Used client sample: N										

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 04/25/2011 11:11
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUD0673	Used client sample: N										
Chloride	DUP	1105570-01	0.32700	0.50100		mg/L	42.0		10		A02
	MS	1105570-01	0.32700	97.871	101.01	mg/L		96.6		80 - 120	
	MSD	1105570-01	0.32700	98.278	101.01	mg/L	0.4	97.0	10	80 - 120	
Sulfate	DUP	1105570-01	0.20300	0.29100		mg/L	35.6		10		J,A02
	MS	1105570-01	0.20300	97.147	101.01	mg/L		96.0		80 - 120	
	MSD	1105570-01	0.20300	97.292	101.01	mg/L	0.1	96.1	10	80 - 120	
QC Batch ID: BUD0683	Used client sample: Y - Description: LW-4, 04/07/2011 10:00										
Total Dissolved Solids @ 180 C	DUP	1105509-01	5400.0	5300.0		mg/L	1.9		10		
QC Batch ID: BUD0822	Used client sample: N										
Total Cyanide	DUP	1105570-01	ND	ND		mg/L			10		
	MS	1105570-01	ND	0.094282	0.10000	mg/L		94.3		90 - 110	
	MSD	1105570-01	ND	0.095823	0.10000	mg/L	1.6	95.8	10	90 - 110	
QC Batch ID: BUD1025	Used client sample: N										
Nitrate/Nitrite as N	DUP	1105689-02	0.59730	0.59620		mg/L	0.2		10		
	MS	1105689-02	0.59730	2.7789	2.1053	mg/L		104		90 - 110	
	MSD	1105689-02	0.59730	2.7734	2.1053	mg/L	0.2	103	10	90 - 110	

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Reported: 04/25/2011 11:11
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Water Analysis (Metals)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUD0667						
Total Antimony	BUD0667-BLK1	ND	ug/L	100	13	
Total Arsenic	BUD0667-BLK2	ND	ug/L	50	9.8	
Total Barium	BUD0667-BLK1	ND	ug/L	10	1.0	
Total Beryllium	BUD0667-BLK1	ND	ug/L	10	1.0	
Total Cadmium	BUD0667-BLK1	ND	ug/L	10	1.0	
Total Chromium	BUD0667-BLK1	ND	ug/L	10	1.0	
Total Cobalt	BUD0667-BLK1	ND	ug/L	50	5.0	
Total Copper	BUD0667-BLK1	ND	ug/L	10	2.3	
Total Lead	BUD0667-BLK1	ND	ug/L	50	5.0	
Total Molybdenum	BUD0667-BLK1	ND	ug/L	50	5.0	
Total Nickel	BUD0667-BLK2	ND	ug/L	10	1.2	
Total Selenium	BUD0667-BLK1	ND	ug/L	100	15	
Total Silver	BUD0667-BLK1	4.7631	ug/L	10	1.0	J
Total Thallium	BUD0667-BLK1	ND	ug/L	100	17	
Total Vanadium	BUD0667-BLK2	ND	ug/L	10	1.6	
Total Zinc	BUD0667-BLK1	ND	ug/L	50	2.9	
QC Batch ID: BUD0818						
Total Mercury	BUD0818-BLK1	ND	ug/L	0.20	0.034	

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Reported: 04/25/2011 11:11
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Water Analysis (Metals)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUD0667										
Total Antimony	BUD0667-BS1	LCS	344.66	400.00	ug/L	86.2		85 - 115		
Total Arsenic	BUD0667-BS2	LCS	187.03	200.00	ug/L	93.5		85 - 115		
Total Barium	BUD0667-BS1	LCS	380.07	400.00	ug/L	95.0		85 - 115		
Total Beryllium	BUD0667-BS1	LCS	189.56	200.00	ug/L	94.8		85 - 115		
Total Cadmium	BUD0667-BS1	LCS	189.64	200.00	ug/L	94.8		85 - 115		
Total Chromium	BUD0667-BS1	LCS	192.98	200.00	ug/L	96.5		85 - 115		
Total Cobalt	BUD0667-BS1	LCS	192.73	200.00	ug/L	96.4		85 - 115		
Total Copper	BUD0667-BS1	LCS	380.35	400.00	ug/L	95.1		85 - 115		
Total Lead	BUD0667-BS1	LCS	387.87	400.00	ug/L	97.0		85 - 115		
Total Molybdenum	BUD0667-BS1	LCS	189.37	200.00	ug/L	94.7		85 - 115		
Total Nickel	BUD0667-BS2	LCS	418.65	400.00	ug/L	105		85 - 115		
Total Selenium	BUD0667-BS1	LCS	202.88	200.00	ug/L	101		85 - 115		
Total Silver	BUD0667-BS1	LCS	96.621	100.00	ug/L	96.6		85 - 115		
Total Thallium	BUD0667-BS1	LCS	404.36	400.00	ug/L	101		85 - 115		
Total Vanadium	BUD0667-BS2	LCS	196.59	200.00	ug/L	98.3		85 - 115		
Total Zinc	BUD0667-BS1	LCS	479.75	500.00	ug/L	95.9		85 - 115		
QC Batch ID: BUD0818										
Total Mercury	BUD0818-BS1	LCS	1.0350	1.0000	ug/L	104		85 - 115		

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Reported: 04/25/2011 11:11
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUD0667	Used client sample: N										
Total Antimony	DUP	1105507-01	ND	ND		ug/L			20		
	MS	1105507-01	ND	363.54	400.00	ug/L		90.9		75 - 125	
	MSD	1105507-01	ND	365.65	400.00	ug/L	0.6	91.4	20	75 - 125	
Total Arsenic	DUP	1105507-01	ND	ND		ug/L			20		
	MS	1105507-01	ND	194.24	200.00	ug/L		97.1		75 - 125	
	MSD	1105507-01	ND	197.36	200.00	ug/L	1.6	98.7	20	75 - 125	
Total Barium	DUP	1105507-01	4.1916	3.9330		ug/L	6.4		20		J
	MS	1105507-01	4.1916	391.39	400.00	ug/L		96.8		75 - 125	
	MSD	1105507-01	4.1916	400.99	400.00	ug/L	2.4	99.2	20	75 - 125	
Total Beryllium	DUP	1105507-01	ND	ND		ug/L			20		
	MS	1105507-01	ND	194.58	200.00	ug/L		97.3		75 - 125	
	MSD	1105507-01	ND	199.74	200.00	ug/L	2.6	99.9	20	75 - 125	
Total Cadmium	DUP	1105507-01	ND	ND		ug/L			20		
	MS	1105507-01	ND	193.08	200.00	ug/L		96.5		75 - 125	
	MSD	1105507-01	ND	195.31	200.00	ug/L	1.1	97.7	20	75 - 125	
Total Chromium	DUP	1105507-01	1.3829	1.4655		ug/L	5.8		20		J
	MS	1105507-01	1.3829	196.91	200.00	ug/L		97.8		75 - 125	
	MSD	1105507-01	1.3829	202.22	200.00	ug/L	2.7	100	20	75 - 125	
Total Cobalt	DUP	1105507-01	ND	ND		ug/L			20		
	MS	1105507-01	ND	198.16	200.00	ug/L		99.1		75 - 125	
	MSD	1105507-01	ND	198.73	200.00	ug/L	0.3	99.4	20	75 - 125	
Total Copper	DUP	1105507-01	ND	ND		ug/L			20		
	MS	1105507-01	ND	387.44	400.00	ug/L		96.9		75 - 125	
	MSD	1105507-01	ND	390.17	400.00	ug/L	0.7	97.5	20	75 - 125	
Total Lead	DUP	1105507-01	ND	ND		ug/L			20		
	MS	1105507-01	ND	396.45	400.00	ug/L		99.1		75 - 125	
	MSD	1105507-01	ND	399.89	400.00	ug/L	0.9	100	20	75 - 125	
Total Molybdenum	DUP	1105507-01	ND	ND		ug/L			20		
	MS	1105507-01	ND	190.96	200.00	ug/L		95.5		75 - 125	
	MSD	1105507-01	ND	194.06	200.00	ug/L	1.6	97.0	20	75 - 125	
Total Nickel	DUP	1105507-01	ND	ND		ug/L			20		
	MS	1105507-01	ND	430.59	400.00	ug/L		108		75 - 125	
	MSD	1105507-01	ND	428.40	400.00	ug/L	0.5	107	20	75 - 125	
Total Selenium	DUP	1105507-01	22.050	28.827		ug/L	26.6		20		J,A02
	MS	1105507-01	22.050	227.78	200.00	ug/L		103		75 - 125	
	MSD	1105507-01	22.050	227.02	200.00	ug/L	0.3	102	20	75 - 125	
Total Silver	DUP	1105507-01	5.1854	3.5254		ug/L	38.1		20		J,A02
	MS	1105507-01	5.1854	97.701	100.00	ug/L		92.5		75 - 125	
	MSD	1105507-01	5.1854	101.17	100.00	ug/L	3.5	96.0	20	75 - 125	

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425 Lakeside Drive
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Reported: 04/25/2011 11:11
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUD0667	Used client sample: N										
Total Thallium	DUP	1105507-01	ND	ND		ug/L			20		
	MS	1105507-01	ND	406.52	400.00	ug/L		102		75 - 125	
	MSD	1105507-01	ND	412.72	400.00	ug/L	1.5	103	20	75 - 125	
Total Vanadium	DUP	1105507-01	9.4330	10.373		ug/L	9.5		20		
	MS	1105507-01	9.4330	213.95	200.00	ug/L		102		75 - 125	
	MSD	1105507-01	9.4330	213.63	200.00	ug/L	0.1	102	20	75 - 125	
Total Zinc	DUP	1105507-01	29.591	26.708		ug/L	10.2		20		J
	MS	1105507-01	29.591	520.63	500.00	ug/L		98.2		75 - 125	
	MSD	1105507-01	29.591	529.75	500.00	ug/L	1.7	100	20	75 - 125	
QC Batch ID: BUD0818	Used client sample: N										
Total Mercury	DUP	1105430-01	ND	ND		ug/L			20		
	MS	1105430-01	ND	1.0175	1.0000	ug/L		102		70 - 130	
	MSD	1105430-01	ND	1.0375	1.0000	ug/L	1.9	104	20	70 - 130	

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Golder Associates 425 Lakeside Drive Sunnyvale, CA 94085	**Reported:** 04/25/2011 11:11 Project: Nine Par Project Number: 103-97163-11 Project Manager: Tom Vercoutere

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A01	PQL's and MDL's are raised due to sample dilution.
A02	The difference between duplicate readings is less than the PQL.
V11	The Continuing Calibration Verification (CCV) recovery is not within established control limits.
Z1	This sample was re-analyzed past holding time for confirmation.

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Date of Report: 05/02/2011

Tom Vercoutere

Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

RE:	Nine Par
BC Work Order:	1104920
Invoice ID:	B098629

Enclosed are the results of analyses for samples received by the laboratory on 3/30/2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Linda Phoudamneun

Contact Person: Linda Phoudamneun
Client Service Rep

Authorized Signature

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Executive Summary - Detections

Constituent	Result	PQL	MDL	Units	Method	Lab Quals
1104920-01 TP-3, 3/28/2011 1:40:00PM						
Benzene	320	130	17	ug/m3	EPA-TO-15	A01
Benzyl chloride	340	410	21	ug/m3	EPA-TO-15	J,A01
Cyclohexane	1300	140	22	ug/m3	EPA-TO-15	A01
1,4-Dichlorobenzene	220	240	32	ug/m3	EPA-TO-15	J,A01
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2300	280	29	ug/m3	EPA-TO-15	A01
n-Heptane	3700	160	19	ug/m3	EPA-TO-15	A01
Hexane	3400	280	18	ug/m3	EPA-TO-15	A01
Vinyl chloride	320	100	11	ug/m3	EPA-TO-15	A01
Carbon dioxide (CO2)	23	0.25	0.15	% by Vol.	EPA-3C	A01
Methane (CH4)	76	0.020	0.020	% by Vol.	EPA-3C	A01
1104920-02 TP-2, 3/28/2011 4:15:00PM						
Acetone	260	24	3.1	ug/m3	EPA-TO-15	A01
Benzene	10	16	2.2	ug/m3	EPA-TO-15	J,A01
Carbon disulfide	14	16	2.1	ug/m3	EPA-TO-15	J,A01
Hexane	22	35	2.3	ug/m3	EPA-TO-15	J,A01
Methyl ethyl ketone	48	15	3.8	ug/m3	EPA-TO-15	A01
Toluene	15	19	1.9	ug/m3	EPA-TO-15	J,A01
Carbon dioxide (CO2)	0.31	0.10	0.060	% by Vol.	EPA-3C	
Methane (CH4)	0.39	0.00020	0.00020	% by Vol.	EPA-3C	
Nitrogen (N2)	80	5.0	3.9	% by Vol.	EPA-3C	
Oxygen (O2)	19	0.020	0.016	% by Vol.	EPA-3C	
1104920-03 TP-5, 3/29/2011 9:30:00AM						
Benzene	720	130	17	ug/m3	EPA-TO-15	A01
Carbon disulfide	390	120	17	ug/m3	EPA-TO-15	A01
Cyclohexane	870	140	22	ug/m3	EPA-TO-15	A01
1,2-Dichloro-1,1,2,2-tetrafluoroethane	650	280	29	ug/m3	EPA-TO-15	A01
n-Heptane	1800	160	19	ug/m3	EPA-TO-15	A01
Hexane	2800	280	18	ug/m3	EPA-TO-15	A01
1,2,4-Trimethylbenzene	330	200	20	ug/m3	EPA-TO-15	A01
1,3,5-Trimethylbenzene	110	200	47	ug/m3	EPA-TO-15	J,A01
Vinyl chloride	90	100	11	ug/m3	EPA-TO-15	J,A01
p- & m-Xylenes	110	170	38	ug/m3	EPA-TO-15	J,A01
Total Xylenes	110	350	63	ug/m3	EPA-TO-15	J,A01
Carbon dioxide (CO2)	12	0.10	0.060	% by Vol.	EPA-3C	
Methane (CH4)	13	0.020	0.020	% by Vol.	EPA-3C	A01
Nitrogen (N2)	72	5.0	3.9	% by Vol.	EPA-3C	
Oxygen (O2)	3.2	0.020	0.016	% by Vol.	EPA-3C	

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Executive Summary - Detections

Constituent	Result	PQL	MDL	Units	Method	Lab Quals
1104920-04 TP-6, 3/29/2011 10:30:00AM						
Acetone	550	48	6.2	ug/m3	EPA-TO-15	A01
Benzene	74	32	4.3	ug/m3	EPA-TO-15	A01
Cyclohexane	99	34	5.4	ug/m3	EPA-TO-15	A01
Dichlorodifluoromethane	33	49	6.5	ug/m3	EPA-TO-15	J,A01
cis-1,2-Dichloroethene	27	40	4.0	ug/m3	EPA-TO-15	J,A01
1,2-Dichloro-1,1,2,2-tetrafluoroethane	190	70	7.1	ug/m3	EPA-TO-15	A01
Ethylbenzene	32	43	4.3	ug/m3	EPA-TO-15	J,A01
n-Heptane	94	41	4.8	ug/m3	EPA-TO-15	A01
Hexane	120	70	4.6	ug/m3	EPA-TO-15	A01
Methyl ethyl ketone	130	29	7.7	ug/m3	EPA-TO-15	A01
Methyl isobutyl ketone	110	41	12	ug/m3	EPA-TO-15	A01
Styrene	23	43	4.5	ug/m3	EPA-TO-15	J,A01
Toluene	15	38	3.8	ug/m3	EPA-TO-15	J,A01
Carbon dioxide (CO2)	8.2	0.10	0.060	% by Vol.	EPA-3C	
Methane (CH4)	8.3	0.020	0.020	% by Vol.	EPA-3C	A01
Nitrogen (N2)	77	5.0	3.9	% by Vol.	EPA-3C	
Oxygen (O2)	6.2	0.020	0.016	% by Vol.	EPA-3C	
1104920-05 TP-7, 3/29/2011 12:00:00PM						
Acetone	210	24	3.1	ug/m3	EPA-TO-15	A01
Benzene	14	16	2.2	ug/m3	EPA-TO-15	J,A01
Cyclohexane	52	17	2.7	ug/m3	EPA-TO-15	A01
1,2-Dichloro-1,1,2,2-tetrafluoroethane	41	35	3.6	ug/m3	EPA-TO-15	A01
n-Heptane	120	20	2.4	ug/m3	EPA-TO-15	A01
Hexane	180	35	2.3	ug/m3	EPA-TO-15	A01
Methylene chloride	11	17	1.7	ug/m3	EPA-TO-15	J,A01
Methyl ethyl ketone	26	15	3.8	ug/m3	EPA-TO-15	A01
Toluene	22	19	1.9	ug/m3	EPA-TO-15	A01
Vinyl chloride	9.1	13	1.4	ug/m3	EPA-TO-15	J,A01
Carbon dioxide (CO2)	1.1	0.10	0.060	% by Vol.	EPA-3C	
Methane (CH4)	1.9	0.00020	0.00020	% by Vol.	EPA-3C	
Nitrogen (N2)	79	5.0	3.9	% by Vol.	EPA-3C	
Oxygen (O2)	18	0.020	0.016	% by Vol.	EPA-3C	
1104920-06 LW-3, 3/29/2011 4:15:00PM						
Benzene	1200	130	17	ug/m3	EPA-TO-15	A01
Carbon disulfide	180	120	17	ug/m3	EPA-TO-15	A01
Chlorobenzene	3900	180	18	ug/m3	EPA-TO-15	A01
Cyclohexane	760	140	22	ug/m3	EPA-TO-15	A01

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Executive Summary - Detections

Constituent	Result	PQL	MDL	Units	Method	Lab Quals
1104920-06 LW-3, 3/29/2011 4:15:00PM						
cis-1,2-Dichloroethene	69	160	16	ug/m3	EPA-TO-15	J,A01
1,2-Dichloro-1,1,2,2-tetrafluoroethane	1700	280	29	ug/m3	EPA-TO-15	A01
Ethylbenzene	1100	170	17	ug/m3	EPA-TO-15	A01
1-Ethyl-4-methylbenzene	1500	200	35	ug/m3	EPA-TO-15	A01
n-Heptane	3900	160	19	ug/m3	EPA-TO-15	A01
Hexane	2800	280	18	ug/m3	EPA-TO-15	A01
Propylene	6800	69	13	ug/m3	EPA-TO-15	A01
Toluene	240	150	15	ug/m3	EPA-TO-15	A01
1,2,4-Trimethylbenzene	5000	200	20	ug/m3	EPA-TO-15	A01
1,3,5-Trimethylbenzene	1700	200	47	ug/m3	EPA-TO-15	A01
Vinyl chloride	300	100	11	ug/m3	EPA-TO-15	A01
p- & m-Xylenes	1600	170	38	ug/m3	EPA-TO-15	A01
o-Xylene	1200	170	24	ug/m3	EPA-TO-15	A01
Total Xylenes	2800	350	63	ug/m3	EPA-TO-15	A01
Carbon dioxide (CO2)	41	0.25	0.15	% by Vol.	EPA-3C	A01
Methane (CH4)	25	0.020	0.020	% by Vol.	EPA-3C	A01
Nitrogen (N2)	33	12	9.8	% by Vol.	EPA-3C	A01
Oxygen (O2)	1.1	0.050	0.040	% by Vol.	EPA-3C	A01
1104920-07 LW-2, 3/29/2011 4:30:00PM						
Benzene	32	16	2.2	ug/m3	EPA-TO-15	A01
Carbon disulfide	29	16	2.1	ug/m3	EPA-TO-15	A01
Chlorobenzene	96	23	2.3	ug/m3	EPA-TO-15	A01
Cyclohexane	320	17	2.7	ug/m3	EPA-TO-15	A01
Ethanol	420	19	5.8	ug/m3	EPA-TO-15	A01
Ethylbenzene	12	22	2.2	ug/m3	EPA-TO-15	J,A01
1-Ethyl-4-methylbenzene	15	25	4.4	ug/m3	EPA-TO-15	J,A01
n-Heptane	130	20	2.4	ug/m3	EPA-TO-15	A01
Hexane	290	35	2.3	ug/m3	EPA-TO-15	A01
Isopropyl alcohol	190	12	2.3	ug/m3	EPA-TO-15	A01
Methyl ethyl ketone	18	15	3.8	ug/m3	EPA-TO-15	A01
Toluene	19	19	1.9	ug/m3	EPA-TO-15	A01
1,2,4-Trimethylbenzene	13	25	2.5	ug/m3	EPA-TO-15	J,A01
p- & m-Xylenes	11	22	4.8	ug/m3	EPA-TO-15	J,A01
Total Xylenes	11	43	7.8	ug/m3	EPA-TO-15	J,A01
Carbon dioxide (CO2)	9.0	0.10	0.060	% by Vol.	EPA-3C	
Methane (CH4)	7.7	0.020	0.020	% by Vol.	EPA-3C	A01
Nitrogen (N2)	68	5.0	3.9	% by Vol.	EPA-3C	
Oxygen (O2)	16	0.020	0.016	% by Vol.	EPA-3C	

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Executive Summary - Detections

Constituent		Result	PQL	MDL	Units	Method	Lab Quals
1104920-07	**LW-2, 3/29/2011 4:30:00PM**						

Golder Associates 11-04920

Golder Associates
CHAIN OF CUSTODY

Page 1 of 1
Quotation No.

PROJECT NO.: 103 97163 11
SITE NAME: 9-Par
SAMPLER(S): Jeff Linder (printed) Jeff (signature)
CONTRACT LABORATORY: BC LABS
TURN-AROUND TIME: Standard

ANALYSES: VOCs by TO-15; Fixed Gas by ASTM-D 1946

EDD required? [X] Yes [ ] No
EDF required? [ ] Yes [X] No

Sample I.D.	Lab I.D.	Collection Date	Collection Time	Matrix	Depth	Container Info: Type/Vol. / Filter / Preserv.	VOCs by TO-15 (6L Summa)	Fixed Gas by ASTM-D 1946	Cont. Qty.	Remarks
TP-3	-1	3/28	1340	gas			X	X		Fixed gas CO_2, CO, CH_4 N_2, O_2 Land fill gas only
TP-2	-2	3/28	1615	↓			X	X		
TP-5	-3	3/29	0930	↓			X	X		
TP-6	-4	↓	1030	↓			X	X		
TP-7	-5	↓	1200	↓			X	X		
LW-3	-6	↓	1615	↓			X	X		
LW-2	-7	↓	1630	↓			X	X		

CHK BY [illegible] DISTRIBUTION [illegible] SUB-OUT

Relinquished by: (signature)	Received by: (signature)	Date/Time:
Jeff [illegible]	P. Bins BCL	3/30/11 1425
P. Bins BCL 3/30/11 1730	R. [illegible]	3-30-11 1730
R. [illegible] 3-30-11 2200	Maria Maldonado	3-30-11 2200

SEND RESULTS TO:
Attn: Tom Vercoutere
Golder Associates Inc.
425 Lakeside Drive
Sunnyvale, CA 94085
Phone (408) 220-9223
Fax (408) 220-9224

white: lab copy yellow: project file

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4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com

Chain of Custody and Cooler Receipt Form for 1104920 Page 2 of 2

BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 06/24/08 Page 1 Of 1

Submission #: 11-049520

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ JNW None ☐
Box ☑ #3130 Other ☐ (Specify)_____

Refrigerant: Ice ☐ Blue Ice ☐ None ☑ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☐ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.9 Container: Summa Canister Thermometer ID: ~~113~~ Date/Time 3.30.11 2200

Temperature: A ROOM °C / C TEMP °C Analyst Init JNW

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
Pta PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
~~PLASTIC BAG~~ Summa Canister	A	A	A	A	A	A	A			
FERROUS IRON										
ENCORE										

Comments: label on -2A is crossed off. JW
Sample Numbering Completed By: MM Date/Time: 3/30/11 0:23
A = Actual / C = Corrected

[H:\DOCS\WP80\LAB_DOCS\FORMS\SAMREC2.WPD]

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 05/02/2011 14:24
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1104920-01	**COC Number:**	---	**Receive Date:**	03/30/2011 22:00
	Project Number:	---	**Sampling Date:**	03/28/2011 13:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	TP-3	**Lab Matrix:**	Air
	Sampled By:	---	**Sample Type:**	Vapor or Air
1104920-02	**COC Number:**	---	**Receive Date:**	03/30/2011 22:00
	Project Number:	---	**Sampling Date:**	03/28/2011 16:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	TP-2	**Lab Matrix:**	Air
	Sampled By:	---	**Sample Type:**	Vapor or Air
1104920-03	**COC Number:**	---	**Receive Date:**	03/30/2011 22:00
	Project Number:	---	**Sampling Date:**	03/29/2011 09:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	TP-5	**Lab Matrix:**	Air
	Sampled By:	---	**Sample Type:**	Vapor or Air
1104920-04	**COC Number:**	---	**Receive Date:**	03/30/2011 22:00
	Project Number:	---	**Sampling Date:**	03/29/2011 10:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	TP-6	**Lab Matrix:**	Air
	Sampled By:	---	**Sample Type:**	Vapor or Air
1104920-05	**COC Number:**	---	**Receive Date:**	03/30/2011 22:00
	Project Number:	---	**Sampling Date:**	03/29/2011 12:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	TP-7	**Lab Matrix:**	Air
	Sampled By:	---	**Sample Type:**	Vapor or Air
1104920-06	**COC Number:**	---	**Receive Date:**	03/30/2011 22:00
	Project Number:	---	**Sampling Date:**	03/29/2011 16:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	LW-3	**Lab Matrix:**	Air
	Sampled By:	---	**Sample Type:**	Vapor or Air
1104920-07	**COC Number:**	---	**Receive Date:**	03/30/2011 22:00
	Project Number:	---	**Sampling Date:**	03/29/2011 16:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	LW-2	**Lab Matrix:**	Air
	Sampled By:	---	**Sample Type:**	Vapor or Air

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 05/02/2011 14:24
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

BCL Sample ID: 1104920-01 | **Client Sample Name:** TP-3, 3/28/2011 1:40:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acetone	ND	ug/m3	190	25	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	170	23	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	130	13	EPA-TO-15	ND	A01	1
Benzene	**320**	**ug/m3**	**130**	**17**	**EPA-TO-15**	**ND**	**A01**	1
Benzyl chloride	**340**	**ug/m3**	**410**	**21**	**EPA-TO-15**	**ND**	**J,A01**	1
Bromodichloromethane	ND	ug/m3	270	37	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	410	41	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	160	27	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	88	13	EPA-TO-15	ND	A01	1
Carbon disulfide	ND	ug/m3	120	17	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	250	29	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	180	18	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	110	15	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	200	20	EPA-TO-15	ND	A01	1
Chloromethane	ND	ug/m3	83	8.4	EPA-TO-15	ND	A01	1
Cyclohexane	**1300**	**ug/m3**	**140**	**22**	**EPA-TO-15**	**ND**	**A01**	1
Dibromochloromethane	ND	ug/m3	340	34	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	310	42	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	240	27	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	240	44	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	**220**	**ug/m3**	**240**	**32**	**EPA-TO-15**	**ND**	**J,A01**	1
Dichlorodifluoromethane	ND	ug/m3	200	26	EPA-TO-15	ND	A01	1
1,1-Dichloroethane	ND	ug/m3	160	20	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	160	16	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	160	20	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	160	16	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	160	18	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	180	25	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	180	23	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	180	23	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	**2300**	**ug/m3**	**280**	**29**	**EPA-TO-15**	**ND**	**A01**	1
1,4-Dioxane	ND	ug/m3	140	20	EPA-TO-15	ND	A01	1
Ethanol	ND	ug/m3	150	47	EPA-TO-15	ND	A01	1

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Reported: 05/02/2011 14:24
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

BCL Sample ID: 1104920-01 | **Client Sample Name:** TP-3, 3/28/2011 1:40:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Ethyl acetate	ND	ug/m3	140	28	EPA-TO-15	ND	A01	1
Ethylbenzene	ND	ug/m3	170	17	EPA-TO-15	ND	A01	1
1-Ethyl-4-methylbenzene	ND	ug/m3	200	35	EPA-TO-15	ND	A01	1
n-Heptane	**3700**	**ug/m3**	**160**	**19**	**EPA-TO-15**	**ND**	**A01**	1
Hexachlorobutadiene	ND	ug/m3	430	50	EPA-TO-15	ND	A01	1
Hexane	**3400**	**ug/m3**	**280**	**18**	**EPA-TO-15**	**ND**	**A01**	1
2-Hexanone	ND	ug/m3	160	36	EPA-TO-15	ND	A01	1
Isopropyl alcohol	ND	ug/m3	98	19	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	140	14	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	ND	ug/m3	120	31	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	ND	ug/m3	160	49	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3	140	35	EPA-TO-15	ND	A01	1
Propylene	ND	ug/m3	69	13	EPA-TO-15	ND	A01	1
Styrene	ND	ug/m3	170	18	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	270	46	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	270	34	EPA-TO-15	ND	A01	1
Tetrahydrofuran	ND	ug/m3	120	40	EPA-TO-15	ND	A01	1
Toluene	ND	ug/m3	150	15	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	590	34	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	220	28	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	220	25	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	210	21	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	ND	ug/m3	220	25	EPA-TO-15	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	310	31	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	ND	ug/m3	200	20	EPA-TO-15	ND	A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	200	47	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	140	17	EPA-TO-15	ND	A01	1
Vinyl chloride	**320**	**ug/m3**	**100**	**11**	**EPA-TO-15**	**ND**	**A01**	1
p- & m-Xylenes	ND	ug/m3	170	38	EPA-TO-15	ND	A01	1
o-Xylene	ND	ug/m3	170	24	EPA-TO-15	ND	A01	1
Total Xylenes	ND	ug/m3	350	63	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	115	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Reported: 05/02/2011 14:24
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

BCL Sample ID: 1104920-01 | **Client Sample Name:** TP-3, 3/28/2011 1:40:00PM

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	04/07/11	04/08/11 11:20	LHS	HPCHEM	80	BUD0304

Golder Associates
425 Lakeside Drive
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Reported: 05/02/2011 14:24
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Fixed Gases by GC/TCD (EPA 3C)

BCL Sample ID: 1104920-01 | **Client Sample Name:** TP-3, 3/28/2011 1:40:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Carbon dioxide (CO2)	**23**	**% by Vol.**	**0.25**	**0.15**	**EPA-3C**	**ND**	**A01**	1
Carbon monoxide (CO)	ND	% by Vol.	0.12	0.080	EPA-3C	ND	A01	1
Methane (CH4)	**76**	**% by Vol.**	**0.020**	**0.020**	**EPA-3C**	**ND**	**A01**	2
Nitrogen (N2)	ND	% by Vol.	12	9.8	EPA-3C	ND	A01	1
Oxygen (O2)	ND	% by Vol.	0.050	0.040	EPA-3C	ND	A01	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-3C	03/31/11	03/31/11 13:26	LHS	HPCHEM	2.500	BUC2157
2	EPA-3C	03/31/11	03/31/11 13:48	LHS	HPCHEM	100	BUC2157

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Reported: 05/02/2011 14:24
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

BCL Sample ID: 1104920-02 | **Client Sample Name:** TP-2, 3/28/2011 4:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acetone	**260**	**ug/m3**	**24**	**3.1**	**EPA-TO-15**	**ND**	**A01**	1
Acrylonitrile	ND	ug/m3	22	2.8	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	16	1.6	EPA-TO-15	ND	A01	1
Benzene	**10**	**ug/m3**	**16**	**2.2**	**EPA-TO-15**	**ND**	**J,A01**	1
Benzyl chloride	ND	ug/m3	52	2.6	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	34	4.6	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	52	5.2	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	19	3.4	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	11	1.7	EPA-TO-15	ND	A01	1
Carbon disulfide	**14**	**ug/m3**	**16**	**2.1**	**EPA-TO-15**	**ND**	**J,A01**	1
Carbon tetrachloride	ND	ug/m3	31	3.6	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	23	2.3	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	13	1.9	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	24	2.5	EPA-TO-15	ND	A01	1
Chloromethane	ND	ug/m3	10	1.1	EPA-TO-15	ND	A01	1
Cyclohexane	ND	ug/m3	17	2.7	EPA-TO-15	ND	A01	1
Dibromochloromethane	ND	ug/m3	43	4.3	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	38	5.3	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	30	3.4	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	30	5.5	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	30	4.0	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	ND	ug/m3	25	3.3	EPA-TO-15	ND	A01	1
1,1-Dichloroethane	ND	ug/m3	20	2.5	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	20	2.0	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	20	2.5	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	20	2.0	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	20	2.2	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	23	3.1	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	23	2.9	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	23	2.8	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	35	3.6	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	18	2.5	EPA-TO-15	ND	A01	1
Ethanol	ND	ug/m3	19	5.8	EPA-TO-15	ND	A01	1

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425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 05/02/2011 14:24
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

BCL Sample ID: 1104920-02 | **Client Sample Name:** TP-2, 3/28/2011 4:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Ethyl acetate	ND	ug/m3	18	3.5	EPA-TO-15	ND	A01	1
Ethylbenzene	ND	ug/m3	22	2.2	EPA-TO-15	ND	A01	1
1-Ethyl-4-methylbenzene	ND	ug/m3	25	4.4	EPA-TO-15	ND	A01	1
n-Heptane	ND	ug/m3	20	2.4	EPA-TO-15	ND	A01	1
Hexachlorobutadiene	ND	ug/m3	53	6.3	EPA-TO-15	ND	A01	1
Hexane	**22**	**ug/m3**	**35**	**2.3**	**EPA-TO-15**	**ND**	**J,A01**	1
2-Hexanone	ND	ug/m3	20	4.5	EPA-TO-15	ND	A01	1
Isopropyl alcohol	ND	ug/m3	12	2.3	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	17	1.7	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	**48**	**ug/m3**	**15**	**3.8**	**EPA-TO-15**	**ND**	**A01**	1
Methyl isobutyl ketone	ND	ug/m3	20	6.1	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3	18	4.3	EPA-TO-15	ND	A01	1
Propylene	ND	ug/m3	8.6	1.7	EPA-TO-15	ND	A01	1
Styrene	ND	ug/m3	21	2.3	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	34	5.8	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	34	4.3	EPA-TO-15	ND	A01	1
Tetrahydrofuran	ND	ug/m3	15	5.0	EPA-TO-15	ND	A01	1
Toluene	**15**	**ug/m3**	**19**	**1.9**	**EPA-TO-15**	**ND**	**J,A01**	1
1,2,4-Trichlorobenzene	ND	ug/m3	74	4.3	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	27	3.5	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	27	3.1	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	27	2.7	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	ND	ug/m3	28	3.1	EPA-TO-15	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	38	3.8	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	ND	ug/m3	25	2.5	EPA-TO-15	ND	A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	25	5.9	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	18	2.1	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	13	1.4	EPA-TO-15	ND	A01	1
p- & m-Xylenes	ND	ug/m3	22	4.8	EPA-TO-15	ND	A01	1
o-Xylene	ND	ug/m3	22	3.0	EPA-TO-15	ND	A01	1
Total Xylenes	ND	ug/m3	43	7.8	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	116	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 05/02/2011 14:24
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

BCL Sample ID: 1104920-02 | **Client Sample Name:** TP-2, 3/28/2011 4:15:00PM

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	04/07/11	04/09/11 13:31	LHS	HPCHEM	10	BUD0304

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425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 05/02/2011 14:24
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Fixed Gases by GC/TCD (EPA 3C)

BCL Sample ID: 1104920-02 | **Client Sample Name:** TP-2, 3/28/2011 4:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Carbon dioxide (CO2)	**0.31**	**% by Vol.**	**0.10**	**0.060**	**EPA-3C**	**ND**		1
Carbon monoxide (CO)	ND	% by Vol.	0.050	0.032	EPA-3C	ND		1
Methane (CH4)	**0.39**	**% by Vol.**	**0.00020**	**0.00020**	**EPA-3C**	**ND**		1
Nitrogen (N2)	**80**	**% by Vol.**	**5.0**	**3.9**	**EPA-3C**	**ND**		1
Oxygen (O2)	**19**	**% by Vol.**	**0.020**	**0.016**	**EPA-3C**	**ND**		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-3C	03/31/11	03/31/11 11:17	LHS	HPCHEM	1	BUC2157

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Reported: 05/02/2011 14:24
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

BCL Sample ID: 1104920-03 | **Client Sample Name:** TP-5, 3/29/2011 9:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acetone	ND	ug/m3	190	25	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	170	23	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	130	13	EPA-TO-15	ND	A01	1
Benzene	**720**	**ug/m3**	**130**	**17**	**EPA-TO-15**	**ND**	**A01**	1
Benzyl chloride	ND	ug/m3	410	21	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	270	37	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	410	41	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	160	27	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	88	13	EPA-TO-15	ND	A01	1
Carbon disulfide	**390**	**ug/m3**	**120**	**17**	**EPA-TO-15**	**ND**	**A01**	1
Carbon tetrachloride	ND	ug/m3	250	29	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	180	18	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	110	15	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	200	20	EPA-TO-15	ND	A01	1
Chloromethane	ND	ug/m3	83	8.4	EPA-TO-15	ND	A01	1
Cyclohexane	**870**	**ug/m3**	**140**	**22**	**EPA-TO-15**	**ND**	**A01**	1
Dibromochloromethane	ND	ug/m3	340	34	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	310	42	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	240	27	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	240	44	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	240	32	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	ND	ug/m3	200	26	EPA-TO-15	ND	A01	1
1,1-Dichloroethane	ND	ug/m3	160	20	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	160	16	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	160	20	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	160	16	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	160	18	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	180	25	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	180	23	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	180	23	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	**650**	**ug/m3**	**280**	**29**	**EPA-TO-15**	**ND**	**A01**	1
1,4-Dioxane	ND	ug/m3	140	20	EPA-TO-15	ND	A01	1
Ethanol	ND	ug/m3	150	47	EPA-TO-15	ND	A01	1

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425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 05/02/2011 14:24
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

BCL Sample ID: 1104920-03 | **Client Sample Name:** TP-5, 3/29/2011 9:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Ethyl acetate	ND	ug/m3	140	28	EPA-TO-15	ND	A01	1
Ethylbenzene	ND	ug/m3	170	17	EPA-TO-15	ND	A01	1
1-Ethyl-4-methylbenzene	ND	ug/m3	200	35	EPA-TO-15	ND	A01	1
n-Heptane	**1800**	**ug/m3**	**160**	**19**	**EPA-TO-15**	**ND**	**A01**	1
Hexachlorobutadiene	ND	ug/m3	430	50	EPA-TO-15	ND	A01	1
Hexane	**2800**	**ug/m3**	**280**	**18**	**EPA-TO-15**	**ND**	**A01**	1
2-Hexanone	ND	ug/m3	160	36	EPA-TO-15	ND	A01	1
Isopropyl alcohol	ND	ug/m3	98	19	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	140	14	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	ND	ug/m3	120	31	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	ND	ug/m3	160	49	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3	140	35	EPA-TO-15	ND	A01	1
Propylene	ND	ug/m3	69	13	EPA-TO-15	ND	A01	1
Styrene	ND	ug/m3	170	18	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	270	46	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	270	34	EPA-TO-15	ND	A01	1
Tetrahydrofuran	ND	ug/m3	120	40	EPA-TO-15	ND	A01	1
Toluene	ND	ug/m3	150	15	EPA-TO-15	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/m3	590	34	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	220	28	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	220	25	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	210	21	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	ND	ug/m3	220	25	EPA-TO-15	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	310	31	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	**330**	**ug/m3**	**200**	**20**	**EPA-TO-15**	**ND**	**A01**	1
1,3,5-Trimethylbenzene	**110**	**ug/m3**	**200**	**47**	**EPA-TO-15**	**ND**	**J,A01**	1
Vinyl acetate	ND	ug/m3	140	17	EPA-TO-15	ND	A01	1
Vinyl chloride	**90**	**ug/m3**	**100**	**11**	**EPA-TO-15**	**ND**	**J,A01**	1
p- & m-Xylenes	**110**	**ug/m3**	**170**	**38**	**EPA-TO-15**	**ND**	**J,A01**	1
o-Xylene	ND	ug/m3	170	24	EPA-TO-15	ND	A01	1
Total Xylenes	**110**	**ug/m3**	**350**	**63**	**EPA-TO-15**	**ND**	**J,A01**	1
4-Bromofluorobenzene (Surrogate)	92.0	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Reported: 05/02/2011 14:24
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

BCL Sample ID: 1104920-03 | **Client Sample Name:** TP-5, 3/29/2011 9:30:00AM

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	04/07/11	04/08/11 13:01	LHS	HPCHEM	80	BUD0304

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Reported: 05/02/2011 14:24
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Fixed Gases by GC/TCD (EPA 3C)

BCL Sample ID: 1104920-03 | **Client Sample Name:** TP-5, 3/29/2011 9:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Carbon dioxide (CO2)	**12**	**% by Vol.**	**0.10**	**0.060**	**EPA-3C**	**ND**		1
Carbon monoxide (CO)	ND	% by Vol.	0.050	0.032	EPA-3C	ND		1
Methane (CH4)	**13**	**% by Vol.**	**0.020**	**0.020**	**EPA-3C**	**ND**	**A01**	2
Nitrogen (N2)	**72**	**% by Vol.**	**5.0**	**3.9**	**EPA-3C**	**ND**		1
Oxygen (O2)	**3.2**	**% by Vol.**	**0.020**	**0.016**	**EPA-3C**	**ND**		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-3C	03/31/11	03/31/11 11:38	LHS	HPCHEM	1	BUC2157
2	EPA-3C	03/31/11	03/31/11 14:09	LHS	HPCHEM	100	BUC2157

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Reported: 05/02/2011 14:24
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

BCL Sample ID: 1104920-04 | **Client Sample Name:** TP-6, 3/29/2011 10:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acetone	**550**	**ug/m3**	**48**	**6.2**	**EPA-TO-15**	**ND**	**A01**	1
Acrylonitrile	ND	ug/m3	43	5.6	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	31	3.1	EPA-TO-15	ND	A01	1
Benzene	**74**	**ug/m3**	**32**	**4.3**	**EPA-TO-15**	**ND**	**A01**	1
Benzyl chloride	ND	ug/m3	100	5.2	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	67	9.2	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	100	10	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	39	6.8	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	22	3.4	EPA-TO-15	ND	A01	1
Carbon disulfide	ND	ug/m3	31	4.2	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	63	7.2	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	46	4.6	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	26	3.8	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	49	5.0	EPA-TO-15	ND	A01	1
Chloromethane	ND	ug/m3	21	2.1	EPA-TO-15	ND	A01	1
Cyclohexane	**99**	**ug/m3**	**34**	**5.4**	**EPA-TO-15**	**ND**	**A01**	1
Dibromochloromethane	ND	ug/m3	85	8.5	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	77	11	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	60	6.7	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	60	11	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	60	7.9	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	**33**	**ug/m3**	**49**	**6.5**	**EPA-TO-15**	**ND**	**J,A01**	1
1,1-Dichloroethane	ND	ug/m3	40	5.1	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	40	4.0	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	40	5.0	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	**27**	**ug/m3**	**40**	**4.0**	**EPA-TO-15**	**ND**	**J,A01**	1
trans-1,2-Dichloroethene	ND	ug/m3	40	4.4	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	46	6.3	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	45	5.7	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	45	5.6	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	**190**	**ug/m3**	**70**	**7.1**	**EPA-TO-15**	**ND**	**A01**	1
1,4-Dioxane	ND	ug/m3	36	5.0	EPA-TO-15	ND	A01	1
Ethanol	ND	ug/m3	38	12	EPA-TO-15	ND	A01	1

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Reported: 05/02/2011 14:24
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

BCL Sample ID: 1104920-04 | **Client Sample Name:** TP-6, 3/29/2011 10:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Ethyl acetate	ND	ug/m3	36	7.1	EPA-TO-15	ND	A01	1
Ethylbenzene	**32**	**ug/m3**	**43**	**4.3**	**EPA-TO-15**	**ND**	**J,A01**	1
1-Ethyl-4-methylbenzene	ND	ug/m3	49	8.8	EPA-TO-15	ND	A01	1
n-Heptane	**94**	**ug/m3**	**41**	**4.8**	**EPA-TO-15**	**ND**	**A01**	1
Hexachlorobutadiene	ND	ug/m3	110	13	EPA-TO-15	ND	A01	1
Hexane	**120**	**ug/m3**	**70**	**4.6**	**EPA-TO-15**	**ND**	**A01**	1
2-Hexanone	ND	ug/m3	41	9.0	EPA-TO-15	ND	A01	1
Isopropyl alcohol	ND	ug/m3	25	4.7	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	35	3.5	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	**130**	**ug/m3**	**29**	**7.7**	**EPA-TO-15**	**ND**	**A01**	1
Methyl isobutyl ketone	**110**	**ug/m3**	**41**	**12**	**EPA-TO-15**	**ND**	**A01**	1
Methyl t-butyl ether	ND	ug/m3	36	8.7	EPA-TO-15	ND	A01	1
Propylene	ND	ug/m3	17	3.4	EPA-TO-15	ND	A01	1
Styrene	**23**	**ug/m3**	**43**	**4.5**	**EPA-TO-15**	**ND**	**J,A01**	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	69	12	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	68	8.5	EPA-TO-15	ND	A01	1
Tetrahydrofuran	ND	ug/m3	29	10	EPA-TO-15	ND	A01	1
Toluene	**15**	**ug/m3**	**38**	**3.8**	**EPA-TO-15**	**ND**	**J,A01**	1
1,2,4-Trichlorobenzene	ND	ug/m3	150	8.6	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	55	7.0	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	55	6.2	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	54	5.4	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	ND	ug/m3	56	6.2	EPA-TO-15	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	77	7.7	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	ND	ug/m3	49	4.9	EPA-TO-15	ND	A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	49	12	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	35	4.2	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	26	2.7	EPA-TO-15	ND	A01	1
p- & m-Xylenes	ND	ug/m3	43	9.6	EPA-TO-15	ND	A01	1
o-Xylene	ND	ug/m3	43	6.1	EPA-TO-15	ND	A01	1
Total Xylenes	ND	ug/m3	87	16	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	106	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Reported: 05/02/2011 14:24
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

BCL Sample ID: 1104920-04 | **Client Sample Name:** TP-6, 3/29/2011 10:30:00AM

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	04/07/11	04/09/11 15:32	LHS	HPCHEM	20	BUD0304

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Reported: 05/02/2011 14:24
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Fixed Gases by GC/TCD (EPA 3C)

BCL Sample ID: 1104920-04 | **Client Sample Name:** TP-6, 3/29/2011 10:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Carbon dioxide (CO2)	**8.2**	**% by Vol.**	**0.10**	**0.060**	**EPA-3C**	**ND**		1
Carbon monoxide (CO)	ND	% by Vol.	0.050	0.032	EPA-3C	ND		1
Methane (CH4)	**8.3**	**% by Vol.**	**0.020**	**0.020**	**EPA-3C**	**ND**	**A01**	2
Nitrogen (N2)	**77**	**% by Vol.**	**5.0**	**3.9**	**EPA-3C**	**ND**		1
Oxygen (O2)	**6.2**	**% by Vol.**	**0.020**	**0.016**	**EPA-3C**	**ND**		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-3C	03/31/11	03/31/11 11:59	LHS	HPCHEM	1	BUC2157
2	EPA-3C	03/31/11	03/31/11 15:40	LHS	HPCHEM	100	BUC2157

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Reported: 05/02/2011 14:24
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

BCL Sample ID: 1104920-05 | **Client Sample Name:** TP-7, 3/29/2011 12:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acetone	**210**	**ug/m3**	**24**	**3.1**	**EPA-TO-15**	**ND**	**A01**	1
Acrylonitrile	ND	ug/m3	22	2.8	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	16	1.6	EPA-TO-15	ND	A01	1
Benzene	**14**	**ug/m3**	**16**	**2.2**	**EPA-TO-15**	**ND**	**J,A01**	1
Benzyl chloride	ND	ug/m3	52	2.6	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	34	4.6	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	52	5.2	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	19	3.4	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	11	1.7	EPA-TO-15	ND	A01	1
Carbon disulfide	ND	ug/m3	16	2.1	EPA-TO-15	ND	A01	1
Carbon tetrachloride	ND	ug/m3	31	3.6	EPA-TO-15	ND	A01	1
Chlorobenzene	ND	ug/m3	23	2.3	EPA-TO-15	ND	A01	1
Chloroethane	ND	ug/m3	13	1.9	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	24	2.5	EPA-TO-15	ND	A01	1
Chloromethane	ND	ug/m3	10	1.1	EPA-TO-15	ND	A01	1
Cyclohexane	**52**	**ug/m3**	**17**	**2.7**	**EPA-TO-15**	**ND**	**A01**	1
Dibromochloromethane	ND	ug/m3	43	4.3	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	38	5.3	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	30	3.4	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	30	5.5	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	30	4.0	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	ND	ug/m3	25	3.3	EPA-TO-15	ND	A01	1
1,1-Dichloroethane	ND	ug/m3	20	2.5	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	20	2.0	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	20	2.5	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	20	2.0	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	20	2.2	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	23	3.1	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	23	2.9	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	23	2.8	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	**41**	**ug/m3**	**35**	**3.6**	**EPA-TO-15**	**ND**	**A01**	1
1,4-Dioxane	ND	ug/m3	18	2.5	EPA-TO-15	ND	A01	1
Ethanol	ND	ug/m3	19	5.8	EPA-TO-15	ND	A01	1

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Reported: 05/02/2011 14:24
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

BCL Sample ID: 1104920-05 | **Client Sample Name:** TP-7, 3/29/2011 12:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Ethyl acetate	ND	ug/m3	18	3.5	EPA-TO-15	ND	A01	1
Ethylbenzene	ND	ug/m3	22	2.2	EPA-TO-15	ND	A01	1
1-Ethyl-4-methylbenzene	ND	ug/m3	25	4.4	EPA-TO-15	ND	A01	1
n-Heptane	**120**	**ug/m3**	**20**	**2.4**	**EPA-TO-15**	**ND**	**A01**	1
Hexachlorobutadiene	ND	ug/m3	53	6.3	EPA-TO-15	ND	A01	1
Hexane	**180**	**ug/m3**	**35**	**2.3**	**EPA-TO-15**	**ND**	**A01**	1
2-Hexanone	ND	ug/m3	20	4.5	EPA-TO-15	ND	A01	1
Isopropyl alcohol	ND	ug/m3	12	2.3	EPA-TO-15	ND	A01	1
Methylene chloride	**11**	**ug/m3**	**17**	**1.7**	**EPA-TO-15**	**ND**	**J,A01**	1
Methyl ethyl ketone	**26**	**ug/m3**	**15**	**3.8**	**EPA-TO-15**	**ND**	**A01**	1
Methyl isobutyl ketone	ND	ug/m3	20	6.1	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3	18	4.3	EPA-TO-15	ND	A01	1
Propylene	ND	ug/m3	8.6	1.7	EPA-TO-15	ND	A01	1
Styrene	ND	ug/m3	21	2.3	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	34	5.8	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	34	4.3	EPA-TO-15	ND	A01	1
Tetrahydrofuran	ND	ug/m3	15	5.0	EPA-TO-15	ND	A01	1
Toluene	**22**	**ug/m3**	**19**	**1.9**	**EPA-TO-15**	**ND**	**A01**	1
1,2,4-Trichlorobenzene	ND	ug/m3	74	4.3	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	27	3.5	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	27	3.1	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	27	2.7	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	ND	ug/m3	28	3.1	EPA-TO-15	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	38	3.8	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	ND	ug/m3	25	2.5	EPA-TO-15	ND	A01	1
1,3,5-Trimethylbenzene	ND	ug/m3	25	5.9	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	18	2.1	EPA-TO-15	ND	A01	1
Vinyl chloride	**9.1**	**ug/m3**	**13**	**1.4**	**EPA-TO-15**	**ND**	**J,A01**	1
p- & m-Xylenes	ND	ug/m3	22	4.8	EPA-TO-15	ND	A01	1
o-Xylene	ND	ug/m3	22	3.0	EPA-TO-15	ND	A01	1
Total Xylenes	ND	ug/m3	43	7.8	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	113	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Reported: 05/02/2011 14:24
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

BCL Sample ID: 1104920-05 | **Client Sample Name:** TP-7, 3/29/2011 12:00:00PM

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	04/07/11	04/09/11 16:05	LHS	HPCHEM	10	BUD0304

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Reported: 05/02/2011 14:24
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Fixed Gases by GC/TCD (EPA 3C)

BCL Sample ID: 1104920-05 | **Client Sample Name:** TP-7, 3/29/2011 12:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Carbon dioxide (CO2)	**1.1**	**% by Vol.**	**0.10**	**0.060**	**EPA-3C**	**ND**		1
Carbon monoxide (CO)	ND	% by Vol.	0.050	0.032	EPA-3C	ND		1
Methane (CH4)	**1.9**	**% by Vol.**	**0.00020**	**0.00020**	**EPA-3C**	**ND**		1
Nitrogen (N2)	**79**	**% by Vol.**	**5.0**	**3.9**	**EPA-3C**	**ND**		1
Oxygen (O2)	**18**	**% by Vol.**	**0.020**	**0.016**	**EPA-3C**	**ND**		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-3C	03/31/11	03/31/11 12:20	LHS	HPCHEM	1	BUC2157

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Reported: 05/02/2011 14:24
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

BCL Sample ID: 1104920-06 | **Client Sample Name:** LW-3, 3/29/2011 4:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acetone	ND	ug/m3	190	25	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	170	23	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	130	13	EPA-TO-15	ND	A01	1
Benzene	**1200**	**ug/m3**	**130**	**17**	**EPA-TO-15**	**ND**	**A01**	1
Benzyl chloride	ND	ug/m3	410	21	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	270	37	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	410	41	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	160	27	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	88	13	EPA-TO-15	ND	A01	1
Carbon disulfide	**180**	**ug/m3**	**120**	**17**	**EPA-TO-15**	**ND**	**A01**	1
Carbon tetrachloride	ND	ug/m3	250	29	EPA-TO-15	ND	A01	1
Chlorobenzene	**3900**	**ug/m3**	**180**	**18**	**EPA-TO-15**	**ND**	**A01**	1
Chloroethane	ND	ug/m3	110	15	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	200	20	EPA-TO-15	ND	A01	1
Chloromethane	ND	ug/m3	83	8.4	EPA-TO-15	ND	A01	1
Cyclohexane	**760**	**ug/m3**	**140**	**22**	**EPA-TO-15**	**ND**	**A01**	1
Dibromochloromethane	ND	ug/m3	340	34	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	310	42	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	240	27	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	240	44	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	240	32	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	ND	ug/m3	200	26	EPA-TO-15	ND	A01	1
1,1-Dichloroethane	ND	ug/m3	160	20	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	160	16	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	160	20	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	**69**	**ug/m3**	**160**	**16**	**EPA-TO-15**	**ND**	**J,A01**	1
trans-1,2-Dichloroethene	ND	ug/m3	160	18	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	180	25	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	180	23	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	180	23	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	**1700**	**ug/m3**	**280**	**29**	**EPA-TO-15**	**ND**	**A01**	1
1,4-Dioxane	ND	ug/m3	140	20	EPA-TO-15	ND	A01	1
Ethanol	ND	ug/m3	150	47	EPA-TO-15	ND	A01	1

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425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 05/02/2011 14:24
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

BCL Sample ID: 1104920-06 | **Client Sample Name:** LW-3, 3/29/2011 4:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Ethyl acetate	ND	ug/m3	140	28	EPA-TO-15	ND	A01	1
Ethylbenzene	**1100**	**ug/m3**	**170**	**17**	**EPA-TO-15**	**ND**	**A01**	1
1-Ethyl-4-methylbenzene	**1500**	**ug/m3**	**200**	**35**	**EPA-TO-15**	**ND**	**A01**	1
n-Heptane	**3900**	**ug/m3**	**160**	**19**	**EPA-TO-15**	**ND**	**A01**	1
Hexachlorobutadiene	ND	ug/m3	430	50	EPA-TO-15	ND	A01	1
Hexane	**2800**	**ug/m3**	**280**	**18**	**EPA-TO-15**	**ND**	**A01**	1
2-Hexanone	ND	ug/m3	160	36	EPA-TO-15	ND	A01	1
Isopropyl alcohol	ND	ug/m3	98	19	EPA-TO-15	ND	A01	1
Methylene chloride	ND	ug/m3	140	14	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	ND	ug/m3	120	31	EPA-TO-15	ND	A01	1
Methyl isobutyl ketone	ND	ug/m3	160	49	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3	140	35	EPA-TO-15	ND	A01	1
Propylene	**6800**	**ug/m3**	**69**	**13**	**EPA-TO-15**	**ND**	**A01**	1
Styrene	ND	ug/m3	170	18	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	270	46	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	270	34	EPA-TO-15	ND	A01	1
Tetrahydrofuran	ND	ug/m3	120	40	EPA-TO-15	ND	A01	1
Toluene	**240**	**ug/m3**	**150**	**15**	**EPA-TO-15**	**ND**	**A01**	1
1,2,4-Trichlorobenzene	ND	ug/m3	590	34	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	220	28	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	220	25	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	210	21	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	ND	ug/m3	220	25	EPA-TO-15	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	310	31	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	**5000**	**ug/m3**	**200**	**20**	**EPA-TO-15**	**ND**	**A01**	1
1,3,5-Trimethylbenzene	**1700**	**ug/m3**	**200**	**47**	**EPA-TO-15**	**ND**	**A01**	1
Vinyl acetate	ND	ug/m3	140	17	EPA-TO-15	ND	A01	1
Vinyl chloride	**300**	**ug/m3**	**100**	**11**	**EPA-TO-15**	**ND**	**A01**	1
p- & m-Xylenes	**1600**	**ug/m3**	**170**	**38**	**EPA-TO-15**	**ND**	**A01**	1
o-Xylene	**1200**	**ug/m3**	**170**	**24**	**EPA-TO-15**	**ND**	**A01**	1
Total Xylenes	**2800**	**ug/m3**	**350**	**63**	**EPA-TO-15**	**ND**	**A01**	1
4-Bromofluorobenzene (Surrogate)	110	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 05/02/2011 14:24
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

BCL Sample ID: 1104920-06 | **Client Sample Name:** LW-3, 3/29/2011 4:15:00PM

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	04/07/11	04/08/11 14:41	LHS	HPCHEM	80	BUD0304

Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 05/02/2011 14:24
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Fixed Gases by GC/TCD (EPA 3C)

BCL Sample ID: 1104920-06 | **Client Sample Name:** LW-3, 3/29/2011 4:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Carbon dioxide (CO2)	**41**	**% by Vol.**	**0.25**	**0.15**	**EPA-3C**	**ND**	**A01**	1
Carbon monoxide (CO)	ND	% by Vol.	0.12	0.080	EPA-3C	ND	A01	1
Methane (CH4)	**25**	**% by Vol.**	**0.020**	**0.020**	**EPA-3C**	**ND**	**A01**	2
Nitrogen (N2)	**33**	**% by Vol.**	**12**	**9.8**	**EPA-3C**	**ND**	**A01**	1
Oxygen (O2)	**1.1**	**% by Vol.**	**0.050**	**0.040**	**EPA-3C**	**ND**	**A01**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-3C	03/31/11	03/31/11 15:19	LHS	HPCHEM	2.500	BUC2157
2	EPA-3C	03/31/11	03/31/11 16:24	LHS	HPCHEM	100	BUC2157

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Reported: 05/02/2011 14:24
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

BCL Sample ID: 1104920-07 | **Client Sample Name:** LW-2, 3/29/2011 4:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acetone	ND	ug/m3	24	3.1	EPA-TO-15	ND	A01	1
Acrylonitrile	ND	ug/m3	22	2.8	EPA-TO-15	ND	A01	1
Allyl chloride	ND	ug/m3	16	1.6	EPA-TO-15	ND	A01	1
Benzene	**32**	**ug/m3**	**16**	**2.2**	**EPA-TO-15**	**ND**	**A01**	1
Benzyl chloride	ND	ug/m3	52	2.6	EPA-TO-15	ND	A01	1
Bromodichloromethane	ND	ug/m3	34	4.6	EPA-TO-15	ND	A01	1
Bromoform	ND	ug/m3	52	5.2	EPA-TO-15	ND	A01	1
Bromomethane	ND	ug/m3	19	3.4	EPA-TO-15	ND	A01	1
1,3-Butadiene	ND	ug/m3	11	1.7	EPA-TO-15	ND	A01	1
Carbon disulfide	**29**	**ug/m3**	**16**	**2.1**	**EPA-TO-15**	**ND**	**A01**	1
Carbon tetrachloride	ND	ug/m3	31	3.6	EPA-TO-15	ND	A01	1
Chlorobenzene	**96**	**ug/m3**	**23**	**2.3**	**EPA-TO-15**	**ND**	**A01**	1
Chloroethane	ND	ug/m3	13	1.9	EPA-TO-15	ND	A01	1
Chloroform	ND	ug/m3	24	2.5	EPA-TO-15	ND	A01	1
Chloromethane	ND	ug/m3	10	1.1	EPA-TO-15	ND	A01	1
Cyclohexane	**320**	**ug/m3**	**17**	**2.7**	**EPA-TO-15**	**ND**	**A01**	1
Dibromochloromethane	ND	ug/m3	43	4.3	EPA-TO-15	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	38	5.3	EPA-TO-15	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	30	3.4	EPA-TO-15	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	30	5.5	EPA-TO-15	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	30	4.0	EPA-TO-15	ND	A01	1
Dichlorodifluoromethane	ND	ug/m3	25	3.3	EPA-TO-15	ND	A01	1
1,1-Dichloroethane	ND	ug/m3	20	2.5	EPA-TO-15	ND	A01	1
1,2-Dichloroethane	ND	ug/m3	20	2.0	EPA-TO-15	ND	A01	1
1,1-Dichloroethene	ND	ug/m3	20	2.5	EPA-TO-15	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	20	2.0	EPA-TO-15	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	20	2.2	EPA-TO-15	ND	A01	1
1,2-Dichloropropane	ND	ug/m3	23	3.1	EPA-TO-15	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/m3	23	2.9	EPA-TO-15	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	23	2.8	EPA-TO-15	ND	A01	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ug/m3	35	3.6	EPA-TO-15	ND	A01	1
1,4-Dioxane	ND	ug/m3	18	2.5	EPA-TO-15	ND	A01	1
Ethanol	**420**	**ug/m3**	**19**	**5.8**	**EPA-TO-15**	**ND**	**A01**	1

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425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 05/02/2011 14:24
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

BCL Sample ID: 1104920-07 | **Client Sample Name:** LW-2, 3/29/2011 4:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Ethyl acetate	ND	ug/m3	18	3.5	EPA-TO-15	ND	A01	1
Ethylbenzene	**12**	**ug/m3**	**22**	**2.2**	**EPA-TO-15**	**ND**	**J,A01**	1
1-Ethyl-4-methylbenzene	**15**	**ug/m3**	**25**	**4.4**	**EPA-TO-15**	**ND**	**J,A01**	1
n-Heptane	**130**	**ug/m3**	**20**	**2.4**	**EPA-TO-15**	**ND**	**A01**	1
Hexachlorobutadiene	ND	ug/m3	53	6.3	EPA-TO-15	ND	A01	1
Hexane	**290**	**ug/m3**	**35**	**2.3**	**EPA-TO-15**	**ND**	**A01**	1
2-Hexanone	ND	ug/m3	20	4.5	EPA-TO-15	ND	A01	1
Isopropyl alcohol	**190**	**ug/m3**	**12**	**2.3**	**EPA-TO-15**	**ND**	**A01**	1
Methylene chloride	ND	ug/m3	17	1.7	EPA-TO-15	ND	A01	1
Methyl ethyl ketone	**18**	**ug/m3**	**15**	**3.8**	**EPA-TO-15**	**ND**	**A01**	1
Methyl isobutyl ketone	ND	ug/m3	20	6.1	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3	18	4.3	EPA-TO-15	ND	A01	1
Propylene	ND	ug/m3	8.6	1.7	EPA-TO-15	ND	A01	1
Styrene	ND	ug/m3	21	2.3	EPA-TO-15	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/m3	34	5.8	EPA-TO-15	ND	A01	1
Tetrachloroethene	ND	ug/m3	34	4.3	EPA-TO-15	ND	A01	1
Tetrahydrofuran	ND	ug/m3	15	5.0	EPA-TO-15	ND	A01	1
Toluene	**19**	**ug/m3**	**19**	**1.9**	**EPA-TO-15**	**ND**	**A01**	1
1,2,4-Trichlorobenzene	ND	ug/m3	74	4.3	EPA-TO-15	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	27	3.5	EPA-TO-15	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	27	3.1	EPA-TO-15	ND	A01	1
Trichloroethene	ND	ug/m3	27	2.7	EPA-TO-15	ND	A01	1
Trichlorofluoromethane	ND	ug/m3	28	3.1	EPA-TO-15	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/m3	38	3.8	EPA-TO-15	ND	A01	1
1,2,4-Trimethylbenzene	**13**	**ug/m3**	**25**	**2.5**	**EPA-TO-15**	**ND**	**J,A01**	1
1,3,5-Trimethylbenzene	ND	ug/m3	25	5.9	EPA-TO-15	ND	A01	1
Vinyl acetate	ND	ug/m3	18	2.1	EPA-TO-15	ND	A01	1
Vinyl chloride	ND	ug/m3	13	1.4	EPA-TO-15	ND	A01	1
p- & m-Xylenes	**11**	**ug/m3**	**22**	**4.8**	**EPA-TO-15**	**ND**	**J,A01**	1
o-Xylene	ND	ug/m3	22	3.0	EPA-TO-15	ND	A01	1
Total Xylenes	**11**	**ug/m3**	**43**	**7.8**	**EPA-TO-15**	**ND**	**J,A01**	1
4-Bromofluorobenzene (Surrogate)	115	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

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Golder Associates 425 Lakeside Drive Sunnyvale, CA 94085	**Reported:** 05/02/2011 14:24 Project: Nine Par Project Number: 103-97163-11 Project Manager: Tom Vercoutere

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

BCL Sample ID: 1104920-07 | **Client Sample Name:** LW-2, 3/29/2011 4:30:00PM

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	04/07/11	04/09/11 16:37	LHS	HPCHEM	10	BUD0304

Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 05/02/2011 14:24
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Fixed Gases by GC/TCD (EPA 3C)

BCL Sample ID: 1104920-07 | **Client Sample Name:** LW-2, 3/29/2011 4:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Carbon dioxide (CO2)	**9.0**	**% by Vol.**	**0.10**	**0.060**	**EPA-3C**	**ND**		1
Carbon monoxide (CO)	ND	% by Vol.	0.050	0.032	EPA-3C	ND		1
Methane (CH4)	**7.7**	**% by Vol.**	**0.020**	**0.020**	**EPA-3C**	**ND**	**A01**	2
Nitrogen (N2)	**68**	**% by Vol.**	**5.0**	**3.9**	**EPA-3C**	**ND**		1
Oxygen (O2)	**16**	**% by Vol.**	**0.020**	**0.016**	**EPA-3C**	**ND**		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-3C	03/31/11	03/31/11 13:03	LHS	HPCHEM	1	BUC2157
2	EPA-3C	03/31/11	03/31/11 16:01	LHS	HPCHEM	100	BUC2157

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 05/02/2011 14:24
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUD0304						
Acetone	BUD0304-BLK1	ND	ug/m3	2.4	0.31	
Acrylonitrile	BUD0304-BLK1	ND	ug/m3	2.2	0.28	
Allyl chloride	BUD0304-BLK1	ND	ug/m3	1.6	0.16	
Benzene	BUD0304-BLK1	ND	ug/m3	1.6	0.22	
Benzyl chloride	BUD0304-BLK1	ND	ug/m3	5.2	0.26	
Bromodichloromethane	BUD0304-BLK1	ND	ug/m3	3.4	0.46	
Bromoform	BUD0304-BLK1	ND	ug/m3	5.2	0.52	
Bromomethane	BUD0304-BLK1	ND	ug/m3	1.9	0.34	
1,3-Butadiene	BUD0304-BLK1	ND	ug/m3	1.1	0.17	
Carbon disulfide	BUD0304-BLK1	ND	ug/m3	1.6	0.21	
Carbon tetrachloride	BUD0304-BLK1	ND	ug/m3	3.1	0.36	
Chlorobenzene	BUD0304-BLK1	ND	ug/m3	2.3	0.23	
Chloroethane	BUD0304-BLK1	ND	ug/m3	1.3	0.19	
Chloroform	BUD0304-BLK1	ND	ug/m3	2.4	0.25	
Chloromethane	BUD0304-BLK1	ND	ug/m3	1.0	0.11	
Cyclohexane	BUD0304-BLK1	ND	ug/m3	1.7	0.27	
Dibromochloromethane	BUD0304-BLK1	ND	ug/m3	4.3	0.43	
1,2-Dibromoethane	BUD0304-BLK1	ND	ug/m3	3.8	0.53	
1,2-Dichlorobenzene	BUD0304-BLK1	ND	ug/m3	3.0	0.34	
1,3-Dichlorobenzene	BUD0304-BLK1	ND	ug/m3	3.0	0.55	
1,4-Dichlorobenzene	BUD0304-BLK1	ND	ug/m3	3.0	0.40	
Dichlorodifluoromethane	BUD0304-BLK1	ND	ug/m3	2.5	0.33	
1,1-Dichloroethane	BUD0304-BLK1	ND	ug/m3	2.0	0.25	
1,2-Dichloroethane	BUD0304-BLK1	ND	ug/m3	2.0	0.20	
1,1-Dichloroethene	BUD0304-BLK1	ND	ug/m3	2.0	0.25	
cis-1,2-Dichloroethene	BUD0304-BLK1	ND	ug/m3	2.0	0.20	
trans-1,2-Dichloroethene	BUD0304-BLK1	ND	ug/m3	2.0	0.22	
1,2-Dichloropropane	BUD0304-BLK1	ND	ug/m3	2.3	0.31	
cis-1,3-Dichloropropene	BUD0304-BLK1	ND	ug/m3	2.3	0.29	
trans-1,3-Dichloropropene	BUD0304-BLK1	ND	ug/m3	2.3	0.28	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	BUD0304-BLK1	ND	ug/m3	3.5	0.36	
1,4-Dioxane	BUD0304-BLK1	ND	ug/m3	1.8	0.25	
Ethanol	BUD0304-BLK1	ND	ug/m3	1.9	0.58	
Ethyl acetate	BUD0304-BLK1	ND	ug/m3	1.8	0.35	

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Reported: 05/02/2011 14:24
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUD0304						
Ethylbenzene	BUD0304-BLK1	ND	ug/m3	2.2	0.22	
1-Ethyl-4-methylbenzene	BUD0304-BLK1	ND	ug/m3	2.5	0.44	
n-Heptane	BUD0304-BLK1	ND	ug/m3	2.0	0.24	
Hexachlorobutadiene	BUD0304-BLK1	ND	ug/m3	5.3	0.63	
Hexane	BUD0304-BLK1	ND	ug/m3	3.5	0.23	
2-Hexanone	BUD0304-BLK1	ND	ug/m3	2.0	0.45	
Isopropyl alcohol	BUD0304-BLK1	ND	ug/m3	1.2	0.23	
Methylene chloride	BUD0304-BLK1	ND	ug/m3	1.7	0.17	
Methyl ethyl ketone	BUD0304-BLK1	ND	ug/m3	1.5	0.38	
Methyl isobutyl ketone	BUD0304-BLK1	ND	ug/m3	2.0	0.61	
Methyl t-butyl ether	BUD0304-BLK1	ND	ug/m3	1.8	0.43	
Propylene	BUD0304-BLK1	ND	ug/m3	0.86	0.17	
Styrene	BUD0304-BLK1	ND	ug/m3	2.1	0.23	
1,1,2,2-Tetrachloroethane	BUD0304-BLK1	ND	ug/m3	3.4	0.58	
Tetrachloroethene	BUD0304-BLK1	ND	ug/m3	3.4	0.43	
Tetrahydrofuran	BUD0304-BLK1	ND	ug/m3	1.5	0.50	
Toluene	BUD0304-BLK1	ND	ug/m3	1.9	0.19	
1,2,4-Trichlorobenzene	BUD0304-BLK1	ND	ug/m3	7.4	0.43	
1,1,1-Trichloroethane	BUD0304-BLK1	ND	ug/m3	2.7	0.35	
1,1,2-Trichloroethane	BUD0304-BLK1	ND	ug/m3	2.7	0.31	
Trichloroethene	BUD0304-BLK1	ND	ug/m3	2.7	0.27	
Trichlorofluoromethane	BUD0304-BLK1	ND	ug/m3	2.8	0.31	
1,1,2-Trichloro-1,2,2-trifluoroethane	BUD0304-BLK1	ND	ug/m3	3.8	0.38	
1,2,4-Trimethylbenzene	BUD0304-BLK1	ND	ug/m3	2.5	0.25	
1,3,5-Trimethylbenzene	BUD0304-BLK1	ND	ug/m3	2.5	0.59	
Vinyl acetate	BUD0304-BLK1	ND	ug/m3	1.8	0.21	
Vinyl chloride	BUD0304-BLK1	ND	ug/m3	1.3	0.14	
p- & m-Xylenes	BUD0304-BLK1	ND	ug/m3	2.2	0.48	
o-Xylene	BUD0304-BLK1	ND	ug/m3	2.2	0.30	
Total Xylenes	BUD0304-BLK1	ND	ug/m3	4.3	0.78	
4-Bromofluorobenzene (Surrogate)	BUD0304-BLK1	116	%	70 - 130 (LCL - UCL)		

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Volatile Organic Compounds by GC/MS (EPA Method TO-15)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUD0304										
Acetone	BUD0304-BS1	LCS	21.873	23.754	ug/m3	92.1		70 - 130		
	BUD0304-BSD1	LCSD	23.607	23.754	ug/m3	99.4	7.6	70 - 130	30	
Acrylonitrile	BUD0304-BS1	LCS	22.910	21.703	ug/m3	106		70 - 130		
	BUD0304-BSD1	LCSD	23.519	21.703	ug/m3	108	2.6	70 - 130	30	
Allyl chloride	BUD0304-BS1	LCS	27.421	31.299	ug/m3	87.6		70 - 130		
	BUD0304-BSD1	LCSD	27.984	31.299	ug/m3	89.4	2.0	70 - 130	30	
Benzene	BUD0304-BS1	LCS	28.334	31.948	ug/m3	88.7		70 - 130		
	BUD0304-BSD1	LCSD	28.858	31.948	ug/m3	90.3	1.8	70 - 130	30	
Benzyl chloride	BUD0304-BS1	LCS	50.157	51.772	ug/m3	96.9		70 - 130		
	BUD0304-BSD1	LCSD	51.399	51.772	ug/m3	99.3	2.4	70 - 130	30	
Bromodichloromethane	BUD0304-BS1	LCS	59.709	67.006	ug/m3	89.1		70 - 130		
	BUD0304-BSD1	LCSD	62.034	67.006	ug/m3	92.6	3.8	70 - 130	30	
Bromoform	BUD0304-BS1	LCS	104.92	103.37	ug/m3	102		70 - 130		
	BUD0304-BSD1	LCSD	107.41	103.37	ug/m3	104	2.3	70 - 130	30	
Bromomethane	BUD0304-BS1	LCS	33.662	38.830	ug/m3	86.7		70 - 130		
	BUD0304-BSD1	LCSD	34.811	38.830	ug/m3	89.7	3.4	70 - 130	30	
1,3-Butadiene	BUD0304-BS1	LCS	19.431	22.123	ug/m3	87.8		70 - 130		
	BUD0304-BSD1	LCSD	19.902	22.123	ug/m3	90.0	2.4	70 - 130	30	
Carbon disulfide	BUD0304-BS1	LCS	27.140	31.142	ug/m3	87.2		70 - 130		
	BUD0304-BSD1	LCSD	27.744	31.142	ug/m3	89.1	2.2	70 - 130	30	
Carbon tetrachloride	BUD0304-BS1	LCS	56.842	62.913	ug/m3	90.4		70 - 130		
	BUD0304-BSD1	LCSD	58.409	62.913	ug/m3	92.8	2.7	70 - 130	30	
Chlorobenzene	BUD0304-BS1	LCS	43.913	46.036	ug/m3	95.4		70 - 130		
	BUD0304-BSD1	LCSD	45.179	46.036	ug/m3	98.1	2.8	70 - 130	30	
Chloroethane	BUD0304-BS1	LCS	23.014	26.386	ug/m3	87.2		70 - 130		
	BUD0304-BSD1	LCSD	23.697	26.386	ug/m3	89.8	2.9	70 - 130	30	
Chloroform	BUD0304-BS1	LCS	42.937	48.825	ug/m3	87.9		70 - 130		
	BUD0304-BSD1	LCSD	43.855	48.825	ug/m3	89.8	2.1	70 - 130	30	
Chloromethane	BUD0304-BS1	LCS	18.209	20.649	ug/m3	88.2		70 - 130		
	BUD0304-BSD1	LCSD	19.010	20.649	ug/m3	92.1	4.3	70 - 130	30	
Cyclohexane	BUD0304-BS1	LCS	27.231	34.421	ug/m3	79.1		70 - 130		
	BUD0304-BSD1	LCSD	27.788	34.421	ug/m3	80.7	2.0	70 - 130	30	
Dibromochloromethane	BUD0304-BS1	LCS	83.721	85.186	ug/m3	98.3		70 - 130		
	BUD0304-BSD1	LCSD	87.290	85.186	ug/m3	102	4.2	70 - 130	30	
1,2-Dibromoethane	BUD0304-BS1	LCS	70.703	76.835	ug/m3	92.0		70 - 130		
	BUD0304-BSD1	LCSD	73.162	76.835	ug/m3	95.2	3.4	70 - 130	30	

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Project: Nine Par
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Project Manager: Tom Vercoutere

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUD0304										
1,2-Dichlorobenzene	BUD0304-BS1	LCS	55.302	60.124	ug/m3	92.0		70 - 130		
	BUD0304-BSD1	LCSD	56.342	60.124	ug/m3	93.7	1.9	70 - 130	30	
1,3-Dichlorobenzene	BUD0304-BS1	LCS	57.556	60.124	ug/m3	95.7		70 - 130		
	BUD0304-BSD1	LCSD	57.833	60.124	ug/m3	96.2	0.5	70 - 130	30	
1,4-Dichlorobenzene	BUD0304-BS1	LCS	56.702	60.124	ug/m3	94.3		70 - 130		
	BUD0304-BSD1	LCSD	56.997	60.124	ug/m3	94.8	0.5	70 - 130	30	
Dichlorodifluoromethane	BUD0304-BS1	LCS	45.161	49.454	ug/m3	91.3		70 - 130		
	BUD0304-BSD1	LCSD	48.128	49.454	ug/m3	97.3	6.4	70 - 130	30	
1,1-Dichloroethane	BUD0304-BS1	LCS	35.795	40.474	ug/m3	88.4		70 - 130		
	BUD0304-BSD1	LCSD	36.334	40.474	ug/m3	89.8	1.5	70 - 130	30	
1,2-Dichloroethane	BUD0304-BS1	LCS	36.475	40.474	ug/m3	90.1		70 - 130		
	BUD0304-BSD1	LCSD	37.094	40.474	ug/m3	91.6	1.7	70 - 130	30	
1,1-Dichloroethene	BUD0304-BS1	LCS	34.666	39.649	ug/m3	87.4		70 - 130		
	BUD0304-BSD1	LCSD	35.197	39.649	ug/m3	88.8	1.5	70 - 130	30	
cis-1,2-Dichloroethene	BUD0304-BS1	LCS	35.316	39.649	ug/m3	89.1		70 - 130		
	BUD0304-BSD1	LCSD	35.974	39.649	ug/m3	90.7	1.8	70 - 130	30	
trans-1,2-Dichloroethene	BUD0304-BS1	LCS	34.943	39.649	ug/m3	88.1		70 - 130		
	BUD0304-BSD1	LCSD	35.478	39.649	ug/m3	89.5	1.5	70 - 130	30	
1,2-Dichloropropane	BUD0304-BS1	LCS	39.404	46.211	ug/m3	85.3		70 - 130		
	BUD0304-BSD1	LCSD	40.647	46.211	ug/m3	88.0	3.1	70 - 130	30	
cis-1,3-Dichloropropene	BUD0304-BS1	LCS	41.828	45.387	ug/m3	92.2		70 - 130		
	BUD0304-BSD1	LCSD	43.181	45.387	ug/m3	95.1	3.2	70 - 130	30	
trans-1,3-Dichloropropene	BUD0304-BS1	LCS	40.703	45.387	ug/m3	89.7		70 - 130		
	BUD0304-BSD1	LCSD	41.960	45.387	ug/m3	92.4	3.0	70 - 130	30	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	BUD0304-BS1	LCS	62.601	69.906	ug/m3	89.5		70 - 130		
	BUD0304-BSD1	LCSD	63.880	69.906	ug/m3	91.4	2.0	70 - 130	30	
1,4-Dioxane	BUD0304-BS1	LCS	32.615	36.035	ug/m3	90.5		70 - 130		
	BUD0304-BSD1	LCSD	32.464	36.035	ug/m3	90.1	0.5	70 - 130	30	
Ethanol	BUD0304-BS1	LCS	41.610	37.684	ug/m3	110		70 - 130		
	BUD0304-BSD1	LCSD	39.877	37.684	ug/m3	106	4.3	70 - 130	30	
Ethyl acetate	BUD0304-BS1	LCS	36.918	36.035	ug/m3	102		70 - 130		
	BUD0304-BSD1	LCSD	38.017	36.035	ug/m3	106	2.9	70 - 130	30	
Ethylbenzene	BUD0304-BS1	LCS	36.430	43.421	ug/m3	83.9		70 - 130		
	BUD0304-BSD1	LCSD	36.813	43.421	ug/m3	84.8	1.0	70 - 130	30	
1-Ethyl-4-methylbenzene	BUD0304-BS1	LCS	44.449	49.158	ug/m3	90.4		70 - 130		
	BUD0304-BSD1	LCSD	44.803	49.158	ug/m3	91.1	0.8	70 - 130	30	

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Reported: 05/02/2011 14:24
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUD0304										
n-Heptane	BUD0304-BS1	LCS	35.319	40.982	ug/m3	86.2		70 - 130		
	BUD0304-BSD1	LCSD	36.237	40.982	ug/m3	88.4	2.6	70 - 130	30	
Hexachlorobutadiene	BUD0304-BS1	LCS	98.887	106.65	ug/m3	92.7		70 - 130		
	BUD0304-BSD1	LCSD	79.135	106.65	ug/m3	74.2	22.2	70 - 130	30	
Hexane	BUD0304-BS1	LCS	30.368	35.246	ug/m3	86.2		70 - 130		
	BUD0304-BSD1	LCSD	30.861	35.246	ug/m3	87.6	1.6	70 - 130	30	
2-Hexanone	BUD0304-BS1	LCS	36.950	40.965	ug/m3	90.2		70 - 130		
	BUD0304-BSD1	LCSD	39.068	40.965	ug/m3	95.4	5.6	70 - 130	30	
Isopropyl alcohol	BUD0304-BS1	LCS	22.113	24.579	ug/m3	90.0		70 - 130		
	BUD0304-BSD1	LCSD	21.705	24.579	ug/m3	88.3	1.9	70 - 130	30	
Methylene chloride	BUD0304-BS1	LCS	28.790	34.737	ug/m3	82.9		70 - 130		
	BUD0304-BSD1	LCSD	29.513	34.737	ug/m3	85.0	2.5	70 - 130	30	
Methyl ethyl ketone	BUD0304-BS1	LCS	30.420	29.491	ug/m3	103		70 - 130		
	BUD0304-BSD1	LCSD	31.535	29.491	ug/m3	107	3.6	70 - 130	30	
Methyl isobutyl ketone	BUD0304-BS1	LCS	37.155	40.965	ug/m3	90.7		70 - 130		
	BUD0304-BSD1	LCSD	38.785	40.965	ug/m3	94.7	4.3	70 - 130	30	
Methyl t-butyl ether	BUD0304-BS1	LCS	35.447	36.052	ug/m3	98.3		70 - 130		
	BUD0304-BSD1	LCSD	36.719	36.052	ug/m3	102	3.5	70 - 130	30	
Propylene	BUD0304-BS1	LCS	17.821	17.211	ug/m3	104		70 - 130		
	BUD0304-BSD1	LCSD	18.307	17.211	ug/m3	106	2.7	70 - 130	30	
Styrene	BUD0304-BS1	LCS	37.851	42.597	ug/m3	88.9		70 - 130		
	BUD0304-BSD1	LCSD	38.354	42.597	ug/m3	90.0	1.3	70 - 130	30	
1,1,2,2-Tetrachloroethane	BUD0304-BS1	LCS	62.080	68.650	ug/m3	90.4		70 - 130		
	BUD0304-BSD1	LCSD	62.677	68.650	ug/m3	91.3	1.0	70 - 130	30	
Tetrachloroethene	BUD0304-BS1	LCS	61.470	67.825	ug/m3	90.6		70 - 130		
	BUD0304-BSD1	LCSD	63.410	67.825	ug/m3	93.5	3.1	70 - 130	30	
Tetrahydrofuran	BUD0304-BS1	LCS	31.013	29.491	ug/m3	105		70 - 130		
	BUD0304-BSD1	LCSD	32.148	29.491	ug/m3	109	3.6	70 - 130	30	
Toluene	BUD0304-BS1	LCS	32.167	37.684	ug/m3	85.4		70 - 130		
	BUD0304-BSD1	LCSD	33.215	37.684	ug/m3	88.1	3.2	70 - 130	30	
1,2,4-Trichlorobenzene	BUD0304-BS1	LCS	68.000	74.211	ug/m3	91.6		70 - 130		
	BUD0304-BSD1	LCSD	72.586	74.211	ug/m3	97.8	6.5	70 - 130	30	
1,1,1-Trichloroethane	BUD0304-BS1	LCS	48.495	54.562	ug/m3	88.9		70 - 130		
	BUD0304-BSD1	LCSD	49.002	54.562	ug/m3	89.8	1.0	70 - 130	30	
1,1,2-Trichloroethane	BUD0304-BS1	LCS	49.897	54.562	ug/m3	91.4		70 - 130		
	BUD0304-BSD1	LCSD	51.436	54.562	ug/m3	94.3	3.0	70 - 130	30	

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Project Number: 103-97163-11
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Volatile Organic Compounds by GC/MS (EPA Method TO-15)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUD0304										
Trichloroethene	BUD0304-BS1	LCS	46.058	53.737	ug/m3	85.7		70 - 130		
	BUD0304-BSD1	LCSD	47.353	53.737	ug/m3	88.1	2.8	70 - 130	30	
Trichlorofluoromethane	BUD0304-BS1	LCS	53.661	56.183	ug/m3	95.5		70 - 130		
	BUD0304-BSD1	LCSD	55.262	56.183	ug/m3	98.4	2.9	70 - 130	30	
1,1,2-Trichloro-1,2,2-trifluoroethane	BUD0304-BS1	LCS	67.394	76.636	ug/m3	87.9		70 - 130		
	BUD0304-BSD1	LCSD	69.019	76.636	ug/m3	90.1	2.4	70 - 130	30	
1,2,4-Trimethylbenzene	BUD0304-BS1	LCS	43.938	49.158	ug/m3	89.4		70 - 130		
	BUD0304-BSD1	LCSD	44.380	49.158	ug/m3	90.3	1.0	70 - 130	30	
1,3,5-Trimethylbenzene	BUD0304-BS1	LCS	47.093	49.158	ug/m3	95.8		70 - 130		
	BUD0304-BSD1	LCSD	47.388	49.158	ug/m3	96.4	0.6	70 - 130	30	
Vinyl acetate	BUD0304-BS1	LCS	29.682	35.210	ug/m3	84.3		70 - 130		
	BUD0304-BSD1	LCSD	30.636	35.210	ug/m3	87.0	3.2	70 - 130	30	
Vinyl chloride	BUD0304-BS1	LCS	22.545	25.562	ug/m3	88.2		70 - 130		
	BUD0304-BSD1	LCSD	23.182	25.562	ug/m3	90.7	2.8	70 - 130	30	
p- & m-Xylenes	BUD0304-BS1	LCS	84.341	86.843	ug/m3	97.1		70 - 130		
	BUD0304-BSD1	LCSD	85.132	86.843	ug/m3	98.0	0.9	70 - 130	30	
o-Xylene	BUD0304-BS1	LCS	42.826	43.421	ug/m3	98.6		70 - 130		
	BUD0304-BSD1	LCSD	43.413	43.421	ug/m3	100	1.4	70 - 130	30	
Total Xylenes	BUD0304-BS1	LCS	127.17	130.26	ug/m3	97.6		70 - 130		
	BUD0304-BSD1	LCSD	128.54	130.26	ug/m3	98.7	1.1	70 - 130	30	
4-Bromofluorobenzene (Surrogate)	BUD0304-BS1	LCS	69.384	71.574	ug/m3	96.9		70 - 130		
	BUD0304-BSD1	LCSD	68.532	71.574	ug/m3	95.7	1.2	70 - 130		

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 05/02/2011 14:24
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Fixed Gases by GC/TCD (EPA 3C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC2157						
Carbon dioxide (CO2)	BUC2157-BLK1	ND	% by Vol.	0.10	0.060	
Carbon monoxide (CO)	BUC2157-BLK1	ND	% by Vol.	0.050	0.032	
Methane (CH4)	BUC2157-BLK1	ND	% by Vol.	0.00020	0.00020	
Nitrogen (N2)	BUC2157-BLK1	ND	% by Vol.	5.0	3.9	
Oxygen (O2)	BUC2157-BLK1	ND	% by Vol.	0.020	0.016	

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 05/02/2011 14:24
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Fixed Gases by GC/TCD (EPA 3C)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUC2157										
Carbon dioxide (CO2)	BUC2157-BS1	LCS	6.2510	6.0000	% by Vol.	104		70 - 130		
	BUC2157-BSD1	LCSD	6.1970	6.0000	% by Vol.	103	0.9	70 - 130	30	
Carbon monoxide (CO)	BUC2157-BS1	LCS	2.7680	2.8000	% by Vol.	98.9		70 - 130		
	BUC2157-BSD1	LCSD	2.7030	2.8000	% by Vol.	96.5	2.4	70 - 130	30	
Methane (CH4)	BUC2157-BS1	LCS	1.9150	1.8000	% by Vol.	106		70 - 130		
	BUC2157-BSD1	LCSD	1.8960	1.8000	% by Vol.	105	1.0	70 - 130	30	
Nitrogen (N2)	BUC2157-BS1	LCS	27.167	27.800	% by Vol.	97.7		70 - 130		
	BUC2157-BSD1	LCSD	27.178	27.800	% by Vol.	97.8	0.0	70 - 130	30	
Oxygen (O2)	BUC2157-BS1	LCS	1.5470	1.6000	% by Vol.	96.7		70 - 130		
	BUC2157-BSD1	LCSD	1.5420	1.6000	% by Vol.	96.4	0.3	70 - 130	30	

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Golder Associates 425 Lakeside Drive Sunnyvale, CA 94085	**Reported:** 05/02/2011 14:24 Project: Nine Par Project Number: 103-97163-11 Project Manager: Tom Vercoutere

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A01	PQL's and MDL's are raised due to sample dilution.

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Date of Report: 04/29/2011

Tom Vercoutere

Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

RE:	Nine Par
BC Work Order:	1104869
Invoice ID:	B099263

Enclosed are the results of analyses for samples received by the laboratory on 3/30/2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Linda Phoudamneun

Contact Person: Linda Phoudamneun
Client Service Rep

Authorized Signature

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Executive Summary - Detections

Constituent	Result	PQL	MDL	Units	Method	Lab Quals
1104869-01 EB-7, 3/29/2011 3:40:00PM						
1,1-Dichloroethene	0.46	0.50	0.18	ug/L	EPA-8260	J
cis-1,2-Dichloroethene	41	0.50	0.085	ug/L	EPA-8260	
trans-1,2-Dichloroethene	0.38	0.50	0.15	ug/L	EPA-8260	J
Tetrachloroethene	1.4	0.50	0.13	ug/L	EPA-8260	
Trichloroethene	4.2	0.50	0.085	ug/L	EPA-8260	
Vinyl chloride	0.34	0.50	0.12	ug/L	EPA-8260	J
Total Purgeable Petroleum Hydrocarbons	53	50	7.2	ug/L	Luft-GC/MS	
1,4-Dioxane	12	1.2	0.30	ug/L	EPA-8270C	
Total Calcium	330	1.0	0.23	mg/L	EPA-6010B	A01
Total Magnesium	1000	0.50	0.16	mg/L	EPA-6010B	A01
Total Sodium	7600	5.0	0.77	mg/L	EPA-6010B	A01
Total Potassium	380	10	1.4	mg/L	EPA-6010B	A01
Bicarbonate Alkalinity as CaCO3	1200	8.2	8.2	mg/L	EPA-310.1	
Chloride	13000	25	2.5	mg/L	EPA-300.0	A01
Fluoride	2.5	2.5	0.60	mg/L	EPA-300.0	A01
Nitrate/Nitrite as N	0.060	0.10	0.010	mg/L	EPA-353.2	J
Sulfate	1900	50	5.0	mg/L	EPA-300.0	A01
Total Dissolved Solids @ 180 C	26000	1000	1000	mg/L	EPA-160.1	
Total Cyanide	0.0030	0.0050	0.0016	mg/L	EPA-335.4	J
Non-Volatile Organic Carbon	7.8	1.5	0.31	mg/L	EPA-415.1	A01
Total Arsenic	240	500	98	ug/L	EPA-6010B	J,A10
Total Barium	6400	100	10	ug/L	EPA-6010B	A10
Total Beryllium	25	100	10	ug/L	EPA-6010B	J,A10
Total Chromium	2400	100	10	ug/L	EPA-6010B	A10
Total Cobalt	430	500	50	ug/L	EPA-6010B	J,A10
Total Copper	1700	100	23	ug/L	EPA-6010B	A10
Total Lead	220	500	50	ug/L	EPA-6010B	J,A10
Total Mercury	92	16	2.7	ug/L	EPA-7470A	A10
Total Molybdenum	110	500	50	ug/L	EPA-6010B	J,A10
Total Nickel	3100	100	12	ug/L	EPA-6010B	A10
Total Silver	200	100	10	ug/L	EPA-6010B	A10
Total Vanadium	1500	100	16	ug/L	EPA-6010B	A10
Total Zinc	2800	500	29	ug/L	EPA-6010B	A10

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Golder Associates

Golder Associates
CHAIN OF CUSTODY

11-04869

Page 1 of 1
Quotation No.

PROJECT NO.: 103 97163 11
SITE NAME: Nine Par
SAMPLER(S): Jeff Linder (printed) (signature)
CONTRACT LABORATORY: BC LABS
TURN-AROUND TIME: Standard

EDD required? [X] Yes [ ] No
EDF required? [ ] Yes [X] No

ANALYSES

Sample I.D.	Lab I.D.	Collection Date	Collection Time	Matrix	Depth	Container Info	VOC 8260	TPH-CC	1-4 dioxane	General Chemistry	Chlorinated 8151 herbicide	Cyanide	Sulfides	Metals	TOC	Cont. Qty.	Remarks
Type/Vol.							VOA 40ml	1L Amber	1L Amber	1L poly	1L Amber	500ml poly	500ml poly	500ml poly	500ml Amber		
Filter							N	N	N	N	N	N	N	N	N		
Preserv.							HCl	N	N	N	N	NaOH	Zinc Acetate	HNO_3	H_2SO_4		
EB-7	1540	3/29	1540	W	—		3	1	1	1	1	1	1	1	1	11	Ca, Mg, Na, K - for metals
TB-1	-2	3/29					1									1	General chem: Bicarb and carb alkalinity chloride, fluoride Nitrate as N, Nitrate + Nitrite as N, Sulfate, TDS Nitrite as N

CHK BY
DISTRIBUTION
SUB-OUT

SHORT HOLDING TIME
Cr^{+6} NO_2 NO_3 OP SS
DO Cl_2 BOD MBAS COT

Relinquished by: (signature)	Received by: (signature)	Date/Time:	
	P. BINS BCL	3/29/11	1645
Relinquished by: (signature) 3/29/11 1755 BCL VIA GSO	Received by: (signature) Sandra Landle	3/30/11	0800
Relinquished by: (signature)	Received by: (signature)	Date/Time:	

SEND RESULTS TO:
Attn: Tom Vercoutere
Golder Associates Inc.
425 Lakeside Drive
Sunnyvale, CA 94085
Phone (408) 220-9223
Fax (408) 220-9224

white: lab copy yellow: project file

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4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com

Chain of Custody and Cooler Receipt Form for 1104869 Page 2 of 2

BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 06/24/08 Page 1 Of 1

Submission #: 11-048669

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☐ Other ☒ (Specify) GSO

SHIPPING CONTAINER
Ice Chest ☒ None ☐
Box ☐ Other ☐ (Specify)

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: .95 Container: Pt PE Thermometer ID: #163
Temperature: A 5.3 °C / C 5.3 °C

Date/Time 3-30-11 0800
Analyst Init SDR

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL	B									
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS	C									
PT CYANIDE	D									
PT NITROGEN FORMS										
PT TOTAL SULFIDE	E									
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON	F									
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A 3	( )	( )	( )	( )	( )	( )	( )	( )	( )
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150	G									
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M	H									
QT AMBER 8270	I, J									
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:
Sample Numbering Completed By: BLI Date/Time: 3/30/11 @ 0829
A = Actual / C = Corrected
(H:\DOCS\WP60\LAB_DOCS\FORMS\SAMREC2.WPD)

Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 04/29/2011 9:20
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1104869-01	**COC Number:**	---	**Receive Date:**	03/30/2011 08:00
	Project Number:	---	**Sampling Date:**	03/29/2011 15:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	EB-7	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	
1104869-02	**COC Number:**	---	**Receive Date:**	03/30/2011 08:00
	Project Number:	---	**Sampling Date:**	03/29/2011 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	TB-1	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Trip Blank

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 04/29/2011 9:20
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Chlorinated Herbicides (EPA Method 8151)

BCL Sample ID: 1104869-01 | **Client Sample Name:** EB-7, 3/29/2011 3:40:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2,4-D	ND	ug/L	0.40	0.065	EPA-8151	ND		1
2,4-DB	ND	ug/L	3.0	0.32	EPA-8151	ND	V11	1
Dalapon	ND	ug/L	10	2.4	EPA-8151	ND		1
Dicamba	ND	ug/L	0.080	0.037	EPA-8151	ND		1
Dichloroprop	ND	ug/L	0.50	0.012	EPA-8151	ND	V11	1
Dinoseb	ND	ug/L	0.20	0.040	EPA-8151	ND		1
2,4,5-T	ND	ug/L	0.090	0.012	EPA-8151	ND	V11	1
2,4,5-TP (Silvex)	ND	ug/L	0.070	0.016	EPA-8151	ND		1
2,4-Dichlorophenylacetic acid (Surrogate)	82.4	%	50 - 150 (LCL - UCL)		EPA-8151			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8151	04/04/11	04/11/11 23:16	CC1	GC-8	1.053	BUD0669

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 04/29/2011 9:20
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1104869-01 | **Client Sample Name:** EB-7, 3/29/2011 3:40:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-8260	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-8260	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-8260	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-8260	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-8260	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-8260	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-8260	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-8260	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-8260	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-8260	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-8260	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-8260	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-8260	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-8260	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-8260	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-8260	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-8260	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-8260	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-8260	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-8260	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-8260	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-8260	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-8260	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-8260	ND		1
1,1-Dichloroethene	**0.46**	**ug/L**	**0.50**	**0.18**	**EPA-8260**	**ND**	**J**	1
cis-1,2-Dichloroethene	**41**	**ug/L**	**0.50**	**0.085**	**EPA-8260**	**ND**		1
trans-1,2-Dichloroethene	**0.38**	**ug/L**	**0.50**	**0.15**	**EPA-8260**	**ND**	**J**	1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-8260	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-8260	ND		1

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 04/29/2011 9:20
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1104869-01 | **Client Sample Name:** EB-7, 3/29/2011 3:40:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-8260	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-8260	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-8260	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-8260	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-8260	ND		1
Methylene chloride	ND	ug/L	1.0	0.48	EPA-8260	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-8260	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-8260	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-8260	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-8260	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-8260	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-8260	ND		1
Tetrachloroethene	**1.4**	**ug/L**	**0.50**	**0.13**	**EPA-8260**	**ND**		1
Toluene	ND	ug/L	0.50	0.093	EPA-8260	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-8260	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-8260	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-8260	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-8260	ND		1
Trichloroethene	**4.2**	**ug/L**	**0.50**	**0.085**	**EPA-8260**	**ND**		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-8260	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-8260	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-8260	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-8260	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-8260	ND		1
Vinyl chloride	**0.34**	**ug/L**	**0.50**	**0.12**	**EPA-8260**	**ND**	**J**	1
Total Xylenes	ND	ug/L	1.0	0.36	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-8260	ND		1
1,4-Dioxane	ND	ug/L	100	42	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	**53**	**ug/L**	**50**	**7.2**	**Luft-GC/MS**	**ND**		1

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425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 04/29/2011 9:20
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1104869-01 | **Client Sample Name:** EB-7, 3/29/2011 3:40:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,2-Dichloroethane-d4 (Surrogate)	120	%	76 - 114 (LCL - UCL)		EPA-8260		S09	1
Toluene-d8 (Surrogate)	106	%	88 - 110 (LCL - UCL)		EPA-8260			1
4-Bromofluorobenzene (Surrogate)	106	%	86 - 115 (LCL - UCL)		EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	03/31/11	03/31/11 18:35	JCC	MS-V4	1	BUC1956

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Reported: 04/29/2011 9:20
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

1,4-Dioxane (EPA Method 8270C)

BCL Sample ID: 1104869-01 | **Client Sample Name:** EB-7, 3/29/2011 3:40:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,4-Dioxane	**12**	**ug/L**	**1.2**	**0.30**	**EPA-8270C**	**ND**		1
Naphthalene-d8 (Surrogate)	73.8	%	75 - 132 (LCL - UCL)		EPA-8270C		S09	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	04/04/11	04/07/11 16:43	RDS	HPCHEM	1.159	BUD0417

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Reported: 04/29/2011 9:20
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1104869-01 | **Client Sample Name:** EB-7, 3/29/2011 3:40:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - C8 - C9	ND	ug/L	18	9.1	EPA-8015CC	ND		1
TPH - C10 - C11	ND	ug/L	18	9.1	EPA-8015CC	ND		1
TPH - C12 - C14	ND	ug/L	18	9.1	EPA-8015CC	ND		1
TPH - C15 - C16	ND	ug/L	18	9.1	EPA-8015CC	ND		1
TPH - C17 - C18	ND	ug/L	18	9.1	EPA-8015CC	ND		1
TPH - C19 - C20	ND	ug/L	18	9.1	EPA-8015CC	ND		1
TPH - C21 - C22	ND	ug/L	18	9.1	EPA-8015CC	ND		1
TPH - C23 - C28	ND	ug/L	18	9.1	EPA-8015CC	ND		1
TPH - C29 - C32	ND	ug/L	18	9.1	EPA-8015CC	ND		1
TPH - C33 - C36	ND	ug/L	18	9.1	EPA-8015CC	ND		1
TPH - C37 - C40	ND	ug/L	18	9.1	EPA-8015CC	ND		1
TPH - C41 - C43	ND	ug/L	18	9.1	EPA-8015CC	ND		1
TPH - C44 plus	ND	ug/L	18	9.1	EPA-8015CC	ND		1
TPH (Total)	ND	ug/L	360	180	EPA-8015CC	ND		1
Tetracosane (Surrogate)	87.3	%	37 - 134 (LCL - UCL)		EPA-8015CC			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015CC	04/05/11	04/09/11 22:04	MWB	GC-13	1.818	BUD0474

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Reported: 04/29/2011 9:20
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Water Analysis (General Chemistry)

BCL Sample ID: 1104869-01 | **Client Sample Name:** EB-7, 3/29/2011 3:40:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Calcium	**330**	**mg/L**	**1.0**	**0.23**	**EPA-6010B**	**ND**	**A01**	1
Total Magnesium	**1000**	**mg/L**	**0.50**	**0.16**	**EPA-6010B**	**ND**	**A01**	1
Total Sodium	**7600**	**mg/L**	**5.0**	**0.77**	**EPA-6010B**	**ND**	**A01**	1
Total Potassium	**380**	**mg/L**	**10**	**1.4**	**EPA-6010B**	**ND**	**A01**	1
Bicarbonate Alkalinity as CaCO3	**1200**	**mg/L**	**8.2**	**8.2**	**EPA-310.1**	**ND**		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	EPA-310.1	ND		2
Chloride	**13000**	**mg/L**	**25**	**2.5**	**EPA-300.0**	**ND**	**A01**	3
Fluoride	**2.5**	**mg/L**	**2.5**	**0.60**	**EPA-300.0**	**ND**	**A01**	3
Nitrate/Nitrite as N	**0.060**	**mg/L**	**0.10**	**0.010**	**EPA-353.2**	**ND**	**J**	4
Nitrate as N	ND	mg/L	5.0	0.70	EPA-300.0	ND	A01	3
Sulfate	**1900**	**mg/L**	**50**	**5.0**	**EPA-300.0**	**ND**	**A01**	3
Total Dissolved Solids @ 180 C	**26000**	**mg/L**	**1000**	**1000**	**EPA-160.1**	**ND**		5
Total Cyanide	**0.0030**	**mg/L**	**0.0050**	**0.0016**	**EPA-335.4**	**ND**	**J**	6
Nitrite as N	ND	mg/L	0.050	0.0081	EPA-353.2	ND		7
Total Sulfide	ND	mg/L	10	5.0	EPA-376.2	ND	A10	8
Non-Volatile Organic Carbon	**7.8**	**mg/L**	**1.5**	**0.31**	**EPA-415.1**	**0.48**	**A01**	9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	04/01/11	04/05/11 07:44	ARD	PE-OP1	10	BUD0018
2	EPA-310.1	03/31/11	04/01/11 11:02	RML	MET-1	2	BUD0065
3	EPA-300.0	03/30/11	03/30/11 14:15	LRS	IC2	50	BUC2110
4	EPA-353.2	04/05/11	04/05/11 15:59	SDU	SC-1	1	BUD0171
5	EPA-160.1	03/31/11	03/31/11 08:00	NW1	MANUAL	100	BUC2153
6	EPA-335.4	04/06/11	04/06/11 15:03	LD1	KONE-1	1	BUD0268
7	EPA-353.2	03/30/11	03/30/11 10:21	TDC	KONE-1	1	BUC2185
8	EPA-376.2	03/31/11	03/31/11 01:00	MRM	SPEC05	100	BUC2145
9	EPA-415.1	03/30/11	03/31/11 12:13	CDR	TOC2	5	BUC2137

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Reported: 04/29/2011 9:20
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Water Analysis (Metals)

BCL Sample ID: 1104869-01 | **Client Sample Name:** EB-7, 3/29/2011 3:40:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Antimony	ND	ug/L	1000	130	EPA-6010B	ND	A10	1
Total Arsenic	**240**	**ug/L**	**500**	**98**	**EPA-6010B**	**ND**	**J,A10**	1
Total Barium	**6400**	**ug/L**	**100**	**10**	**EPA-6010B**	**ND**	**A10**	1
Total Beryllium	**25**	**ug/L**	**100**	**10**	**EPA-6010B**	**ND**	**J,A10**	1
Total Cadmium	ND	ug/L	100	10	EPA-6010B	ND	A10	1
Total Chromium	**2400**	**ug/L**	**100**	**10**	**EPA-6010B**	**ND**	**A10**	1
Total Cobalt	**430**	**ug/L**	**500**	**50**	**EPA-6010B**	**ND**	**J,A10**	1
Total Copper	**1700**	**ug/L**	**100**	**23**	**EPA-6010B**	**ND**	**A10**	1
Total Lead	**220**	**ug/L**	**500**	**50**	**EPA-6010B**	**ND**	**J,A10**	1
Total Mercury	**92**	**ug/L**	**16**	**2.7**	**EPA-7470A**	**ND**	**A10**	2
Total Molybdenum	**110**	**ug/L**	**500**	**50**	**EPA-6010B**	**ND**	**J,A10**	1
Total Nickel	**3100**	**ug/L**	**100**	**12**	**EPA-6010B**	**ND**	**A10**	1
Total Selenium	ND	ug/L	1000	150	EPA-6010B	ND	A10	1
Total Silver	**200**	**ug/L**	**100**	**10**	**EPA-6010B**	**ND**	**A10**	1
Total Thallium	ND	ug/L	1000	170	EPA-6010B	ND	A10	1
Total Vanadium	**1500**	**ug/L**	**100**	**16**	**EPA-6010B**	**ND**	**A10**	1
Total Zinc	**2800**	**ug/L**	**500**	**29**	**EPA-6010B**	**ND**	**A10**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	04/01/11	04/05/11 07:44	ARD	PE-OP1	10	BUD0018
2	EPA-7470A	04/04/11	04/06/11 11:53	MEV	CETAC1	80	BUD0161

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Reported: 04/29/2011 9:20
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1104869-02 | **Client Sample Name:** TB-1, 3/29/2011 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-8260	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-8260	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-8260	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-8260	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-8260	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-8260	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-8260	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-8260	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-8260	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-8260	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-8260	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-8260	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-8260	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-8260	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-8260	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-8260	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-8260	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-8260	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-8260	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-8260	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-8260	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-8260	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-8260	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-8260	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-8260	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-8260	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-8260	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-8260	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-8260	ND		1

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Reported: 04/29/2011 9:20
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1104869-02 | **Client Sample Name:** TB-1, 3/29/2011 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-8260	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-8260	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-8260	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-8260	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-8260	ND		1
Methylene chloride	ND	ug/L	1.0	0.48	EPA-8260	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-8260	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-8260	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-8260	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-8260	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-8260	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-8260	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-8260	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-8260	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-8260	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-8260	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-8260	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-8260	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-8260	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-8260	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-8260	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-8260	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-8260	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	0.36	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-8260	ND		1
1,4-Dioxane	ND	ug/L	100	42	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	7.2	Luft-GC/MS	ND		1

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Reported: 04/29/2011 9:20
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1104869-02 | **Client Sample Name:** TB-1, 3/29/2011 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,2-Dichloroethane-d4 (Surrogate)	103	%	76 - 114 (LCL - UCL)		EPA-8260			1
Toluene-d8 (Surrogate)	105	%	88 - 110 (LCL - UCL)		EPA-8260			1
4-Bromofluorobenzene (Surrogate)	104	%	86 - 115 (LCL - UCL)		EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	03/31/11	03/31/11 15:42	JCC	MS-V4	1	BUC1956

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Reported: 04/29/2011 9:20
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Chlorinated Herbicides (EPA Method 8151)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUD0669						
2,4-D	BUD0669-BLK1	ND	ug/L	0.40	0.065	
2,4-DB	BUD0669-BLK1	ND	ug/L	3.0	0.32	
Dalapon	BUD0669-BLK1	ND	ug/L	10	2.4	
Dicamba	BUD0669-BLK1	ND	ug/L	0.080	0.037	
Dichloroprop	BUD0669-BLK1	ND	ug/L	0.50	0.012	
Dinoseb	BUD0669-BLK1	ND	ug/L	0.20	0.040	
2,4,5-T	BUD0669-BLK1	ND	ug/L	0.090	0.012	
2,4,5-TP (Silvex)	BUD0669-BLK1	ND	ug/L	0.070	0.016	
2,4-Dichlorophenylacetic acid (Surrogate)	BUD0669-BLK1	68.6	%	50 - 150 (LCL - UCL)		

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Reported: 04/29/2011 9:20
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Chlorinated Herbicides (EPA Method 8151)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUD0669										
2,4-D	BUD0669-BS1	LCS	2.0260	2.4000	ug/L	84.4		55 - 124		
2,4-DB	BUD0669-BS1	LCS	4.3570	5.4000	ug/L	80.7		62 - 134		
Dicamba	BUD0669-BS1	LCS	0.50000	0.60000	ug/L	83.3		64 - 120		
Dichloroprop	BUD0669-BS1	LCS	1.9500	2.4000	ug/L	81.2		47 - 120		
Dinoseb	BUD0669-BS1	LCS	0.92100	1.2000	ug/L	76.8		55 - 120		
2,4,5-T	BUD0669-BS1	LCS	0.57600	0.60000	ug/L	96.0		67 - 139		
2,4,5-TP (Silvex)	BUD0669-BS1	LCS	0.48500	0.60000	ug/L	80.8		56 - 127		
2,4-Dichlorophenylacetic acid (Surrogate)	BUD0669-BS1	LCS	0.83000	1.0000	ug/L	83.0		50 - 150		

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Reported: 04/29/2011 9:20
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Chlorinated Herbicides (EPA Method 8151)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUD0669	Used client sample: N										
2,4-D	MS	1011454-93	ND	2.0360	2.4000	ug/L		84.8		47 - 128	
	MSD	1011454-93	ND	2.0420	2.4000	ug/L	0.3	85.1	30	47 - 128	
2,4-DB	MS	1011454-93	ND	4.4800	5.4000	ug/L		83.0		59 - 138	
	MSD	1011454-93	ND	4.4380	5.4000	ug/L	0.9	82.2	30	59 - 138	
Dicamba	MS	1011454-93	ND	0.47400	0.60000	ug/L		79.0		64 - 120	
	MSD	1011454-93	ND	0.46900	0.60000	ug/L	1.1	78.2	30	64 - 120	
Dichloroprop	MS	1011454-93	ND	1.9690	2.4000	ug/L		82.0		48 - 120	
	MSD	1011454-93	ND	1.9620	2.4000	ug/L	0.4	81.8	30	48 - 120	
Dinoseb	MS	1011454-93	ND	0.88800	1.2000	ug/L		74.0		53 - 120	
	MSD	1011454-93	ND	0.89600	1.2000	ug/L	0.9	74.7	30	53 - 120	
2,4,5-T	MS	1011454-93	ND	0.63300	0.60000	ug/L		106		63 - 137	
	MSD	1011454-93	ND	0.54900	0.60000	ug/L	14.2	91.5	30	63 - 137	
2,4,5-TP (Silvex)	MS	1011454-93	ND	0.49300	0.60000	ug/L		82.2		47 - 132	
	MSD	1011454-93	ND	0.49300	0.60000	ug/L	0	82.2	30	47 - 132	
2,4-Dichlorophenylacetic acid (Surrogate	MS	1011454-93	ND	0.69400	1.0000	ug/L		69.4		50 - 150	
	MSD	1011454-93	ND	0.75000	1.0000	ug/L	7.8	75.0		50 - 150	

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Reported: 04/29/2011 9:20
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC1956						
Benzene	BUC1956-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BUC1956-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BUC1956-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BUC1956-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BUC1956-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BUC1956-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BUC1956-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BUC1956-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BUC1956-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BUC1956-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BUC1956-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BUC1956-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BUC1956-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BUC1956-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BUC1956-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BUC1956-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BUC1956-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BUC1956-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BUC1956-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BUC1956-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BUC1956-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BUC1956-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BUC1956-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BUC1956-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BUC1956-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BUC1956-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BUC1956-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BUC1956-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BUC1956-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BUC1956-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BUC1956-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BUC1956-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BUC1956-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BUC1956-BLK1	ND	ug/L	0.50	0.14	

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Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC1956						
trans-1,3-Dichloropropene	BUC1956-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BUC1956-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BUC1956-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BUC1956-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BUC1956-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BUC1956-BLK1	ND	ug/L	1.0	0.48	
Methyl t-butyl ether	BUC1956-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BUC1956-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BUC1956-BLK1	ND	ug/L	0.50	0.11	
Styrene	BUC1956-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BUC1956-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BUC1956-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BUC1956-BLK1	ND	ug/L	0.50	0.13	
Toluene	BUC1956-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BUC1956-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BUC1956-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BUC1956-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BUC1956-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BUC1956-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BUC1956-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BUC1956-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BUC1956-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BUC1956-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BUC1956-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BUC1956-BLK1	ND	ug/L	0.50	0.12	
Total Xylenes	BUC1956-BLK1	ND	ug/L	1.0	0.36	
t-Amyl Methyl ether	BUC1956-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BUC1956-BLK1	ND	ug/L	10	9.4	
Diisopropyl ether	BUC1956-BLK1	ND	ug/L	0.50	0.23	
1,4-Dioxane	BUC1956-BLK1	ND	ug/L	100	42	
Ethyl t-butyl ether	BUC1956-BLK1	ND	ug/L	0.50	0.18	
Total Purgeable Petroleum Hydrocarbons	BUC1956-BLK1	ND	ug/L	50	7.2	
1,2-Dichloroethane-d4 (Surrogate)	BUC1956-BLK1	102	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BUC1956-BLK1	105	%	88 - 110 (LCL - UCL)		

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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC1956						
4-Bromofluorobenzene (Surrogate)	BUC1956-BLK1	104	%	86 - 115 (LCL - UCL)		

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Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUC1956										
Benzene	BUC1956-BS1	LCS	25.430	25.000	ug/L	102		70 - 130		
Bromodichloromethane	BUC1956-BS1	LCS	24.700	25.000	ug/L	98.8		70 - 130		
Chlorobenzene	BUC1956-BS1	LCS	24.470	25.000	ug/L	97.9		70 - 130		
Chloroethane	BUC1956-BS1	LCS	24.610	25.000	ug/L	98.4		70 - 130		
1,4-Dichlorobenzene	BUC1956-BS1	LCS	22.700	25.000	ug/L	90.8		70 - 130		
1,1-Dichloroethane	BUC1956-BS1	LCS	24.550	25.000	ug/L	98.2		70 - 130		
1,1-Dichloroethene	BUC1956-BS1	LCS	24.470	25.000	ug/L	97.9		70 - 130		
Toluene	BUC1956-BS1	LCS	24.880	25.000	ug/L	99.5		70 - 130		
Trichloroethene	BUC1956-BS1	LCS	23.660	25.000	ug/L	94.6		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BUC1956-BS1	LCS	10.700	10.000	ug/L	107		76 - 114		
Toluene-d8 (Surrogate)	BUC1956-BS1	LCS	10.490	10.000	ug/L	105		88 - 110		
4-Bromofluorobenzene (Surrogate)	BUC1956-BS1	LCS	10.480	10.000	ug/L	105		86 - 115		

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Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC1956	Used client sample: N										
Benzene	MS	1104069-63	ND	24.540	25.000	ug/L		98.2		70 - 130	
	MSD	1104069-63	ND	25.720	25.000	ug/L	4.7	103	20	70 - 130	
Bromodichloromethane	MS	1104069-63	ND	24.510	25.000	ug/L		98.0		70 - 130	
	MSD	1104069-63	ND	25.520	25.000	ug/L	4.0	102	20	70 - 130	
Chlorobenzene	MS	1104069-63	ND	24.880	25.000	ug/L		99.5		70 - 130	
	MSD	1104069-63	ND	25.380	25.000	ug/L	2.0	102	20	70 - 130	
Chloroethane	MS	1104069-63	ND	22.970	25.000	ug/L		91.9		70 - 130	
	MSD	1104069-63	ND	24.490	25.000	ug/L	6.4	98.0	20	70 - 130	
1,4-Dichlorobenzene	MS	1104069-63	ND	23.210	25.000	ug/L		92.8		70 - 130	
	MSD	1104069-63	ND	23.420	25.000	ug/L	0.9	93.7	20	70 - 130	
1,1-Dichloroethane	MS	1104069-63	ND	23.300	25.000	ug/L		93.2		70 - 130	
	MSD	1104069-63	ND	24.750	25.000	ug/L	6.0	99.0	20	70 - 130	
1,1-Dichloroethene	MS	1104069-63	ND	22.910	25.000	ug/L		91.6		70 - 130	
	MSD	1104069-63	ND	24.700	25.000	ug/L	7.5	98.8	20	70 - 130	
Toluene	MS	1104069-63	ND	24.550	25.000	ug/L		98.2		70 - 130	
	MSD	1104069-63	ND	25.750	25.000	ug/L	4.8	103	20	70 - 130	
Trichloroethene	MS	1104069-63	ND	24.260	25.000	ug/L		97.0		70 - 130	
	MSD	1104069-63	ND	26.130	25.000	ug/L	7.4	105	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1104069-63	ND	9.9400	10.000	ug/L		99.4		76 - 114	
	MSD	1104069-63	ND	10.380	10.000	ug/L	4.3	104		76 - 114	
Toluene-d8 (Surrogate)	MS	1104069-63	ND	10.430	10.000	ug/L		104		88 - 110	
	MSD	1104069-63	ND	10.500	10.000	ug/L	0.7	105		88 - 110	
4-Bromofluorobenzene (Surrogate)	MS	1104069-63	ND	10.590	10.000	ug/L		106		86 - 115	
	MSD	1104069-63	ND	10.770	10.000	ug/L	1.7	108		86 - 115	

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1,4-Dioxane (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUD0417						
1,4-Dioxane	BUD0417-BLK1	ND	ug/L	1.0	0.26	
Naphthalene-d8 (Surrogate)	BUD0417-BLK1	94.9	%	75 - 132 (LCL - UCL)		

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Reported: 04/29/2011 9:20
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

1,4-Dioxane (EPA Method 8270C)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUD0417										
1,4-Dioxane	BUD0417-BS1	LCS	48.392	50.000	ug/L	96.8		70 - 130		
Naphthalene-d8 (Surrogate)	BUD0417-BS1	LCS	37.024	40.000	ug/L	92.6		75 - 132		

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Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

1,4-Dioxane (EPA Method 8270C)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUD0417	Used client sample: N										
1,4-Dioxane	MS	1104069-28	ND	48.899	50.000	ug/L		97.8		70 - 130	
	MSD	1104069-28	ND	47.404	50.000	ug/L	3.1	94.8	30	70 - 130	
Naphthalene-d8 (Surrogate)	MS	1104069-28	ND	40.370	40.000	ug/L		101		75 - 132	
	MSD	1104069-28	ND	38.551	40.000	ug/L	4.6	96.4		75 - 132	

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Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUD0474						
TPH - C8 - C9	BUD0474-BLK2	ND	ug/L	10	5.0	
TPH - C10 - C11	BUD0474-BLK2	ND	ug/L	10	5.0	
TPH - C12 - C14	BUD0474-BLK2	ND	ug/L	10	5.0	
TPH - C15 - C16	BUD0474-BLK2	ND	ug/L	10	5.0	
TPH - C17 - C18	BUD0474-BLK2	ND	ug/L	10	5.0	
TPH - C19 - C20	BUD0474-BLK2	ND	ug/L	10	5.0	
TPH - C21 - C22	BUD0474-BLK2	ND	ug/L	10	5.0	
TPH - C23 - C28	BUD0474-BLK2	ND	ug/L	10	5.0	
TPH - C29 - C32	BUD0474-BLK2	ND	ug/L	10	5.0	
TPH - C33 - C36	BUD0474-BLK2	ND	ug/L	10	5.0	
TPH - C37 - C40	BUD0474-BLK2	ND	ug/L	10	5.0	
TPH - C41 - C43	BUD0474-BLK2	ND	ug/L	10	5.0	
TPH - C44 plus	BUD0474-BLK2	ND	ug/L	10	5.0	
TPH (Total)	BUD0474-BLK2	ND	ug/L	200	100	
TPH - Diesel (FFP)	BUD0474-BLK2	77.137	ug/L	200	34	J
Tetracosane (Surrogate)	BUD0474-BLK2	117	%	37 - 134 (LCL - UCL)		

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Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUD0474										
TPH - Diesel (FFP)	BUD0474-BS2	LCS	2627.2	2500.0	ug/L	105		52 - 128		
Tetracosane (Surrogate)	BUD0474-BS2	LCS	127.48	100.00	ug/L	127		37 - 134		

Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 04/29/2011 9:20
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUD0474	Used client sample: N										
TPH - Diesel (FFP)	MS	1104069-47	77.137	2417.5	2500.0	ug/L		93.6		50 - 127	
	MSD	1104069-47	77.137	2106.1	2500.0	ug/L	13.8	81.2	24	50 - 127	
Tetracosane (Surrogate)	MS	1104069-47	ND	122.25	100.00	ug/L		122		37 - 134	
	MSD	1104069-47	ND	104.90	100.00	ug/L	15.3	105		37 - 134	

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Reported: 04/29/2011 9:20
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC2110						
Chloride	BUC2110-BLK1	ND	mg/L	0.50	0.050	
Fluoride	BUC2110-BLK1	ND	mg/L	0.050	0.012	
Nitrate as N	BUC2110-BLK1	ND	mg/L	0.10	0.014	
Sulfate	BUC2110-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BUC2137						
Non-Volatile Organic Carbon	BUC2137-BLK1	0.095000	mg/L	0.30	0.062	J
QC Batch ID: BUC2145						
Total Sulfide	BUC2145-BLK1	ND	mg/L	0.10	0.050	
QC Batch ID: BUC2153						
Total Dissolved Solids @ 180 C	BUC2153-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BUC2185						
Nitrite as N	BUC2185-BLK1	ND	mg/L	0.050	0.0081	
QC Batch ID: BUD0018						
Total Calcium	BUD0018-BLK1	ND	mg/L	0.10	0.023	
Total Magnesium	BUD0018-BLK1	ND	mg/L	0.050	0.016	
Total Sodium	BUD0018-BLK1	ND	mg/L	0.50	0.077	
Total Potassium	BUD0018-BLK1	ND	mg/L	1.0	0.14	
QC Batch ID: BUD0065						
Bicarbonate Alkalinity as CaCO3	BUD0065-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BUD0065-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BUD0171						
Nitrate/Nitrite as N	BUD0171-BLK1	ND	mg/L	0.10	0.010	
QC Batch ID: BUD0268						
Total Cyanide	BUD0268-BLK1	ND	mg/L	0.0050	0.0016	

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Reported: 04/29/2011 9:20
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUC2110										
Chloride	BUC2110-BS1	LCS	96.503	100.00	mg/L	96.5		90 - 110		
Fluoride	BUC2110-BS1	LCS	0.93100	1.0000	mg/L	93.1		90 - 110		
Nitrate as N	BUC2110-BS1	LCS	4.8450	5.0000	mg/L	96.9		90 - 110		
Sulfate	BUC2110-BS1	LCS	96.855	100.00	mg/L	96.9		90 - 110		
QC Batch ID: BUC2137										
Non-Volatile Organic Carbon	BUC2137-BS1	LCS	5.2080	5.0000	mg/L	104		85 - 115		
QC Batch ID: BUC2145										
Total Sulfide	BUC2145-BS1	LCS	0.49898	0.50000	mg/L	99.8		90 - 110		
QC Batch ID: BUC2153										
Total Dissolved Solids @ 180 C	BUC2153-BS1	LCS	620.00	586.00	mg/L	106		90 - 110		
QC Batch ID: BUC2185										
Nitrite as N	BUC2185-BS1	LCS	0.51294	0.50000	mg/L	103		90 - 110		
QC Batch ID: BUD0018										
Total Calcium	BUD0018-BS1	LCS	9.9392	10.000	mg/L	99.4		85 - 115		
Total Magnesium	BUD0018-BS1	LCS	10.598	10.000	mg/L	106		85 - 115		
Total Sodium	BUD0018-BS1	LCS	9.9068	10.000	mg/L	99.1		85 - 115		
Total Potassium	BUD0018-BS1	LCS	9.6093	10.000	mg/L	96.1		85 - 115		
QC Batch ID: BUD0171										
Nitrate/Nitrite as N	BUD0171-BS1	LCS	2.0247	2.0000	mg/L	101		90 - 110		
QC Batch ID: BUD0268										
Total Cyanide	BUD0268-BS1	LCS	0.14149	0.15000	mg/L	94.3		90 - 110		

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Reported: 04/29/2011 9:20
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC2110	Used client sample: N										
Chloride	DUP	1104835-01	79.936	79.574		mg/L	0.5		10		
	MS	1104835-01	79.936	188.45	101.01	mg/L		107		80 - 120	
	MSD	1104835-01	79.936	188.24	101.01	mg/L	0.1	107	10	80 - 120	
Fluoride	DUP	1104835-01	0.28200	0.28500		mg/L	1.1		10		
	MS	1104835-01	0.28200	1.2505	1.0101	mg/L		95.9		80 - 120	
	MSD	1104835-01	0.28200	1.2475	1.0101	mg/L	0.2	95.6	10	80 - 120	
Nitrate as N	DUP	1104835-01	10.359	10.336		mg/L	0.2		10		
	MS	1104835-01	10.359	15.525	5.0505	mg/L		102		80 - 120	
	MSD	1104835-01	10.359	15.439	5.0505	mg/L	0.6	101	10	80 - 120	
Sulfate	DUP	1104835-01	118.79	118.40		mg/L	0.3		10		
	MS	1104835-01	118.79	224.41	101.01	mg/L		105		80 - 120	
	MSD	1104835-01	118.79	224.56	101.01	mg/L	0.1	105	10	80 - 120	
QC Batch ID: BUC2137	Used client sample: N										
Non-Volatile Organic Carbon	DUP	1104893-02	0.34800	0.32900		mg/L	5.6		10		
	MS	1104893-02	0.34800	5.4794	5.0251	mg/L		102		80 - 120	
	MSD	1104893-02	0.34800	5.4683	5.0251	mg/L	0.2	102	10	80 - 120	
QC Batch ID: BUC2145	Used client sample: Y - Description: A-45, 03/29/2011 10:45										
Total Sulfide	DUP	1104870-01	ND	ND		mg/L			10		
	MS	1104870-01	ND	0.46543	0.50000	mg/L		93.1		80 - 120	
	MSD	1104870-01	ND	0.46711	0.50000	mg/L	0.4	93.4	10	80 - 120	
QC Batch ID: BUC2153	Used client sample: N										
Total Dissolved Solids @ 180 C	DUP	1104909-02	1055.0	1080.0		mg/L	2.3		10		
QC Batch ID: BUC2185	Used client sample: Y - Description: A-45, 03/29/2011 10:45										
Nitrite as N	DUP	1104870-01	0.016932	0.017023		mg/L	0.5		10		J
	MS	1104870-01	0.016932	0.54691	0.52632	mg/L		101		90 - 110	
	MSD	1104870-01	0.016932	0.54663	0.52632	mg/L	0.1	101	10	90 - 110	
QC Batch ID: BUD0018	Used client sample: N										
Total Calcium	DUP	1104839-05	0.25419	0.25128		mg/L	1.1		20		
	MS	1104839-05	0.25419	11.424	10.000	mg/L		112		75 - 125	
	MSD	1104839-05	0.25419	11.106	10.000	mg/L	2.8	109	20	75 - 125	
Total Magnesium	DUP	1104839-05	0.083007	0.070472		mg/L	16.3		20		
	MS	1104839-05	0.083007	11.863	10.000	mg/L		118		75 - 125	
	MSD	1104839-05	0.083007	11.415	10.000	mg/L	3.9	113	20	75 - 125	
Total Sodium	DUP	1104839-05	0.15216	0.15748		mg/L	3.4		20		J
	MS	1104839-05	0.15216	11.388	10.000	mg/L		112		75 - 125	
	MSD	1104839-05	0.15216	11.123	10.000	mg/L	2.4	110	20	75 - 125	

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425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 04/29/2011 9:20
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUD0018	Used client sample: N										
Total Potassium	DUP	1104839-05	ND	ND		mg/L			20		
	MS	1104839-05	ND	11.062	10.000	mg/L		111		75 - 125	
	MSD	1104839-05	ND	10.752	10.000	mg/L	2.8	108	20	75 - 125	
QC Batch ID: BUD0065	Used client sample: N										
Bicarbonate Alkalinity as CaCO3	DUP	1104833-01	583.88	591.19		mg/L	1.2		10		
Carbonate Alkalinity as CaCO3	DUP	1104833-01	21.300	18.860		mg/L	12.2		10		A02
QC Batch ID: BUD0171	Used client sample: N										
Nitrate/Nitrite as N	DUP	1105085-01	0.040700	0.037400		mg/L	8.5		10		J
	MS	1105085-01	0.040700	2.1557	2.1053	mg/L		100		90 - 110	
	MSD	1105085-01	0.040700	2.1324	2.1053	mg/L	1.1	99.4	10	90 - 110	
QC Batch ID: BUD0268	Used client sample: N										
Total Cyanide	DUP	1104938-01	ND	ND		mg/L			10		
	MS	1104938-01	ND	0.096032	0.10000	mg/L		96.0		90 - 110	
	MSD	1104938-01	ND	0.10044	0.10000	mg/L	4.5	100	10	90 - 110	

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Reported: 04/29/2011 9:20
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Water Analysis (Metals)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUD0018						
Total Antimony	BUD0018-BLK1	ND	ug/L	100	13	
Total Arsenic	BUD0018-BLK1	ND	ug/L	50	9.8	
Total Barium	BUD0018-BLK1	ND	ug/L	10	1.0	
Total Beryllium	BUD0018-BLK1	ND	ug/L	10	1.0	
Total Cadmium	BUD0018-BLK1	ND	ug/L	10	1.0	
Total Chromium	BUD0018-BLK1	ND	ug/L	10	1.0	
Total Cobalt	BUD0018-BLK1	ND	ug/L	50	5.0	
Total Copper	BUD0018-BLK1	ND	ug/L	10	2.3	
Total Lead	BUD0018-BLK1	ND	ug/L	50	5.0	
Total Molybdenum	BUD0018-BLK1	ND	ug/L	50	5.0	
Total Nickel	BUD0018-BLK1	ND	ug/L	10	1.2	
Total Selenium	BUD0018-BLK1	ND	ug/L	100	15	
Total Silver	BUD0018-BLK1	ND	ug/L	10	1.0	
Total Thallium	BUD0018-BLK1	ND	ug/L	100	17	
Total Vanadium	BUD0018-BLK1	ND	ug/L	10	1.6	
Total Zinc	BUD0018-BLK1	ND	ug/L	50	2.9	
QC Batch ID: BUD0161						
Total Mercury	BUD0161-BLK1	ND	ug/L	0.20	0.034	

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Reported: 04/29/2011 9:20
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Water Analysis (Metals)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUD0018										
Total Antimony	BUD0018-BS1	LCS	378.31	400.00	ug/L	94.6		85 - 115		
Total Arsenic	BUD0018-BS1	LCS	195.12	200.00	ug/L	97.6		85 - 115		
Total Barium	BUD0018-BS1	LCS	408.24	400.00	ug/L	102		85 - 115		
Total Beryllium	BUD0018-BS1	LCS	202.18	200.00	ug/L	101		85 - 115		
Total Cadmium	BUD0018-BS1	LCS	203.12	200.00	ug/L	102		85 - 115		
Total Chromium	BUD0018-BS1	LCS	201.47	200.00	ug/L	101		85 - 115		
Total Cobalt	BUD0018-BS1	LCS	207.81	200.00	ug/L	104		85 - 115		
Total Copper	BUD0018-BS1	LCS	380.18	400.00	ug/L	95.0		85 - 115		
Total Lead	BUD0018-BS1	LCS	415.64	400.00	ug/L	104		85 - 115		
Total Molybdenum	BUD0018-BS1	LCS	197.74	200.00	ug/L	98.9		85 - 115		
Total Nickel	BUD0018-BS1	LCS	421.41	400.00	ug/L	105		85 - 115		
Total Selenium	BUD0018-BS1	LCS	211.15	200.00	ug/L	106		85 - 115		
Total Silver	BUD0018-BS1	LCS	87.750	100.00	ug/L	87.8		85 - 115		
Total Thallium	BUD0018-BS1	LCS	424.10	400.00	ug/L	106		85 - 115		
Total Vanadium	BUD0018-BS1	LCS	200.65	200.00	ug/L	100		85 - 115		
Total Zinc	BUD0018-BS1	LCS	526.60	500.00	ug/L	105		85 - 115		
QC Batch ID: BUD0161										
Total Mercury	BUD0161-BS1	LCS	0.95750	1.0000	ug/L	95.8		85 - 115		

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Reported: 04/29/2011 9:20
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUD0018	Used client sample: N										
Total Antimony	DUP	1104839-05	ND	ND		ug/L			20		
	MS	1104839-05	ND	443.06	400.00	ug/L		111		75 - 125	
	MSD	1104839-05	ND	443.33	400.00	ug/L	0.1	111	20	75 - 125	
Total Arsenic	DUP	1104839-05	ND	ND		ug/L			20		
	MS	1104839-05	ND	216.20	200.00	ug/L		108		75 - 125	
	MSD	1104839-05	ND	219.91	200.00	ug/L	1.7	110	20	75 - 125	
Total Barium	DUP	1104839-05	9.1677	9.4753		ug/L	3.3		20		J
	MS	1104839-05	9.1677	463.77	400.00	ug/L		114		75 - 125	
	MSD	1104839-05	9.1677	441.70	400.00	ug/L	4.9	108	20	75 - 125	
Total Beryllium	DUP	1104839-05	ND	ND		ug/L			20		
	MS	1104839-05	ND	232.66	200.00	ug/L		116		75 - 125	
	MSD	1104839-05	ND	227.54	200.00	ug/L	2.2	114	20	75 - 125	
Total Cadmium	DUP	1104839-05	ND	ND		ug/L			20		
	MS	1104839-05	ND	228.03	200.00	ug/L		114		75 - 125	
	MSD	1104839-05	ND	224.03	200.00	ug/L	1.8	112	20	75 - 125	
Total Chromium	DUP	1104839-05	1.3547	1.3382		ug/L	1.2		20		J
	MS	1104839-05	1.3547	230.34	200.00	ug/L		114		75 - 125	
	MSD	1104839-05	1.3547	225.45	200.00	ug/L	2.1	112	20	75 - 125	
Total Cobalt	DUP	1104839-05	ND	ND		ug/L			20		
	MS	1104839-05	ND	235.14	200.00	ug/L		118		75 - 125	
	MSD	1104839-05	ND	230.41	200.00	ug/L	2.0	115	20	75 - 125	
Total Copper	DUP	1104839-05	ND	ND		ug/L			20		
	MS	1104839-05	ND	439.03	400.00	ug/L		110		75 - 125	
	MSD	1104839-05	ND	428.16	400.00	ug/L	2.5	107	20	75 - 125	
Total Lead	DUP	1104839-05	ND	ND		ug/L			20		
	MS	1104839-05	ND	466.40	400.00	ug/L		117		75 - 125	
	MSD	1104839-05	ND	458.94	400.00	ug/L	1.6	115	20	75 - 125	
Total Molybdenum	DUP	1104839-05	ND	ND		ug/L			20		
	MS	1104839-05	ND	223.47	200.00	ug/L		112		75 - 125	
	MSD	1104839-05	ND	219.24	200.00	ug/L	1.9	110	20	75 - 125	
Total Nickel	DUP	1104839-05	ND	ND		ug/L			20		
	MS	1104839-05	ND	481.73	400.00	ug/L		120		75 - 125	
	MSD	1104839-05	ND	473.83	400.00	ug/L	1.7	118	20	75 - 125	
Total Selenium	DUP	1104839-05	ND	ND		ug/L			20		
	MS	1104839-05	ND	244.83	200.00	ug/L		122		75 - 125	
	MSD	1104839-05	ND	239.16	200.00	ug/L	2.3	120	20	75 - 125	
Total Silver	DUP	1104839-05	ND	ND		ug/L			20		
	MS	1104839-05	ND	109.88	100.00	ug/L		110		75 - 125	
	MSD	1104839-05	ND	108.34	100.00	ug/L	1.4	108	20	75 - 125	

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Sunnyvale, CA 94085

Reported: 04/29/2011 9:20
Project: Nine Par
Project Number: 103-97163-11
Project Manager: Tom Vercoutere

Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUD0018	Used client sample: N										
Total Thallium	DUP	1104839-05	ND	ND		ug/L			20		
	MS	1104839-05	ND	481.94	400.00	ug/L		120		75 - 125	
	MSD	1104839-05	ND	469.11	400.00	ug/L	2.7	117	20	75 - 125	
Total Vanadium	DUP	1104839-05	ND	ND		ug/L			20		
	MS	1104839-05	ND	226.81	200.00	ug/L		113		75 - 125	
	MSD	1104839-05	ND	224.85	200.00	ug/L	0.9	112	20	75 - 125	
Total Zinc	DUP	1104839-05	ND	ND		ug/L			20		
	MS	1104839-05	ND	596.58	500.00	ug/L		119		75 - 125	
	MSD	1104839-05	ND	574.07	500.00	ug/L	3.8	115	20	75 - 125	
QC Batch ID: BUD0161	Used client sample: N										
Total Mercury	DUP	1104975-01	0.097500	0.11750		ug/L	18.6		20		J
	MS	1104975-01	0.097500	1.0050	1.0000	ug/L		90.8		70 - 130	
	MSD	1104975-01	0.097500	1.0175	1.0000	ug/L	1.2	92.0	20	70 - 130	

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Golder Associates 425 Lakeside Drive Sunnyvale, CA 94085	**Reported:** 04/29/2011 9:20 Project: Nine Par Project Number: 103-97163-11 Project Manager: Tom Vercoutere

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A01	PQL's and MDL's are raised due to sample dilution.
A02	The difference between duplicate readings is less than the PQL.
A10	PQL's and MDL's were raised due to matrix interference.
S09	The surrogate recovery on the sample for this compound was not within the control limits.
V11	The Continuing Calibration Verification (CCV) recovery is not within established control limits.

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Date of Report: 04/19/2011

Tom Vercoutere

Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

RE: Nine Par
BC Work Order: 1104123
Invoice ID: B097905

Enclosed are the results of analyses for samples received by the laboratory on 3/15/2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Linda Phoudamneun

Contact Person: Linda Phoudamneun
Client Service Rep

Authorized Signature

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Executive Summary - Detections

Constituent	Result	PQL	MDL	Units	Method	Lab Quals
1104123-01 LW-1, 3/14/2011 2:20:00PM						
Benzene	4.4	0.50	0.083	ug/L	EPA-8260	Z1
n-Butylbenzene	0.76	0.50	0.11	ug/L	EPA-8260	Z1
sec-Butylbenzene	0.26	0.50	0.15	ug/L	EPA-8260	J,Z1
Chlorobenzene	6.0	0.50	0.093	ug/L	EPA-8260	Z1
1,2-Dichlorobenzene	0.12	0.50	0.072	ug/L	EPA-8260	J,Z1
1,4-Dichlorobenzene	1.6	0.50	0.062	ug/L	EPA-8260	Z1
cis-1,2-Dichloroethene	0.30	0.50	0.085	ug/L	EPA-8260	J,Z1
Ethylbenzene	5.2	0.50	0.098	ug/L	EPA-8260	Z1
Isopropylbenzene	2.9	0.50	0.14	ug/L	EPA-8260	Z1
p-Isopropyltoluene	47	0.50	0.12	ug/L	EPA-8260	Z1
Naphthalene	7.4	0.50	0.36	ug/L	EPA-8260	Z1
n-Propylbenzene	0.74	0.50	0.11	ug/L	EPA-8260	Z1
Toluene	2.1	0.50	0.093	ug/L	EPA-8260	Z1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.17	0.50	0.15	ug/L	EPA-8260	J,Z1
1,2,4-Trimethylbenzene	3.7	0.50	0.12	ug/L	EPA-8260	Z1
1,3,5-Trimethylbenzene	0.95	0.50	0.12	ug/L	EPA-8260	Z1
Total Xylenes	24	1.0	0.36	ug/L	EPA-8260	Z1
t-Butyl alcohol	56	10	9.4	ug/L	EPA-8260	Z1
Total Purgeable Petroleum Hydrocarbons	270	50	7.2	ug/L	Luft-GC/MS	Z1
bis(2-Ethylhexyl)phthalate	3.0	5.0	3.0	ug/L	EPA-8270C	J
Naphthalene	5.0	2.0	0.21	ug/L	EPA-8270C	
1,4-Dioxane	33	1.1	0.29	ug/L	EPA-8270C	
TPH - C10 - C11	220	10	5.0	ug/L	EPA-8015CC	
TPH - C12 - C14	740	10	5.0	ug/L	EPA-8015CC	
TPH - C15 - C16	300	10	5.0	ug/L	EPA-8015CC	
TPH - C17 - C18	390	10	5.0	ug/L	EPA-8015CC	
TPH - C19 - C20	350	10	5.0	ug/L	EPA-8015CC	
TPH - C21 - C22	310	10	5.0	ug/L	EPA-8015CC	
TPH - C23 - C28	750	10	5.0	ug/L	EPA-8015CC	
TPH - C29 - C32	280	10	5.0	ug/L	EPA-8015CC	
TPH - C33 - C36	190	10	5.0	ug/L	EPA-8015CC	
TPH (Total)	3500	200	100	ug/L	EPA-8015CC	
Total Calcium	23	0.50	0.12	mg/L	EPA-6010B	A10
Total Magnesium	35	0.25	0.080	mg/L	EPA-6010B	A10
Total Sodium	1900	2.5	0.38	mg/L	EPA-6010B	A01
Total Potassium	430	5.0	0.70	mg/L	EPA-6010B	A10
Bicarbonate Alkalinity as CaCO3	3300	8.2	8.2	mg/L	EPA-310.1	
Chloride	1400	2.5	0.25	mg/L	EPA-300.0	A01

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Executive Summary - Detections

Constituent	Result	PQL	MDL	Units	Method	Lab Quals
1104123-01 LW-1, 3/14/2011 2:20:00PM						
Fluoride	0.54	0.25	0.060	mg/L	EPA-300.0	A01
Sulfate	3.0	5.0	0.50	mg/L	EPA-300.0	J,A01
Total Dissolved Solids @ 180 C	5800	500	500	mg/L	EPA-160.1	
Total Cyanide	0.061	0.0050	0.0016	mg/L	EPA-335.4	
Non-Volatile Organic Carbon	260	30	6.2	mg/L	EPA-415.1	A01
Total Arsenic	100	250	49	ug/L	EPA-6010B	J,A10
Total Barium	1200	50	5.0	ug/L	EPA-6010B	A10
Total Cadmium	7.0	50	5.0	ug/L	EPA-6010B	J,A10
Total Chromium	210	50	5.0	ug/L	EPA-6010B	A10
Total Cobalt	42	250	25	ug/L	EPA-6010B	J,A10
Total Copper	870	50	12	ug/L	EPA-6010B	A10
Total Lead	2000	250	25	ug/L	EPA-6010B	A10
Total Mercury	1.8	0.20	0.034	ug/L	EPA-7470A	
Total Molybdenum	80	250	25	ug/L	EPA-6010B	J,A10
Total Nickel	210	50	6.0	ug/L	EPA-6010B	A10
Total Silver	9.5	50	5.0	ug/L	EPA-6010B	J,A10
Total Vanadium	45	50	8.0	ug/L	EPA-6010B	J,A10
Total Zinc	3300	250	14	ug/L	EPA-6010B	A10
1104123-02 LW-2, 3/14/2011 11:00:00AM						
Benzene	0.68	0.50	0.083	ug/L	EPA-8260	
sec-Butylbenzene	0.30	0.50	0.15	ug/L	EPA-8260	J
Chlorobenzene	12	0.50	0.093	ug/L	EPA-8260	
1,2-Dichlorobenzene	0.21	0.50	0.072	ug/L	EPA-8260	J
1,3-Dichlorobenzene	0.20	0.50	0.15	ug/L	EPA-8260	J
1,4-Dichlorobenzene	4.3	0.50	0.062	ug/L	EPA-8260	
Ethylbenzene	0.49	0.50	0.098	ug/L	EPA-8260	J
Isopropylbenzene	0.75	0.50	0.14	ug/L	EPA-8260	
p-Isopropyltoluene	0.18	0.50	0.12	ug/L	EPA-8260	J
Methyl t-butyl ether	0.20	0.50	0.11	ug/L	EPA-8260	J
Naphthalene	4.8	0.50	0.36	ug/L	EPA-8260	
n-Propylbenzene	1.6	0.50	0.11	ug/L	EPA-8260	
Toluene	0.26	0.50	0.093	ug/L	EPA-8260	J
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31	0.50	0.15	ug/L	EPA-8260	J
1,2,4-Trimethylbenzene	3.0	0.50	0.12	ug/L	EPA-8260	
1,3,5-Trimethylbenzene	1.0	0.50	0.12	ug/L	EPA-8260	
Total Xylenes	1.6	1.0	0.36	ug/L	EPA-8260	
Total Purgeable Petroleum Hydrocarbons	170	50	7.2	ug/L	Luft-GC/MS	

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Executive Summary - Detections

Constituent	Result	PQL	MDL	Units	Method	Lab Quals
1104123-02 LW-2, 3/14/2011 11:00:00AM						
bis(2-Ethylhexyl)phthalate	3.3	5.0	3.0	ug/L	EPA-8270C	J
2-Methylnaphthalene	1.9	2.0	0.28	ug/L	EPA-8270C	J
Naphthalene	3.7	2.0	0.21	ug/L	EPA-8270C	
1,4-Dioxane	8.5	1.0	0.26	ug/L	EPA-8270C	
TPH - C10 - C11	170	10	5.0	ug/L	EPA-8015CC	
TPH - C12 - C14	390	10	5.0	ug/L	EPA-8015CC	
TPH - C15 - C16	210	10	5.0	ug/L	EPA-8015CC	
TPH - C17 - C18	290	10	5.0	ug/L	EPA-8015CC	
TPH - C19 - C20	240	10	5.0	ug/L	EPA-8015CC	
TPH - C21 - C22	220	10	5.0	ug/L	EPA-8015CC	
TPH - C23 - C28	530	10	5.0	ug/L	EPA-8015CC	
TPH - C29 - C32	210	10	5.0	ug/L	EPA-8015CC	
TPH - C33 - C36	100	10	5.0	ug/L	EPA-8015CC	
TPH (Total)	2400	200	100	ug/L	EPA-8015CC	
Total Calcium	51	0.50	0.12	mg/L	EPA-6010B	A10
Total Magnesium	93	0.25	0.080	mg/L	EPA-6010B	A10
Total Sodium	1300	2.5	0.38	mg/L	EPA-6010B	A01
Total Potassium	250	5.0	0.70	mg/L	EPA-6010B	A10
Bicarbonate Alkalinity as CaCO3	1800	8.2	8.2	mg/L	EPA-310.1	
Chloride	1600	2.5	0.25	mg/L	EPA-300.0	A01
Fluoride	0.28	0.25	0.060	mg/L	EPA-300.0	A01
Sulfate	10	5.0	0.50	mg/L	EPA-300.0	A01
Total Dissolved Solids @ 180 C	4200	500	500	mg/L	EPA-160.1	
Total Cyanide	0.017	0.0050	0.0016	mg/L	EPA-335.4	
Nitrite as N	0.0099	0.050	0.0081	mg/L	EPA-353.2	J
Total Sulfide	0.12	0.10	0.050	mg/L	EPA-376.2	
Non-Volatile Organic Carbon	100	15	3.1	mg/L	EPA-415.1	A01
Total Barium	860	50	5.0	ug/L	EPA-6010B	A10
Total Chromium	8.3	50	5.0	ug/L	EPA-6010B	J,A10
Total Mercury	0.14	0.20	0.034	ug/L	EPA-7470A	J
Total Nickel	21	50	6.0	ug/L	EPA-6010B	J,A10
Total Zinc	160	250	14	ug/L	EPA-6010B	J,A10
1104123-03 LW-3, 3/14/2011 12:20:00PM						
Benzene	3.2	0.50	0.083	ug/L	EPA-8260	Z1
n-Butylbenzene	0.66	0.50	0.11	ug/L	EPA-8260	Z1
sec-Butylbenzene	0.78	0.50	0.15	ug/L	EPA-8260	Z1
Chlorobenzene	3.3	0.50	0.093	ug/L	EPA-8260	Z1
1,4-Dichlorobenzene	4.0	0.50	0.062	ug/L	EPA-8260	Z1

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Executive Summary - Detections

Constituent	Result	PQL	MDL	Units	Method	Lab Quals
1104123-03 LW-3, 3/14/2011 12:20:00PM						
cis-1,2-Dichloroethene	0.22	0.50	0.085	ug/L	EPA-8260	J,Z1
Ethylbenzene	1.5	0.50	0.098	ug/L	EPA-8260	Z1
Isopropylbenzene	2.8	0.50	0.14	ug/L	EPA-8260	Z1
p-Isopropyltoluene	0.75	0.50	0.12	ug/L	EPA-8260	Z1
Naphthalene	10	0.50	0.36	ug/L	EPA-8260	Z1
n-Propylbenzene	3.1	0.50	0.11	ug/L	EPA-8260	Z1
Styrene	0.11	0.50	0.068	ug/L	EPA-8260	J,Z1
Toluene	0.44	0.50	0.093	ug/L	EPA-8260	J,Z1
1,2,4-Trimethylbenzene	1.7	0.50	0.12	ug/L	EPA-8260	Z1
Vinyl chloride	0.35	0.50	0.12	ug/L	EPA-8260	J,Z1
Total Xylenes	2.6	1.0	0.36	ug/L	EPA-8260	Z1
t-Butyl alcohol	61	10	9.4	ug/L	EPA-8260	Z1
Total Purgeable Petroleum Hydrocarbons	120	50	7.2	ug/L	Luft-GC/MS	Z1
bis(2-Ethylhexyl)phthalate	6.1	5.0	3.0	ug/L	EPA-8270C	
2-Methylnaphthalene	4.2	2.0	0.28	ug/L	EPA-8270C	
Naphthalene	8.9	2.0	0.21	ug/L	EPA-8270C	
1,4-Dioxane	55	1.0	0.26	ug/L	EPA-8270C	
TPH - C12 - C14	360	10	5.0	ug/L	EPA-8015CC	
TPH - C15 - C16	310	10	5.0	ug/L	EPA-8015CC	
TPH - C17 - C18	300	10	5.0	ug/L	EPA-8015CC	
TPH - C19 - C20	240	10	5.0	ug/L	EPA-8015CC	
TPH - C21 - C22	180	10	5.0	ug/L	EPA-8015CC	
TPH - C23 - C28	330	10	5.0	ug/L	EPA-8015CC	
TPH - C29 - C32	99	10	5.0	ug/L	EPA-8015CC	
TPH - C33 - C36	51	10	5.0	ug/L	EPA-8015CC	
TPH (Total)	1900	200	100	ug/L	EPA-8015CC	
Total Calcium	12	0.50	0.12	mg/L	EPA-6010B	A10
Total Magnesium	74	0.25	0.080	mg/L	EPA-6010B	A10
Total Sodium	2000	2.5	0.38	mg/L	EPA-6010B	A01
Total Potassium	460	5.0	0.70	mg/L	EPA-6010B	A10
Bicarbonate Alkalinity as CaCO3	2700	8.2	8.2	mg/L	EPA-310.1	
Chloride	2500	5.0	0.50	mg/L	EPA-300.0	A01
Sulfate	14	10	1.0	mg/L	EPA-300.0	A01
Total Dissolved Solids @ 180 C	6200	500	500	mg/L	EPA-160.1	
Total Cyanide	0.016	0.0050	0.0016	mg/L	EPA-335.4	
Non-Volatile Organic Carbon	250	30	6.2	mg/L	EPA-415.1	A01
Total Barium	490	50	5.0	ug/L	EPA-6010B	A10

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Executive Summary - Detections

Constituent	Result	PQL	MDL	Units	Method	Lab Quals
1104123-03 LW-3, 3/14/2011 12:20:00PM						
Total Chromium	76	50	5.0	ug/L	EPA-6010B	A10
Total Cobalt	46	250	25	ug/L	EPA-6010B	J,A10
Total Copper	40	50	12	ug/L	EPA-6010B	J,A10
Total Lead	86	250	25	ug/L	EPA-6010B	J,A10
Total Mercury	0.29	0.20	0.034	ug/L	EPA-7470A	
Total Molybdenum	30	250	25	ug/L	EPA-6010B	J,A10
Total Nickel	82	50	6.0	ug/L	EPA-6010B	A10
Total Vanadium	18	50	8.0	ug/L	EPA-6010B	J,A10
Total Zinc	260	250	14	ug/L	EPA-6010B	A10

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Golder Associates

11-04123
~~11-04123~~

Golder Associates
CHAIN OF CUSTODY

Page 1 of 1
Quotation No.

PROJECT NO.: 103 97163-11
SITE NAME: Nine Par
SAMPLER(S): Jeff Linder (printed) (signature)
CONTRACT LABORATORY: BC LABS
TURN-AROUND TIME: Standard

ANALYSES: See Attached Parameter list

EDD required? [X] Yes [ ] No
EDF required? [X] Yes [ ] No

Sample I.D.	Lab I.D.	Collection Date	Collection Time	Matrix	Depth	Container Info: Type/Vol.	Filter	Preserv.								Cont. Qty.	Remarks
						40ml VOA	A 1L	P 500ml	P 500ml	P 500ml	P 500ml	A 500ml	P 1L				
						N	N	N	N	N	N	N	N				
						HCl	A_2I_3	HNO_3	$NaOH$	H_2SO_4	3N Acetate	H_2SO_4	A_2I_3				
LW-1	-1	3/14/11	1420	GW	-	3	8	1	1	1	1	1	1			17	
LW-2	-2	↓	1100	↓	-	3	8	1	1	1	1	1	1			17	
LW-3	-3	↓	1220	↓	-	3	8	1	1	1	1	1	1			17	

CHK BY: BLT
DISTRIBUTION: [illegible]
SUB-OUT [X]

SHORT HOLDING TIME
Cr+6 NO_2 NO_3 OP SS
DO Cl_2 BOD MBAS COT

CHECKED BY: [illegible] ON
MM 3/16

Relinquished by: (signature)	Received by: (signature)	Date/Time:	
[signature]	[signature] P.BINS BCL	3/14/11	1640
[signature] BCC VIA GSO 3/14/11 1800	[signature] Sandra Trundle BCL	3/15/11	0800
Relinquished by: (signature)	Received by: (signature)	Date/Time:	

SEND RESULTS TO:
Attn: Tom Vercautere
Golder Associates Inc.
425 Lakeside Drive
Sunnyvale, CA 94085
Phone (408) 220-9223
Fax (408) 220-9224

white: lab copy yellow: project file

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Chain of Custody and Cooler Receipt Form for 1104123 Page 2 of 5

1104123

~~1103173~~

Nine Par Landfill – Preliminary Site Investigation
Zero Waste Energy Development Company
San Jose, California

~~2/24/11~~
~~1103-99163H~~

Parameter Request List

Groundwater	
Volatile Organic Compounds	EPA Method 8260B
Total Petroleum Hydrocarbons	Modified EPA Method 8015
CAM 17 Metals	EPA 6000/7000 series
Semi-volatile Organic Compounds	EPA Method 8270C
Organochlorine Pesticides	EPA Method 8081
PCBs	EPA Method 8082
Chlorophenoxy Herbicides	EPA Method 8151
Cyanide	EPA Method 335.2
Sulfide	EPA Method 376.1
Anions (Cl, Fl, NO2, NO3, SO4)	EPA Method 300.0
Bicarbonate and Carbonate Alkalinity	EPA Method 310.2
Calcium, Magnesium, Potassium, and Sodium	EPA Method 200.7
Total Dissolved Solids	EPA Method 160.1
Total Organic Carbon	EPA Method 415.1

1-4-Dioxane
8290-Dioxins

Chain of Custody and Cooler Receipt Form for 1104123 Page 3 of 5

BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 06/24/08 Page 1 Of 3

Submission #: 1104123

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☐ Other ☒ (Specify) GSO

SHIPPING CONTAINER
Ice Chest ☒ None ☐
Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: Pt PE Thermometer ID: #163
Temperature: A 6.9 °C / C 6.9 °C MM 3/15

Date/Time 3/15/11 800
Analyst Init SDR

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL	B	B	B							
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS	C		C							
PT CYANIDE	D		D							
PT NITROGEN FORMS			E							
PT TOTAL SULFIDE		F								
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON	G	G	G							
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A 3	A 3	A 3	( )	( )	( )	( )	( )	( )	( )
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:
Sample Numbering Completed By: CBM Date/Time: 3/15/11 0930
A = Actual / C = Corrected
(H:\DOCS\WP80\LAB_DOCS\FORMS\SAMREC2.WPD)

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Chain of Custody and Cooler Receipt Form for 1104123 Page 4 of 5

BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 06/24/08 Page 2 Of 3

Submission #: 1104123

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☐ Other ☒ (Specify) GSO

SHIPPING CONTAINER
Ice Chest ☒ None ☐
Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: .95 Container: Qt AM Thermometer ID: #163
Temperature: A 9.8 °C / C 9.9 °C MM 3/15
Date/Time 3/15/11 800
Analyst Init SDR

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS	E									
PT TOTAL SULFIDE	F		F							
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 505/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA ~~548~~ 8082	HIJKL									
QT EPA ~~549~~ 8082	M		K							
QT EPA 632										
QT EPA 8015M	O		O							
QT AMBER 8081			H							
~~8 OZ. JAR~~ 8151			LM							
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:
Sample Numbering Completed By: CAA Date/Time: 3/15/11 0930
A = Actual / C = Corrected
[H:\DOCS\WP80\LAB_DOCS\FORMS\SAMREC2.WPD]

Chain of Custody and Cooler Receipt Form for 1104123 Page 5 of 5

BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 06/24/08 Page 3 Of 3

Submission #: 1104123

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☐ Other ☒ (Specify) GSO

SHIPPING CONTAINER
Ice Chest ☒ None ☐
Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: .95 Container: Qt AM Thermometer ID: #168
Temperature: A 8.6 °C / C 8.7 °C MM 3/15

Date/Time 3/15/11 800
Analyst Init SDR

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS		C								
PT CYANIDE		D								
PT NITROGEN FORMS		E								
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 8082	N	HI	J							
QT EPA 8151		SKLM								
QT EPA 8151		O	N							
QT EPA 8015M										
QT AMBER 9081			I							
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:
Sample Numbering Completed By: CB Date/Time: 3/15/11 0930
A = Actual / C = Corrected
[H:\DOCS\WP80\LAB_DOCS\FORMS\SAMREC2.WPD]

[redacted]

Golder Associates 425 Lakeside Drive Sunnyvale, CA 94085	**Reported:** 04/19/2011 11:39 Project: Nine Par Project Number: 103 97163-11 Project Manager: Tom Vercoutere

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1104123-01	**COC Number:**	---	**Receive Date:**	03/15/2011 08:00
	Project Number:	---	**Sampling Date:**	03/14/2011 14:20
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	LW-1	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1104123-02	**COC Number:**	---	**Receive Date:**	03/15/2011 08:00
	Project Number:	---	**Sampling Date:**	03/14/2011 11:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	LW-2	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
1104123-03	**COC Number:**	---	**Receive Date:**	03/15/2011 08:00
	Project Number:	---	**Sampling Date:**	03/14/2011 12:20
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	LW-3	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Organochlorine Pesticides (EPA Method 8081)

BCL Sample ID: 1104123-01 | **Client Sample Name:** LW-1, 3/14/2011 2:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	ug/L	0.0050	0.0013	EPA-8081	ND		1
alpha-BHC	ND	ug/L	0.0050	0.0011	EPA-8081	ND		1
beta-BHC	ND	ug/L	0.0050	0.0021	EPA-8081	ND		1
delta-BHC	ND	ug/L	0.0050	0.0014	EPA-8081	ND		1
gamma-BHC (Lindane)	ND	ug/L	0.0050	0.00094	EPA-8081	ND		1
Chlordane (Technical)	ND	ug/L	0.50	0.38	EPA-8081	ND		1
4,4'-DDD	ND	ug/L	0.0050	0.0017	EPA-8081	ND		1
4,4'-DDE	ND	ug/L	0.0050	0.0019	EPA-8081	ND		1
4,4'-DDT	ND	ug/L	0.0050	0.00076	EPA-8081	ND	V11	1
Dieldrin	ND	ug/L	0.0050	0.0012	EPA-8081	ND		1
Endosulfan I	ND	ug/L	0.0050	0.0016	EPA-8081	ND		1
Endosulfan II	ND	ug/L	0.0050	0.0014	EPA-8081	ND		1
Endosulfan sulfate	ND	ug/L	0.0050	0.0026	EPA-8081	ND	V11	1
Endrin	ND	ug/L	0.0050	0.00082	EPA-8081	ND		1
Endrin aldehyde	ND	ug/L	0.010	0.0032	EPA-8081	ND	V11	1
Heptachlor	ND	ug/L	0.0050	0.0012	EPA-8081	ND		1
Heptachlor epoxide	ND	ug/L	0.0050	0.00099	EPA-8081	ND		1
Methoxychlor	ND	ug/L	0.0050	0.0011	EPA-8081	ND	V11	1
Toxaphene	ND	ug/L	2.0	0.42	EPA-8081	ND		1
TCMX (Surrogate)	39.9	%	54 - 150 (LCL - UCL)		EPA-8081		A20	1
Dibutyl chlorendate (Surrogate)	27.8	%	70 - 150 (LCL - UCL)		EPA-8081		A20	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081	03/18/11	03/23/11 10:49	VH1	GC-1	1.042	BUC1637

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425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

PCB Analysis (EPA Method 8082)

BCL Sample ID: 1104123-01 | **Client Sample Name:** LW-1, 3/14/2011 2:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
PCB-1016	ND	ug/L	0.24	0.024	EPA-8082	ND		1
PCB-1221	ND	ug/L	0.24	0.11	EPA-8082	ND		1
PCB-1232	ND	ug/L	0.24	0.11	EPA-8082	ND		1
PCB-1242	ND	ug/L	0.24	0.11	EPA-8082	ND		1
PCB-1248	ND	ug/L	0.24	0.030	EPA-8082	ND		1
PCB-1254	ND	ug/L	0.24	0.050	EPA-8082	ND		1
PCB-1260	ND	ug/L	0.24	0.024	EPA-8082	ND		1
Total PCB's (Summation)	ND	ug/L	0.24	0.12	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	2110	%	48 - 135 (LCL - UCL)		EPA-8082		A19	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8082	03/18/11	03/23/11 11:22	VH1	GC-6	1.190	BUC1639

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Sunnyvale, CA 94085

Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Chlorinated Herbicides (EPA Method 8151)

BCL Sample ID: 1104123-01 | **Client Sample Name:** LW-1, 3/14/2011 2:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2,4-D	ND	ug/L	0.49	0.079	EPA-8151	ND	V11	1
2,4-DB	ND	ug/L	3.7	0.39	EPA-8151	ND		1
Dalapon	ND	ug/L	12	2.9	EPA-8151	ND		1
Dicamba	ND	ug/L	0.098	0.045	EPA-8151	ND	V11	1
Dichloroprop	ND	ug/L	0.61	0.015	EPA-8151	ND		1
Dinoseb	ND	ug/L	0.24	0.049	EPA-8151	ND	V11	1
2,4,5-T	ND	ug/L	0.11	0.015	EPA-8151	ND		1
2,4,5-TP (Silvex)	ND	ug/L	0.085	0.020	EPA-8151	ND	V11	1
2,4-Dichlorophenylacetic acid (Surrogate)	35.5	%	50 - 150 (LCL - UCL)		EPA-8151		S09,V11	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8151	03/18/11	03/23/11 02:59	CC1	GC-8	1.220	BUC1644

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1104123-01 | **Client Sample Name:** LW-1, 3/14/2011 2:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	**4.4**	**ug/L**	**0.50**	**0.083**	**EPA-8260**	**ND**	**Z1**	1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-8260	ND	Z1	1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-8260	ND	Z1	1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-8260	ND	Z1	1
Bromoform	ND	ug/L	0.50	0.27	EPA-8260	ND	Z1	1
Bromomethane	ND	ug/L	1.0	0.25	EPA-8260	ND	Z1	1
n-Butylbenzene	**0.76**	**ug/L**	**0.50**	**0.11**	**EPA-8260**	**ND**	**Z1**	1
sec-Butylbenzene	**0.26**	**ug/L**	**0.50**	**0.15**	**EPA-8260**	**ND**	**J,Z1**	1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-8260	ND	Z1	1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-8260	ND	Z1	1
Chlorobenzene	**6.0**	**ug/L**	**0.50**	**0.093**	**EPA-8260**	**ND**	**Z1**	1
Chloroethane	ND	ug/L	0.50	0.14	EPA-8260	ND	Z1	1
Chloroform	ND	ug/L	0.50	0.12	EPA-8260	ND	Z1	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-8260	ND	Z1	1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-8260	ND	Z1	1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-8260	ND	Z1	1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-8260	ND	Z1	1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-8260	ND	Z1	1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-8260	ND	Z1	1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-8260	ND	Z1	1
1,2-Dichlorobenzene	**0.12**	**ug/L**	**0.50**	**0.072**	**EPA-8260**	**ND**	**J,Z1**	1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-8260	ND	Z1	1
1,4-Dichlorobenzene	**1.6**	**ug/L**	**0.50**	**0.062**	**EPA-8260**	**ND**	**Z1**	1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-8260	ND	Z1	1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-8260	ND	Z1	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-8260	ND	Z1	1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-8260	ND	Z1	1
cis-1,2-Dichloroethene	**0.30**	**ug/L**	**0.50**	**0.085**	**EPA-8260**	**ND**	**J,Z1**	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-8260	ND	Z1	1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260	ND	Z1	1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-8260	ND	Z1	1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260	ND	Z1	1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-8260	ND	Z1	1

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1104123-01 | **Client Sample Name:** LW-1, 3/14/2011 2:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-8260	ND	Z1	1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-8260	ND	Z1	1
Ethylbenzene	**5.2**	**ug/L**	**0.50**	**0.098**	**EPA-8260**	**ND**	**Z1**	1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-8260	ND	Z1	1
Isopropylbenzene	**2.9**	**ug/L**	**0.50**	**0.14**	**EPA-8260**	**ND**	**Z1**	1
p-Isopropyltoluene	**47**	**ug/L**	**0.50**	**0.12**	**EPA-8260**	**ND**	**Z1**	1
Methylene chloride	ND	ug/L	1.0	0.48	EPA-8260	ND	Z1	1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-8260	ND	Z1	1
Naphthalene	**7.4**	**ug/L**	**0.50**	**0.36**	**EPA-8260**	**ND**	**Z1**	1
n-Propylbenzene	**0.74**	**ug/L**	**0.50**	**0.11**	**EPA-8260**	**ND**	**Z1**	1
Styrene	ND	ug/L	0.50	0.068	EPA-8260	ND	Z1	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-8260	ND	Z1	1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-8260	ND	Z1	1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-8260	ND	Z1	1
Toluene	**2.1**	**ug/L**	**0.50**	**0.093**	**EPA-8260**	**ND**	**Z1**	1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-8260	ND	Z1	1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-8260	ND	Z1	1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-8260	ND	Z1	1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-8260	ND	Z1	1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-8260	ND	Z1	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-8260	ND	Z1	1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-8260	ND	Z1	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.17**	**ug/L**	**0.50**	**0.15**	**EPA-8260**	**ND**	**J,Z1**	1
1,2,4-Trimethylbenzene	**3.7**	**ug/L**	**0.50**	**0.12**	**EPA-8260**	**ND**	**Z1**	1
1,3,5-Trimethylbenzene	**0.95**	**ug/L**	**0.50**	**0.12**	**EPA-8260**	**ND**	**Z1**	1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-8260	ND	Z1	1
Total Xylenes	**24**	**ug/L**	**1.0**	**0.36**	**EPA-8260**	**ND**	**Z1**	1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-8260	ND	Z1	1
t-Butyl alcohol	**56**	**ug/L**	**10**	**9.4**	**EPA-8260**	**ND**	**Z1**	1
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-8260	ND	Z1	1
1,4-Dioxane	ND	ug/L	100	42	EPA-8260	ND	Z1	1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-8260	ND	Z1	1
Total Purgeable Petroleum Hydrocarbons	**270**	**ug/L**	**50**	**7.2**	**Luft-GC/MS**	**ND**	**Z1**	1

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1104123-01 | **Client Sample Name:** LW-1, 3/14/2011 2:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,2-Dichloroethane-d4 (Surrogate)	121	%	76 - 114 (LCL - UCL)		EPA-8260		S09	1
Toluene-d8 (Surrogate)	99.5	%	88 - 110 (LCL - UCL)		EPA-8260			1
4-Bromofluorobenzene (Surrogate)	106	%	86 - 115 (LCL - UCL)		EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	03/21/11	03/22/11 08:12	JSK	HPCHEM	1	BUC1539

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1104123-01 | **Client Sample Name:** LW-1, 3/14/2011 2:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	2.0	0.24	EPA-8270C	ND		1
Acenaphthylene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Aldrin	ND	ug/L	2.0	0.35	EPA-8270C	ND		1
Aniline	ND	ug/L	5.0	0.69	EPA-8270C	ND		1
Anthracene	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Benzidine	ND	ug/L	20	7.1	EPA-8270C	ND		1
Benzo[a]anthracene	ND	ug/L	2.0	0.38	EPA-8270C	ND		1
Benzo[b]fluoranthene	ND	ug/L	2.0	0.41	EPA-8270C	ND		1
Benzo[k]fluoranthene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
Benzo[a]pyrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Benzo[g,h,i]perylene	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
Benzoic acid	ND	ug/L	10	5.8	EPA-8270C	ND		1
Benzyl alcohol	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
Benzyl butyl phthalate	ND	ug/L	2.0	0.47	EPA-8270C	ND		1
alpha-BHC	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
beta-BHC	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
delta-BHC	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
gamma-BHC (Lindane)	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
bis(2-Chloroethoxy)methane	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
bis(2-Chloroethyl) ether	ND	ug/L	2.0	0.68	EPA-8270C	ND		1
bis(2-Chloroisopropyl)ether	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
bis(2-Ethylhexyl)phthalate	**3.0**	**ug/L**	**5.0**	**3.0**	**EPA-8270C**	**ND**	**J**	1
4-Bromophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
4-Chloroaniline	ND	ug/L	2.0	0.69	EPA-8270C	ND		1
2-Chloronaphthalene	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
4-Chlorophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
Chrysene	ND	ug/L	2.0	0.63	EPA-8270C	ND		1
4,4'-DDD	ND	ug/L	2.0	0.48	EPA-8270C	ND		1
4,4'-DDE	ND	ug/L	3.0	0.41	EPA-8270C	ND		1
4,4'-DDT	ND	ug/L	2.0	0.43	EPA-8270C	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	3.0	0.26	EPA-8270C	ND		1
Dibenzofuran	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
1,2-Dichlorobenzene	ND	ug/L	2.0	0.37	EPA-8270C	ND		1

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1104123-01 | **Client Sample Name:** LW-1, 3/14/2011 2:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,3-Dichlorobenzene	ND	ug/L	2.0	0.35	EPA-8270C	ND		1
1,4-Dichlorobenzene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
3,3-Dichlorobenzidine	ND	ug/L	10	8.2	EPA-8270C	ND		1
Dieldrin	ND	ug/L	3.0	0.41	EPA-8270C	ND		1
Diethyl phthalate	ND	ug/L	2.0	0.33	EPA-8270C	ND		1
Dimethyl phthalate	ND	ug/L	2.0	0.39	EPA-8270C	ND		1
Di-n-butyl phthalate	ND	ug/L	2.0	0.39	EPA-8270C	ND		1
2,4-Dinitrotoluene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
2,6-Dinitrotoluene	ND	ug/L	2.0	0.41	EPA-8270C	ND		1
Di-n-octyl phthalate	ND	ug/L	2.0	0.46	EPA-8270C	ND		1
1,2-Diphenylhydrazine	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
Endosulfan I	ND	ug/L	10	1.7	EPA-8270C	ND		1
Endosulfan II	ND	ug/L	10	1.2	EPA-8270C	ND		1
Endosulfan sulfate	ND	ug/L	3.0	0.58	EPA-8270C	ND		1
Endrin	ND	ug/L	2.0	1.1	EPA-8270C	ND		1
Endrin aldehyde	ND	ug/L	10	0.52	EPA-8270C	ND		1
Fluoranthene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Fluorene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Heptachlor	ND	ug/L	2.0	0.32	EPA-8270C	ND		1
Heptachlor epoxide	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
Hexachlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Hexachlorobutadiene	ND	ug/L	2.0	0.24	EPA-8270C	ND		1
Hexachlorocyclopentadiene	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Hexachloroethane	ND	ug/L	2.0	0.32	EPA-8270C	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
Isophorone	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
2-Methylnaphthalene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Naphthalene	**5.0**	**ug/L**	**2.0**	**0.21**	**EPA-8270C**	**ND**		1
2-Naphthylamine	ND	ug/L	20	4.8	EPA-8270C	ND		1
2-Nitroaniline	ND	ug/L	2.0	0.33	EPA-8270C	ND		1
3-Nitroaniline	ND	ug/L	2.0	0.66	EPA-8270C	ND		1
4-Nitroaniline	ND	ug/L	5.0	0.87	EPA-8270C	ND		1
Nitrobenzene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1104123-01 | **Client Sample Name:** LW-1, 3/14/2011 2:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	2.0	0.61	EPA-8270C	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.0	1.3	EPA-8270C	ND		1
N-Nitrosodiphenylamine	ND	ug/L	2.0	0.44	EPA-8270C	ND		1
Phenanthrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Pyrene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
4-Chloro-3-methylphenol	ND	ug/L	5.0	0.40	EPA-8270C	ND		1
2-Chlorophenol	ND	ug/L	2.0	0.37	EPA-8270C	ND		1
2,4-Dichlorophenol	ND	ug/L	2.0	0.43	EPA-8270C	ND		1
2,4-Dimethylphenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	10	0.34	EPA-8270C	ND		1
2,4-Dinitrophenol	ND	ug/L	10	0.20	EPA-8270C	ND		1
2-Methylphenol	ND	ug/L	2.0	1.0	EPA-8270C	ND		1
3- & 4-Methylphenol	ND	ug/L	2.0	1.6	EPA-8270C	ND		1
2-Nitrophenol	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
4-Nitrophenol	ND	ug/L	2.0	0.73	EPA-8270C	ND		1
Pentachlorophenol	ND	ug/L	10	0.79	EPA-8270C	ND		1
Phenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.31	EPA-8270C	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	0.60	EPA-8270C	ND		1
2-Fluorophenol (Surrogate)	65.2	%	28 - 85 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	52.3	%	13 - 59 (LCL - UCL)		EPA-8270C			1
Nitrobenzene-d5 (Surrogate)	75.7	%	34 - 119 (LCL - UCL)		EPA-8270C			1
2-Fluorobiphenyl (Surrogate)	72.2	%	24 - 128 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	87.2	%	35 - 114 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	95.5	%	10 - 185 (LCL - UCL)		EPA-8270C			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	03/18/11	03/23/11 16:27	SKC	MS-B1	1.043	BUC1638

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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

1,4-Dioxane (EPA Method 8270C)

BCL Sample ID: 1104123-01 | **Client Sample Name:** LW-1, 3/14/2011 2:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,4-Dioxane	**33**	**ug/L**	**1.1**	**0.29**	**EPA-8270C**	**ND**		1
Naphthalene-d8 (Surrogate)	113	%	75 - 132 (LCL - UCL)		EPA-8270C			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	03/21/11	03/23/11 20:26	RDS	HPCHEM	1.124	BUC1643

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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1104123-01 | **Client Sample Name:** LW-1, 3/14/2011 2:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - C8 - C9	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C10 - C11	**220**	**ug/L**	**10**	**5.0**	**EPA-8015CC**	**ND**		1
TPH - C12 - C14	**740**	**ug/L**	**10**	**5.0**	**EPA-8015CC**	**ND**		1
TPH - C15 - C16	**300**	**ug/L**	**10**	**5.0**	**EPA-8015CC**	**ND**		1
TPH - C17 - C18	**390**	**ug/L**	**10**	**5.0**	**EPA-8015CC**	**ND**		1
TPH - C19 - C20	**350**	**ug/L**	**10**	**5.0**	**EPA-8015CC**	**ND**		1
TPH - C21 - C22	**310**	**ug/L**	**10**	**5.0**	**EPA-8015CC**	**ND**		1
TPH - C23 - C28	**750**	**ug/L**	**10**	**5.0**	**EPA-8015CC**	**ND**		1
TPH - C29 - C32	**280**	**ug/L**	**10**	**5.0**	**EPA-8015CC**	**ND**		1
TPH - C33 - C36	**190**	**ug/L**	**10**	**5.0**	**EPA-8015CC**	**ND**		1
TPH - C37 - C40	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C41 - C43	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C44 plus	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH (Total)	**3500**	**ug/L**	**200**	**100**	**EPA-8015CC**	**ND**		1
Tetracosane (Surrogate)	74.1	%	37 - 134 (LCL - UCL)		EPA-8015CC			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015CC	03/19/11	03/23/11 11:25	MWB	GC-13	1.042	BUC1710

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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Water Analysis (General Chemistry)

BCL Sample ID: 1104123-01 | **Client Sample Name:** LW-1, 3/14/2011 2:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Calcium	**23**	**mg/L**	**0.50**	**0.12**	**EPA-6010B**	**ND**	**A10**	1
Total Magnesium	**35**	**mg/L**	**0.25**	**0.080**	**EPA-6010B**	**ND**	**A10**	1
Total Sodium	**1900**	**mg/L**	**2.5**	**0.38**	**EPA-6010B**	**ND**	**A01**	1
Total Potassium	**430**	**mg/L**	**5.0**	**0.70**	**EPA-6010B**	**ND**	**A10**	1
Bicarbonate Alkalinity as CaCO3	**3300**	**mg/L**	**8.2**	**8.2**	**EPA-310.1**	**ND**		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	EPA-310.1	ND		2
Chloride	**1400**	**mg/L**	**2.5**	**0.25**	**EPA-300.0**	**ND**	**A01**	3
Fluoride	**0.54**	**mg/L**	**0.25**	**0.060**	**EPA-300.0**	**ND**	**A01**	3
Nitrate as N	ND	mg/L	0.50	0.070	EPA-300.0	ND	A01	3
Sulfate	**3.0**	**mg/L**	**5.0**	**0.50**	**EPA-300.0**	**ND**	**J,A01**	3
Total Dissolved Solids @ 180 C	**5800**	**mg/L**	**500**	**500**	**EPA-160.1**	**ND**		4
Total Cyanide	**0.061**	**mg/L**	**0.0050**	**0.0016**	**EPA-335.4**	**ND**		5
Nitrite as N	ND	mg/L	0.050	0.0081	EPA-353.2	0.012		6
Total Sulfide	ND	mg/L	2.0	1.0	EPA-376.2	ND	A10	7
Non-Volatile Organic Carbon	**260**	**mg/L**	**30**	**6.2**	**EPA-415.1**	**14**	**A01**	8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	03/24/11	03/25/11 09:03	ARD	PE-OP1	5	BUC1753
2	EPA-310.1	03/16/11	03/16/11 11:47	RML	MET-1	2	BUC1188
3	EPA-300.0	03/15/11	03/16/11 02:54	LRS	IC5	5	BUC1137
4	EPA-160.1	03/16/11	03/16/11 08:15	NW1	MANUAL	50	BUC1147
5	EPA-335.4	03/17/11	03/17/11 16:30	TDC	KONE-1	1	BUC1266
6	EPA-353.2	03/15/11	03/15/11 14:19	TDC	KONE-1	1	BUC1104
7	EPA-376.2	03/17/11	03/17/11 02:00	MRM	SPEC05	20	BUC1341
8	EPA-415.1	03/22/11	03/23/11 12:25	CDR	TOC2	100	BUC1562

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Sunnyvale, CA 94085

Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Water Analysis (Metals)

BCL Sample ID: 1104123-01 | **Client Sample Name:** LW-1, 3/14/2011 2:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Antimony	ND	ug/L	500	65	EPA-6010B	ND	A10	1
Total Arsenic	**100**	**ug/L**	**250**	**49**	**EPA-6010B**	**ND**	**J,A10**	1
Total Barium	**1200**	**ug/L**	**50**	**5.0**	**EPA-6010B**	**ND**	**A10**	1
Total Beryllium	ND	ug/L	50	5.0	EPA-6010B	ND	A10	1
Total Cadmium	**7.0**	**ug/L**	**50**	**5.0**	**EPA-6010B**	**ND**	**J,A10**	1
Total Chromium	**210**	**ug/L**	**50**	**5.0**	**EPA-6010B**	**ND**	**A10**	1
Total Cobalt	**42**	**ug/L**	**250**	**25**	**EPA-6010B**	**ND**	**J,A10**	1
Total Copper	**870**	**ug/L**	**50**	**12**	**EPA-6010B**	**ND**	**A10**	1
Total Lead	**2000**	**ug/L**	**250**	**25**	**EPA-6010B**	**ND**	**A10**	1
Total Mercury	**1.8**	**ug/L**	**0.20**	**0.034**	**EPA-7470A**	**ND**		2
Total Molybdenum	**80**	**ug/L**	**250**	**25**	**EPA-6010B**	**ND**	**J,A10**	1
Total Nickel	**210**	**ug/L**	**50**	**6.0**	**EPA-6010B**	**ND**	**A10**	1
Total Selenium	ND	ug/L	500	75	EPA-6010B	ND	A10	1
Total Silver	**9.5**	**ug/L**	**50**	**5.0**	**EPA-6010B**	**6.8**	**J,A10**	1
Total Thallium	ND	ug/L	500	85	EPA-6010B	ND	A10	1
Total Vanadium	**45**	**ug/L**	**50**	**8.0**	**EPA-6010B**	**ND**	**J,A10**	1
Total Zinc	**3300**	**ug/L**	**250**	**14**	**EPA-6010B**	**ND**	**A10**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	03/24/11	03/25/11 09:03	ARD	PE-OP1	5	BUC1753
2	EPA-7470A	03/24/11	03/25/11 10:30	MEV	CETAC1	1	BUC1732

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425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Organochlorine Pesticides (EPA Method 8081)

BCL Sample ID: 1104123-02 | **Client Sample Name:** LW-2, 3/14/2011 11:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	ug/L	0.0050	0.0013	EPA-8081	ND		1
alpha-BHC	ND	ug/L	0.0050	0.0011	EPA-8081	ND		1
beta-BHC	ND	ug/L	0.0050	0.0021	EPA-8081	ND		1
delta-BHC	ND	ug/L	0.0050	0.0014	EPA-8081	ND		1
gamma-BHC (Lindane)	ND	ug/L	0.0050	0.00094	EPA-8081	ND		1
Chlordane (Technical)	ND	ug/L	0.50	0.38	EPA-8081	ND		1
4,4'-DDD	ND	ug/L	0.0050	0.0017	EPA-8081	ND		1
4,4'-DDE	ND	ug/L	0.0050	0.0019	EPA-8081	ND		1
4,4'-DDT	ND	ug/L	0.0050	0.00076	EPA-8081	ND	V11	1
Dieldrin	ND	ug/L	0.0050	0.0012	EPA-8081	ND		1
Endosulfan I	ND	ug/L	0.0050	0.0016	EPA-8081	ND		1
Endosulfan II	ND	ug/L	0.0050	0.0014	EPA-8081	ND		1
Endosulfan sulfate	ND	ug/L	0.0050	0.0026	EPA-8081	ND	V11	1
Endrin	ND	ug/L	0.0050	0.00082	EPA-8081	ND		1
Endrin aldehyde	ND	ug/L	0.010	0.0032	EPA-8081	ND	V11	1
Heptachlor	ND	ug/L	0.0050	0.0012	EPA-8081	ND		1
Heptachlor epoxide	ND	ug/L	0.0050	0.00099	EPA-8081	ND		1
Methoxychlor	ND	ug/L	0.0050	0.0011	EPA-8081	ND	V11	1
Toxaphene	ND	ug/L	2.0	0.42	EPA-8081	ND		1
TCMX (Surrogate)	72.8	%	54 - 150 (LCL - UCL)		EPA-8081			1
Dibutyl chlorendate (Surrogate)	80.9	%	70 - 150 (LCL - UCL)		EPA-8081			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081	03/18/11	03/23/11 11:03	VH1	GC-1	1.064	BUC1637

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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

PCB Analysis (EPA Method 8082)

BCL Sample ID: 1104123-02 | **Client Sample Name:** LW-2, 3/14/2011 11:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
PCB-1016	ND	ug/L	0.22	0.022	EPA-8082	ND		1
PCB-1221	ND	ug/L	0.22	0.099	EPA-8082	ND		1
PCB-1232	ND	ug/L	0.22	0.10	EPA-8082	ND		1
PCB-1242	ND	ug/L	0.22	0.11	EPA-8082	ND		1
PCB-1248	ND	ug/L	0.22	0.028	EPA-8082	ND		1
PCB-1254	ND	ug/L	0.22	0.047	EPA-8082	ND		1
PCB-1260	ND	ug/L	0.22	0.022	EPA-8082	ND		1
Total PCB's (Summation)	ND	ug/L	0.22	0.11	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	69.0	%	48 - 135 (LCL - UCL)		EPA-8082			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8082	03/18/11	03/23/11 11:40	VH1	GC-6	1.111	BUC1639

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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Chlorinated Herbicides (EPA Method 8151)

BCL Sample ID: 1104123-02 | **Client Sample Name:** LW-2, 3/14/2011 11:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2,4-D	ND	ug/L	0.40	0.065	EPA-8151	ND	V11	1
2,4-DB	ND	ug/L	3.0	0.32	EPA-8151	ND		1
Dalapon	ND	ug/L	10	2.4	EPA-8151	ND		1
Dicamba	ND	ug/L	0.080	0.037	EPA-8151	ND	V11	1
Dichloroprop	ND	ug/L	0.50	0.012	EPA-8151	ND		1
Dinoseb	ND	ug/L	0.20	0.040	EPA-8151	ND	V11	1
2,4,5-T	ND	ug/L	0.090	0.012	EPA-8151	ND		1
2,4,5-TP (Silvex)	ND	ug/L	0.070	0.016	EPA-8151	ND	V11	1
2,4-Dichlorophenylacetic acid (Surrogate)	87.3	%	50 - 150 (LCL - UCL)		EPA-8151		V11	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8151	03/18/11	03/23/11 03:21	CC1	GC-8	1.042	BUC1644

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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1104123-02 | **Client Sample Name:** LW-2, 3/14/2011 11:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	**0.68**	**ug/L**	**0.50**	**0.083**	**EPA-8260**	**ND**		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-8260	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-8260	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-8260	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-8260	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-8260	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-8260	ND		1
sec-Butylbenzene	**0.30**	**ug/L**	**0.50**	**0.15**	**EPA-8260**	**ND**	**J**	1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-8260	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-8260	ND		1
Chlorobenzene	**12**	**ug/L**	**0.50**	**0.093**	**EPA-8260**	**ND**		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-8260	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-8260	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-8260	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-8260	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-8260	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-8260	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-8260	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-8260	ND		1
1,2-Dichlorobenzene	**0.21**	**ug/L**	**0.50**	**0.072**	**EPA-8260**	**ND**	**J**	1
1,3-Dichlorobenzene	**0.20**	**ug/L**	**0.50**	**0.15**	**EPA-8260**	**ND**	**J**	1
1,4-Dichlorobenzene	**4.3**	**ug/L**	**0.50**	**0.062**	**EPA-8260**	**ND**		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-8260	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-8260	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-8260	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-8260	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-8260	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-8260	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-8260	ND		1

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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1104123-02 | **Client Sample Name:** LW-2, 3/14/2011 11:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-8260	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-8260	ND		1
Ethylbenzene	**0.49**	**ug/L**	**0.50**	**0.098**	**EPA-8260**	**ND**	**J**	1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-8260	ND		1
Isopropylbenzene	**0.75**	**ug/L**	**0.50**	**0.14**	**EPA-8260**	**ND**		1
p-Isopropyltoluene	**0.18**	**ug/L**	**0.50**	**0.12**	**EPA-8260**	**ND**	**J**	1
Methylene chloride	ND	ug/L	1.0	0.48	EPA-8260	ND		1
Methyl t-butyl ether	**0.20**	**ug/L**	**0.50**	**0.11**	**EPA-8260**	**ND**	**J**	1
Naphthalene	**4.8**	**ug/L**	**0.50**	**0.36**	**EPA-8260**	**ND**		1
n-Propylbenzene	**1.6**	**ug/L**	**0.50**	**0.11**	**EPA-8260**	**ND**		1
Styrene	ND	ug/L	0.50	0.068	EPA-8260	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-8260	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-8260	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-8260	ND		1
Toluene	**0.26**	**ug/L**	**0.50**	**0.093**	**EPA-8260**	**ND**	**J**	1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-8260	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-8260	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-8260	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-8260	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-8260	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-8260	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-8260	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.31**	**ug/L**	**0.50**	**0.15**	**EPA-8260**	**ND**	**J**	1
1,2,4-Trimethylbenzene	**3.0**	**ug/L**	**0.50**	**0.12**	**EPA-8260**	**ND**		1
1,3,5-Trimethylbenzene	**1.0**	**ug/L**	**0.50**	**0.12**	**EPA-8260**	**ND**		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-8260	ND		1
Total Xylenes	**1.6**	**ug/L**	**1.0**	**0.36**	**EPA-8260**	**ND**		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-8260	ND		1
1,4-Dioxane	ND	ug/L	100	42	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	**170**	**ug/L**	**50**	**7.2**	**Luft-GC/MS**	**ND**		1

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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1104123-02 | **Client Sample Name:** LW-2, 3/14/2011 11:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,2-Dichloroethane-d4 (Surrogate)	113	%	76 - 114 (LCL - UCL)		EPA-8260			1
Toluene-d8 (Surrogate)	98.6	%	88 - 110 (LCL - UCL)		EPA-8260			1
4-Bromofluorobenzene (Surrogate)	109	%	86 - 115 (LCL - UCL)		EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	03/21/11	03/22/11 07:51	JSK	HPCHEM	1	BUC1539

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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1104123-02 | **Client Sample Name:** LW-2, 3/14/2011 11:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	2.0	0.24	EPA-8270C	ND		1
Acenaphthylene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Aldrin	ND	ug/L	2.0	0.35	EPA-8270C	ND		1
Aniline	ND	ug/L	5.0	0.69	EPA-8270C	ND		1
Anthracene	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Benzidine	ND	ug/L	20	7.1	EPA-8270C	ND		1
Benzo[a]anthracene	ND	ug/L	2.0	0.38	EPA-8270C	ND		1
Benzo[b]fluoranthene	ND	ug/L	2.0	0.41	EPA-8270C	ND		1
Benzo[k]fluoranthene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
Benzo[a]pyrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Benzo[g,h,i]perylene	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
Benzoic acid	ND	ug/L	10	5.8	EPA-8270C	ND		1
Benzyl alcohol	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
Benzyl butyl phthalate	ND	ug/L	2.0	0.47	EPA-8270C	ND		1
alpha-BHC	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
beta-BHC	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
delta-BHC	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
gamma-BHC (Lindane)	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
bis(2-Chloroethoxy)methane	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
bis(2-Chloroethyl) ether	ND	ug/L	2.0	0.68	EPA-8270C	ND		1
bis(2-Chloroisopropyl)ether	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
bis(2-Ethylhexyl)phthalate	**3.3**	**ug/L**	**5.0**	**3.0**	**EPA-8270C**	**ND**	**J**	1
4-Bromophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
4-Chloroaniline	ND	ug/L	2.0	0.69	EPA-8270C	ND		1
2-Chloronaphthalene	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
4-Chlorophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
Chrysene	ND	ug/L	2.0	0.63	EPA-8270C	ND		1
4,4'-DDD	ND	ug/L	2.0	0.48	EPA-8270C	ND		1
4,4'-DDE	ND	ug/L	3.0	0.41	EPA-8270C	ND		1
4,4'-DDT	ND	ug/L	2.0	0.43	EPA-8270C	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	3.0	0.26	EPA-8270C	ND		1
Dibenzofuran	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
1,2-Dichlorobenzene	ND	ug/L	2.0	0.37	EPA-8270C	ND		1

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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1104123-02 | **Client Sample Name:** LW-2, 3/14/2011 11:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,3-Dichlorobenzene	ND	ug/L	2.0	0.35	EPA-8270C	ND		1
1,4-Dichlorobenzene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
3,3-Dichlorobenzidine	ND	ug/L	10	8.2	EPA-8270C	ND		1
Dieldrin	ND	ug/L	3.0	0.41	EPA-8270C	ND		1
Diethyl phthalate	ND	ug/L	2.0	0.33	EPA-8270C	ND		1
Dimethyl phthalate	ND	ug/L	2.0	0.39	EPA-8270C	ND		1
Di-n-butyl phthalate	ND	ug/L	2.0	0.39	EPA-8270C	ND		1
2,4-Dinitrotoluene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
2,6-Dinitrotoluene	ND	ug/L	2.0	0.41	EPA-8270C	ND		1
Di-n-octyl phthalate	ND	ug/L	2.0	0.46	EPA-8270C	ND		1
1,2-Diphenylhydrazine	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
Endosulfan I	ND	ug/L	10	1.7	EPA-8270C	ND		1
Endosulfan II	ND	ug/L	10	1.2	EPA-8270C	ND		1
Endosulfan sulfate	ND	ug/L	3.0	0.58	EPA-8270C	ND		1
Endrin	ND	ug/L	2.0	1.1	EPA-8270C	ND		1
Endrin aldehyde	ND	ug/L	10	0.52	EPA-8270C	ND		1
Fluoranthene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Fluorene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Heptachlor	ND	ug/L	2.0	0.32	EPA-8270C	ND		1
Heptachlor epoxide	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
Hexachlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Hexachlorobutadiene	ND	ug/L	2.0	0.24	EPA-8270C	ND		1
Hexachlorocyclopentadiene	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Hexachloroethane	ND	ug/L	2.0	0.32	EPA-8270C	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
Isophorone	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
2-Methylnaphthalene	**1.9**	**ug/L**	**2.0**	**0.28**	**EPA-8270C**	**ND**	**J**	1
Naphthalene	**3.7**	**ug/L**	**2.0**	**0.21**	**EPA-8270C**	**ND**		1
2-Naphthylamine	ND	ug/L	20	4.8	EPA-8270C	ND		1
2-Nitroaniline	ND	ug/L	2.0	0.33	EPA-8270C	ND		1
3-Nitroaniline	ND	ug/L	2.0	0.66	EPA-8270C	ND		1
4-Nitroaniline	ND	ug/L	5.0	0.87	EPA-8270C	ND		1
Nitrobenzene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1

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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1104123-02 | **Client Sample Name:** LW-2, 3/14/2011 11:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	2.0	0.61	EPA-8270C	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.0	1.3	EPA-8270C	ND		1
N-Nitrosodiphenylamine	ND	ug/L	2.0	0.44	EPA-8270C	ND		1
Phenanthrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Pyrene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
4-Chloro-3-methylphenol	ND	ug/L	5.0	0.40	EPA-8270C	ND		1
2-Chlorophenol	ND	ug/L	2.0	0.37	EPA-8270C	ND		1
2,4-Dichlorophenol	ND	ug/L	2.0	0.43	EPA-8270C	ND		1
2,4-Dimethylphenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	10	0.34	EPA-8270C	ND		1
2,4-Dinitrophenol	ND	ug/L	10	0.20	EPA-8270C	ND		1
2-Methylphenol	ND	ug/L	2.0	1.0	EPA-8270C	ND		1
3- & 4-Methylphenol	ND	ug/L	2.0	1.6	EPA-8270C	ND		1
2-Nitrophenol	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
4-Nitrophenol	ND	ug/L	2.0	0.73	EPA-8270C	ND		1
Pentachlorophenol	ND	ug/L	10	0.79	EPA-8270C	ND		1
Phenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.31	EPA-8270C	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	0.60	EPA-8270C	ND		1
2-Fluorophenol (Surrogate)	61.9	%	28 - 85 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	44.6	%	13 - 59 (LCL - UCL)		EPA-8270C			1
Nitrobenzene-d5 (Surrogate)	70.0	%	34 - 119 (LCL - UCL)		EPA-8270C			1
2-Fluorobiphenyl (Surrogate)	60.1	%	24 - 128 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	88.1	%	35 - 114 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	85.8	%	10 - 185 (LCL - UCL)		EPA-8270C			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	03/18/11	03/23/11 16:54	SKC	MS-B1	1.078	BUC1638

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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

1,4-Dioxane (EPA Method 8270C)

BCL Sample ID: 1104123-02 | **Client Sample Name:** LW-2, 3/14/2011 11:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,4-Dioxane	**8.5**	**ug/L**	**1.0**	**0.26**	**EPA-8270C**	**ND**		1
Naphthalene-d8 (Surrogate)	117	%	75 - 132 (LCL - UCL)		EPA-8270C			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	03/21/11	03/23/11 20:49	RDS	HPCHEM	1.099	BUC1643

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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1104123-02 | **Client Sample Name:** LW-2, 3/14/2011 11:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - C8 - C9	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C10 - C11	**170**	**ug/L**	**10**	**5.0**	**EPA-8015CC**	**ND**		1
TPH - C12 - C14	**390**	**ug/L**	**10**	**5.0**	**EPA-8015CC**	**ND**		1
TPH - C15 - C16	**210**	**ug/L**	**10**	**5.0**	**EPA-8015CC**	**ND**		1
TPH - C17 - C18	**290**	**ug/L**	**10**	**5.0**	**EPA-8015CC**	**ND**		1
TPH - C19 - C20	**240**	**ug/L**	**10**	**5.0**	**EPA-8015CC**	**ND**		1
TPH - C21 - C22	**220**	**ug/L**	**10**	**5.0**	**EPA-8015CC**	**ND**		1
TPH - C23 - C28	**530**	**ug/L**	**10**	**5.0**	**EPA-8015CC**	**ND**		1
TPH - C29 - C32	**210**	**ug/L**	**10**	**5.0**	**EPA-8015CC**	**ND**		1
TPH - C33 - C36	**100**	**ug/L**	**10**	**5.0**	**EPA-8015CC**	**ND**		1
TPH - C37 - C40	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C41 - C43	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C44 plus	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH (Total)	**2400**	**ug/L**	**200**	**100**	**EPA-8015CC**	**ND**		1
Tetracosane (Surrogate)	91.4	%	37 - 134 (LCL - UCL)		EPA-8015CC			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015CC	03/19/11	03/23/11 11:48	MWB	GC-13	1.053	BUC1710

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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Water Analysis (General Chemistry)

BCL Sample ID: 1104123-02 | **Client Sample Name:** LW-2, 3/14/2011 11:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Calcium	**51**	**mg/L**	**0.50**	**0.12**	**EPA-6010B**	**ND**	**A10**	1
Total Magnesium	**93**	**mg/L**	**0.25**	**0.080**	**EPA-6010B**	**ND**	**A10**	1
Total Sodium	**1300**	**mg/L**	**2.5**	**0.38**	**EPA-6010B**	**ND**	**A01**	1
Total Potassium	**250**	**mg/L**	**5.0**	**0.70**	**EPA-6010B**	**ND**	**A10**	1
Bicarbonate Alkalinity as CaCO3	**1800**	**mg/L**	**8.2**	**8.2**	**EPA-310.1**	**ND**		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	EPA-310.1	ND		2
Chloride	**1600**	**mg/L**	**2.5**	**0.25**	**EPA-300.0**	**ND**	**A01**	3
Fluoride	**0.28**	**mg/L**	**0.25**	**0.060**	**EPA-300.0**	**ND**	**A01**	3
Nitrate as N	ND	mg/L	0.50	0.070	EPA-300.0	ND	A01	3
Sulfate	**10**	**mg/L**	**5.0**	**0.50**	**EPA-300.0**	**ND**	**A01**	3
Total Dissolved Solids @ 180 C	**4200**	**mg/L**	**500**	**500**	**EPA-160.1**	**ND**		4
Total Cyanide	**0.017**	**mg/L**	**0.0050**	**0.0016**	**EPA-335.4**	**ND**		5
Nitrite as N	**0.0099**	**mg/L**	**0.050**	**0.0081**	**EPA-353.2**	**0.012**	**J**	6
Total Sulfide	**0.12**	**mg/L**	**0.10**	**0.050**	**EPA-376.2**	**ND**		7
Non-Volatile Organic Carbon	**100**	**mg/L**	**15**	**3.1**	**EPA-415.1**	**7.0**	**A01**	8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	03/24/11	03/25/11 09:05	ARD	PE-OP1	5	BUC1753
2	EPA-310.1	03/16/11	03/16/11 12:06	RML	MET-1	2	BUC1188
3	EPA-300.0	03/15/11	03/16/11 03:09	LD1	IC5	5	BUC1137
4	EPA-160.1	03/16/11	03/16/11 08:15	NW1	MANUAL	50	BUC1147
5	EPA-335.4	03/17/11	03/17/11 16:09	TDC	KONE-1	1	BUC1266
6	EPA-353.2	03/15/11	03/15/11 14:19	TDC	KONE-1	1	BUC1104
7	EPA-376.2	03/17/11	03/17/11 02:00	MRM	SPEC05	1	BUC1341
8	EPA-415.1	03/22/11	03/23/11 12:38	CDR	TOC2	50	BUC1562

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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Water Analysis (Metals)

BCL Sample ID: 1104123-02 | **Client Sample Name:** LW-2, 3/14/2011 11:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Antimony	ND	ug/L	500	65	EPA-6010B	ND	A10	1
Total Arsenic	ND	ug/L	250	49	EPA-6010B	ND	A10	1
Total Barium	**860**	**ug/L**	**50**	**5.0**	**EPA-6010B**	**ND**	**A10**	1
Total Beryllium	ND	ug/L	50	5.0	EPA-6010B	ND	A10	1
Total Cadmium	ND	ug/L	50	5.0	EPA-6010B	ND	A10	1
Total Chromium	**8.3**	**ug/L**	**50**	**5.0**	**EPA-6010B**	**ND**	**J,A10**	1
Total Cobalt	ND	ug/L	250	25	EPA-6010B	ND	A10	1
Total Copper	ND	ug/L	50	12	EPA-6010B	ND	A10	1
Total Lead	ND	ug/L	250	25	EPA-6010B	ND	A10	1
Total Mercury	**0.14**	**ug/L**	**0.20**	**0.034**	**EPA-7470A**	**ND**	**J**	2
Total Molybdenum	ND	ug/L	250	25	EPA-6010B	ND	A10	1
Total Nickel	**21**	**ug/L**	**50**	**6.0**	**EPA-6010B**	**ND**	**J,A10**	1
Total Selenium	ND	ug/L	500	75	EPA-6010B	ND	A10	1
Total Silver	ND	ug/L	50	5.0	EPA-6010B	6.8	A10	1
Total Thallium	ND	ug/L	500	85	EPA-6010B	ND	A10	1
Total Vanadium	ND	ug/L	50	8.0	EPA-6010B	ND	A10	1
Total Zinc	**160**	**ug/L**	**250**	**14**	**EPA-6010B**	**ND**	**J,A10**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	03/24/11	03/25/11 09:05	ARD	PE-OP1	5	BUC1753
2	EPA-7470A	03/24/11	03/25/11 10:32	MEV	CETAC1	1	BUC1732

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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Organochlorine Pesticides (EPA Method 8081)

BCL Sample ID: 1104123-03 | **Client Sample Name:** LW-3, 3/14/2011 12:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	ug/L	0.0050	0.0013	EPA-8081	ND		1
alpha-BHC	ND	ug/L	0.0050	0.0011	EPA-8081	ND		1
beta-BHC	ND	ug/L	0.0050	0.0021	EPA-8081	ND		1
delta-BHC	ND	ug/L	0.0050	0.0014	EPA-8081	ND		1
gamma-BHC (Lindane)	ND	ug/L	0.0050	0.00094	EPA-8081	ND		1
Chlordane (Technical)	ND	ug/L	0.50	0.38	EPA-8081	ND		1
4,4'-DDD	ND	ug/L	0.0050	0.0017	EPA-8081	ND		1
4,4'-DDE	ND	ug/L	0.0050	0.0019	EPA-8081	ND		1
4,4'-DDT	ND	ug/L	0.0050	0.00076	EPA-8081	ND	V11	1
Dieldrin	ND	ug/L	0.0050	0.0012	EPA-8081	ND		1
Endosulfan I	ND	ug/L	0.0050	0.0016	EPA-8081	ND		1
Endosulfan II	ND	ug/L	0.0050	0.0014	EPA-8081	ND		1
Endosulfan sulfate	ND	ug/L	0.0050	0.0026	EPA-8081	ND	V11	1
Endrin	ND	ug/L	0.0050	0.00082	EPA-8081	ND		1
Endrin aldehyde	ND	ug/L	0.010	0.0032	EPA-8081	ND	V11	1
Heptachlor	ND	ug/L	0.0050	0.0012	EPA-8081	ND		1
Heptachlor epoxide	ND	ug/L	0.0050	0.00099	EPA-8081	ND		1
Methoxychlor	ND	ug/L	0.0050	0.0011	EPA-8081	ND	V11	1
Toxaphene	ND	ug/L	2.0	0.42	EPA-8081	ND		1
TCMX (Surrogate)	75.2	%	54 - 150 (LCL - UCL)		EPA-8081			1
Dibutyl chlorendate (Surrogate)	73.1	%	70 - 150 (LCL - UCL)		EPA-8081			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081	03/18/11	03/23/11 11:18	VH1	GC-1	1.031	BUC1637

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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

PCB Analysis (EPA Method 8082)

BCL Sample ID: 1104123-03 | **Client Sample Name:** LW-3, 3/14/2011 12:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
PCB-1016	ND	ug/L	0.20	0.020	EPA-8082	ND		1
PCB-1221	ND	ug/L	0.20	0.089	EPA-8082	ND		1
PCB-1232	ND	ug/L	0.20	0.090	EPA-8082	ND		1
PCB-1242	ND	ug/L	0.20	0.095	EPA-8082	ND		1
PCB-1248	ND	ug/L	0.20	0.025	EPA-8082	ND		1
PCB-1254	ND	ug/L	0.20	0.042	EPA-8082	ND		1
PCB-1260	ND	ug/L	0.20	0.020	EPA-8082	ND		1
Total PCB's (Summation)	ND	ug/L	0.20	0.10	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	38.0	%	48 - 135 (LCL - UCL)		EPA-8082		A20	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8082	03/18/11	03/23/11 11:57	VH1	GC-6	1.064	BUC1639

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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Chlorinated Herbicides (EPA Method 8151)

BCL Sample ID: 1104123-03 | **Client Sample Name:** LW-3, 3/14/2011 12:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2,4-D	ND	ug/L	0.40	0.065	EPA-8151	ND	V11	1
2,4-DB	ND	ug/L	3.0	0.32	EPA-8151	ND		1
Dalapon	ND	ug/L	10	2.4	EPA-8151	ND		1
Dicamba	ND	ug/L	0.080	0.037	EPA-8151	ND	V11	1
Dichloroprop	ND	ug/L	0.50	0.012	EPA-8151	ND		1
Dinoseb	ND	ug/L	0.20	0.040	EPA-8151	ND	V11	1
2,4,5-T	ND	ug/L	0.090	0.012	EPA-8151	ND		1
2,4,5-TP (Silvex)	ND	ug/L	0.070	0.016	EPA-8151	ND	V11	1
2,4-Dichlorophenylacetic acid (Surrogate)	63.3	%	50 - 150 (LCL - UCL)		EPA-8151		V11	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8151	03/18/11	03/23/11 03:42	CC1	GC-8	1.020	BUC1644

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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1104123-03 | **Client Sample Name:** LW-3, 3/14/2011 12:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	**3.2**	**ug/L**	**0.50**	**0.083**	**EPA-8260**	**ND**	**Z1**	1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-8260	ND	Z1	1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-8260	ND	Z1	1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-8260	ND	Z1	1
Bromoform	ND	ug/L	0.50	0.27	EPA-8260	ND	Z1	1
Bromomethane	ND	ug/L	1.0	0.25	EPA-8260	ND	Z1	1
n-Butylbenzene	**0.66**	**ug/L**	**0.50**	**0.11**	**EPA-8260**	**ND**	**Z1**	1
sec-Butylbenzene	**0.78**	**ug/L**	**0.50**	**0.15**	**EPA-8260**	**ND**	**Z1**	1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-8260	ND	Z1	1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-8260	ND	Z1	1
Chlorobenzene	**3.3**	**ug/L**	**0.50**	**0.093**	**EPA-8260**	**ND**	**Z1**	1
Chloroethane	ND	ug/L	0.50	0.14	EPA-8260	ND	Z1	1
Chloroform	ND	ug/L	0.50	0.12	EPA-8260	ND	Z1	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-8260	ND	Z1	1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-8260	ND	Z1	1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-8260	ND	Z1	1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-8260	ND	Z1	1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-8260	ND	Z1	1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-8260	ND	Z1	1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-8260	ND	Z1	1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-8260	ND	Z1	1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-8260	ND	Z1	1
1,4-Dichlorobenzene	**4.0**	**ug/L**	**0.50**	**0.062**	**EPA-8260**	**ND**	**Z1**	1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-8260	ND	Z1	1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-8260	ND	Z1	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-8260	ND	Z1	1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-8260	ND	Z1	1
cis-1,2-Dichloroethene	**0.22**	**ug/L**	**0.50**	**0.085**	**EPA-8260**	**ND**	**J,Z1**	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-8260	ND	Z1	1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260	ND	Z1	1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-8260	ND	Z1	1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260	ND	Z1	1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-8260	ND	Z1	1

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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1104123-03 | **Client Sample Name:** LW-3, 3/14/2011 12:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-8260	ND	Z1	1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-8260	ND	Z1	1
Ethylbenzene	**1.5**	**ug/L**	**0.50**	**0.098**	**EPA-8260**	**ND**	**Z1**	1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-8260	ND	Z1	1
Isopropylbenzene	**2.8**	**ug/L**	**0.50**	**0.14**	**EPA-8260**	**ND**	**Z1**	1
p-Isopropyltoluene	**0.75**	**ug/L**	**0.50**	**0.12**	**EPA-8260**	**ND**	**Z1**	1
Methylene chloride	ND	ug/L	1.0	0.48	EPA-8260	ND	Z1	1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-8260	ND	Z1	1
Naphthalene	**10**	**ug/L**	**0.50**	**0.36**	**EPA-8260**	**ND**	**Z1**	1
n-Propylbenzene	**3.1**	**ug/L**	**0.50**	**0.11**	**EPA-8260**	**ND**	**Z1**	1
Styrene	**0.11**	**ug/L**	**0.50**	**0.068**	**EPA-8260**	**ND**	**J,Z1**	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-8260	ND	Z1	1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-8260	ND	Z1	1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-8260	ND	Z1	1
Toluene	**0.44**	**ug/L**	**0.50**	**0.093**	**EPA-8260**	**ND**	**J,Z1**	1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-8260	ND	Z1	1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-8260	ND	Z1	1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-8260	ND	Z1	1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-8260	ND	Z1	1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-8260	ND	Z1	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-8260	ND	Z1	1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-8260	ND	Z1	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-8260	ND	Z1	1
1,2,4-Trimethylbenzene	**1.7**	**ug/L**	**0.50**	**0.12**	**EPA-8260**	**ND**	**Z1**	1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-8260	ND	Z1	1
Vinyl chloride	**0.35**	**ug/L**	**0.50**	**0.12**	**EPA-8260**	**ND**	**J,Z1**	1
Total Xylenes	**2.6**	**ug/L**	**1.0**	**0.36**	**EPA-8260**	**ND**	**Z1**	1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-8260	ND	Z1	1
t-Butyl alcohol	**61**	**ug/L**	**10**	**9.4**	**EPA-8260**	**ND**	**Z1**	1
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-8260	ND	Z1	1
1,4-Dioxane	ND	ug/L	100	42	EPA-8260	ND	Z1	1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-8260	ND	Z1	1
Total Purgeable Petroleum Hydrocarbons	**120**	**ug/L**	**50**	**7.2**	**Luft-GC/MS**	**ND**	**Z1**	1

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425 Lakeside Drive
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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1104123-03 | **Client Sample Name:** LW-3, 3/14/2011 12:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,2-Dichloroethane-d4 (Surrogate)	115	%	76 - 114 (LCL - UCL)		EPA-8260		S09	1
Toluene-d8 (Surrogate)	98.3	%	88 - 110 (LCL - UCL)		EPA-8260			1
4-Bromofluorobenzene (Surrogate)	108	%	86 - 115 (LCL - UCL)		EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	03/21/11	03/22/11 08:33	JSK	HPCHEM	1	BUC1539

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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1104123-03 | **Client Sample Name:** LW-3, 3/14/2011 12:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	2.0	0.24	EPA-8270C	ND		1
Acenaphthylene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Aldrin	ND	ug/L	2.0	0.35	EPA-8270C	ND		1
Aniline	ND	ug/L	5.0	0.69	EPA-8270C	ND		1
Anthracene	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Benzidine	ND	ug/L	20	7.1	EPA-8270C	ND		1
Benzo[a]anthracene	ND	ug/L	2.0	0.38	EPA-8270C	ND		1
Benzo[b]fluoranthene	ND	ug/L	2.0	0.41	EPA-8270C	ND		1
Benzo[k]fluoranthene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
Benzo[a]pyrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Benzo[g,h,i]perylene	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
Benzoic acid	ND	ug/L	10	5.8	EPA-8270C	ND		1
Benzyl alcohol	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
Benzyl butyl phthalate	ND	ug/L	2.0	0.47	EPA-8270C	ND		1
alpha-BHC	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
beta-BHC	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
delta-BHC	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
gamma-BHC (Lindane)	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
bis(2-Chloroethoxy)methane	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
bis(2-Chloroethyl) ether	ND	ug/L	2.0	0.68	EPA-8270C	ND		1
bis(2-Chloroisopropyl)ether	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
bis(2-Ethylhexyl)phthalate	**6.1**	**ug/L**	**5.0**	**3.0**	**EPA-8270C**	**ND**		1
4-Bromophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
4-Chloroaniline	ND	ug/L	2.0	0.69	EPA-8270C	ND		1
2-Chloronaphthalene	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
4-Chlorophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
Chrysene	ND	ug/L	2.0	0.63	EPA-8270C	ND		1
4,4'-DDD	ND	ug/L	2.0	0.48	EPA-8270C	ND		1
4,4'-DDE	ND	ug/L	3.0	0.41	EPA-8270C	ND		1
4,4'-DDT	ND	ug/L	2.0	0.43	EPA-8270C	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	3.0	0.26	EPA-8270C	ND		1
Dibenzofuran	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
1,2-Dichlorobenzene	ND	ug/L	2.0	0.37	EPA-8270C	ND		1

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425 Lakeside Drive
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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1104123-03 | **Client Sample Name:** LW-3, 3/14/2011 12:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,3-Dichlorobenzene	ND	ug/L	2.0	0.35	EPA-8270C	ND		1
1,4-Dichlorobenzene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
3,3-Dichlorobenzidine	ND	ug/L	10	8.2	EPA-8270C	ND		1
Dieldrin	ND	ug/L	3.0	0.41	EPA-8270C	ND		1
Diethyl phthalate	ND	ug/L	2.0	0.33	EPA-8270C	ND		1
Dimethyl phthalate	ND	ug/L	2.0	0.39	EPA-8270C	ND		1
Di-n-butyl phthalate	ND	ug/L	2.0	0.39	EPA-8270C	ND		1
2,4-Dinitrotoluene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
2,6-Dinitrotoluene	ND	ug/L	2.0	0.41	EPA-8270C	ND		1
Di-n-octyl phthalate	ND	ug/L	2.0	0.46	EPA-8270C	ND		1
1,2-Diphenylhydrazine	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
Endosulfan I	ND	ug/L	10	1.7	EPA-8270C	ND		1
Endosulfan II	ND	ug/L	10	1.2	EPA-8270C	ND		1
Endosulfan sulfate	ND	ug/L	3.0	0.58	EPA-8270C	ND		1
Endrin	ND	ug/L	2.0	1.1	EPA-8270C	ND		1
Endrin aldehyde	ND	ug/L	10	0.52	EPA-8270C	ND		1
Fluoranthene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Fluorene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Heptachlor	ND	ug/L	2.0	0.32	EPA-8270C	ND		1
Heptachlor epoxide	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
Hexachlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Hexachlorobutadiene	ND	ug/L	2.0	0.24	EPA-8270C	ND		1
Hexachlorocyclopentadiene	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Hexachloroethane	ND	ug/L	2.0	0.32	EPA-8270C	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
Isophorone	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
2-Methylnaphthalene	**4.2**	**ug/L**	**2.0**	**0.28**	**EPA-8270C**	**ND**		1
Naphthalene	**8.9**	**ug/L**	**2.0**	**0.21**	**EPA-8270C**	**ND**		1
2-Naphthylamine	ND	ug/L	20	4.8	EPA-8270C	ND		1
2-Nitroaniline	ND	ug/L	2.0	0.33	EPA-8270C	ND		1
3-Nitroaniline	ND	ug/L	2.0	0.66	EPA-8270C	ND		1
4-Nitroaniline	ND	ug/L	5.0	0.87	EPA-8270C	ND		1
Nitrobenzene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1

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425 Lakeside Drive
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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1104123-03 | **Client Sample Name:** LW-3, 3/14/2011 12:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	2.0	0.61	EPA-8270C	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.0	1.3	EPA-8270C	ND		1
N-Nitrosodiphenylamine	ND	ug/L	2.0	0.44	EPA-8270C	ND		1
Phenanthrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Pyrene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
4-Chloro-3-methylphenol	ND	ug/L	5.0	0.40	EPA-8270C	ND		1
2-Chlorophenol	ND	ug/L	2.0	0.37	EPA-8270C	ND		1
2,4-Dichlorophenol	ND	ug/L	2.0	0.43	EPA-8270C	ND		1
2,4-Dimethylphenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	10	0.34	EPA-8270C	ND		1
2,4-Dinitrophenol	ND	ug/L	10	0.20	EPA-8270C	ND		1
2-Methylphenol	ND	ug/L	2.0	1.0	EPA-8270C	ND		1
3- & 4-Methylphenol	ND	ug/L	2.0	1.6	EPA-8270C	ND		1
2-Nitrophenol	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
4-Nitrophenol	ND	ug/L	2.0	0.73	EPA-8270C	ND		1
Pentachlorophenol	ND	ug/L	10	0.79	EPA-8270C	ND		1
Phenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.31	EPA-8270C	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	0.60	EPA-8270C	ND		1
2-Fluorophenol (Surrogate)	73.0	%	28 - 85 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	57.3	%	13 - 59 (LCL - UCL)		EPA-8270C			1
Nitrobenzene-d5 (Surrogate)	82.0	%	34 - 119 (LCL - UCL)		EPA-8270C			1
2-Fluorobiphenyl (Surrogate)	78.5	%	24 - 128 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	111	%	35 - 114 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	110	%	10 - 185 (LCL - UCL)		EPA-8270C			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	03/18/11	03/23/11 17:21	SKC	MS-B1	1.032	BUC1638

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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

1,4-Dioxane (EPA Method 8270C)

BCL Sample ID: 1104123-03 | **Client Sample Name:** LW-3, 3/14/2011 12:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,4-Dioxane	**55**	**ug/L**	**1.0**	**0.26**	**EPA-8270C**	**ND**		1
Naphthalene-d8 (Surrogate)	124	%	75 - 132 (LCL - UCL)		EPA-8270C			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	03/21/11	03/23/11 21:12	RDS	HPCHEM	1.053	BUC1643

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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1104123-03 | **Client Sample Name:** LW-3, 3/14/2011 12:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - C8 - C9	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C10 - C11	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C12 - C14	**360**	**ug/L**	**10**	**5.0**	**EPA-8015CC**	**ND**		1
TPH - C15 - C16	**310**	**ug/L**	**10**	**5.0**	**EPA-8015CC**	**ND**		1
TPH - C17 - C18	**300**	**ug/L**	**10**	**5.0**	**EPA-8015CC**	**ND**		1
TPH - C19 - C20	**240**	**ug/L**	**10**	**5.0**	**EPA-8015CC**	**ND**		1
TPH - C21 - C22	**180**	**ug/L**	**10**	**5.0**	**EPA-8015CC**	**ND**		1
TPH - C23 - C28	**330**	**ug/L**	**10**	**5.0**	**EPA-8015CC**	**ND**		1
TPH - C29 - C32	**99**	**ug/L**	**10**	**5.0**	**EPA-8015CC**	**ND**		1
TPH - C33 - C36	**51**	**ug/L**	**10**	**5.0**	**EPA-8015CC**	**ND**		1
TPH - C37 - C40	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C41 - C43	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C44 plus	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH (Total)	**1900**	**ug/L**	**200**	**100**	**EPA-8015CC**	**ND**		1
Tetracosane (Surrogate)	82.2	%	37 - 134 (LCL - UCL)		EPA-8015CC			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015CC	03/19/11	03/23/11 12:11	MWB	GC-13	1.020	BUC1710

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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Water Analysis (General Chemistry)

BCL Sample ID: 1104123-03 | **Client Sample Name:** LW-3, 3/14/2011 12:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Calcium	**12**	**mg/L**	**0.50**	**0.12**	**EPA-6010B**	**ND**	**A10**	1
Total Magnesium	**74**	**mg/L**	**0.25**	**0.080**	**EPA-6010B**	**ND**	**A10**	1
Total Sodium	**2000**	**mg/L**	**2.5**	**0.38**	**EPA-6010B**	**ND**	**A01**	1
Total Potassium	**460**	**mg/L**	**5.0**	**0.70**	**EPA-6010B**	**ND**	**A10**	1
Bicarbonate Alkalinity as CaCO3	**2700**	**mg/L**	**8.2**	**8.2**	**EPA-310.1**	**ND**		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	EPA-310.1	ND		2
Chloride	**2500**	**mg/L**	**5.0**	**0.50**	**EPA-300.0**	**ND**	**A01**	3
Fluoride	ND	mg/L	0.50	0.12	EPA-300.0	ND	A01	3
Nitrate as N	ND	mg/L	1.0	0.14	EPA-300.0	ND	A01	3
Sulfate	**14**	**mg/L**	**10**	**1.0**	**EPA-300.0**	**ND**	**A01**	3
Total Dissolved Solids @ 180 C	**6200**	**mg/L**	**500**	**500**	**EPA-160.1**	**ND**		4
Total Cyanide	**0.016**	**mg/L**	**0.0050**	**0.0016**	**EPA-335.4**	**ND**		5
Nitrite as N	ND	mg/L	0.050	0.0081	EPA-353.2	0.012		6
Total Sulfide	ND	mg/L	1.0	0.50	EPA-376.2	ND	A10	7
Non-Volatile Organic Carbon	**250**	**mg/L**	**30**	**6.2**	**EPA-415.1**	**14**	**A01**	8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	03/24/11	03/25/11 09:07	ARD	PE-OP1	5	BUC1753
2	EPA-310.1	03/16/11	03/16/11 12:18	RML	MET-1	2	BUC1188
3	EPA-300.0	03/15/11	03/15/11 21:09	LRS	IC5	10	BUC1137
4	EPA-160.1	03/16/11	03/16/11 08:15	NW1	MANUAL	50	BUC1147
5	EPA-335.4	03/17/11	03/17/11 16:09	TDC	KONE-1	1	BUC1266
6	EPA-353.2	03/15/11	03/15/11 14:19	TDC	KONE-1	1	BUC1104
7	EPA-376.2	03/17/11	03/17/11 02:00	MRM	SPEC05	10	BUC1341
8	EPA-415.1	03/22/11	03/23/11 12:52	CDR	TOC2	100	BUC1562

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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Water Analysis (Metals)

BCL Sample ID: 1104123-03 | **Client Sample Name:** LW-3, 3/14/2011 12:20:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Antimony	ND	ug/L	500	65	EPA-6010B	ND	A10	1
Total Arsenic	ND	ug/L	250	49	EPA-6010B	ND	A10	1
Total Barium	**490**	**ug/L**	**50**	**5.0**	**EPA-6010B**	**ND**	**A10**	1
Total Beryllium	ND	ug/L	50	5.0	EPA-6010B	ND	A10	1
Total Cadmium	ND	ug/L	50	5.0	EPA-6010B	ND	A10	1
Total Chromium	**76**	**ug/L**	**50**	**5.0**	**EPA-6010B**	**ND**	**A10**	1
Total Cobalt	**46**	**ug/L**	**250**	**25**	**EPA-6010B**	**ND**	**J,A10**	1
Total Copper	**40**	**ug/L**	**50**	**12**	**EPA-6010B**	**ND**	**J,A10**	1
Total Lead	**86**	**ug/L**	**250**	**25**	**EPA-6010B**	**ND**	**J,A10**	1
Total Mercury	**0.29**	**ug/L**	**0.20**	**0.034**	**EPA-7470A**	**ND**		2
Total Molybdenum	**30**	**ug/L**	**250**	**25**	**EPA-6010B**	**ND**	**J,A10**	1
Total Nickel	**82**	**ug/L**	**50**	**6.0**	**EPA-6010B**	**ND**	**A10**	1
Total Selenium	ND	ug/L	500	75	EPA-6010B	ND	A10	1
Total Silver	ND	ug/L	50	5.0	EPA-6010B	6.8	A10	1
Total Thallium	ND	ug/L	500	85	EPA-6010B	ND	A10	1
Total Vanadium	**18**	**ug/L**	**50**	**8.0**	**EPA-6010B**	**ND**	**J,A10**	1
Total Zinc	**260**	**ug/L**	**250**	**14**	**EPA-6010B**	**ND**	**A10**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	03/24/11	03/25/11 09:07	ARD	PE-OP1	5	BUC1753
2	EPA-7470A	03/24/11	03/25/11 10:35	MEV	CETAC1	1	BUC1732

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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Organochlorine Pesticides (EPA Method 8081)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC1637						
Aldrin	BUC1637-BLK1	ND	ug/L	0.0050	0.0013	
alpha-BHC	BUC1637-BLK1	ND	ug/L	0.0050	0.0011	
beta-BHC	BUC1637-BLK1	ND	ug/L	0.0050	0.0021	
delta-BHC	BUC1637-BLK1	ND	ug/L	0.0050	0.0014	
gamma-BHC (Lindane)	BUC1637-BLK1	ND	ug/L	0.0050	0.00094	
Chlordane (Technical)	BUC1637-BLK1	ND	ug/L	0.50	0.38	
4,4'-DDD	BUC1637-BLK1	ND	ug/L	0.0050	0.0017	
4,4'-DDE	BUC1637-BLK1	ND	ug/L	0.0050	0.0019	
4,4'-DDT	BUC1637-BLK1	ND	ug/L	0.0050	0.00076	
Dieldrin	BUC1637-BLK1	ND	ug/L	0.0050	0.0012	
Endosulfan I	BUC1637-BLK1	ND	ug/L	0.0050	0.0016	
Endosulfan II	BUC1637-BLK1	ND	ug/L	0.0050	0.0014	
Endosulfan sulfate	BUC1637-BLK1	ND	ug/L	0.0050	0.0026	
Endrin	BUC1637-BLK1	ND	ug/L	0.0050	0.00082	
Endrin aldehyde	BUC1637-BLK1	ND	ug/L	0.010	0.0032	
Heptachlor	BUC1637-BLK1	ND	ug/L	0.0050	0.0012	
Heptachlor epoxide	BUC1637-BLK1	ND	ug/L	0.0050	0.00099	
Methoxychlor	BUC1637-BLK1	ND	ug/L	0.0050	0.0011	
Toxaphene	BUC1637-BLK1	ND	ug/L	2.0	0.42	
TCMX (Surrogate)	BUC1637-BLK1	76.1	%	54 - 150 (LCL - UCL)		
Dibutyl chlorendate (Surrogate)	BUC1637-BLK1	71.4	%	70 - 150 (LCL - UCL)		

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Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Organochlorine Pesticides (EPA Method 8081)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUC1637										
Aldrin	BUC1637-BS1	LCS	0.10063	0.15000	ug/L	67.1		70 - 111		L01
gamma-BHC (Lindane)	BUC1637-BS1	LCS	0.12942	0.15000	ug/L	86.3		50 - 120		
4,4'-DDT	BUC1637-BS1	LCS	0.11854	0.15000	ug/L	79.0		58 - 116		
Dieldrin	BUC1637-BS1	LCS	0.11483	0.15000	ug/L	76.6		66 - 127		
Endrin	BUC1637-BS1	LCS	0.12958	0.15000	ug/L	86.4		61 - 152		
Heptachlor	BUC1637-BS1	LCS	0.11365	0.15000	ug/L	75.8		66 - 115		
TCMX (Surrogate)	BUC1637-BS1	LCS	0.20517	0.30000	ug/L	68.4		54 - 150		
Dibutyl chlorendate (Surrogate)	BUC1637-BS1	LCS	0.61543	0.75000	ug/L	82.1		70 - 150		

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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
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Organochlorine Pesticides (EPA Method 8081)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC1637	Used client sample: N										
Aldrin	MS	1104069-21	ND	0.11320	0.15000	ug/L		75.5		67 - 114	
	MSD	1104069-21	ND	0.10260	0.15000	ug/L	9.8	68.4	22	67 - 114	
gamma-BHC (Lindane)	MS	1104069-21	ND	0.14039	0.15000	ug/L		93.6		46 - 120	
	MSD	1104069-21	ND	0.13067	0.15000	ug/L	7.2	87.1	21	46 - 120	
4,4'-DDT	MS	1104069-21	ND	0.14246	0.15000	ug/L		95.0		48 - 122	
	MSD	1104069-21	ND	0.12372	0.15000	ug/L	14.1	82.5	20	48 - 122	
Dieldrin	MS	1104069-21	ND	0.13602	0.15000	ug/L		90.7		66 - 122	
	MSD	1104069-21	ND	0.11979	0.15000	ug/L	12.7	79.9	20	66 - 122	
Endrin	MS	1104069-21	ND	0.15985	0.15000	ug/L		107		57 - 152	
	MSD	1104069-21	ND	0.13345	0.15000	ug/L	18.0	89.0	20	57 - 152	
Heptachlor	MS	1104069-21	ND	0.12373	0.15000	ug/L		82.5		64 - 118	
	MSD	1104069-21	ND	0.11556	0.15000	ug/L	6.8	77.0	20	64 - 118	
TCMX (Surrogate)	MS	1104069-21	ND	0.22988	0.30000	ug/L		76.6		54 - 150	
	MSD	1104069-21	ND	0.20881	0.30000	ug/L	9.6	69.6		54 - 150	
Dibutyl chlorendate (Surrogate)	MS	1104069-21	ND	0.75147	0.75000	ug/L		100		70 - 150	
	MSD	1104069-21	ND	0.61759	0.75000	ug/L	19.6	82.3		70 - 150	

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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

PCB Analysis (EPA Method 8082)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC1639						
PCB-1016	BUC1639-BLK1	ND	ug/L	0.20	0.020	
PCB-1221	BUC1639-BLK1	ND	ug/L	0.20	0.089	
PCB-1232	BUC1639-BLK1	ND	ug/L	0.20	0.090	
PCB-1242	BUC1639-BLK1	ND	ug/L	0.20	0.095	
PCB-1248	BUC1639-BLK1	ND	ug/L	0.20	0.025	
PCB-1254	BUC1639-BLK1	ND	ug/L	0.20	0.042	
PCB-1260	BUC1639-BLK1	ND	ug/L	0.20	0.020	
Total PCB's (Summation)	BUC1639-BLK1	ND	ug/L	0.20	0.10	
Decachlorobiphenyl (Surrogate)	BUC1639-BLK1	98.0	%	48 - 135 (LCL - UCL)		

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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

PCB Analysis (EPA Method 8082)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUC1639										
PCB-1260	BUC1639-BS1	LCS	2.4520	2.5000	ug/L	98.1		73 - 119		
Decachlorobiphenyl (Surrogate)	BUC1639-BS1	LCS	0.10300	0.10000	ug/L	103		48 - 135		

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PCB Analysis (EPA Method 8082)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC1639	Used client sample: N										
PCB-1260	MS	1102229-92	ND	2.3420	2.5000	ug/L		93.7		64 - 125	
	MSD	1102229-92	ND	2.4980	2.5000	ug/L	6.4	99.9	23	64 - 125	
Decachlorobiphenyl (Surrogate)	MS	1102229-92	ND	0.10000	0.10000	ug/L		100		48 - 135	
	MSD	1102229-92	ND	0.10500	0.10000	ug/L	4.9	105		48 - 135	

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Reported: 04/19/2011 11:39
Project: Nine Par
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Chlorinated Herbicides (EPA Method 8151)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC1644						
2,4-D	BUC1644-BLK1	ND	ug/L	0.40	0.065	
2,4-DB	BUC1644-BLK1	ND	ug/L	3.0	0.32	
Dalapon	BUC1644-BLK1	ND	ug/L	10	2.4	
Dicamba	BUC1644-BLK1	ND	ug/L	0.080	0.037	
Dichloroprop	BUC1644-BLK1	ND	ug/L	0.50	0.012	
Dinoseb	BUC1644-BLK1	ND	ug/L	0.20	0.040	
2,4,5-T	BUC1644-BLK1	ND	ug/L	0.090	0.012	
2,4,5-TP (Silvex)	BUC1644-BLK1	ND	ug/L	0.070	0.016	
2,4-Dichlorophenylacetic acid (Surrogate)	BUC1644-BLK1	71.7	%	50 - 150 (LCL - UCL)		

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Project: Nine Par
Project Number: 103 97163-11
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Chlorinated Herbicides (EPA Method 8151)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUC1644										
2,4-D	BUC1644-BS1	LCS	2.1530	2.4000	ug/L	89.7		55 - 124		
2,4-DB	BUC1644-BS1	LCS	5.5750	5.4000	ug/L	103		62 - 134		
Dicamba	BUC1644-BS1	LCS	0.47000	0.60000	ug/L	78.3		64 - 120		
Dichloroprop	BUC1644-BS1	LCS	1.0250	2.4000	ug/L	42.7		47 - 120		L02
Dinoseb	BUC1644-BS1	LCS	0.61100	1.2000	ug/L	50.9		55 - 120		L02
2,4,5-T	BUC1644-BS1	LCS	0.65700	0.60000	ug/L	110		67 - 139		
2,4,5-TP (Silvex)	BUC1644-BS1	LCS	0.36400	0.60000	ug/L	60.7		56 - 127		
2,4-Dichlorophenylacetic acid (Surrogate)	BUC1644-BS1	LCS	0.74900	1.0000	ug/L	74.9		50 - 150		

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Chlorinated Herbicides (EPA Method 8151)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC1644	Used client sample: N										
2,4-D	MS	1104069-01	ND	2.1420	2.4000	ug/L		89.2		47 - 128	
	MSD	1104069-01	ND	2.0520	2.4000	ug/L	4.3	85.5	30	47 - 128	
2,4-DB	MS	1104069-01	ND	4.9020	5.4000	ug/L		90.8		59 - 138	
	MSD	1104069-01	ND	5.1170	5.4000	ug/L	4.3	94.8	30	59 - 138	
Dicamba	MS	1104069-01	ND	0.46300	0.60000	ug/L		77.2		64 - 120	
	MSD	1104069-01	ND	0.44600	0.60000	ug/L	3.7	74.3	30	64 - 120	
Dichloroprop	MS	1104069-01	ND	1.0200	2.4000	ug/L		42.5		48 - 120	Q03
	MSD	1104069-01	ND	0.94000	2.4000	ug/L	8.2	39.2	30	48 - 120	Q03
Dinoseb	MS	1104069-01	ND	0.60700	1.2000	ug/L		50.6		53 - 120	Q03
	MSD	1104069-01	ND	0.59900	1.2000	ug/L	1.3	49.9	30	53 - 120	Q03
2,4,5-T	MS	1104069-01	ND	0.60800	0.60000	ug/L		101		63 - 137	
	MSD	1104069-01	ND	0.63700	0.60000	ug/L	4.7	106	30	63 - 137	
2,4,5-TP (Silvex)	MS	1104069-01	ND	0.35500	0.60000	ug/L		59.2		47 - 132	
	MSD	1104069-01	ND	0.32700	0.60000	ug/L	8.2	54.5	30	47 - 132	
2,4-Dichlorophenylacetic acid (Surrogate	MS	1104069-01	ND	0.58500	1.0000	ug/L		58.5		50 - 150	
	MSD	1104069-01	ND	0.64700	1.0000	ug/L	10.1	64.7		50 - 150	

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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC1539						
Benzene	BUC1539-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BUC1539-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BUC1539-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BUC1539-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BUC1539-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BUC1539-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BUC1539-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BUC1539-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BUC1539-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BUC1539-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BUC1539-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BUC1539-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BUC1539-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BUC1539-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BUC1539-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BUC1539-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BUC1539-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BUC1539-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BUC1539-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BUC1539-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BUC1539-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BUC1539-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BUC1539-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BUC1539-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BUC1539-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BUC1539-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BUC1539-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BUC1539-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BUC1539-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BUC1539-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BUC1539-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BUC1539-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BUC1539-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BUC1539-BLK1	ND	ug/L	0.50	0.14	

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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC1539						
trans-1,3-Dichloropropene	BUC1539-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BUC1539-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BUC1539-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BUC1539-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BUC1539-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BUC1539-BLK1	ND	ug/L	1.0	0.48	
Methyl t-butyl ether	BUC1539-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BUC1539-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BUC1539-BLK1	ND	ug/L	0.50	0.11	
Styrene	BUC1539-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BUC1539-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BUC1539-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BUC1539-BLK1	ND	ug/L	0.50	0.13	
Toluene	BUC1539-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BUC1539-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BUC1539-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BUC1539-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BUC1539-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BUC1539-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BUC1539-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BUC1539-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BUC1539-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BUC1539-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BUC1539-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BUC1539-BLK1	ND	ug/L	0.50	0.12	
Total Xylenes	BUC1539-BLK1	ND	ug/L	1.0	0.36	
t-Amyl Methyl ether	BUC1539-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BUC1539-BLK1	ND	ug/L	10	9.4	
Diisopropyl ether	BUC1539-BLK1	ND	ug/L	0.50	0.23	
1,4-Dioxane	BUC1539-BLK1	ND	ug/L	100	42	
Ethyl t-butyl ether	BUC1539-BLK1	ND	ug/L	0.50	0.18	
Total Purgeable Petroleum Hydrocarbons	BUC1539-BLK1	ND	ug/L	50	7.2	
1,2-Dichloroethane-d4 (Surrogate)	BUC1539-BLK1	101	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BUC1539-BLK1	99.4	%	88 - 110 (LCL - UCL)		

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425 Lakeside Drive
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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC1539						
4-Bromofluorobenzene (Surrogate)	BUC1539-BLK1	100	%	86 - 115 (LCL - UCL)		

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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUC1539										
Benzene	BUC1539-BS1	LCS	25.270	25.000	ug/L	101		70 - 130		
Bromodichloromethane	BUC1539-BS1	LCS	24.920	25.000	ug/L	99.7		70 - 130		
Chlorobenzene	BUC1539-BS1	LCS	25.450	25.000	ug/L	102		70 - 130		
Chloroethane	BUC1539-BS1	LCS	24.530	25.000	ug/L	98.1		70 - 130		
1,4-Dichlorobenzene	BUC1539-BS1	LCS	25.410	25.000	ug/L	102		70 - 130		
1,1-Dichloroethane	BUC1539-BS1	LCS	25.380	25.000	ug/L	102		70 - 130		
1,1-Dichloroethene	BUC1539-BS1	LCS	26.160	25.000	ug/L	105		70 - 130		
Toluene	BUC1539-BS1	LCS	25.490	25.000	ug/L	102		70 - 130		
Trichloroethene	BUC1539-BS1	LCS	27.700	25.000	ug/L	111		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BUC1539-BS1	LCS	10.080	10.000	ug/L	101		76 - 114		
Toluene-d8 (Surrogate)	BUC1539-BS1	LCS	10.130	10.000	ug/L	101		88 - 110		
4-Bromofluorobenzene (Surrogate)	BUC1539-BS1	LCS	10.410	10.000	ug/L	104		86 - 115		

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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC1539	Used client sample: N										
Benzene	MS	1104069-33	ND	24.840	25.000	ug/L		99.4		70 - 130	
	MSD	1104069-33	ND	25.020	25.000	ug/L	0.7	100	20	70 - 130	
Bromodichloromethane	MS	1104069-33	ND	23.690	25.000	ug/L		94.8		70 - 130	
	MSD	1104069-33	ND	24.240	25.000	ug/L	2.3	97.0	20	70 - 130	
Chlorobenzene	MS	1104069-33	ND	24.540	25.000	ug/L		98.2		70 - 130	
	MSD	1104069-33	ND	24.730	25.000	ug/L	0.8	98.9	20	70 - 130	
Chloroethane	MS	1104069-33	ND	24.000	25.000	ug/L		96.0		70 - 130	
	MSD	1104069-33	ND	24.040	25.000	ug/L	0.2	96.2	20	70 - 130	
1,4-Dichlorobenzene	MS	1104069-33	ND	25.300	25.000	ug/L		101		70 - 130	
	MSD	1104069-33	ND	25.100	25.000	ug/L	0.8	100	20	70 - 130	
1,1-Dichloroethane	MS	1104069-33	ND	24.740	25.000	ug/L		99.0		70 - 130	
	MSD	1104069-33	ND	24.900	25.000	ug/L	0.6	99.6	20	70 - 130	
1,1-Dichloroethene	MS	1104069-33	ND	26.040	25.000	ug/L		104		70 - 130	
	MSD	1104069-33	ND	26.060	25.000	ug/L	0.1	104	20	70 - 130	
Toluene	MS	1104069-33	ND	24.950	25.000	ug/L		99.8		70 - 130	
	MSD	1104069-33	ND	25.000	25.000	ug/L	0.2	100	20	70 - 130	
Trichloroethene	MS	1104069-33	ND	25.900	25.000	ug/L		104		70 - 130	
	MSD	1104069-33	ND	28.060	25.000	ug/L	8.0	112	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1104069-33	ND	10.450	10.000	ug/L		104		76 - 114	
	MSD	1104069-33	ND	10.020	10.000	ug/L	4.2	100		76 - 114	
Toluene-d8 (Surrogate)	MS	1104069-33	ND	10.130	10.000	ug/L		101		88 - 110	
	MSD	1104069-33	ND	10.010	10.000	ug/L	1.2	100		88 - 110	
4-Bromofluorobenzene (Surrogate)	MS	1104069-33	ND	10.430	10.000	ug/L		104		86 - 115	
	MSD	1104069-33	ND	10.410	10.000	ug/L	0.2	104		86 - 115	

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Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC1638						
Acenaphthene	BUC1638-BLK1	ND	ug/L	2.0	0.24	
Acenaphthylene	BUC1638-BLK1	ND	ug/L	2.0	0.28	
Aldrin	BUC1638-BLK1	ND	ug/L	2.0	0.35	
Aniline	BUC1638-BLK1	ND	ug/L	5.0	0.69	
Anthracene	BUC1638-BLK1	ND	ug/L	2.0	0.30	
Benzidine	BUC1638-BLK1	ND	ug/L	20	7.1	
Benzo[a]anthracene	BUC1638-BLK1	ND	ug/L	2.0	0.38	
Benzo[b]fluoranthene	BUC1638-BLK1	ND	ug/L	2.0	0.41	
Benzo[k]fluoranthene	BUC1638-BLK1	ND	ug/L	2.0	0.31	
Benzo[a]pyrene	BUC1638-BLK1	ND	ug/L	2.0	0.20	
Benzo[g,h,i]perylene	BUC1638-BLK1	ND	ug/L	2.0	0.22	
Benzoic acid	BUC1638-BLK1	ND	ug/L	10	5.8	
Benzyl alcohol	BUC1638-BLK1	ND	ug/L	2.0	0.34	
Benzyl butyl phthalate	BUC1638-BLK1	ND	ug/L	2.0	0.47	
alpha-BHC	BUC1638-BLK1	ND	ug/L	2.0	0.27	
beta-BHC	BUC1638-BLK1	ND	ug/L	2.0	0.27	
delta-BHC	BUC1638-BLK1	ND	ug/L	2.0	0.30	
gamma-BHC (Lindane)	BUC1638-BLK1	ND	ug/L	2.0	0.22	
bis(2-Chloroethoxy)methane	BUC1638-BLK1	ND	ug/L	2.0	0.27	
bis(2-Chloroethyl) ether	BUC1638-BLK1	ND	ug/L	2.0	0.68	
bis(2-Chloroisopropyl)ether	BUC1638-BLK1	ND	ug/L	2.0	0.30	
bis(2-Ethylhexyl)phthalate	BUC1638-BLK1	ND	ug/L	5.0	3.0	
4-Bromophenyl phenyl ether	BUC1638-BLK1	ND	ug/L	2.0	0.23	
4-Chloroaniline	BUC1638-BLK1	ND	ug/L	2.0	0.69	
2-Chloronaphthalene	BUC1638-BLK1	ND	ug/L	2.0	0.34	
4-Chlorophenyl phenyl ether	BUC1638-BLK1	ND	ug/L	2.0	0.23	
Chrysene	BUC1638-BLK1	ND	ug/L	2.0	0.63	
4,4'-DDD	BUC1638-BLK1	ND	ug/L	2.0	0.48	
4,4'-DDE	BUC1638-BLK1	ND	ug/L	3.0	0.41	
4,4'-DDT	BUC1638-BLK1	ND	ug/L	2.0	0.43	
Dibenzo[a,h]anthracene	BUC1638-BLK1	ND	ug/L	3.0	0.26	
Dibenzofuran	BUC1638-BLK1	ND	ug/L	2.0	0.21	
1,2-Dichlorobenzene	BUC1638-BLK1	ND	ug/L	2.0	0.37	
1,3-Dichlorobenzene	BUC1638-BLK1	ND	ug/L	2.0	0.35	

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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC1638						
1,4-Dichlorobenzene	BUC1638-BLK1	ND	ug/L	2.0	0.31	
3,3-Dichlorobenzidine	BUC1638-BLK1	ND	ug/L	10	8.2	
Dieldrin	BUC1638-BLK1	ND	ug/L	3.0	0.41	
Diethyl phthalate	BUC1638-BLK1	ND	ug/L	2.0	0.33	
Dimethyl phthalate	BUC1638-BLK1	ND	ug/L	2.0	0.39	
Di-n-butyl phthalate	BUC1638-BLK1	ND	ug/L	2.0	0.39	
2,4-Dinitrotoluene	BUC1638-BLK1	ND	ug/L	2.0	0.26	
2,6-Dinitrotoluene	BUC1638-BLK1	ND	ug/L	2.0	0.41	
Di-n-octyl phthalate	BUC1638-BLK1	ND	ug/L	2.0	0.46	
1,2-Diphenylhydrazine	BUC1638-BLK1	ND	ug/L	2.0	0.34	
Endosulfan I	BUC1638-BLK1	ND	ug/L	10	1.7	
Endosulfan II	BUC1638-BLK1	ND	ug/L	10	1.2	
Endosulfan sulfate	BUC1638-BLK1	ND	ug/L	3.0	0.58	
Endrin	BUC1638-BLK1	ND	ug/L	2.0	1.1	
Endrin aldehyde	BUC1638-BLK1	ND	ug/L	10	0.52	
Fluoranthene	BUC1638-BLK1	ND	ug/L	2.0	0.20	
Fluorene	BUC1638-BLK1	ND	ug/L	2.0	0.28	
Heptachlor	BUC1638-BLK1	ND	ug/L	2.0	0.32	
Heptachlor epoxide	BUC1638-BLK1	ND	ug/L	2.0	0.27	
Hexachlorobenzene	BUC1638-BLK1	ND	ug/L	2.0	0.20	
Hexachlorobutadiene	BUC1638-BLK1	ND	ug/L	2.0	0.24	
Hexachlorocyclopentadiene	BUC1638-BLK1	ND	ug/L	2.0	0.30	
Hexachloroethane	BUC1638-BLK1	ND	ug/L	2.0	0.32	
Indeno[1,2,3-cd]pyrene	BUC1638-BLK1	ND	ug/L	2.0	0.26	
Isophorone	BUC1638-BLK1	ND	ug/L	2.0	0.31	
2-Methylnaphthalene	BUC1638-BLK1	ND	ug/L	2.0	0.28	
Naphthalene	BUC1638-BLK1	ND	ug/L	2.0	0.21	
2-Naphthylamine	BUC1638-BLK1	ND	ug/L	20	4.8	
2-Nitroaniline	BUC1638-BLK1	ND	ug/L	2.0	0.33	
3-Nitroaniline	BUC1638-BLK1	ND	ug/L	2.0	0.66	
4-Nitroaniline	BUC1638-BLK1	ND	ug/L	5.0	0.87	
Nitrobenzene	BUC1638-BLK1	ND	ug/L	2.0	0.26	
N-Nitrosodimethylamine	BUC1638-BLK1	ND	ug/L	2.0	0.61	
N-Nitrosodi-N-propylamine	BUC1638-BLK1	ND	ug/L	2.0	1.3	

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Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC1638						
N-Nitrosodiphenylamine	BUC1638-BLK1	ND	ug/L	2.0	0.44	
Phenanthrene	BUC1638-BLK1	ND	ug/L	2.0	0.20	
Pyrene	BUC1638-BLK1	ND	ug/L	2.0	0.26	
1,2,4-Trichlorobenzene	BUC1638-BLK1	ND	ug/L	2.0	0.27	
4-Chloro-3-methylphenol	BUC1638-BLK1	ND	ug/L	5.0	0.40	
2-Chlorophenol	BUC1638-BLK1	ND	ug/L	2.0	0.37	
2,4-Dichlorophenol	BUC1638-BLK1	ND	ug/L	2.0	0.43	
2,4-Dimethylphenol	BUC1638-BLK1	ND	ug/L	2.0	0.20	
4,6-Dinitro-2-methylphenol	BUC1638-BLK1	ND	ug/L	10	0.34	
2,4-Dinitrophenol	BUC1638-BLK1	ND	ug/L	10	0.20	
2-Methylphenol	BUC1638-BLK1	ND	ug/L	2.0	1.0	
3- & 4-Methylphenol	BUC1638-BLK1	ND	ug/L	2.0	1.6	
2-Nitrophenol	BUC1638-BLK1	ND	ug/L	2.0	0.28	
4-Nitrophenol	BUC1638-BLK1	ND	ug/L	2.0	0.73	
Pentachlorophenol	BUC1638-BLK1	ND	ug/L	10	0.79	
Phenol	BUC1638-BLK1	ND	ug/L	2.0	0.20	
2,4,5-Trichlorophenol	BUC1638-BLK1	ND	ug/L	5.0	0.31	
2,4,6-Trichlorophenol	BUC1638-BLK1	ND	ug/L	5.0	0.60	
2-Fluorophenol (Surrogate)	BUC1638-BLK1	63.2	%	28 - 85 (LCL - UCL)		
Phenol-d5 (Surrogate)	BUC1638-BLK1	38.1	%	13 - 59 (LCL - UCL)		
Nitrobenzene-d5 (Surrogate)	BUC1638-BLK1	92.0	%	34 - 119 (LCL - UCL)		
2-Fluorobiphenyl (Surrogate)	BUC1638-BLK1	78.7	%	24 - 128 (LCL - UCL)		
2,4,6-Tribromophenol (Surrogate)	BUC1638-BLK1	104	%	35 - 114 (LCL - UCL)		
p-Terphenyl-d14 (Surrogate)	BUC1638-BLK1	110	%	10 - 185 (LCL - UCL)		

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Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUC1638										
Acenaphthene	BUC1638-BS1	LCS	39.117	50.000	ug/L	78.2		63 - 128		
1,4-Dichlorobenzene	BUC1638-BS1	LCS	40.021	50.000	ug/L	80.0		72 - 112		
2,4-Dinitrotoluene	BUC1638-BS1	LCS	42.657	50.000	ug/L	85.3		45 - 136		
Hexachlorobenzene	BUC1638-BS1	LCS	43.636	50.000	ug/L	87.3		71 - 130		
Hexachlorobutadiene	BUC1638-BS1	LCS	32.229	50.000	ug/L	64.5		56 - 106		
Hexachloroethane	BUC1638-BS1	LCS	41.418	50.000	ug/L	82.8		58 - 116		
Nitrobenzene	BUC1638-BS1	LCS	36.527	50.000	ug/L	73.1		59 - 119		
N-Nitrosodi-N-propylamine	BUC1638-BS1	LCS	43.695	50.000	ug/L	87.4		47 - 112		
Pyrene	BUC1638-BS1	LCS	49.735	50.000	ug/L	99.5		26 - 167		
1,2,4-Trichlorobenzene	BUC1638-BS1	LCS	39.682	50.000	ug/L	79.4		64 - 116		
4-Chloro-3-methylphenol	BUC1638-BS1	LCS	39.376	50.000	ug/L	78.8		52 - 123		
2-Chlorophenol	BUC1638-BS1	LCS	32.905	50.000	ug/L	65.8		62 - 106		
2-Methylphenol	BUC1638-BS1	LCS	37.945	50.000	ug/L	75.9		39 - 119		
3- & 4-Methylphenol	BUC1638-BS1	LCS	52.047	100.00	ug/L	52.0		40 - 94		
4-Nitrophenol	BUC1638-BS1	LCS	18.735	50.000	ug/L	37.5		18 - 64		
Pentachlorophenol	BUC1638-BS1	LCS	42.145	50.000	ug/L	84.3		38 - 144		
Phenol	BUC1638-BS1	LCS	15.944	50.000	ug/L	31.9		22 - 60		
2,4,6-Trichlorophenol	BUC1638-BS1	LCS	38.129	50.000	ug/L	76.3		60 - 127		
2-Fluorophenol (Surrogate)	BUC1638-BS1	LCS	49.086	80.000	ug/L	61.4		28 - 85		
Phenol-d5 (Surrogate)	BUC1638-BS1	LCS	29.382	80.000	ug/L	36.7		13 - 59		
Nitrobenzene-d5 (Surrogate)	BUC1638-BS1	LCS	66.978	80.000	ug/L	83.7		34 - 119		
2-Fluorobiphenyl (Surrogate)	BUC1638-BS1	LCS	62.951	80.000	ug/L	78.7		24 - 128		
2,4,6-Tribromophenol (Surrogate)	BUC1638-BS1	LCS	86.419	80.000	ug/L	108		35 - 114		
p-Terphenyl-d14 (Surrogate)	BUC1638-BS1	LCS	40.212	40.000	ug/L	101		10 - 185		

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Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC1638	Used client sample: N										
Acenaphthene	MS	1102229-38	ND	39.186	50.000	ug/L		78.4		55 - 128	
	MSD	1102229-38	ND	41.708	50.000	ug/L	6.2	83.4	28	55 - 128	
1,4-Dichlorobenzene	MS	1102229-38	ND	38.270	50.000	ug/L		76.5		64 - 114	
	MSD	1102229-38	ND	43.562	50.000	ug/L	12.9	87.1	27	64 - 114	
2,4-Dinitrotoluene	MS	1102229-38	ND	43.786	50.000	ug/L		87.6		41 - 135	
	MSD	1102229-38	ND	43.305	50.000	ug/L	1.1	86.6	29	41 - 135	
Hexachlorobenzene	MS	1102229-38	ND	43.515	50.000	ug/L		87.0		66 - 131	
	MSD	1102229-38	ND	43.642	50.000	ug/L	0.3	87.3	23	66 - 131	
Hexachlorobutadiene	MS	1102229-38	ND	28.175	50.000	ug/L		56.4		47 - 108	
	MSD	1102229-38	ND	33.449	50.000	ug/L	17.1	66.9	26	47 - 108	
Hexachloroethane	MS	1102229-38	ND	36.593	50.000	ug/L		73.2		49 - 118	
	MSD	1102229-38	ND	43.189	50.000	ug/L	16.5	86.4	30	49 - 118	
Nitrobenzene	MS	1102229-38	ND	37.177	50.000	ug/L		74.4		53 - 118	
	MSD	1102229-38	ND	38.459	50.000	ug/L	3.4	76.9	27	53 - 118	
N-Nitrosodi-N-propylamine	MS	1102229-38	ND	45.732	50.000	ug/L		91.5		41 - 114	
	MSD	1102229-38	ND	46.465	50.000	ug/L	1.6	92.9	30	41 - 114	
Pyrene	MS	1102229-38	ND	52.295	50.000	ug/L		105		25 - 163	
	MSD	1102229-38	ND	52.629	50.000	ug/L	0.6	105	27	25 - 163	
1,2,4-Trichlorobenzene	MS	1102229-38	ND	37.375	50.000	ug/L		74.7		52 - 121	
	MSD	1102229-38	ND	41.545	50.000	ug/L	10.6	83.1	28	52 - 121	
4-Chloro-3-methylphenol	MS	1102229-38	ND	41.497	50.000	ug/L		83.0		46 - 125	
	MSD	1102229-38	ND	41.334	50.000	ug/L	0.4	82.7	23	46 - 125	
2-Chlorophenol	MS	1102229-38	ND	33.756	50.000	ug/L		67.5		53 - 109	
	MSD	1102229-38	ND	34.749	50.000	ug/L	2.9	69.5	30	53 - 109	
2-Methylphenol	MS	1102229-38	ND	39.597	50.000	ug/L		79.2		37 - 117	
	MSD	1102229-38	ND	41.282	50.000	ug/L	4.2	82.6	26	37 - 117	
3- & 4-Methylphenol	MS	1102229-38	ND	54.088	100.00	ug/L		54.1		39 - 92	
	MSD	1102229-38	ND	55.838	100.00	ug/L	3.2	55.8	27	39 - 92	
4-Nitrophenol	MS	1102229-38	ND	19.952	50.000	ug/L		39.9		18 - 63	
	MSD	1102229-38	ND	18.101	50.000	ug/L	9.7	36.2	30	18 - 63	
Pentachlorophenol	MS	1102229-38	ND	42.181	50.000	ug/L		84.4		16 - 156	
	MSD	1102229-38	ND	41.946	50.000	ug/L	0.6	83.9	30	16 - 156	
Phenol	MS	1102229-38	ND	16.331	50.000	ug/L		32.7		21 - 59	
	MSD	1102229-38	ND	17.118	50.000	ug/L	4.7	34.2	29	21 - 59	
2,4,6-Trichlorophenol	MS	1102229-38	ND	38.881	50.000	ug/L		77.8		43 - 135	
	MSD	1102229-38	ND	40.205	50.000	ug/L	3.3	80.4	30	43 - 135	

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425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC1638	Used client sample: N										
2-Fluorophenol (Surrogate)	MS	1102229-38	ND	49.275	80.000	ug/L		61.6		28 - 85	
	MSD	1102229-38	ND	51.226	80.000	ug/L	3.9	64.0		28 - 85	
Phenol-d5 (Surrogate)	MS	1102229-38	ND	29.161	80.000	ug/L		36.5		13 - 59	
	MSD	1102229-38	ND	31.273	80.000	ug/L	7.0	39.1		13 - 59	
Nitrobenzene-d5 (Surrogate)	MS	1102229-38	ND	67.533	80.000	ug/L		84.4		34 - 119	
	MSD	1102229-38	ND	68.690	80.000	ug/L	1.7	85.9		34 - 119	
2-Fluorobiphenyl (Surrogate)	MS	1102229-38	ND	60.400	80.000	ug/L		75.5		24 - 128	
	MSD	1102229-38	ND	65.553	80.000	ug/L	8.2	81.9		24 - 128	
2,4,6-Tribromophenol (Surrogate)	MS	1102229-38	ND	86.043	80.000	ug/L		108		35 - 114	
	MSD	1102229-38	ND	84.135	80.000	ug/L	2.2	105		35 - 114	
p-Terphenyl-d14 (Surrogate)	MS	1102229-38	ND	40.851	40.000	ug/L		102		10 - 185	
	MSD	1102229-38	ND	40.887	40.000	ug/L	0.1	102		10 - 185	

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1,4-Dioxane (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC1643						
1,4-Dioxane	BUC1643-BLK1	ND	ug/L	1.0	0.26	
Naphthalene-d8 (Surrogate)	BUC1643-BLK1	111	%	75 - 132 (LCL - UCL)		

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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

1,4-Dioxane (EPA Method 8270C)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUC1643										
1,4-Dioxane	BUC1643-BS1	LCS	48.213	50.000	ug/L	96.4		70 - 130		
Naphthalene-d8 (Surrogate)	BUC1643-BS1	LCS	48.090	40.000	ug/L	120		75 - 132		

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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

1,4-Dioxane (EPA Method 8270C)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC1643	Used client sample: N										
1,4-Dioxane	MS	1102229-90	ND	48.811	50.000	ug/L		97.6		70 - 130	
	MSD	1102229-90	ND	50.490	50.000	ug/L	3.4	101	30	70 - 130	
Naphthalene-d8 (Surrogate)	MS	1102229-90	ND	46.990	40.000	ug/L		117		75 - 132	
	MSD	1102229-90	ND	47.650	40.000	ug/L	1.4	119		75 - 132	

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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC1710						
TPH - C8 - C9	BUC1710-BLK1	ND	ug/L	10	5.0	
TPH - C10 - C11	BUC1710-BLK1	ND	ug/L	10	5.0	
TPH - C12 - C14	BUC1710-BLK1	ND	ug/L	10	5.0	
TPH - C15 - C16	BUC1710-BLK1	ND	ug/L	10	5.0	
TPH - C17 - C18	BUC1710-BLK1	ND	ug/L	10	5.0	
TPH - C19 - C20	BUC1710-BLK1	ND	ug/L	10	5.0	
TPH - C21 - C22	BUC1710-BLK1	ND	ug/L	10	5.0	
TPH - C23 - C28	BUC1710-BLK1	ND	ug/L	10	5.0	
TPH - C29 - C32	BUC1710-BLK1	ND	ug/L	10	5.0	
TPH - C33 - C36	BUC1710-BLK1	ND	ug/L	10	5.0	
TPH - C37 - C40	BUC1710-BLK1	ND	ug/L	10	5.0	
TPH - C41 - C43	BUC1710-BLK1	ND	ug/L	10	5.0	
TPH - C44 plus	BUC1710-BLK1	ND	ug/L	10	5.0	
TPH (Total)	BUC1710-BLK1	ND	ug/L	200	100	
TPH - Diesel (FFP)	BUC1710-BLK1	ND	ug/L	200	34	
Tetracosane (Surrogate)	BUC1710-BLK1	118	%	37 - 134 (LCL - UCL)		

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Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUC1710										
TPH - Diesel (FFP)	BUC1710-BS1	LCS	2436.6	2500.0	ug/L	97.5		52 - 128		
Tetracosane (Surrogate)	BUC1710-BS1	LCS	118.88	100.00	ug/L	119		37 - 134		

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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC1710	Used client sample: N										
TPH - Diesel (FFP)	MS	1104069-25	ND	2322.6	2500.0	ug/L		92.9		50 - 127	
	MSD	1104069-25	ND	2500.6	2500.0	ug/L	7.4	100	24	50 - 127	
Tetracosane (Surrogate)	MS	1104069-25	ND	117.73	100.00	ug/L		118		37 - 134	
	MSD	1104069-25	ND	122.22	100.00	ug/L	3.7	122		37 - 134	

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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC1104						
Nitrite as N	BUC1104-BLK1	0.011925	mg/L	0.050	0.0081	J
QC Batch ID: BUC1137						
Chloride	BUC1137-BLK1	ND	mg/L	0.50	0.050	
Fluoride	BUC1137-BLK1	ND	mg/L	0.050	0.012	
Nitrate as N	BUC1137-BLK1	ND	mg/L	0.10	0.014	
Sulfate	BUC1137-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BUC1147						
Total Dissolved Solids @ 180 C	BUC1147-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BUC1188						
Bicarbonate Alkalinity as CaCO3	BUC1188-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BUC1188-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BUC1266						
Total Cyanide	BUC1266-BLK1	ND	mg/L	0.0050	0.0016	
QC Batch ID: BUC1341						
Total Sulfide	BUC1341-BLK1	ND	mg/L	0.10	0.050	
QC Batch ID: BUC1562						
Non-Volatile Organic Carbon	BUC1562-BLK1	0.13900	mg/L	0.30	0.062	J
QC Batch ID: BUC1753						
Total Calcium	BUC1753-BLK1	ND	mg/L	0.10	0.023	
Total Magnesium	BUC1753-BLK1	ND	mg/L	0.050	0.016	
Total Sodium	BUC1753-BLK2	ND	mg/L	0.50	0.077	
Total Potassium	BUC1753-BLK1	ND	mg/L	1.0	0.14	

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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUC1104										
Nitrite as N	BUC1104-BS1	LCS	0.50162	0.50000	mg/L	100		90 - 110		
QC Batch ID: BUC1137										
Chloride	BUC1137-BS1	LCS	100.82	100.00	mg/L	101		90 - 110		
Fluoride	BUC1137-BS1	LCS	0.92200	1.0000	mg/L	92.2		90 - 110		
Nitrate as N	BUC1137-BS1	LCS	5.0790	5.0000	mg/L	102		90 - 110		
Sulfate	BUC1137-BS1	LCS	98.357	100.00	mg/L	98.4		90 - 110		
QC Batch ID: BUC1147										
Total Dissolved Solids @ 180 C	BUC1147-BS1	LCS	555.00	586.00	mg/L	94.7		90 - 110		
QC Batch ID: BUC1266										
Total Cyanide	BUC1266-BS1	LCS	0.13816	0.15000	mg/L	92.1		90 - 110		
QC Batch ID: BUC1341										
Total Sulfide	BUC1341-BS1	LCS	0.49724	0.50000	mg/L	99.4		90 - 110		
QC Batch ID: BUC1562										
Non-Volatile Organic Carbon	BUC1562-BS1	LCS	4.8720	5.0000	mg/L	97.4		85 - 115		
QC Batch ID: BUC1753										
Total Calcium	BUC1753-BS1	LCS	10.215	10.000	mg/L	102		85 - 115		
Total Magnesium	BUC1753-BS1	LCS	10.474	10.000	mg/L	105		85 - 115		
Total Sodium	BUC1753-BS2	LCS	10.607	10.000	mg/L	106		85 - 115		
Total Potassium	BUC1753-BS1	LCS	10.218	10.000	mg/L	102		85 - 115		

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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC1104	Used client sample: N										
Nitrite as N	DUP	1104105-01	0.013688	0.012932		mg/L	5.7		10		J
	MS	1104105-01	0.013688	0.53364	0.52632	mg/L		98.8		90 - 110	
	MSD	1104105-01	0.013688	0.54506	0.52632	mg/L	2.1	101	10	90 - 110	
QC Batch ID: BUC1137	Used client sample: N										
Chloride	DUP	1104131-01	2.8580	2.8440		mg/L	0.5		10		
	MS	1104131-01	2.8580	110.71	101.01	mg/L		107		80 - 120	
	MSD	1104131-01	2.8580	110.49	101.01	mg/L	0.2	107	10	80 - 120	
Fluoride	DUP	1104131-01	0.10000	0.10600		mg/L	5.8		10		
	MS	1104131-01	0.10000	1.0202	1.0101	mg/L		91.1		80 - 120	
	MSD	1104131-01	0.10000	1.0586	1.0101	mg/L	3.7	94.9	10	80 - 120	
Nitrate as N	DUP	1104131-01	0.83200	0.80400		mg/L	3.4		10		
	MS	1104131-01	0.83200	6.1566	5.0505	mg/L		105		80 - 120	
	MSD	1104131-01	0.83200	6.0919	5.0505	mg/L	1.1	104	10	80 - 120	
Sulfate	DUP	1104131-01	1.6570	1.6540		mg/L	0.2		10		
	MS	1104131-01	1.6570	108.21	101.01	mg/L		105		80 - 120	
	MSD	1104131-01	1.6570	107.31	101.01	mg/L	0.8	105	10	80 - 120	
QC Batch ID: BUC1147	Used client sample: N										
Total Dissolved Solids @ 180 C	DUP	1104137-01	1040.0	1015.0		mg/L	2.4		10		
QC Batch ID: BUC1188	Used client sample: N										
Bicarbonate Alkalinity as CaCO3	DUP	1104105-01	209.64	208.57		mg/L	0.5		10		
Carbonate Alkalinity as CaCO3	DUP	1104105-01	ND	ND		mg/L			10		
QC Batch ID: BUC1266	Used client sample: N										
Total Cyanide	DUP	1103930-01	0.0029380	0.0024070		mg/L	19.9		10		J,A02
	MS	1103930-01	0.0029380	0.10216	0.10000	mg/L		99.2		90 - 110	
	MSD	1103930-01	0.0029380	0.10044	0.10000	mg/L	1.7	97.5	10	90 - 110	
QC Batch ID: BUC1341	Used client sample: Y - Description: LW-2, 03/14/2011 11:00										
Total Sulfide	DUP	1104123-02	0.12385	0.12053		mg/L	2.7		10		
	MS	1104123-02	0.12385	0.57192	0.50000	mg/L		89.6		80 - 120	
	MSD	1104123-02	0.12385	0.57026	0.50000	mg/L	0.3	89.3	10	80 - 120	
QC Batch ID: BUC1562	Used client sample: N										
Non-Volatile Organic Carbon	DUP	1104164-01	2.3810	2.3810		mg/L	0		10		
	MS	1104164-01	2.3810	7.0834	5.0251	mg/L		93.6		80 - 120	
	MSD	1104164-01	2.3810	7.1467	5.0251	mg/L	0.9	94.8	10	80 - 120	
QC Batch ID: BUC1753	Used client sample: N										

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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC1753	Used client sample: N										
Total Calcium	DUP	1104465-01	613.29	615.09		mg/L	0.3		20		
	MS	1104465-01	613.29	630.33	10.000	mg/L		170		75 - 125	A03
	MSD	1104465-01	613.29	644.86	10.000	mg/L	2.3	316	20	75 - 125	A03
Total Magnesium	DUP	1104465-01	487.54	483.58		mg/L	0.8		20		
	MS	1104465-01	487.54	501.81	10.000	mg/L		143		75 - 125	A03
	MSD	1104465-01	487.54	508.34	10.000	mg/L	1.3	208	20	75 - 125	A03
Total Sodium	DUP	1104465-01	1064.9	1052.2		mg/L	1.2		20		
	MS	1104465-01	1064.9	1098.2	10.000	mg/L		333		75 - 125	A03
	MSD	1104465-01	1064.9	1059.0	10.000	mg/L	3.6	-59.1	20	75 - 125	A03
Total Potassium	DUP	1104465-01	35.923	36.342		mg/L	1.2		20		
	MS	1104465-01	35.923	48.735	10.000	mg/L		128		75 - 125	Q03
	MSD	1104465-01	35.923	48.928	10.000	mg/L	0.4	130	20	75 - 125	Q03

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Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Water Analysis (Metals)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC1732						
Total Mercury	BUC1732-BLK1	ND	ug/L	0.20	0.034	
QC Batch ID: BUC1753						
Total Antimony	BUC1753-BLK1	ND	ug/L	100	13	
Total Arsenic	BUC1753-BLK1	ND	ug/L	50	9.8	
Total Barium	BUC1753-BLK1	ND	ug/L	10	1.0	
Total Beryllium	BUC1753-BLK1	ND	ug/L	10	1.0	
Total Cadmium	BUC1753-BLK1	ND	ug/L	10	1.0	
Total Chromium	BUC1753-BLK1	ND	ug/L	10	1.0	
Total Cobalt	BUC1753-BLK1	ND	ug/L	50	5.0	
Total Copper	BUC1753-BLK1	ND	ug/L	10	2.3	
Total Lead	BUC1753-BLK1	ND	ug/L	50	5.0	
Total Molybdenum	BUC1753-BLK1	ND	ug/L	50	5.0	
Total Nickel	BUC1753-BLK1	ND	ug/L	10	1.2	
Total Selenium	BUC1753-BLK1	ND	ug/L	100	15	
Total Silver	BUC1753-BLK1	1.3609	ug/L	10	1.0	J
Total Thallium	BUC1753-BLK1	ND	ug/L	100	17	
Total Vanadium	BUC1753-BLK1	ND	ug/L	10	1.6	
Total Zinc	BUC1753-BLK1	ND	ug/L	50	2.9	

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Water Analysis (Metals)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUC1732										
Total Mercury	BUC1732-BS1	LCS	1.0750	1.0000	ug/L	108		85 - 115		
QC Batch ID: BUC1753										
Total Antimony	BUC1753-BS1	LCS	390.02	400.00	ug/L	97.5		85 - 115		
Total Arsenic	BUC1753-BS1	LCS	199.45	200.00	ug/L	99.7		85 - 115		
Total Barium	BUC1753-BS1	LCS	413.83	400.00	ug/L	103		85 - 115		
Total Beryllium	BUC1753-BS1	LCS	205.96	200.00	ug/L	103		85 - 115		
Total Cadmium	BUC1753-BS1	LCS	205.01	200.00	ug/L	103		85 - 115		
Total Chromium	BUC1753-BS1	LCS	208.98	200.00	ug/L	104		85 - 115		
Total Cobalt	BUC1753-BS1	LCS	215.80	200.00	ug/L	108		85 - 115		
Total Copper	BUC1753-BS1	LCS	400.12	400.00	ug/L	100		85 - 115		
Total Lead	BUC1753-BS1	LCS	427.48	400.00	ug/L	107		85 - 115		
Total Molybdenum	BUC1753-BS1	LCS	209.74	200.00	ug/L	105		85 - 115		
Total Nickel	BUC1753-BS1	LCS	426.65	400.00	ug/L	107		85 - 115		
Total Selenium	BUC1753-BS1	LCS	220.64	200.00	ug/L	110		85 - 115		
Total Silver	BUC1753-BS1	LCS	101.08	100.00	ug/L	101		85 - 115		
Total Thallium	BUC1753-BS1	LCS	455.64	400.00	ug/L	114		85 - 115		
Total Vanadium	BUC1753-BS1	LCS	205.71	200.00	ug/L	103		85 - 115		
Total Zinc	BUC1753-BS1	LCS	528.52	500.00	ug/L	106		85 - 115		

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC1732	Used client sample: N										
Total Mercury	DUP	104520-01RE'	ND	ND		ug/L			20		
	MS	104520-01RE'	ND	1.0125	1.0000	ug/L		101		70 - 130	
	MSD	104520-01RE'	ND	1.0300	1.0000	ug/L	1.7	103	20	70 - 130	
QC Batch ID: BUC1753	Used client sample: N										
Total Antimony	DUP	1104465-01	ND	ND		ug/L			20		
	MS	1104465-01	ND	469.06	400.00	ug/L		117		75 - 125	
	MSD	1104465-01	ND	468.46	400.00	ug/L	0.1	117	20	75 - 125	
Total Arsenic	DUP	1104465-01	ND	ND		ug/L			20		
	MS	1104465-01	ND	213.18	200.00	ug/L		107		75 - 125	
	MSD	1104465-01	ND	202.94	200.00	ug/L	4.9	101	20	75 - 125	
Total Barium	DUP	1104465-01	144.79	147.21		ug/L	1.7		20		
	MS	1104465-01	144.79	575.64	400.00	ug/L		108		75 - 125	
	MSD	1104465-01	144.79	569.94	400.00	ug/L	1.0	106	20	75 - 125	
Total Beryllium	DUP	1104465-01	ND	ND		ug/L			20		
	MS	1104465-01	ND	223.13	200.00	ug/L		112		75 - 125	
	MSD	1104465-01	ND	221.86	200.00	ug/L	0.6	111	20	75 - 125	
Total Cadmium	DUP	1104465-01	15.563	15.620		ug/L	0.4		20		
	MS	1104465-01	15.563	242.65	200.00	ug/L		114		75 - 125	
	MSD	1104465-01	15.563	242.58	200.00	ug/L	0.0	114	20	75 - 125	
Total Chromium	DUP	1104465-01	1.5819	1.5050		ug/L	5.0		20		J
	MS	1104465-01	1.5819	216.51	200.00	ug/L		107		75 - 125	
	MSD	1104465-01	1.5819	215.71	200.00	ug/L	0.4	107	20	75 - 125	
Total Cobalt	DUP	1104465-01	ND	ND		ug/L			20		
	MS	1104465-01	ND	214.22	200.00	ug/L		107		75 - 125	
	MSD	1104465-01	ND	213.96	200.00	ug/L	0.1	107	20	75 - 125	
Total Copper	DUP	1104465-01	ND	ND		ug/L			20		
	MS	1104465-01	ND	458.88	400.00	ug/L		115		75 - 125	
	MSD	1104465-01	ND	457.89	400.00	ug/L	0.2	114	20	75 - 125	
Total Lead	DUP	1104465-01	9.3853	10.039		ug/L	6.7		20		J
	MS	1104465-01	9.3853	431.75	400.00	ug/L		106		75 - 125	
	MSD	1104465-01	9.3853	430.73	400.00	ug/L	0.2	105	20	75 - 125	
Total Molybdenum	DUP	1104465-01	14.137	14.186		ug/L	0.3		20		J
	MS	1104465-01	14.137	239.27	200.00	ug/L		113		75 - 125	
	MSD	1104465-01	14.137	237.84	200.00	ug/L	0.6	112	20	75 - 125	
Total Nickel	DUP	1104465-01	244.46	247.26		ug/L	1.1		20		
	MS	1104465-01	244.46	682.48	400.00	ug/L		110		75 - 125	
	MSD	1104465-01	244.46	683.33	400.00	ug/L	0.1	110	20	75 - 125	

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC1753	Used client sample: N										
Total Selenium	DUP	1104465-01	73.136	67.186		ug/L	8.5		20		J
	MS	1104465-01	73.136	339.85	200.00	ug/L		133		75 - 125	Q03
	MSD	1104465-01	73.136	331.08	200.00	ug/L	2.6	129	20	75 - 125	Q03
Total Silver	DUP	1104465-01	4.9957	5.6649		ug/L	12.6		20		J
	MS	1104465-01	4.9957	121.97	100.00	ug/L		117		75 - 125	
	MSD	1104465-01	4.9957	121.35	100.00	ug/L	0.5	116	20	75 - 125	
Total Thallium	DUP	1104465-01	ND	ND		ug/L			20		
	MS	1104465-01	ND	419.17	400.00	ug/L		105		75 - 125	
	MSD	1104465-01	ND	417.27	400.00	ug/L	0.5	104	20	75 - 125	
Total Vanadium	DUP	1104465-01	3.6509	3.8431		ug/L	5.1		20		J
	MS	1104465-01	3.6509	231.28	200.00	ug/L		114		75 - 125	
	MSD	1104465-01	3.6509	228.72	200.00	ug/L	1.1	113	20	75 - 125	
Total Zinc	DUP	1104465-01	73.609	74.882		ug/L	1.7		20		
	MS	1104465-01	73.609	618.47	500.00	ug/L		109		75 - 125	
	MSD	1104465-01	73.609	625.87	500.00	ug/L	1.2	110	20	75 - 125	

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Maxxam

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ACCREDITED IN ACCORDANCE WITH nelac

Your Project #: 1104123
Your C.O.C. #: na

Attention: Linda Phoudamneun
BC Laboratories
4100 Atlas Crt
Bakersfield, CA
USA 93308

Report Date: 2011/04/19

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B135928
Received: 2011/03/17, 12:00

Sample Matrix: Water
Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Dioxins/Furans in Water (8290) (1)	3	2011/04/14	2011/04/17	BRL SOP-00406	EPA 8290 mod.
2378TCDF Confirmation in Water	1	N/A	2011/04/18	BRL SOP-00406	EPA 8290 mod.

Remarks:

The lab certifies that the test results meet all requirements of NELAC, where applicable.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) Confirmatory runs for 2,3,7,8-TCDF are performed only if the primary result is greater than the RDL.

U = Undetected at the limit of quantitation.
J = Estimated concentration between the EDL & RDL.
B = Blank Contamination.
Q = One or more quality control criteria failed.

Encryption Key

ASebastian Ancy Sebastian 19 Apr 2011 08:39:53 -04:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

ANCY SEBASTIAN, C.Tech., Senior Project Manager, Air Toxics
Email: ASebastian@maxxam.ca
Phone# (905) 817-5831

==========

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Golder Associates 425 Lakeside Drive Sunnyvale, CA 94085	**Reported:** 04/19/2011 11:39 Project: Nine Par Project Number: 103 97163-11 Project Manager: Tom Vercoutere

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ACCREDITED IN ACCORDANCE WITH nelac

Your Project #: 1104123
Your C.O.C. #: na

Attention: Linda Phoudamneun
BC Laboratories
4100 Atlas Crt
Bakersfield, CA
USA 93308

Report Date: 2011/04/19

CERTIFICATE OF ANALYSIS
-2-

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Total cover pages: 2

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

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Maxxam Job #: B135928
Report Date: 2011/04/19

BC Laboratories
Client Project #: 1104123

DIOXINS AND FURANS BY HRMS (WATER)

Maxxam ID		IX9648						
Sampling Date		2011/03/14 14:20						
COC Number		na			TOXIC EQUIVALENCY		# of	
	Units	1104123-01 / LW-1	EDL	RDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
2,3,7,8-Tetra CDD *	pg/L	3.4 U (1)	3.4	23	1.00	3.40		2461093
1,2,3,7,8-Penta CDD	pg/L	9.03 J	0.67	58	1.00	9.03		2461093
1,2,3,4,7,8-Hexa CDD	pg/L	12.6 J	0.69	58	0.100	1.26		2461093
1,2,3,6,7,8-Hexa CDD	pg/L	64	0.62	58	0.100	6.40		2461093
1,2,3,7,8,9-Hexa CDD	pg/L	43.0 J (2)	0.62	58	0.100	4.30		2461093
1,2,3,4,6,7,8-Hepta CDD	pg/L	2330	0.64	58	0.0100	23.3		2461093
Octa CDD	pg/L	12900	1.3	120	0.000300	3.87		2461093
Total Tetra CDD	pg/L	441	0.72	23				2461093
Total Penta CDD	pg/L	437	0.67	58				2461093
Total Hexa CDD	pg/L	2200	0.64	170				2461093
Total Hepta CDD	pg/L	5300	0.64	58				2461093
2,3,7,8-Tetra CDF **	pg/L	90 U (3)	90	23	0.100	9.00		2461093
1,2,3,7,8-Penta CDF	pg/L	29.1 J	0.77	58	0.0300	0.873		2461093
2,3,4,7,8-Penta CDF	pg/L	46.7 J	0.80	58	0.300	14.0		2461093
1,2,3,4,7,8-Hexa CDF	pg/L	100 (2)	0.58	58	0.100	10.0		2461093
1,2,3,6,7,8-Hexa CDF	pg/L	55.1 J	0.56	58	0.100	5.51		2461093
2,3,4,6,7,8-Hexa CDF	pg/L	40.2 J	0.63	58	0.100	4.02		2461093
1,2,3,7,8,9-Hexa CDF	pg/L	3.18 J	0.71	58	0.100	0.318		2461093
1,2,3,4,6,7,8-Hepta CDF	pg/L	308	0.58	58	0.0100	3.08		2461093
1,2,3,4,7,8,9-Hepta CDF	pg/L	22.3 J	0.72	58	0.0100	0.223		2461093
Octa CDF	pg/L	202	1.2	120	0.000300	0.0606		2461093
Total Tetra CDF	pg/L	796	0.71	23				2461093
Total Penta CDF	pg/L	582	0.79	120				2461093
Total Hexa CDF	pg/L	571	0.62	230				2461093

RDL = Reportable Detection Limit
EDL = Estimated Detection Limit
QC Batch = Quality Control Batch
* CDD = Chloro Dibenzo-p-Dioxin, ** CDF = Chloro Dibenzo-p-Furan
TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,
The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.
WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds
(1) RT > 2 seconds - PCDD/DF analysis - Peak detected exceeds expected retention time (from internal standard) by greater than 2 seconds.
(2) EMPC / Merged Peak
(3) RT > 3 seconds - PCDD/DF analysis - Peak detected exceeds expected retention time (from internal standard) by greater than 3 seconds.

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

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Maxxam Job #: B135928
Report Date: 2011/04/19

BC Laboratories
Client Project #: 1104123

DIOXINS AND FURANS BY HRMS (WATER)

Maxxam ID		IX9648						
Sampling Date		2011/03/14 14:20						
COC Number		na			TOXIC EQUIVALENCY		# of	
	Units	1104123-01 / LW-1	EDL	RDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
Total Hepta CDF **	pg/L	548	0.64	120				2461093
Confirmation 2,3,7,8-Tetra CDF	pg/L	32	6.7	23	0.100	3.20		2462033
TOTAL TOXIC EQUIVALENCY	pg/L					92.8		
Surrogate Recovery (%)								
C13-1234678 HeptaCDD *	%	73						2461093
C13-1234678 HeptaCDF	%	80						2461093
C13-123478 HexaCDF	%	81						2461093
C13-123678 HexaCDD	%	81						2461093
C13-12378 PentaCDD	%	72						2461093
C13-12378 PentaCDF	%	68						2461093
C13-2378 TetraCDD	%	48						2461093
C13-2378 TetraCDF	%	68						2461093
C13-OCDD	%	80						2461093
Confirmation C13-2378 TetraCDF	%	68						2462033

RDL = Reportable Detection Limit
EDL = Estimated Detection Limit
QC Batch = Quality Control Batch
* CDD = Chloro Dibenzo-p-Dioxin, ** CDF = Chloro Dibenzo-p-Furan
TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,
The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.
WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

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Golder Associates
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Sunnyvale, CA 94085

Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Subcontract Report for 1104123 PDF File Name: WO_1104123_SUB_MAXNY.pdf Page 5 of 13

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Maxxam Job #: B135928
Report Date: 2011/04/19

BC Laboratories
Client Project #: 1104123

DIOXINS AND FURANS BY HRMS (WATER)

Maxxam ID		IX9649						
Sampling Date		2011/03/14 11:00						
COC Number		na			TOXIC EQUIVALENCY		# of	
	Units	1104123-02 / LW-2	EDL	RDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
2,3,7,8-Tetra CDD *	pg/L	0.71 J	0.60	22	1.00	0.710		2461093
1,2,3,7,8-Penta CDD	pg/L	0.85 J	0.63	54	1.00	0.850		2461093
1,2,3,4,7,8-Hexa CDD	pg/L	1.50 J	0.64	54	0.100	0.150		2461093
1,2,3,6,7,8-Hexa CDD	pg/L	7.94 J	0.57	54	0.100	0.794		2461093
1,2,3,7,8,9-Hexa CDD	pg/L	4.44 J (1)	0.57	54	0.100	0.444		2461093
1,2,3,4,6,7,8-Hepta CDD	pg/L	427	0.62	54	0.0100	4.27		2461093
Octa CDD	pg/L	7170	1.2	110	0.000300	2.15		2461093
Total Tetra CDD	pg/L	15.8 J	0.60	22				2461093
Total Penta CDD	pg/L	14.1 J	0.63	54				2461093
Total Hexa CDD	pg/L	296	0.59	160				2461093
Total Hepta CDD	pg/L	1200	0.62	54				2461093
2,3,7,8-Tetra CDF **	pg/L	4.93 J	0.61	22	0.100	0.493		2461093
1,2,3,7,8-Penta CDF	pg/L	1.92 J	0.60	54	0.0300	0.0576		2461093
2,3,4,7,8-Penta CDF	pg/L	4.35 J	0.62	54	0.300	1.31		2461093
1,2,3,4,7,8-Hexa CDF	pg/L	6.57 J (1)	0.52	54	0.100	0.657		2461093
1,2,3,6,7,8-Hexa CDF	pg/L	4.90 J	0.50	54	0.100	0.490		2461093
2,3,4,6,7,8-Hexa CDF	pg/L	1.7 U (2)	1.7	54	0.100	0.170		2461093
1,2,3,7,8,9-Hexa CDF	pg/L	0.66 U (2)	0.66	54	0.100	0.0660		2461093
1,2,3,4,6,7,8-Hepta CDF	pg/L	41 U (2)	41	54	0.0100	0.410		2461093
1,2,3,4,7,8,9-Hepta CDF	pg/L	4.72 J	0.64	54	0.0100	0.0472		2461093
Octa CDF	pg/L	81.6 J	1.1	110	0.000300	0.0245		2461093
Total Tetra CDF	pg/L	32	0.61	22				2461093
Total Penta CDF	pg/L	43.7 J	0.61	110				2461093
Total Hexa CDF	pg/L	84.2 J	0.55	220				2461093
Total Hepta CDF	pg/L	98.0 J	0.57	110				2461093
TOTAL TOXIC EQUIVALENCY	pg/L					13.1		

RDL = Reportable Detection Limit
EDL = Estimated Detection Limit
QC Batch = Quality Control Batch
* CDD = Chloro Dibenzo-p-Dioxin, ** CDF = Chloro Dibenzo-p-Furan
TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,
The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.
WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds
(1) EMPC / Merged Peak
(2) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

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4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com

Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Subcontract Report for 1104123 PDF File Name: WO_1104123_SUB_MAXNY.pdf Page 6 of 13

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Maxxam Job #: B135928
Report Date: 2011/04/19

BC Laboratories
Client Project #: 1104123

DIOXINS AND FURANS BY HRMS (WATER)

Maxxam ID		IX9649						
Sampling Date		2011/03/14 11:00						
COC Number		na			TOXIC EQUIVALENCY		# of	
	Units	1104123-02 / LW-2	EDL	RDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
Surrogate Recovery (%)								
C13-1234678 HeptaCDD *	%	112						2461093
C13-1234678 HeptaCDF **	%	103						2461093
C13-123478 HexaCDF	%	101						2461093
C13-123678 HexaCDD	%	105						2461093
C13-12378 PentaCDD	%	99						2461093
C13-12378 PentaCDF	%	84						2461093
C13-2378 TetraCDD	%	93						2461093
C13-2378 TetraCDF	%	100						2461093
C13-OCDD	%	115						2461093

RDL = Reportable Detection Limit
EDL = Estimated Detection Limit
QC Batch = Quality Control Batch
* CDD = Chloro Dibenzo-p-Dioxin, ** CDF = Chloro Dibenzo-p-Furan
TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,
The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.
WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Subcontract Report for 1104123 PDF File Name: WO_1104123_SUB_MAXNY.pdf Page 7 of 13

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Maxxam Job #: B135928
Report Date: 2011/04/19

BC Laboratories
Client Project #: 1104123

DIOXINS AND FURANS BY HRMS (WATER)

Maxxam ID		IX9650						
Sampling Date		2011/03/14 12:20						
COC Number		na			TOXIC EQUIVALENCY		# of	
	Units	1104123-03 / LW-3	EDL	RDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
2,3,7,8-Tetra CDD *	pg/L	1.94 J	0.58	22	1.00	1.94		2461093
1,2,3,7,8-Penta CDD	pg/L	1.17 J	0.65	56	1.00	1.17		2461093
1,2,3,4,7,8-Hexa CDD	pg/L	1.94 J	0.62	56	0.100	0.194		2461093
1,2,3,6,7,8-Hexa CDD	pg/L	9.26 J	0.56	56	0.100	0.926		2461093
1,2,3,7,8,9-Hexa CDD	pg/L	6.22 J (1)	0.56	56	0.100	0.622		2461093
1,2,3,4,6,7,8-Hepta CDD	pg/L	603	0.62	56	0.0100	6.03		2461093
Octa CDD	pg/L	7790	1.2	110	0.000300	2.34		2461093
Total Tetra CDD	pg/L	13.1 J	0.58	22				2461093
Total Penta CDD	pg/L	9.06 J	0.65	56				2461093
Total Hexa CDD	pg/L	325	0.58	170				2461093
Total Hepta CDD	pg/L	1580	0.62	56				2461093
2,3,7,8-Tetra CDF **	pg/L	8.10 J	0.63	22	0.100	0.810		2461093
1,2,3,7,8-Penta CDF	pg/L	1.46 J	0.61	56	0.0300	0.0438		2461093
2,3,4,7,8-Penta CDF	pg/L	2.76 J	0.64	56	0.300	0.828		2461093
1,2,3,4,7,8-Hexa CDF	pg/L	4.68 J (1)	0.59	56	0.100	0.468		2461093
1,2,3,6,7,8-Hexa CDF	pg/L	2.95 J	0.57	56	0.100	0.295		2461093
2,3,4,6,7,8-Hexa CDF	pg/L	1.35 J	0.65	56	0.100	0.135		2461093
1,2,3,7,8,9-Hexa CDF	pg/L	0.72 U	0.72	56	0.100	0.0720		2461093
1,2,3,4,6,7,8-Hepta CDF	pg/L	31 U (2)	31	56	0.0100	0.310		2461093
1,2,3,4,7,8,9-Hepta CDF	pg/L	3.76 J	0.69	56	0.0100	0.0376		2461093
Octa CDF	pg/L	63.3 J	1.2	110	0.000300	0.0190		2461093
Total Tetra CDF	pg/L	29	0.63	22				2461093
Total Penta CDF	pg/L	28.6 J	0.63	110				2461093
Total Hexa CDF	pg/L	70.3 J	0.63	220				2461093
Total Hepta CDF	pg/L	88.7 J	0.61	110				2461093
TOTAL TOXIC EQUIVALENCY	pg/L					16.2		

RDL = Reportable Detection Limit
EDL = Estimated Detection Limit
QC Batch = Quality Control Batch
* CDD = Chloro Dibenzo-p-Dioxin, ** CDF = Chloro Dibenzo-p-Furan
TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,
The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.
WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds
(1) EMPC / Merged Peak
(2) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Subcontract Report for 1104123 PDF File Name: WO_1104123_SUB_MAXNY.pdf Page 8 of 13

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Maxxam Job #: B135928
Report Date: 2011/04/19

BC Laboratories
Client Project #: 1104123

DIOXINS AND FURANS BY HRMS (WATER)

Maxxam ID		IX9650						
Sampling Date		2011/03/14 12:20						
COC Number		na			TOXIC EQUIVALENCY		# of	
	Units	1104123-03 / LW-3	EDL	RDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
Surrogate Recovery (%)								
C13-1234678 HeptaCDD *	%	82						2461093
C13-1234678 HeptaCDF **	%	79						2461093
C13-123478 HexaCDF	%	74						2461093
C13-123678 HexaCDD	%	78						2461093
C13-12378 PentaCDD	%	72						2461093
C13-12378 PentaCDF	%	64						2461093
C13-2378 TetraCDD	%	67						2461093
C13-2378 TetraCDF	%	75						2461093
C13-OCDD	%	91						2461093

RDL = Reportable Detection Limit
EDL = Estimated Detection Limit
QC Batch = Quality Control Batch
* CDD = Chloro Dibenzo-p-Dioxin, ** CDF = Chloro Dibenzo-p-Furan
TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,
The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.
WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

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Maxxam Job #: B135928
Report Date: 2011/04/19

BC Laboratories
Client Project #: 1104123

Test Summary

Maxxam ID IX9648 **Collected** 2011/03/14
Sample ID 1104123-01 / LW-1 **Shipped**
Matrix Water **Received** 2011/03/17

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Dioxins/Furans in Water (8290)	HRMS/MS	2461093	2011/04/14	2011/04/17	ANGEL GUERRERO
2378TCDF Confirmation in Water	HRMS/MS	2462033	N/A	2011/04/18	ANGEL GUERRERO

Maxxam ID IX9649 **Collected** 2011/03/14
Sample ID 1104123-02 / LW-2 **Shipped**
Matrix Water **Received** 2011/03/17

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Dioxins/Furans in Water (8290)	HRMS/MS	2461093	2011/04/14	2011/04/17	ANGEL GUERRERO

Maxxam ID IX9650 **Collected** 2011/03/14
Sample ID 1104123-03 / LW-3 **Shipped**
Matrix Water **Received** 2011/03/17

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Dioxins/Furans in Water (8290)	HRMS/MS	2461093	2011/04/14	2011/04/17	ANGEL GUERRERO

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Maxxam Job #: B135928
Report Date: 2011/04/19

BC Laboratories
Client Project #: 1104123

GENERAL COMMENTS

Replacement samples arrived 04/04 at 12.7C..

Results relate only to the items tested.

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425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

Subcontract Report for 1104123 PDF File Name: WO_1104123_SUB_MAXNY.pdf Page 11 of 13

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BC Laboratories
Attention: Linda Phoudamneun
Client Project #: 1104123
P.O. #:
Project name:

Quality Assurance Report

Maxxam Job Number: GB135928

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2461093 AGU	Spiked Blank	C13-1234678 HeptaCDD	2011/04/17		97	%	40 - 135
		C13-1234678 HeptaCDF	2011/04/17		105	%	40 - 135
		C13-123478 HexaCDF	2011/04/17		100	%	40 - 135
		C13-123678 HexaCDD	2011/04/17		104	%	40 - 135
		C13-12378 PentaCDD	2011/04/17		99	%	40 - 135
		C13-12378 PentaCDF	2011/04/17		88	%	40 - 135
		C13-2378 TetraCDD	2011/04/17		93	%	40 - 135
		C13-2378 TetraCDF	2011/04/17		101	%	40 - 135
		C13-OCDD	2011/04/17		89	%	40 - 135
		2,3,7,8-Tetra CDD	2011/04/17		99	%	80 - 140
		1,2,3,7,8-Penta CDD	2011/04/17		98	%	80 - 140
		1,2,3,4,7,8-Hexa CDD	2011/04/17		96	%	80 - 140
		1,2,3,6,7,8-Hexa CDD	2011/04/17		103	%	80 - 140
		1,2,3,7,8,9-Hexa CDD	2011/04/17		97	%	80 - 140
		1,2,3,4,6,7,8-Hepta CDD	2011/04/17		97	%	80 - 140
		Octa CDD	2011/04/17		99	%	80 - 140
		2,3,7,8-Tetra CDF	2011/04/17		99	%	80 - 140
		1,2,3,7,8-Penta CDF	2011/04/17		99	%	80 - 140
		2,3,4,7,8-Penta CDF	2011/04/17		103	%	80 - 140
		1,2,3,4,7,8-Hexa CDF	2011/04/17		96	%	80 - 140
		1,2,3,6,7,8-Hexa CDF	2011/04/17		93	%	80 - 140
		2,3,4,6,7,8-Hexa CDF	2011/04/17		98	%	80 - 140
		1,2,3,7,8,9-Hexa CDF	2011/04/17		106	%	80 - 140
		1,2,3,4,6,7,8-Hepta CDF	2011/04/17		99	%	80 - 140
		1,2,3,4,7,8,9-Hepta CDF	2011/04/17		96	%	80 - 140
		Octa CDF	2011/04/17		108	%	80 - 140
	Method Blank	C13-1234678 HeptaCDD	2011/04/17		107	%	40 - 135
		C13-1234678 HeptaCDF	2011/04/17		116	%	40 - 135
		C13-123478 HexaCDF	2011/04/17		109	%	40 - 135
		C13-123678 HexaCDD	2011/04/17		111	%	40 - 135
		C13-12378 PentaCDD	2011/04/17		100	%	40 - 135
		C13-12378 PentaCDF	2011/04/17		93	%	40 - 135
		C13-2378 TetraCDD	2011/04/17		96	%	40 - 135
		C13-2378 TetraCDF	2011/04/17		103	%	40 - 135
		C13-OCDD	2011/04/17		99	%	40 - 135
		2,3,7,8-Tetra CDD	2011/04/17	0.52 U, EDL=0.52		pg/L	
		1,2,3,7,8-Penta CDD	2011/04/17	0.82 U, EDL=0.82		pg/L	
		1,2,3,4,7,8-Hexa CDD	2011/04/17	0.58 U, EDL=0.58		pg/L	
		1,2,3,6,7,8-Hexa CDD	2011/04/17	0.52 U, EDL=0.52		pg/L	
		1,2,3,7,8,9-Hexa CDD	2011/04/17	0.52 U, EDL=0.52		pg/L	
		1,2,3,4,6,7,8-Hepta CDD	2011/04/17	0.74 U, EDL=0.74 (1)		pg/L	
		Octa CDD	2011/04/17	1.7 U, EDL=1.7 (1)		pg/L	
		Total Tetra CDD	2011/04/17	1.8 U, EDL=1.8 (1)		pg/L	
		Total Penta CDD	2011/04/17	0.82 U, EDL=0.82		pg/L	
		Total Hexa CDD	2011/04/17	0.99 U, EDL=0.99 (1)		pg/L	
		Total Hepta CDD	2011/04/17	0.74 U, EDL=0.74 (1)		pg/L	
		2,3,7,8-Tetra CDF	2011/04/17	0.65 J, EDL=0.56		pg/L	
		1,2,3,7,8-Penta CDF	2011/04/17	0.62 U, EDL=0.62		pg/L	
		2,3,4,7,8-Penta CDF	2011/04/17	2.00 J, EDL=0.64		pg/L	
		1,2,3,4,7,8-Hexa CDF	2011/04/17	0.51 U, EDL=0.51		pg/L	
		1,2,3,6,7,8-Hexa CDF	2011/04/17	0.49 U, EDL=0.49		pg/L	
		2,3,4,6,7,8-Hexa CDF	2011/04/17	0.56 U, EDL=0.56		pg/L	
		1,2,3,7,8,9-Hexa CDF	2011/04/17	0.62 U, EDL=0.62		pg/L	
		1,2,3,4,6,7,8-Hepta CDF	2011/04/17	0.53 U, EDL=0.53 (1)		pg/L	
		1,2,3,4,7,8,9-Hepta CDF	2011/04/17	0.61 U, EDL=0.61		pg/L	

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 04/19/2011 11:39
Project: Nine Par
Project Number: 103 97163-11
Project Manager: Tom Vercoutere

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Attention: Linda Phoudamneun
Client Project #: 1104123
P.O. #:
Project name:

Quality Assurance Report (Continued)

Maxxam Job Number: GB135928

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2461093 AGU	Method Blank	Octa CDF	2011/04/17	1.1 U, EDL=1.1		pg/L	
		Total Tetra CDF	2011/04/17	3.04 J, EDL=0.56		pg/L	
		Total Penta CDF	2011/04/17	2.00 J, EDL=0.63		pg/L	
		Total Hexa CDF	2011/04/17	0.54 U, EDL=0.54		pg/L	
		Total Hepta CDF	2011/04/17	0.59 U, EDL=0.59 (1)		pg/L	
2462033 AGU	Method Blank	Confirmation C13-2378 TetraCDF	2011/04/18		101	%	40 - 135
		Confirmation 2,3,7,8-Tetra CDF	2011/04/18	2.2 U, EDL=2.2		pg/L	

Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

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Golder Associates 425 Lakeside Drive Sunnyvale, CA 94085	**Reported:** 04/19/2011 11:39 Project: Nine Par Project Number: 103 97163-11 Project Manager: Tom Vercoutere

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Validation Signature Page

Maxxam Job #: B135928

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

OWEN COSBY, BSc/C.Chem, Supervisor, HRMS Services

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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Golder Associates 425 Lakeside Drive Sunnyvale, CA 94085	**Reported:** 04/19/2011 11:39 Project: Nine Par Project Number: 103 97163-11 Project Manager: Tom Vercoutere

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A01	PQL's and MDL's are raised due to sample dilution.
A02	The difference between duplicate readings is less than the PQL.
A03	The sample concentration is more than 4 times the spike level.
A10	PQL's and MDL's were raised due to matrix interference.
A19	Surrogate is high due to matrix interference. Interferences verified through second extraction/analysis.
A20	Surrogate is low due to matrix interference. Interference verified through second extraction/analysis.
L01	The Laboratory Control Sample Water (LCSW) recovery is not within laboratory established control limits.
L02	The Laboratory Control Sample Water (LCSW) recovery is not within method established control limits.
Q03	Matrix spike recovery(s) is(are) not within the control limits.
S09	The surrogate recovery on the sample for this compound was not within the control limits.
V11	The Continuing Calibration Verification (CCV) recovery is not within established control limits.
Z1	Added 100uL of Anti-foamer to the sample

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Date of Report: 03/21/2011

Tom Vercoutere

Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

RE:	Nine Par
BC Work Order:	1104034
Invoice ID:	B097345

Enclosed are the results of analyses for samples received by the laboratory on 3/11/2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Linda Phoudamneun

Contact Person: Linda Phoudamneun
Client Service Rep

Authorized Signature

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Executive Summary - Detections

Constituent	Result	PQL	MDL	Units	Method	Lab Quals
1104034-01 LW-3-5.5-6, 3/7/2011 3:00:00PM						
Gasoline Range Organics (C4 - C12)	0.60	1.0	0.10	mg/kg	Luft	J
TPH - C10 - C11	5.7	5.0	2.5	mg/kg	EPA-8015CC	A01
TPH - C12 - C14	3.6	5.0	2.5	mg/kg	EPA-8015CC	J,A01
TPH - C19 - C20	3.7	5.0	2.5	mg/kg	EPA-8015CC	J,A01
TPH - C21 - C22	7.5	5.0	2.5	mg/kg	EPA-8015CC	A01
TPH - C23 - C28	53	5.0	2.5	mg/kg	EPA-8015CC	A01
TPH - C29 - C32	53	5.0	2.5	mg/kg	EPA-8015CC	A01
TPH - C33 - C36	40	5.0	2.5	mg/kg	EPA-8015CC	A01
TPH - C37 - C40	11	5.0	2.5	mg/kg	EPA-8015CC	A01
TPH (Total)	180	50	12	mg/kg	EPA-8015CC	A01
Antimony	1.4	5.0	0.50	mg/kg	EPA-6010B	J
Arsenic	5.6	1.0	0.38	mg/kg	EPA-6010B	
Barium	140	0.50	0.077	mg/kg	EPA-6010B	
Beryllium	0.40	0.50	0.050	mg/kg	EPA-6010B	J
Cadmium	0.40	0.50	0.050	mg/kg	EPA-6010B	J
Chromium	52	0.50	0.060	mg/kg	EPA-6010B	
Cobalt	12	2.5	0.25	mg/kg	EPA-6010B	
Copper	35	1.0	0.12	mg/kg	EPA-6010B	
Lead	31	2.5	0.25	mg/kg	EPA-6010B	
Mercury	0.21	0.16	0.012	mg/kg	EPA-7471A	
Molybdenum	1.2	2.5	0.25	mg/kg	EPA-6010B	J
Nickel	72	0.50	0.058	mg/kg	EPA-6010B	
Selenium	1.5	1.0	0.51	mg/kg	EPA-6010B	
Vanadium	42	0.50	0.050	mg/kg	EPA-6010B	
Zinc	82	2.5	0.25	mg/kg	EPA-6010B	
1104034-02 LW-2-12.5-14.5, 3/8/2011 12:00:00PM						
TPH - C12 - C14	2.1	1.0	0.50	mg/kg	EPA-8015CC	
TPH - C15 - C16	2.8	1.0	0.50	mg/kg	EPA-8015CC	
TPH - C17 - C18	3.9	1.0	0.50	mg/kg	EPA-8015CC	
TPH - C19 - C20	6.9	1.0	0.50	mg/kg	EPA-8015CC	
TPH - C21 - C22	6.3	1.0	0.50	mg/kg	EPA-8015CC	
TPH - C23 - C28	13	1.0	0.50	mg/kg	EPA-8015CC	
TPH - C29 - C32	11	1.0	0.50	mg/kg	EPA-8015CC	
TPH - C33 - C36	7.5	1.0	0.50	mg/kg	EPA-8015CC	
TPH - C37 - C40	2.0	1.0	0.50	mg/kg	EPA-8015CC	
TPH (Total)	55	10	2.3	mg/kg	EPA-8015CC	
Antimony	1.5	5.0	0.50	mg/kg	EPA-6010B	J
Arsenic	7.5	1.0	0.38	mg/kg	EPA-6010B	

Executive Summary - Detections

Constituent	Result	PQL	MDL	Units	Method	Lab Quals
1104034-02 LW-2-12.5-14.5, 3/8/2011 12:00:00PM						
Barium	150	0.50	0.077	mg/kg	EPA-6010B	
Beryllium	0.40	0.50	0.050	mg/kg	EPA-6010B	J
Cadmium	0.16	0.50	0.050	mg/kg	EPA-6010B	J
Chromium	48	0.50	0.060	mg/kg	EPA-6010B	
Cobalt	11	2.5	0.25	mg/kg	EPA-6010B	
Copper	30	1.0	0.12	mg/kg	EPA-6010B	
Lead	9.2	2.5	0.25	mg/kg	EPA-6010B	
Molybdenum	0.75	2.5	0.25	mg/kg	EPA-6010B	J
Nickel	79	0.50	0.058	mg/kg	EPA-6010B	
Selenium	2.3	1.0	0.51	mg/kg	EPA-6010B	
Vanadium	34	0.50	0.050	mg/kg	EPA-6010B	
Zinc	59	2.5	0.25	mg/kg	EPA-6010B	
1104034-03 LW-2-15, 3/8/2011 12:30:00PM						
Gasoline Range Organics (C4 - C12)	0.56	1.0	0.10	mg/kg	Luft	J
TPH - C17 - C18	0.68	1.0	0.50	mg/kg	EPA-8015CC	J
TPH - C19 - C20	2.5	1.0	0.50	mg/kg	EPA-8015CC	
TPH - C21 - C22	4.3	1.0	0.50	mg/kg	EPA-8015CC	
TPH - C23 - C28	22	1.0	0.50	mg/kg	EPA-8015CC	
TPH - C29 - C32	14	1.0	0.50	mg/kg	EPA-8015CC	
TPH - C33 - C36	6.4	1.0	0.50	mg/kg	EPA-8015CC	
TPH - C37 - C40	1.5	1.0	0.50	mg/kg	EPA-8015CC	
TPH (Total)	52	10	2.3	mg/kg	EPA-8015CC	
Antimony	7.0	5.0	0.50	mg/kg	EPA-6010B	
Arsenic	9.2	1.0	0.38	mg/kg	EPA-6010B	
Barium	170	0.50	0.077	mg/kg	EPA-6010B	
Beryllium	0.094	0.50	0.050	mg/kg	EPA-6010B	J
Cadmium	2.9	0.50	0.050	mg/kg	EPA-6010B	
Chromium	770	0.50	0.060	mg/kg	EPA-6010B	
Cobalt	21	2.5	0.25	mg/kg	EPA-6010B	
Copper	330	1.0	0.12	mg/kg	EPA-6010B	
Lead	89	2.5	0.25	mg/kg	EPA-6010B	
Molybdenum	5.5	2.5	0.25	mg/kg	EPA-6010B	
Nickel	62	0.50	0.058	mg/kg	EPA-6010B	
Selenium	0.55	1.0	0.51	mg/kg	EPA-6010B	J
Silver	1.4	0.50	0.050	mg/kg	EPA-6010B	
Vanadium	9.4	0.50	0.050	mg/kg	EPA-6010B	
Zinc	1100	2.5	0.25	mg/kg	EPA-6010B	

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Golder Associates

1104034

Golder Associates
CHAIN OF CUSTODY

Page 1 of 1
Quotation No.

PROJECT NO.: 103 97163 11
SITE NAME: 9-par
SAMPLER(S): Jeff Linder (printed) (signature)
CONTRACT LABORATORY: BC LABS
TURN-AROUND TIME: Standard

ANALYSES: TPH; CAM 17 metals

EDD required? [X] Yes [ ] No
EDF required? [X] Yes [ ] No

Sample I.D.	Lab I.D.	Collection Date	Collection Time	Matrix	Depth	Container Info: Type/Vol.	Filter	Preserv.	TPH	CAM 17 metals	Cont. Qty.	Remarks
						12oz glass	No	No				
LW-3-5.5-6		3/7/11	1500	Soil	5.5-6				X	X	1	total Petroleum hydrocarbons
LW-2-12.5-14.5		3/8/11	1200	S	12.5-14.5				X	X	1	
LW-2-15		3/8/11	1230	S	15				X	X	1	

CHK BY: MM
DISTRIBUTION: SECURITY / PDF / MAIL / SUB-OUT

Relinquished by: (signature)	Received by: (signature)	Date/Time:
Jeff L	PBINS BCL	3/11/11 1050 am
BCL 3/11/11 1530		3-11-11 1545
3-11-11		3-11-11 1700

SEND RESULTS TO:
Attn: Tom Vercoutere
Golder Associates Inc.
425 Lakeside Drive
Sunnyvale, CA 94085
Phone (408) 220-9223
Fax (408) 220-9224

white: lab copy; yellow: project file

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4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com

Chain of Custody and Cooler Receipt Form for 1104034 Page 2 of 2

SAMPLE RECEIPT FORM Rev. No. 12 06/24/08 Page 1 Of 1

BC LABORATORIES INC.

Submission #: 1104034

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☑ None ☐
Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: ~~BOTTLE~~ Thermometer ID: 163 Date/Time 3-3-11

Temperature: A 4.6 °C / C 4.6 °C Analyst Init MLM 2010

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
500ml EPA 547										
500ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
~~1PT~~ JAR 1602	A	A	A							
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:
Sample Numbering Completed By: JOW Date/Time: 3-3-11 0050
A = Actual C = Corrected

(H:\DOCS\WP8\LAB_DOCS\FORMS\SAMREC2.WPD)

Golder Associates 425 Lakeside Drive Sunnyvale, CA 94085	**Reported:** 03/21/2011 13:59 Project: Nine Par Project Number: 103 97163 11 Project Manager: Tom Vercoutere

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1104034-01	**COC Number:**	---	**Receive Date:**	03/11/2011 20:10
	Project Number:	---	**Sampling Date:**	03/07/2011 15:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	LW-3-5.5-6	**Lab Matrix:**	Solids
	Sampled By:	---	**Sample Type:**	Soil
1104034-02	**COC Number:**	---	**Receive Date:**	03/11/2011 20:10
	Project Number:	---	**Sampling Date:**	03/08/2011 12:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	LW-2-12.5-14.5	**Lab Matrix:**	Solids
	Sampled By:	---	**Sample Type:**	Soil
1104034-03	**COC Number:**	---	**Receive Date:**	03/11/2011 20:10
	Project Number:	---	**Sampling Date:**	03/08/2011 12:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	LW-2-15	**Lab Matrix:**	Solids
	Sampled By:	---	**Sample Type:**	Soil

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/21/2011 13:59
Project: Nine Par
Project Number: 103 97163 11
Project Manager: Tom Vercoutere

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1104034-01 | **Client Sample Name:** LW-3-5.5-6, 3/7/2011 3:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	**0.60**	**mg/kg**	**1.0**	**0.10**	**Luft**	**ND**	**J**	1
TPH - C8 - C9	ND	mg/kg	5.0	2.5	EPA-8015CC	ND	A01	2
TPH - C10 - C11	**5.7**	**mg/kg**	**5.0**	**2.5**	**EPA-8015CC**	**ND**	**A01**	2
TPH - C12 - C14	**3.6**	**mg/kg**	**5.0**	**2.5**	**EPA-8015CC**	**ND**	**J,A01**	2
TPH - C15 - C16	ND	mg/kg	5.0	2.5	EPA-8015CC	ND	A01	2
TPH - C17 - C18	ND	mg/kg	5.0	2.5	EPA-8015CC	ND	A01	2
TPH - C19 - C20	**3.7**	**mg/kg**	**5.0**	**2.5**	**EPA-8015CC**	**ND**	**J,A01**	2
TPH - C21 - C22	**7.5**	**mg/kg**	**5.0**	**2.5**	**EPA-8015CC**	**ND**	**A01**	2
TPH - C23 - C28	**53**	**mg/kg**	**5.0**	**2.5**	**EPA-8015CC**	**ND**	**A01**	2
TPH - C29 - C32	**53**	**mg/kg**	**5.0**	**2.5**	**EPA-8015CC**	**ND**	**A01**	2
TPH - C33 - C36	**40**	**mg/kg**	**5.0**	**2.5**	**EPA-8015CC**	**ND**	**A01**	2
TPH - C37 - C40	**11**	**mg/kg**	**5.0**	**2.5**	**EPA-8015CC**	**ND**	**A01**	2
TPH - C41 - C43	ND	mg/kg	5.0	2.5	EPA-8015CC	ND	A01	2
TPH - C44 plus	ND	mg/kg	5.0	2.5	EPA-8015CC	ND	A01	2
TPH (Total)	**180**	**mg/kg**	**50**	**12**	**EPA-8015CC**	**ND**	**A01**	2
Tetracosane (Surrogate)	83.1	%	20 - 145 (LCL - UCL)		EPA-8015CC		A01	2
a,a,a-Trifluorotoluene (FID Surrogate)	93.0	%	70 - 130 (LCL - UCL)		Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	03/14/11	03/14/11 13:19	JJH	GC-V8	1	BUC0977
2	EPA-8015CC	03/14/11	03/17/11 10:13	EJB	GC-2	5	BUC1358

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/21/2011 13:59
Project: Nine Par
Project Number: 103 97163 11
Project Manager: Tom Vercoutere

Total Concentrations (TTLC)

BCL Sample ID: 1104034-01 | **Client Sample Name:** LW-3-5.5-6, 3/7/2011 3:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Antimony	**1.4**	**mg/kg**	**5.0**	**0.50**	**EPA-6010B**	**ND**	**J**	1
Arsenic	**5.6**	**mg/kg**	**1.0**	**0.38**	**EPA-6010B**	**ND**		1
Barium	**140**	**mg/kg**	**0.50**	**0.077**	**EPA-6010B**	**ND**		1
Beryllium	**0.40**	**mg/kg**	**0.50**	**0.050**	**EPA-6010B**	**ND**	**J**	1
Cadmium	**0.40**	**mg/kg**	**0.50**	**0.050**	**EPA-6010B**	**ND**	**J**	1
Chromium	**52**	**mg/kg**	**0.50**	**0.060**	**EPA-6010B**	**ND**		1
Cobalt	**12**	**mg/kg**	**2.5**	**0.25**	**EPA-6010B**	**ND**		1
Copper	**35**	**mg/kg**	**1.0**	**0.12**	**EPA-6010B**	**ND**		1
Lead	**31**	**mg/kg**	**2.5**	**0.25**	**EPA-6010B**	**ND**		1
Mercury	**0.21**	**mg/kg**	**0.16**	**0.012**	**EPA-7471A**	**ND**		2
Molybdenum	**1.2**	**mg/kg**	**2.5**	**0.25**	**EPA-6010B**	**ND**	**J**	1
Nickel	**72**	**mg/kg**	**0.50**	**0.058**	**EPA-6010B**	**ND**		1
Selenium	**1.5**	**mg/kg**	**1.0**	**0.51**	**EPA-6010B**	**ND**		1
Silver	ND	mg/kg	0.50	0.050	EPA-6010B	ND		1
Thallium	ND	mg/kg	5.0	0.73	EPA-6010B	ND		1
Vanadium	**42**	**mg/kg**	**0.50**	**0.050**	**EPA-6010B**	**ND**		1
Zinc	**82**	**mg/kg**	**2.5**	**0.25**	**EPA-6010B**	**ND**		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	03/15/11	03/16/11 07:34	ARD	PE-OP1	1	BUC1112
2	EPA-7471A	03/16/11	03/21/11 09:56	MEV	CETAC1	0.992	BUC1240

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/21/2011 13:59
Project: Nine Par
Project Number: 103 97163 11
Project Manager: Tom Vercoutere

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1104034-02 | **Client Sample Name:** LW-2-12.5-14.5, 3/8/2011 12:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	0.10	Luft	ND		1
TPH - C8 - C9	ND	mg/kg	1.0	0.50	EPA-8015CC	ND		2
TPH - C10 - C11	ND	mg/kg	1.0	0.50	EPA-8015CC	ND		2
TPH - C12 - C14	**2.1**	**mg/kg**	**1.0**	**0.50**	**EPA-8015CC**	**ND**		2
TPH - C15 - C16	**2.8**	**mg/kg**	**1.0**	**0.50**	**EPA-8015CC**	**ND**		2
TPH - C17 - C18	**3.9**	**mg/kg**	**1.0**	**0.50**	**EPA-8015CC**	**ND**		2
TPH - C19 - C20	**6.9**	**mg/kg**	**1.0**	**0.50**	**EPA-8015CC**	**ND**		2
TPH - C21 - C22	**6.3**	**mg/kg**	**1.0**	**0.50**	**EPA-8015CC**	**ND**		2
TPH - C23 - C28	**13**	**mg/kg**	**1.0**	**0.50**	**EPA-8015CC**	**ND**		2
TPH - C29 - C32	**11**	**mg/kg**	**1.0**	**0.50**	**EPA-8015CC**	**ND**		2
TPH - C33 - C36	**7.5**	**mg/kg**	**1.0**	**0.50**	**EPA-8015CC**	**ND**		2
TPH - C37 - C40	**2.0**	**mg/kg**	**1.0**	**0.50**	**EPA-8015CC**	**ND**		2
TPH - C41 - C43	ND	mg/kg	1.0	0.50	EPA-8015CC	ND		2
TPH - C44 plus	ND	mg/kg	1.0	0.50	EPA-8015CC	ND		2
TPH (Total)	**55**	**mg/kg**	**10**	**2.3**	**EPA-8015CC**	**ND**		2
Tetracosane (Surrogate)	70.0	%	20 - 145 (LCL - UCL)		EPA-8015CC			2
a,a,a-Trifluorotoluene (FID Surrogate)	93.2	%	70 - 130 (LCL - UCL)		Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	03/14/11	03/14/11 13:49	JJH	GC-V8	1	BUC0977
2	EPA-8015CC	03/14/11	03/16/11 20:42	EJB	GC-2	1	BUC1358

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/21/2011 13:59
Project: Nine Par
Project Number: 103 97163 11
Project Manager: Tom Vercoutere

Total Concentrations (TTLC)

BCL Sample ID: 1104034-02 | **Client Sample Name:** LW-2-12.5-14.5, 3/8/2011 12:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Antimony	**1.5**	**mg/kg**	**5.0**	**0.50**	**EPA-6010B**	**ND**	**J**	1
Arsenic	**7.5**	**mg/kg**	**1.0**	**0.38**	**EPA-6010B**	**ND**		1
Barium	**150**	**mg/kg**	**0.50**	**0.077**	**EPA-6010B**	**ND**		1
Beryllium	**0.40**	**mg/kg**	**0.50**	**0.050**	**EPA-6010B**	**ND**	**J**	1
Cadmium	**0.16**	**mg/kg**	**0.50**	**0.050**	**EPA-6010B**	**ND**	**J**	1
Chromium	**48**	**mg/kg**	**0.50**	**0.060**	**EPA-6010B**	**ND**		1
Cobalt	**11**	**mg/kg**	**2.5**	**0.25**	**EPA-6010B**	**ND**		1
Copper	**30**	**mg/kg**	**1.0**	**0.12**	**EPA-6010B**	**ND**		1
Lead	**9.2**	**mg/kg**	**2.5**	**0.25**	**EPA-6010B**	**ND**		1
Mercury	ND	mg/kg	0.16	0.012	EPA-7471A	ND		2
Molybdenum	**0.75**	**mg/kg**	**2.5**	**0.25**	**EPA-6010B**	**ND**	**J**	1
Nickel	**79**	**mg/kg**	**0.50**	**0.058**	**EPA-6010B**	**ND**		1
Selenium	**2.3**	**mg/kg**	**1.0**	**0.51**	**EPA-6010B**	**ND**		1
Silver	ND	mg/kg	0.50	0.050	EPA-6010B	ND		1
Thallium	ND	mg/kg	5.0	0.73	EPA-6010B	ND		1
Vanadium	**34**	**mg/kg**	**0.50**	**0.050**	**EPA-6010B**	**ND**		1
Zinc	**59**	**mg/kg**	**2.5**	**0.25**	**EPA-6010B**	**ND**		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	03/15/11	03/16/11 07:36	ARD	PE-OP1	1	BUC1112
2	EPA-7471A	03/16/11	03/21/11 10:11	MEV	CETAC1	0.977	BUC1240

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/21/2011 13:59
Project: Nine Par
Project Number: 103 97163 11
Project Manager: Tom Vercoutere

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1104034-03 | **Client Sample Name:** LW-2-15, 3/8/2011 12:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	**0.56**	**mg/kg**	**1.0**	**0.10**	**Luft**	**ND**	**J**	1
TPH - C8 - C9	ND	mg/kg	1.0	0.50	EPA-8015CC	ND		2
TPH - C10 - C11	ND	mg/kg	1.0	0.50	EPA-8015CC	ND		2
TPH - C12 - C14	ND	mg/kg	1.0	0.50	EPA-8015CC	ND		2
TPH - C15 - C16	ND	mg/kg	1.0	0.50	EPA-8015CC	ND		2
TPH - C17 - C18	**0.68**	**mg/kg**	**1.0**	**0.50**	**EPA-8015CC**	**ND**	**J**	2
TPH - C19 - C20	**2.5**	**mg/kg**	**1.0**	**0.50**	**EPA-8015CC**	**ND**		2
TPH - C21 - C22	**4.3**	**mg/kg**	**1.0**	**0.50**	**EPA-8015CC**	**ND**		2
TPH - C23 - C28	**22**	**mg/kg**	**1.0**	**0.50**	**EPA-8015CC**	**ND**		2
TPH - C29 - C32	**14**	**mg/kg**	**1.0**	**0.50**	**EPA-8015CC**	**ND**		2
TPH - C33 - C36	**6.4**	**mg/kg**	**1.0**	**0.50**	**EPA-8015CC**	**ND**		2
TPH - C37 - C40	**1.5**	**mg/kg**	**1.0**	**0.50**	**EPA-8015CC**	**ND**		2
TPH - C41 - C43	ND	mg/kg	1.0	0.50	EPA-8015CC	ND		2
TPH - C44 plus	ND	mg/kg	1.0	0.50	EPA-8015CC	ND		2
TPH (Total)	**52**	**mg/kg**	**10**	**2.3**	**EPA-8015CC**	**ND**		2
Tetracosane (Surrogate)	97.5	%	20 - 145 (LCL - UCL)		EPA-8015CC			2
a,a,a-Trifluorotoluene (FID Surrogate)	72.0	%	70 - 130 (LCL - UCL)		Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	03/14/11	03/15/11 10:28	JJH	GC-V8	1	BUC0977
2	EPA-8015CC	03/14/11	03/16/11 21:06	EJB	GC-2	0.997	BUC1358

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425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/21/2011 13:59
Project: Nine Par
Project Number: 103 97163 11
Project Manager: Tom Vercoutere

Total Concentrations (TTLC)

BCL Sample ID: 1104034-03 **Client Sample Name:** LW-2-15, 3/8/2011 12:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Antimony	**7.0**	**mg/kg**	**5.0**	**0.50**	**EPA-6010B**	**ND**		1
Arsenic	**9.2**	**mg/kg**	**1.0**	**0.38**	**EPA-6010B**	**ND**		1
Barium	**170**	**mg/kg**	**0.50**	**0.077**	**EPA-6010B**	**ND**		1
Beryllium	**0.094**	**mg/kg**	**0.50**	**0.050**	**EPA-6010B**	**ND**	**J**	1
Cadmium	**2.9**	**mg/kg**	**0.50**	**0.050**	**EPA-6010B**	**ND**		1
Chromium	**770**	**mg/kg**	**0.50**	**0.060**	**EPA-6010B**	**ND**		1
Cobalt	**21**	**mg/kg**	**2.5**	**0.25**	**EPA-6010B**	**ND**		1
Copper	**330**	**mg/kg**	**1.0**	**0.12**	**EPA-6010B**	**ND**		1
Lead	**89**	**mg/kg**	**2.5**	**0.25**	**EPA-6010B**	**ND**		1
Mercury	ND	mg/kg	0.16	0.012	EPA-7471A	ND		2
Molybdenum	**5.5**	**mg/kg**	**2.5**	**0.25**	**EPA-6010B**	**ND**		1
Nickel	**62**	**mg/kg**	**0.50**	**0.058**	**EPA-6010B**	**ND**		1
Selenium	**0.55**	**mg/kg**	**1.0**	**0.51**	**EPA-6010B**	**ND**	**J**	1
Silver	**1.4**	**mg/kg**	**0.50**	**0.050**	**EPA-6010B**	**ND**		1
Thallium	ND	mg/kg	5.0	0.73	EPA-6010B	ND		1
Vanadium	**9.4**	**mg/kg**	**0.50**	**0.050**	**EPA-6010B**	**ND**		1
Zinc	**1100**	**mg/kg**	**2.5**	**0.25**	**EPA-6010B**	**ND**		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	03/15/11	03/16/11 07:47	ARD	PE-OP1	1	BUC1112
2	EPA-7471A	03/16/11	03/21/11 10:13	MEV	CETAC1	0.977	BUC1240

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425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/21/2011 13:59
Project: Nine Par
Project Number: 103 97163 11
Project Manager: Tom Vercoutere

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC0977						
Gasoline Range Organics (C4 - C12)	BUC0977-BLK1	ND	mg/kg	1.0	0.10	
a,a,a-Trifluorotoluene (FID Surrogate)	BUC0977-BLK1	97.2	%	70 - 130 (LCL - UCL)		
QC Batch ID: BUC1358						
TPH - C8 - C9	BUC1358-BLK1	ND	mg/kg	1.0	0.50	
TPH - C10 - C11	BUC1358-BLK1	ND	mg/kg	1.0	0.50	
TPH - C12 - C14	BUC1358-BLK1	ND	mg/kg	1.0	0.50	
TPH - C15 - C16	BUC1358-BLK1	ND	mg/kg	1.0	0.50	
TPH - C17 - C18	BUC1358-BLK1	ND	mg/kg	1.0	0.50	
TPH - C19 - C20	BUC1358-BLK1	ND	mg/kg	1.0	0.50	
TPH - C21 - C22	BUC1358-BLK1	ND	mg/kg	1.0	0.50	
TPH - C23 - C28	BUC1358-BLK1	ND	mg/kg	1.0	0.50	
TPH - C29 - C32	BUC1358-BLK1	ND	mg/kg	1.0	0.50	
TPH - C33 - C36	BUC1358-BLK1	ND	mg/kg	1.0	0.50	
TPH - C37 - C40	BUC1358-BLK1	ND	mg/kg	1.0	0.50	
TPH - C41 - C43	BUC1358-BLK1	ND	mg/kg	1.0	0.50	
TPH - C44 plus	BUC1358-BLK1	ND	mg/kg	1.0	0.50	
TPH (Total)	BUC1358-BLK1	ND	mg/kg	10	2.3	
TPH - Diesel (FFP)	BUC1358-BLK1	ND	mg/kg	10	1.2	
Tetracosane (Surrogate)	BUC1358-BLK1	105	%	20 - 145 (LCL - UCL)		

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Reported: 03/21/2011 13:59
Project: Nine Par
Project Number: 103 97163 11
Project Manager: Tom Vercoutere

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUC0977										
Gasoline Range Organics (C4 - C12)	BUC0977-BS1	LCS	4.8475	5.0000	mg/kg	97.0		85 - 115		
a,a,a-Trifluorotoluene (FID Surrogate)	BUC0977-BS1	LCS	0.039200	0.040000	mg/kg	98.0		70 - 130		
QC Batch ID: BUC1358										
TPH - Diesel (FFP)	BUC1358-BS1	LCS	75.699	83.333	mg/kg	90.8		64 - 124		
Tetracosane (Surrogate)	BUC1358-BS1	LCS	3.2643	3.3333	mg/kg	97.9		20 - 145		

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Reported: 03/21/2011 13:59
Project: Nine Par
Project Number: 103 97163 11
Project Manager: Tom Vercoutere

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC0977	Used client sample: N										
Gasoline Range Organics (C4 - C12)	MS	1102229-79	ND	5.0563	5.0000	mg/kg		101		70 - 130	
	MSD	1102229-79	ND	4.8374	5.0000	mg/kg	4.4	96.7	20	70 - 130	
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1102229-79	ND	0.039900	0.040000	mg/kg		99.8		70 - 130	
	MSD	1102229-79	ND	0.041100	0.040000	mg/kg	3.0	103		70 - 130	
QC Batch ID: BUC1358	Used client sample: N										
TPH - Diesel (FFP)	MS	1103980-01	ND	83.750	83.056	mg/kg		101		52 - 131	
	MSD	1103980-01	ND	82.855	83.333	mg/kg	1.1	99.4	30	52 - 131	
Tetracosane (Surrogate)	MS	1103980-01	ND	3.5798	3.3223	mg/kg		108		20 - 145	
	MSD	1103980-01	ND	3.6585	3.3333	mg/kg	2.2	110		20 - 145	

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425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/21/2011 13:59
Project: Nine Par
Project Number: 103 97163 11
Project Manager: Tom Vercoutere

Total Concentrations (TTLC)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC1112						
Antimony	BUC1112-BLK1	ND	mg/kg	5.0	0.50	
Arsenic	BUC1112-BLK1	ND	mg/kg	1.0	0.38	
Barium	BUC1112-BLK1	ND	mg/kg	0.50	0.077	
Beryllium	BUC1112-BLK1	ND	mg/kg	0.50	0.050	
Cadmium	BUC1112-BLK1	ND	mg/kg	0.50	0.050	
Chromium	BUC1112-BLK1	ND	mg/kg	0.50	0.060	
Cobalt	BUC1112-BLK1	ND	mg/kg	2.5	0.25	
Copper	BUC1112-BLK1	ND	mg/kg	1.0	0.12	
Lead	BUC1112-BLK1	ND	mg/kg	2.5	0.25	
Molybdenum	BUC1112-BLK1	ND	mg/kg	2.5	0.25	
Nickel	BUC1112-BLK1	ND	mg/kg	0.50	0.058	
Selenium	BUC1112-BLK1	ND	mg/kg	1.0	0.51	
Silver	BUC1112-BLK1	ND	mg/kg	0.50	0.050	
Thallium	BUC1112-BLK1	ND	mg/kg	5.0	0.73	
Vanadium	BUC1112-BLK1	ND	mg/kg	0.50	0.050	
Zinc	BUC1112-BLK1	ND	mg/kg	2.5	0.25	
QC Batch ID: BUC1240						
Mercury	BUC1240-BLK1	ND	mg/kg	0.16	0.012	

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Reported: 03/21/2011 13:59
Project: Nine Par
Project Number: 103 97163 11
Project Manager: Tom Vercoutere

Total Concentrations (TTLC)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUC1112										
Antimony	BUC1112-BS1	LCS	97.767	100.00	mg/kg	97.8		75 - 125		
Arsenic	BUC1112-BS1	LCS	9.9613	10.000	mg/kg	99.6		75 - 125		
Barium	BUC1112-BS1	LCS	103.09	100.00	mg/kg	103		75 - 125		
Beryllium	BUC1112-BS1	LCS	10.431	10.000	mg/kg	104		75 - 125		
Cadmium	BUC1112-BS1	LCS	10.374	10.000	mg/kg	104		75 - 125		
Chromium	BUC1112-BS1	LCS	102.40	100.00	mg/kg	102		75 - 125		
Cobalt	BUC1112-BS1	LCS	107.02	100.00	mg/kg	107		75 - 125		
Copper	BUC1112-BS1	LCS	99.568	100.00	mg/kg	99.6		75 - 125		
Lead	BUC1112-BS1	LCS	106.60	100.00	mg/kg	107		75 - 125		
Molybdenum	BUC1112-BS1	LCS	101.00	100.00	mg/kg	101		75 - 125		
Nickel	BUC1112-BS1	LCS	107.86	100.00	mg/kg	108		75 - 125		
Selenium	BUC1112-BS1	LCS	10.731	10.000	mg/kg	107		75 - 125		
Silver	BUC1112-BS1	LCS	9.9896	10.000	mg/kg	99.9		75 - 125		
Thallium	BUC1112-BS1	LCS	107.69	100.00	mg/kg	108		75 - 125		
Vanadium	BUC1112-BS1	LCS	101.35	100.00	mg/kg	101		75 - 125		
Zinc	BUC1112-BS1	LCS	105.59	100.00	mg/kg	106		75 - 125		
QC Batch ID: BUC1240										
Mercury	BUC1240-BS1	LCS	1.4941	1.5000	mg/kg	99.6		75 - 125		

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Reported: 03/21/2011 13:59
Project: Nine Par
Project Number: 103 97163 11
Project Manager: Tom Vercoutere

Total Concentrations (TTLC)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC1112	Used client sample: N										
Antimony	DUP	1103963-19	ND	ND		mg/kg			20		
	MS	1103963-19	ND	96.898	100.00	mg/kg		96.9		16 - 119	
	MSD	1103963-19	ND	96.548	100.00	mg/kg	0.4	96.5	20	16 - 119	
Arsenic	DUP	1103963-19	ND	ND		mg/kg			20		
	MS	1103963-19	ND	10.220	10.000	mg/kg		102		75 - 125	
	MSD	1103963-19	ND	9.9484	10.000	mg/kg	2.7	99.5	20	75 - 125	
Barium	DUP	1103963-19	0.22831	0.17434		mg/kg	26.8		20		J,A02
	MS	1103963-19	0.22831	78.801	100.00	mg/kg		78.6		75 - 125	
	MSD	1103963-19	0.22831	79.944	100.00	mg/kg	1.4	79.7	20	75 - 125	
Beryllium	DUP	1103963-19	ND	ND		mg/kg			20		
	MS	1103963-19	ND	10.225	10.000	mg/kg		102		75 - 125	
	MSD	1103963-19	ND	10.278	10.000	mg/kg	0.5	103	20	75 - 125	
Cadmium	DUP	1103963-19	ND	ND		mg/kg			20		
	MS	1103963-19	ND	10.458	10.000	mg/kg		105		75 - 125	
	MSD	1103963-19	ND	10.556	10.000	mg/kg	0.9	106	20	75 - 125	
Chromium	DUP	1103963-19	0.15180	0.16266		mg/kg	6.9		20		J
	MS	1103963-19	0.15180	101.56	100.00	mg/kg		101		75 - 125	
	MSD	1103963-19	0.15180	101.53	100.00	mg/kg	0.0	101	20	75 - 125	
Cobalt	DUP	1103963-19	0.25273	ND		mg/kg			20		
	MS	1103963-19	0.25273	105.68	100.00	mg/kg		105		75 - 125	
	MSD	1103963-19	0.25273	106.49	100.00	mg/kg	0.8	106	20	75 - 125	
Copper	DUP	1103963-19	1.4473	1.4118		mg/kg	2.5		20		
	MS	1103963-19	1.4473	104.77	100.00	mg/kg		103		75 - 125	
	MSD	1103963-19	1.4473	105.19	100.00	mg/kg	0.4	104	20	75 - 125	
Lead	DUP	1103963-19	ND	ND		mg/kg			20		
	MS	1103963-19	ND	106.42	100.00	mg/kg		106		75 - 125	
	MSD	1103963-19	ND	107.11	100.00	mg/kg	0.6	107	20	75 - 125	
Molybdenum	DUP	1103963-19	ND	ND		mg/kg			20		
	MS	1103963-19	ND	98.562	100.00	mg/kg		98.6		75 - 125	
	MSD	1103963-19	ND	99.178	100.00	mg/kg	0.6	99.2	20	75 - 125	
Nickel	DUP	1103963-19	0.13030	0.13227		mg/kg	1.5		20		J
	MS	1103963-19	0.13030	107.17	100.00	mg/kg		107		75 - 125	
	MSD	1103963-19	0.13030	107.32	100.00	mg/kg	0.1	107	20	75 - 125	
Selenium	DUP	1103963-19	0.56952	0.98242		mg/kg	53.2		20		J,A02
	MS	1103963-19	0.56952	11.157	10.000	mg/kg		106		75 - 125	
	MSD	1103963-19	0.56952	11.249	10.000	mg/kg	0.8	107	20	75 - 125	
Silver	DUP	1103963-19	0.15260	0.085394		mg/kg	56.5		20		J,A02
	MS	1103963-19	0.15260	10.091	10.000	mg/kg		99.4		75 - 125	
	MSD	1103963-19	0.15260	10.040	10.000	mg/kg	0.5	98.9	20	75 - 125	

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Sunnyvale, CA 94085

Reported: 03/21/2011 13:59
Project: Nine Par
Project Number: 103 97163 11
Project Manager: Tom Vercoutere

Total Concentrations (TTLC)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC1112	Used client sample: N										
Thallium	DUP	1103963-19	ND	ND		mg/kg			20		
	MS	1103963-19	ND	107.73	100.00	mg/kg		108		75 - 125	
	MSD	1103963-19	ND	106.92	100.00	mg/kg	0.8	107	20	75 - 125	
Vanadium	DUP	1103963-19	3444.0	3474.5		mg/kg	0.9		20		
	MS	1103963-19	3444.0	3655.5	100.00	mg/kg		212		75 - 125	A03
	MSD	1103963-19	3444.0	3581.4	100.00	mg/kg	2.0	137	20	75 - 125	A03
Zinc	DUP	1103963-19	5.5625	5.5569		mg/kg	0.1		20		
	MS	1103963-19	5.5625	112.99	100.00	mg/kg		107		75 - 125	
	MSD	1103963-19	5.5625	113.52	100.00	mg/kg	0.5	108	20	75 - 125	
QC Batch ID: BUC1240	Used client sample: Y - Description: LW-3-5.5-6, 03/07/2011 15:00										
Mercury	DUP	1104034-01	0.21000	0.27889		mg/kg	28.2		20		A02
	MS	1104034-01	0.21000	0.99016	0.79365	mg/kg		98.3		85 - 115	
	MSD	1104034-01	0.21000	0.97460	0.79365	mg/kg	1.6	96.3	20	85 - 115	

Golder Associates 425 Lakeside Drive Sunnyvale, CA 94085	**Reported:** 03/21/2011 13:59 Project: Nine Par Project Number: 103 97163 11 Project Manager: Tom Vercoutere

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A01	PQL's and MDL's are raised due to sample dilution.
A02	The difference between duplicate readings is less than the PQL.
A03	The sample concentration is more than 4 times the spike level.

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Date of Report: 03/24/2011

Tom Vercoutere

Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

RE:	Nine Par
BC Work Order:	1103253
Invoice ID:	B096944

Enclosed are the results of analyses for samples received by the laboratory on 3/1/2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Linda Phoudamneun

Contact Person: Linda Phoudamneun
Client Service Rep

Authorized Signature

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Executive Summary - Detections

Constituent	Result	PQL	MDL	Units	Method	Lab Quals
1103253-01 EB-05, 2/28/2011 10:00:00AM						
TPH - C15 - C16	27	10	5.0	ug/L	EPA-8015CC	
TPH - C17 - C18	42	10	5.0	ug/L	EPA-8015CC	
TPH - C19 - C20	38	10	5.0	ug/L	EPA-8015CC	
TPH - C21 - C22	33	10	5.0	ug/L	EPA-8015CC	
TPH - C23 - C28	130	10	5.0	ug/L	EPA-8015CC	
TPH (Total)	300	200	100	ug/L	EPA-8015CC	
Dissolved Calcium	14	0.50	0.090	mg/L	EPA-200.7	A01
Dissolved Magnesium	37	0.25	0.080	mg/L	EPA-200.7	A01
Dissolved Sodium	1500	2.5	0.25	mg/L	EPA-200.7	A01
Dissolved Potassium	9.6	5.0	0.50	mg/L	EPA-200.7	A01
Bicarbonate Alkalinity as CaCO3	1300	8.2	8.2	mg/L	EPA-310.1	
Chloride	1700	2.5	0.25	mg/L	EPA-300.0	A01
Fluoride	1.8	0.25	0.060	mg/L	EPA-300.0	A01
Nitrate/Nitrite as N	0.016	0.10	0.010	mg/L	EPA-353.2	J
Sulfate	53	5.0	0.50	mg/L	EPA-300.0	A01
Total Dissolved Solids @ 180 C	4400	200	200	mg/L	EPA-160.1	
Total Cyanide	0.012	0.0050	0.0016	mg/L	EPA-335.4	
Non-Volatile Organic Carbon	36	1.5	0.31	mg/L	EPA-415.1	A01
Dissolved Barium	120	50	6.0	ug/L	EPA-6010B	A10
Dissolved Mercury	0.045	0.20	0.034	ug/L	EPA-7470A	J
Dissolved Molybdenum	110	250	25	ug/L	EPA-6010B	J,A10
Dissolved Nickel	29	50	6.0	ug/L	EPA-6010B	J,A10
Dissolved Vanadium	6.0	50	5.0	ug/L	EPA-6010B	J,A10
1103253-02 EB-06S, 2/28/2011 2:00:00PM						
Benzene	0.15	0.50	0.083	ug/L	EPA-8260	J
cis-1,2-Dichloroethene	0.16	0.50	0.085	ug/L	EPA-8260	J
Toluene	0.14	0.50	0.093	ug/L	EPA-8260	J
TPH - C15 - C16	120	11	5.6	ug/L	EPA-8015CC	
TPH - C17 - C18	130	11	5.6	ug/L	EPA-8015CC	
TPH - C19 - C20	94	11	5.6	ug/L	EPA-8015CC	
TPH - C21 - C22	77	11	5.6	ug/L	EPA-8015CC	
TPH - C23 - C28	240	11	5.6	ug/L	EPA-8015CC	
TPH - C29 - C32	25	11	5.6	ug/L	EPA-8015CC	
TPH (Total)	710	220	110	ug/L	EPA-8015CC	
Dissolved Calcium	42	0.20	0.036	mg/L	EPA-200.7	A01
Dissolved Magnesium	95	0.10	0.032	mg/L	EPA-200.7	A01
Dissolved Sodium	1000	1.0	0.10	mg/L	EPA-200.7	A01
Dissolved Potassium	170	2.0	0.20	mg/L	EPA-200.7	A01

Executive Summary - Detections

Constituent	Result	PQL	MDL	Units	Method	Lab Quals
1103253-02 EB-06S, 2/28/2011 2:00:00PM						
Bicarbonate Alkalinity as CaCO3	1500	8.2	8.2	mg/L	EPA-310.1	
Chloride	1400	2.5	0.25	mg/L	EPA-300.0	A01
Fluoride	0.31	0.25	0.060	mg/L	EPA-300.0	A01
Nitrate/Nitrite as N	0.090	0.10	0.010	mg/L	EPA-353.2	J
Sulfate	94	5.0	0.50	mg/L	EPA-300.0	A01
Total Dissolved Solids @ 180 C	3700	200	200	mg/L	EPA-160.1	
Total Cyanide	0.011	0.0050	0.0016	mg/L	EPA-335.4	
Non-Volatile Organic Carbon	70	6.0	1.2	mg/L	EPA-415.1	A01
Dissolved Arsenic	76	100	15	ug/L	EPA-6010B	J,A10
Dissolved Barium	880	20	2.4	ug/L	EPA-6010B	A10
Dissolved Chromium	7.1	20	2.0	ug/L	EPA-6010B	J,A10
Dissolved Cobalt	10	100	10	ug/L	EPA-6010B	J,A10
Dissolved Mercury	0.035	0.20	0.034	ug/L	EPA-7470A	J
Dissolved Molybdenum	34	100	10	ug/L	EPA-6010B	J,A10
Dissolved Nickel	17	20	2.4	ug/L	EPA-6010B	J,A10
Dissolved Vanadium	5.7	20	2.0	ug/L	EPA-6010B	J,A10
1103253-03 EB-06d, 2/28/2011 4:00:00PM						
Dissolved Calcium	110	0.50	0.090	mg/L	EPA-200.7	A01
Dissolved Magnesium	400	0.25	0.080	mg/L	EPA-200.7	A01
Dissolved Sodium	4100	2.5	0.25	mg/L	EPA-200.7	A01
Dissolved Potassium	140	5.0	0.50	mg/L	EPA-200.7	A01
Bicarbonate Alkalinity as CaCO3	1500	8.2	8.2	mg/L	EPA-310.1	
Chloride	6800	10	1.0	mg/L	EPA-300.0	A01
Fluoride	1.3	1.0	0.24	mg/L	EPA-300.0	A01
Sulfate	1100	20	2.0	mg/L	EPA-300.0	A01
Total Dissolved Solids @ 180 C	14000	1000	1000	mg/L	EPA-160.1	
Total Cyanide	0.0041	0.0050	0.0016	mg/L	EPA-335.4	J
Non-Volatile Organic Carbon	19	1.5	0.31	mg/L	EPA-415.1	A01
Dissolved Barium	150	50	6.0	ug/L	EPA-6010B	A10
Dissolved Cobalt	25	250	25	ug/L	EPA-6010B	J,A10
Dissolved Mercury	0.040	0.20	0.034	ug/L	EPA-7470A	J
Dissolved Molybdenum	70	250	25	ug/L	EPA-6010B	J,A10
Dissolved Nickel	47	50	6.0	ug/L	EPA-6010B	J,A10
Dissolved Silver	13	50	5.5	ug/L	EPA-6010B	J,A10

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Golder Associates

11-03253

Golder Associates
CHAIN OF CUSTODY

Page 1 of 1
Quotation No. Standard 2011 Golder rate

PROJECT NO.: 103 97163
SITE NAME: Nine-Par
SAMPLER(S): Jeff Linder (printed) (signature)
CONTRACT LABORATORY:
TURN-AROUND TIME:

ANALYSES: *See Attached Parameter list

EDD required? [X] Yes [ ] No
EDF required? [ ] Yes [X] No

Sample I.D.	Lab I.D.	Collection Date	Collection Time	Matrix	Depth	Container Info: Type/Vol.	Filter	Preserv.	HCl	AsI_2	HNO_3	N_2O_4	H_2SO_4	2N Acetate	H_2SO_4	AsI_2	Cont. Qty.	Remarks
						Type/Vol.			40ml VOA	Amb	P 500ml	P 500ml	P 500ml	P 500ml	P 500ml	P 1L		
						Filter			N	N	Y	N	N	N	N	N		
EB-05	-1	2/28	1000	GW	–				3	5	1	1	1	1	1	1	14	
EB-06S	-2	2/28	1400	GW	–				3	5	1	1	1	1	1	1	14	
EB-06d	-3	2/28	1600	GW	–				3	5	1	1	1	1	1	1	14	

CHK BY
DISTRIBUTION
SUB-OUT

SHORT HOLDING TIME
Cr^{+6} NO_2 NO_3 OP SS
DO Cl_2 BOD MBAS COT

Relinquished by: (signature)	Received by: (signature)	Date/Time:
	P. BINS BCL	2/28/11 1705
Relinquished by: (signature) 2/28/11 1805 BCL via GSO	Received by: (signature)	Date/Time: BCL 3/1/11 @ 0755
Relinquished by: (signature)	Received by: (signature)	Date/Time:

SEND RESULTS TO:
Attn: Tom Vercontere
Golder Associates Inc.
425 Lakeside Drive
Sunnyvale, CA 94085
Phone (408) 220-9223
Fax (408) 220-9224

white: lab copy yellow: project file

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4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com

Nine Par Landfill – Preliminary Site Investigation
Zero Waste Energy Development Company
San Jose, California

Parameter Request List

Groundwater	
Volatile Organic Compounds	EPA Method 8260B
Total Petroleum Hydrocarbons	Modified EPA Method 8015
CAM 17 Metals	EPA 6000/7000 series
Semi-volatile Organic Compounds	EPA Method 8270C
Organochlorine Pesticides	EPA Method 8081
PCBs	EPA Method 8082
Chlorophenoxy Herbicides	EPA Method 8151
Cyanide	EPA Method 335.2
Sulfide	EPA Method 376.1
Anions (Cl, Fl, NO2, NO3, SO4)	EPA Method 300.0
Bicarbonate and Carbonate Alkalinity	EPA Method 310.2
Calcium, Magnesium, Potassium, and Sodium	EPA Method 200.7
Total Dissolved Solids	EPA Method 160.1
Total Organic Carbon	EPA Method 415.1

1103253

Chain of Custody and Cooler Receipt Form for 1103253 Page 3 of 4

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 12 12/30/10 Page 1 Of 2

Submission #: 11-03253

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☐ Other ☒ (Specify) GSO

SHIPPING CONTAINER
Ice Chest ☒ None ☐
Box ☐ Other ☐ (Specify)

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: .95 Container: Other Thermometer ID: #163
Temperature: (A) 4.4 °C / (C) 4.4 °C

Date/Time 3/1/11
Analyst Init BLT 0755

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL			B							
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS	C	C	C							
PT CYANIDE	D	D	D							
PT NITROGEN FORMS	E	E	E							
PT TOTAL SULFIDE	F	F	F							
1oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON	G	G	G							
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A.3	A.3	A.3							
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA ~~617~~ 8001			JKL H							
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:
Sample Numbering Completed By: [signature] Date/Time: 3/1/11 1259
A = Actual / C = Corrected

(C:\MyDOCS\WordPerfect\LAB_DOCS\FORMS\SAMREC2)

Chain of Custody and Cooler Receipt Form for 1103253 Page 4 of 4

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 12 12/30/10 Page 2 of 2

Submission #: 11-03253

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☐ Other ☒ (Specify) GSO

SHIPPING CONTAINER
Ice Chest ☒ None ☐
Box ☐ Other ☐ (Specify)

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: .95 Container: QtAm Thermometer ID: #1163
Temperature: (A) 2.7 °C / (C) 2.7 °C

Date/Time 3/1/11 0755
Analyst Init BLT

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL	B	B								
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA ~~632~~ 8081		HJSKL	I							
QT EPA 8015M	H									
QT AMBER 8270	JSKL									
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:
Sample Numbering Completed By: Cam Date/Time: 3/1/11 1259
A = Actual / C = Corrected

(C:\MyDOCS\WordPerfect\LAB_DOCS\FORMS\SAMREC2)

*

Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1103253-01	**COC Number:**	---	**Receive Date:**	03/01/2011 08:55
	Project Number:	---	**Sampling Date:**	02/28/2011 10:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	EB-05	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
			Metal Analysis:	1-Field Filtered and Acidified
1103253-02	**COC Number:**	---	**Receive Date:**	03/01/2011 08:55
	Project Number:	---	**Sampling Date:**	02/28/2011 14:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	EB-06S	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
			Metal Analysis:	1-Field Filtered and Acidified
1103253-03	**COC Number:**	---	**Receive Date:**	03/01/2011 08:55
	Project Number:	---	**Sampling Date:**	02/28/2011 16:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	EB-06d	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Groundwater
			Metal Analysis:	1-Field Filtered and Acidified

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Organochlorine Pesticides (EPA Method 8081)

BCL Sample ID: 1103253-01 | **Client Sample Name:** EB-05, 2/28/2011 10:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	ug/L	0.0050	0.0013	EPA-8081	ND		1
alpha-BHC	ND	ug/L	0.0050	0.0011	EPA-8081	ND	V11	1
beta-BHC	ND	ug/L	0.0050	0.0021	EPA-8081	ND		1
delta-BHC	ND	ug/L	0.0050	0.0014	EPA-8081	ND		1
gamma-BHC (Lindane)	ND	ug/L	0.0050	0.00094	EPA-8081	ND		1
Chlordane (Technical)	ND	ug/L	0.50	0.38	EPA-8081	ND		1
4,4'-DDD	ND	ug/L	0.0050	0.0017	EPA-8081	ND		1
4,4'-DDE	ND	ug/L	0.0050	0.0019	EPA-8081	ND		1
4,4'-DDT	ND	ug/L	0.0050	0.00076	EPA-8081	ND		1
Dieldrin	ND	ug/L	0.0050	0.0012	EPA-8081	ND		1
Endosulfan I	ND	ug/L	0.0050	0.0016	EPA-8081	ND		1
Endosulfan II	ND	ug/L	0.0050	0.0014	EPA-8081	ND		1
Endosulfan sulfate	ND	ug/L	0.0050	0.0026	EPA-8081	ND		1
Endrin	ND	ug/L	0.0050	0.00082	EPA-8081	ND		1
Endrin aldehyde	ND	ug/L	0.010	0.0032	EPA-8081	ND		1
Heptachlor	ND	ug/L	0.0050	0.0012	EPA-8081	ND		1
Heptachlor epoxide	ND	ug/L	0.0050	0.00099	EPA-8081	ND		1
Methoxychlor	ND	ug/L	0.0050	0.0011	EPA-8081	ND		1
Toxaphene	ND	ug/L	2.0	0.42	EPA-8081	ND		1
TCMX (Surrogate)	78.7	%	54 - 150 (LCL - UCL)		EPA-8081			1
Dibutyl chlorendate (Surrogate)	108	%	82 - 150 (LCL - UCL)		EPA-8081			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081	03/01/11	03/06/11 21:41	ZZZ	GC-1	1	BUC0386

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

PCB Analysis (EPA Method 8082)

BCL Sample ID: 1103253-01 | **Client Sample Name:** EB-05, 2/28/2011 10:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
PCB-1016	ND	ug/L	0.20	0.020	EPA-8082	ND		1
PCB-1221	ND	ug/L	0.20	0.089	EPA-8082	ND		1
PCB-1232	ND	ug/L	0.20	0.090	EPA-8082	ND		1
PCB-1242	ND	ug/L	0.20	0.095	EPA-8082	ND		1
PCB-1248	ND	ug/L	0.20	0.025	EPA-8082	ND		1
PCB-1254	ND	ug/L	0.20	0.042	EPA-8082	ND		1
PCB-1260	ND	ug/L	0.20	0.020	EPA-8082	ND		1
Total PCB's (Summation)	ND	ug/L	0.20	0.10	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	61.0	%	48 - 135 (LCL - UCL)		EPA-8082		V11	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8082	03/01/11	03/05/11 04:50	VH1	GC-6	1	BUC0552

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Sunnyvale, CA 94085

Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Chlorinated Herbicides (EPA Method 8151)

BCL Sample ID: 1103253-01 | **Client Sample Name:** EB-05, 2/28/2011 10:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2,4-D	ND	ug/L	0.40	0.065	EPA-8151	ND	V11	1
2,4-DB	ND	ug/L	3.0	0.32	EPA-8151	ND		1
Dalapon	ND	ug/L	10	2.4	EPA-8151	ND		1
Dicamba	ND	ug/L	0.080	0.037	EPA-8151	ND	V11	1
Dichloroprop	ND	ug/L	0.50	0.012	EPA-8151	ND	V11	1
Dinoseb	ND	ug/L	0.20	0.040	EPA-8151	ND		1
2,4,5-T	ND	ug/L	0.090	0.012	EPA-8151	ND	V11	1
2,4,5-TP (Silvex)	ND	ug/L	0.070	0.016	EPA-8151	ND		1
2,4-Dichlorophenylacetic acid (Surrogate)	30.9	%	50 - 150 (LCL - UCL)		EPA-8151		V11	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8151	03/01/11	03/03/11 01:05	CC1	GC-8	1	BUC0391

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Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1103253-01 | **Client Sample Name:** EB-05, 2/28/2011 10:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-8260	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-8260	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-8260	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-8260	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-8260	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-8260	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-8260	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-8260	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-8260	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-8260	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-8260	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-8260	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-8260	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-8260	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-8260	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-8260	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-8260	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-8260	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-8260	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-8260	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-8260	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-8260	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-8260	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-8260	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-8260	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-8260	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-8260	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-8260	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-8260	ND		1

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Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1103253-01 | **Client Sample Name:** EB-05, 2/28/2011 10:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-8260	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-8260	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-8260	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-8260	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-8260	ND		1
Methylene chloride	ND	ug/L	1.0	0.48	EPA-8260	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-8260	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-8260	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-8260	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-8260	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-8260	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-8260	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-8260	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-8260	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-8260	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-8260	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-8260	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-8260	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-8260	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-8260	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-8260	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-8260	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-8260	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	0.36	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-8260	ND		1
1,4-Dioxane	ND	ug/L	100	42	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	7.2	Luft-GC/MS	ND		1

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Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1103253-01 | **Client Sample Name:** EB-05, 2/28/2011 10:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,2-Dichloroethane-d4 (Surrogate)	107	%	76 - 114 (LCL - UCL)		EPA-8260			1
Toluene-d8 (Surrogate)	101	%	88 - 110 (LCL - UCL)		EPA-8260			1
4-Bromofluorobenzene (Surrogate)	98.6	%	86 - 115 (LCL - UCL)		EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	03/08/11	03/08/11 12:55	JCC	MS-V4	1	BUC0518

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425 Lakeside Drive
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Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1103253-01 | **Client Sample Name:** EB-05, 2/28/2011 10:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	2.0	0.24	EPA-8270C	ND		1
Acenaphthylene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Aldrin	ND	ug/L	2.0	0.35	EPA-8270C	ND		1
Aniline	ND	ug/L	5.0	0.69	EPA-8270C	ND		1
Anthracene	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Benzidine	ND	ug/L	20	7.1	EPA-8270C	ND		1
Benzo[a]anthracene	ND	ug/L	2.0	0.38	EPA-8270C	ND		1
Benzo[b]fluoranthene	ND	ug/L	2.0	0.41	EPA-8270C	ND		1
Benzo[k]fluoranthene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
Benzo[a]pyrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Benzo[g,h,i]perylene	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
Benzoic acid	ND	ug/L	10	5.8	EPA-8270C	ND		1
Benzyl alcohol	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
Benzyl butyl phthalate	ND	ug/L	2.0	0.47	EPA-8270C	ND		1
alpha-BHC	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
beta-BHC	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
delta-BHC	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
gamma-BHC (Lindane)	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
bis(2-Chloroethoxy)methane	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
bis(2-Chloroethyl) ether	ND	ug/L	2.0	0.68	EPA-8270C	ND		1
bis(2-Chloroisopropyl)ether	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.0	3.0	EPA-8270C	ND		1
4-Bromophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
4-Chloroaniline	ND	ug/L	2.0	0.69	EPA-8270C	ND		1
2-Chloronaphthalene	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
4-Chlorophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
Chrysene	ND	ug/L	2.0	0.63	EPA-8270C	ND		1
4,4'-DDD	ND	ug/L	2.0	0.48	EPA-8270C	ND		1
4,4'-DDE	ND	ug/L	3.0	0.41	EPA-8270C	ND		1
4,4'-DDT	ND	ug/L	2.0	0.43	EPA-8270C	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	3.0	0.26	EPA-8270C	ND		1
Dibenzofuran	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
1,2-Dichlorobenzene	ND	ug/L	2.0	0.37	EPA-8270C	ND		1

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Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1103253-01 | **Client Sample Name:** EB-05, 2/28/2011 10:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,3-Dichlorobenzene	ND	ug/L	2.0	0.35	EPA-8270C	ND		1
1,4-Dichlorobenzene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
3,3-Dichlorobenzidine	ND	ug/L	10	8.2	EPA-8270C	ND		1
Dieldrin	ND	ug/L	3.0	0.41	EPA-8270C	ND		1
Diethyl phthalate	ND	ug/L	2.0	0.33	EPA-8270C	ND		1
Dimethyl phthalate	ND	ug/L	2.0	0.39	EPA-8270C	ND		1
Di-n-butyl phthalate	ND	ug/L	2.0	0.39	EPA-8270C	ND		1
2,4-Dinitrotoluene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
2,6-Dinitrotoluene	ND	ug/L	2.0	0.41	EPA-8270C	ND		1
Di-n-octyl phthalate	ND	ug/L	2.0	0.46	EPA-8270C	ND		1
1,2-Diphenylhydrazine	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
Endosulfan I	ND	ug/L	10	1.7	EPA-8270C	ND		1
Endosulfan II	ND	ug/L	10	1.2	EPA-8270C	ND		1
Endosulfan sulfate	ND	ug/L	3.0	0.58	EPA-8270C	ND		1
Endrin	ND	ug/L	2.0	1.1	EPA-8270C	ND		1
Endrin aldehyde	ND	ug/L	10	0.52	EPA-8270C	ND		1
Fluoranthene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Fluorene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Heptachlor	ND	ug/L	2.0	0.32	EPA-8270C	ND		1
Heptachlor epoxide	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
Hexachlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Hexachlorobutadiene	ND	ug/L	2.0	0.24	EPA-8270C	ND		1
Hexachlorocyclopentadiene	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Hexachloroethane	ND	ug/L	2.0	0.32	EPA-8270C	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
Isophorone	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
2-Methylnaphthalene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Naphthalene	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
2-Naphthylamine	ND	ug/L	20	4.8	EPA-8270C	ND		1
2-Nitroaniline	ND	ug/L	2.0	0.33	EPA-8270C	ND		1
3-Nitroaniline	ND	ug/L	2.0	0.66	EPA-8270C	ND		1
4-Nitroaniline	ND	ug/L	5.0	0.87	EPA-8270C	ND		1
Nitrobenzene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1

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Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1103253-01 | **Client Sample Name:** EB-05, 2/28/2011 10:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	2.0	0.61	EPA-8270C	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.0	1.3	EPA-8270C	ND		1
N-Nitrosodiphenylamine	ND	ug/L	2.0	0.44	EPA-8270C	ND		1
Phenanthrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Pyrene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
4-Chloro-3-methylphenol	ND	ug/L	5.0	0.40	EPA-8270C	ND		1
2-Chlorophenol	ND	ug/L	2.0	0.37	EPA-8270C	ND		1
2,4-Dichlorophenol	ND	ug/L	2.0	0.43	EPA-8270C	ND		1
2,4-Dimethylphenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	10	0.34	EPA-8270C	ND		1
2,4-Dinitrophenol	ND	ug/L	10	0.20	EPA-8270C	ND		1
2-Methylphenol	ND	ug/L	2.0	1.0	EPA-8270C	ND		1
3- & 4-Methylphenol	ND	ug/L	2.0	1.6	EPA-8270C	ND		1
2-Nitrophenol	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
4-Nitrophenol	ND	ug/L	2.0	0.73	EPA-8270C	ND		1
Pentachlorophenol	ND	ug/L	10	0.79	EPA-8270C	ND		1
Phenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.31	EPA-8270C	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	0.60	EPA-8270C	ND		1
2-Fluorophenol (Surrogate)	72.5	%	28 - 85 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	65.7	%	13 - 59 (LCL - UCL)		EPA-8270C		S09	1
Nitrobenzene-d5 (Surrogate)	95.6	%	34 - 119 (LCL - UCL)		EPA-8270C			1
2-Fluorobiphenyl (Surrogate)	94.2	%	24 - 128 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	87.4	%	35 - 114 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	94.5	%	10 - 185 (LCL - UCL)		EPA-8270C			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	03/01/11	03/07/11 15:32	SKC	MS-B2	0.990	BUC0262

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Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1103253-01 | **Client Sample Name:** EB-05, 2/28/2011 10:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - C8 - C9	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C10 - C11	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C12 - C14	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C15 - C16	**27**	**ug/L**	**10**	**5.0**	**EPA-8015CC**	**ND**		1
TPH - C17 - C18	**42**	**ug/L**	**10**	**5.0**	**EPA-8015CC**	**ND**		1
TPH - C19 - C20	**38**	**ug/L**	**10**	**5.0**	**EPA-8015CC**	**ND**		1
TPH - C21 - C22	**33**	**ug/L**	**10**	**5.0**	**EPA-8015CC**	**ND**		1
TPH - C23 - C28	**130**	**ug/L**	**10**	**5.0**	**EPA-8015CC**	**ND**		1
TPH - C29 - C32	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C33 - C36	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C37 - C40	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C41 - C43	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C44 plus	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH (Total)	**300**	**ug/L**	**200**	**100**	**EPA-8015CC**	**ND**		1
Tetracosane (Surrogate)	68.8	%	37 - 134 (LCL - UCL)		EPA-8015CC			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015CC	03/01/11	03/03/11 13:53	EJB	GC-2	1	BUC0332

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425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Water Analysis (General Chemistry)

BCL Sample ID: 1103253-01 | **Client Sample Name:** EB-05, 2/28/2011 10:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	**14**	**mg/L**	**0.50**	**0.090**	**EPA-200.7**	**ND**	**A01**	1
Dissolved Magnesium	**37**	**mg/L**	**0.25**	**0.080**	**EPA-200.7**	**ND**	**A01**	1
Dissolved Sodium	**1500**	**mg/L**	**2.5**	**0.25**	**EPA-200.7**	**ND**	**A01**	1
Dissolved Potassium	**9.6**	**mg/L**	**5.0**	**0.50**	**EPA-200.7**	**ND**	**A01**	1
Bicarbonate Alkalinity as CaCO3	**1300**	**mg/L**	**8.2**	**8.2**	**EPA-310.1**	**ND**		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	EPA-310.1	ND		2
Chloride	**1700**	**mg/L**	**2.5**	**0.25**	**EPA-300.0**	**0.68**	**A01**	3
Fluoride	**1.8**	**mg/L**	**0.25**	**0.060**	**EPA-300.0**	**ND**	**A01**	3
Nitrate/Nitrite as N	**0.016**	**mg/L**	**0.10**	**0.010**	**EPA-353.2**	**ND**	**J**	4
Nitrate as N	ND	mg/L	0.50	0.070	EPA-300.0	ND	A10	3
Sulfate	**53**	**mg/L**	**5.0**	**0.50**	**EPA-300.0**	**ND**	**A01**	3
Total Dissolved Solids @ 180 C	**4400**	**mg/L**	**200**	**200**	**EPA-160.1**	**ND**		5
Total Cyanide	**0.012**	**mg/L**	**0.0050**	**0.0016**	**EPA-335.4**	**ND**		6
Nitrite as N	ND	mg/L	0.050	0.0081	EPA-353.2	ND		7
Total Sulfide	ND	mg/L	2.0	1.0	EPA-376.2	ND	A10	8
Non-Volatile Organic Carbon	**36**	**mg/L**	**1.5**	**0.31**	**EPA-415.1**	**0.87**	**A01**	9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	02/28/11	03/03/11 10:41	ARD	PE-OP1	5	BUC0179
2	EPA-310.1	03/02/11	03/02/11 17:15	RML	MET-1	2	BUC0202
3	EPA-300.0	03/01/11	03/01/11 22:05	LD1	IC2	5	BUC0149
4	EPA-353.2	03/10/11	03/10/11 09:35	SDU	SC-1	1	BUC0790
5	EPA-160.1	03/02/11	03/02/11 07:30	NW1	MANUAL	20	BUC0132
6	EPA-335.4	03/02/11	03/02/11 11:39	TDC	KONE-1	1	BUC0159
7	EPA-353.2	03/02/11	03/02/11 09:13	TDC	KONE-1	1	BUC0191
8	EPA-376.2	03/02/11	03/02/11 01:30	MRM	SPEC05	20	BUC0244
9	EPA-415.1	03/03/11	03/04/11 01:48	CDR	TOC2	5	BUC0323

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Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Water Analysis (Metals)

BCL Sample ID: 1103253-01 | **Client Sample Name:** EB-05, 2/28/2011 10:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Antimony	ND	ug/L	500	50	EPA-6010B	ND	A10	1
Dissolved Arsenic	ND	ug/L	250	38	EPA-6010B	ND	A10	1
Dissolved Barium	**120**	**ug/L**	**50**	**6.0**	**EPA-6010B**	**ND**	**A10**	1
Dissolved Beryllium	ND	ug/L	50	5.0	EPA-6010B	ND	A10	1
Dissolved Cadmium	ND	ug/L	50	5.0	EPA-6010B	ND	A10	1
Dissolved Chromium	ND	ug/L	50	5.0	EPA-6010B	ND	A10	1
Dissolved Cobalt	ND	ug/L	250	25	EPA-6010B	ND	A10	1
Dissolved Copper	ND	ug/L	50	12	EPA-6010B	ND	A10	1
Dissolved Lead	ND	ug/L	250	25	EPA-6010B	ND	A10	1
Dissolved Mercury	**0.045**	**ug/L**	**0.20**	**0.034**	**EPA-7470A**	**ND**	**J**	2
Dissolved Molybdenum	**110**	**ug/L**	**250**	**25**	**EPA-6010B**	**ND**	**J,A10**	1
Dissolved Nickel	**29**	**ug/L**	**50**	**6.0**	**EPA-6010B**	**ND**	**J,A10**	1
Dissolved Selenium	ND	ug/L	500	55	EPA-6010B	ND	A10	1
Dissolved Silver	ND	ug/L	50	5.5	EPA-6010B	5.9	A10	1
Dissolved Thallium	ND	ug/L	500	75	EPA-6010B	ND	A10	1
Dissolved Vanadium	**6.0**	**ug/L**	**50**	**5.0**	**EPA-6010B**	**ND**	**J,A10**	1
Dissolved Zinc	ND	ug/L	50	30	EPA-6010B	ND	A10	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	02/28/11	03/03/11 10:41	ARD	PE-OP1	5	BUC0177
2	EPA-7470A	03/03/11	03/04/11 09:26	MEV	CETAC1	1	BUC0347

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Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Organochlorine Pesticides (EPA Method 8081)

BCL Sample ID: 1103253-02 | **Client Sample Name:** EB-06S, 2/28/2011 2:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	ug/L	0.0050	0.0013	EPA-8081	ND		1
alpha-BHC	ND	ug/L	0.0050	0.0011	EPA-8081	ND	V11	1
beta-BHC	ND	ug/L	0.0050	0.0021	EPA-8081	ND		1
delta-BHC	ND	ug/L	0.0050	0.0014	EPA-8081	ND		1
gamma-BHC (Lindane)	ND	ug/L	0.0050	0.00094	EPA-8081	ND		1
Chlordane (Technical)	ND	ug/L	0.50	0.38	EPA-8081	ND		1
4,4'-DDD	ND	ug/L	0.0050	0.0017	EPA-8081	ND		1
4,4'-DDE	ND	ug/L	0.0050	0.0019	EPA-8081	ND		1
4,4'-DDT	ND	ug/L	0.0050	0.00076	EPA-8081	ND		1
Dieldrin	ND	ug/L	0.0050	0.0012	EPA-8081	ND		1
Endosulfan I	ND	ug/L	0.0050	0.0016	EPA-8081	ND		1
Endosulfan II	ND	ug/L	0.0050	0.0014	EPA-8081	ND		1
Endosulfan sulfate	ND	ug/L	0.0050	0.0026	EPA-8081	ND		1
Endrin	ND	ug/L	0.0050	0.00082	EPA-8081	ND		1
Endrin aldehyde	ND	ug/L	0.010	0.0032	EPA-8081	ND		1
Heptachlor	ND	ug/L	0.0050	0.0012	EPA-8081	ND		1
Heptachlor epoxide	ND	ug/L	0.0050	0.00099	EPA-8081	ND		1
Methoxychlor	ND	ug/L	0.0050	0.0011	EPA-8081	ND		1
Toxaphene	ND	ug/L	2.0	0.42	EPA-8081	ND		1
TCMX (Surrogate)	70.6	%	54 - 150 (LCL - UCL)		EPA-8081			1
Dibutyl chlorendate (Surrogate)	64.2	%	82 - 150 (LCL - UCL)		EPA-8081		S09	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081	03/01/11	03/06/11 21:58	ZZZ	GC-1	1.031	BUC0386

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425 Lakeside Drive
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Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

PCB Analysis (EPA Method 8082)

BCL Sample ID: 1103253-02 | **Client Sample Name:** EB-06S, 2/28/2011 2:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
PCB-1016	ND	ug/L	0.20	0.020	EPA-8082	ND		1
PCB-1221	ND	ug/L	0.20	0.089	EPA-8082	ND		1
PCB-1232	ND	ug/L	0.20	0.090	EPA-8082	ND		1
PCB-1242	ND	ug/L	0.20	0.095	EPA-8082	ND		1
PCB-1248	ND	ug/L	0.20	0.025	EPA-8082	ND		1
PCB-1254	ND	ug/L	0.20	0.042	EPA-8082	ND		1
PCB-1260	ND	ug/L	0.20	0.020	EPA-8082	ND		1
Total PCB's (Summation)	ND	ug/L	0.20	0.10	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	69.0	%	48 - 135 (LCL - UCL)		EPA-8082		V11	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8082	03/01/11	03/05/11 05:09	VH1	GC-6	1	BUC0552

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Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Chlorinated Herbicides (EPA Method 8151)

BCL Sample ID: 1103253-02 | **Client Sample Name:** EB-06S, 2/28/2011 2:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2,4-D	ND	ug/L	0.40	0.065	EPA-8151	ND	V11	1
2,4-DB	ND	ug/L	3.0	0.32	EPA-8151	ND		1
Dalapon	ND	ug/L	10	2.4	EPA-8151	ND		1
Dicamba	ND	ug/L	0.080	0.037	EPA-8151	ND	V11	1
Dichloroprop	ND	ug/L	0.50	0.012	EPA-8151	ND	V11	1
Dinoseb	ND	ug/L	0.20	0.040	EPA-8151	ND		1
2,4,5-T	ND	ug/L	0.090	0.012	EPA-8151	ND	V11	1
2,4,5-TP (Silvex)	ND	ug/L	0.070	0.016	EPA-8151	ND		1
2,4-Dichlorophenylacetic acid (Surrogate)	39.8	%	50 - 150 (LCL - UCL)		EPA-8151		V11	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8151	03/01/11	03/03/11 01:27	CC1	GC-8	1	BUC0391

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Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1103253-02 | **Client Sample Name:** EB-06S, 2/28/2011 2:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	**0.15**	**ug/L**	**0.50**	**0.083**	**EPA-8260**	**ND**	**J**	1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-8260	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-8260	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-8260	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-8260	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-8260	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-8260	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-8260	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-8260	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-8260	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-8260	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-8260	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-8260	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-8260	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-8260	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-8260	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-8260	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-8260	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-8260	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-8260	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-8260	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-8260	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-8260	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-8260	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-8260	ND		1
cis-1,2-Dichloroethene	**0.16**	**ug/L**	**0.50**	**0.085**	**EPA-8260**	**ND**	**J**	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-8260	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-8260	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-8260	ND		1

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425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1103253-02 | **Client Sample Name:** EB-06S, 2/28/2011 2:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-8260	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-8260	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-8260	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-8260	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-8260	ND		1
Methylene chloride	ND	ug/L	1.0	0.48	EPA-8260	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-8260	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-8260	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-8260	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-8260	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-8260	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-8260	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-8260	ND		1
Toluene	**0.14**	**ug/L**	**0.50**	**0.093**	**EPA-8260**	**ND**	**J**	1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-8260	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-8260	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-8260	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-8260	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-8260	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-8260	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-8260	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-8260	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-8260	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-8260	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	0.36	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-8260	ND		1
1,4-Dioxane	ND	ug/L	100	42	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	7.2	Luft-GC/MS	ND		1

Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1103253-02 | **Client Sample Name:** EB-06S, 2/28/2011 2:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,2-Dichloroethane-d4 (Surrogate)	112	%	76 - 114 (LCL - UCL)		EPA-8260			1
Toluene-d8 (Surrogate)	102	%	88 - 110 (LCL - UCL)		EPA-8260			1
4-Bromofluorobenzene (Surrogate)	98.1	%	86 - 115 (LCL - UCL)		EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	03/08/11	03/08/11 13:52	JCC	MS-V4	1	BUC0518

Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1103253-02 | **Client Sample Name:** EB-06S, 2/28/2011 2:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	2.0	0.24	EPA-8270C	ND		1
Acenaphthylene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Aldrin	ND	ug/L	2.0	0.35	EPA-8270C	ND		1
Aniline	ND	ug/L	5.0	0.69	EPA-8270C	ND		1
Anthracene	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Benzidine	ND	ug/L	20	7.1	EPA-8270C	ND		1
Benzo[a]anthracene	ND	ug/L	2.0	0.38	EPA-8270C	ND		1
Benzo[b]fluoranthene	ND	ug/L	2.0	0.41	EPA-8270C	ND		1
Benzo[k]fluoranthene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
Benzo[a]pyrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Benzo[g,h,i]perylene	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
Benzoic acid	ND	ug/L	10	5.8	EPA-8270C	ND		1
Benzyl alcohol	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
Benzyl butyl phthalate	ND	ug/L	2.0	0.47	EPA-8270C	ND		1
alpha-BHC	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
beta-BHC	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
delta-BHC	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
gamma-BHC (Lindane)	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
bis(2-Chloroethoxy)methane	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
bis(2-Chloroethyl) ether	ND	ug/L	2.0	0.68	EPA-8270C	ND		1
bis(2-Chloroisopropyl)ether	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.0	3.0	EPA-8270C	ND		1
4-Bromophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
4-Chloroaniline	ND	ug/L	2.0	0.69	EPA-8270C	ND		1
2-Chloronaphthalene	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
4-Chlorophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
Chrysene	ND	ug/L	2.0	0.63	EPA-8270C	ND		1
4,4'-DDD	ND	ug/L	2.0	0.48	EPA-8270C	ND		1
4,4'-DDE	ND	ug/L	3.0	0.41	EPA-8270C	ND		1
4,4'-DDT	ND	ug/L	2.0	0.43	EPA-8270C	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	3.0	0.26	EPA-8270C	ND		1
Dibenzofuran	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
1,2-Dichlorobenzene	ND	ug/L	2.0	0.37	EPA-8270C	ND		1

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1103253-02 | **Client Sample Name:** EB-06S, 2/28/2011 2:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,3-Dichlorobenzene	ND	ug/L	2.0	0.35	EPA-8270C	ND		1
1,4-Dichlorobenzene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
3,3-Dichlorobenzidine	ND	ug/L	10	8.2	EPA-8270C	ND		1
Dieldrin	ND	ug/L	3.0	0.41	EPA-8270C	ND		1
Diethyl phthalate	ND	ug/L	2.0	0.33	EPA-8270C	ND		1
Dimethyl phthalate	ND	ug/L	2.0	0.39	EPA-8270C	ND		1
Di-n-butyl phthalate	ND	ug/L	2.0	0.39	EPA-8270C	ND		1
2,4-Dinitrotoluene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
2,6-Dinitrotoluene	ND	ug/L	2.0	0.41	EPA-8270C	ND		1
Di-n-octyl phthalate	ND	ug/L	2.0	0.46	EPA-8270C	ND		1
1,2-Diphenylhydrazine	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
Endosulfan I	ND	ug/L	10	1.7	EPA-8270C	ND		1
Endosulfan II	ND	ug/L	10	1.2	EPA-8270C	ND		1
Endosulfan sulfate	ND	ug/L	3.0	0.58	EPA-8270C	ND		1
Endrin	ND	ug/L	2.0	1.1	EPA-8270C	ND		1
Endrin aldehyde	ND	ug/L	10	0.52	EPA-8270C	ND		1
Fluoranthene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Fluorene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Heptachlor	ND	ug/L	2.0	0.32	EPA-8270C	ND		1
Heptachlor epoxide	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
Hexachlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Hexachlorobutadiene	ND	ug/L	2.0	0.24	EPA-8270C	ND		1
Hexachlorocyclopentadiene	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Hexachloroethane	ND	ug/L	2.0	0.32	EPA-8270C	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
Isophorone	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
2-Methylnaphthalene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Naphthalene	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
2-Naphthylamine	ND	ug/L	20	4.8	EPA-8270C	ND		1
2-Nitroaniline	ND	ug/L	2.0	0.33	EPA-8270C	ND		1
3-Nitroaniline	ND	ug/L	2.0	0.66	EPA-8270C	ND		1
4-Nitroaniline	ND	ug/L	5.0	0.87	EPA-8270C	ND		1
Nitrobenzene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1

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Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1103253-02 | **Client Sample Name:** EB-06S, 2/28/2011 2:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	2.0	0.61	EPA-8270C	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.0	1.3	EPA-8270C	ND		1
N-Nitrosodiphenylamine	ND	ug/L	2.0	0.44	EPA-8270C	ND		1
Phenanthrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Pyrene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
4-Chloro-3-methylphenol	ND	ug/L	5.0	0.40	EPA-8270C	ND		1
2-Chlorophenol	ND	ug/L	2.0	0.37	EPA-8270C	ND		1
2,4-Dichlorophenol	ND	ug/L	2.0	0.43	EPA-8270C	ND		1
2,4-Dimethylphenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	10	0.34	EPA-8270C	ND		1
2,4-Dinitrophenol	ND	ug/L	10	0.20	EPA-8270C	ND		1
2-Methylphenol	ND	ug/L	2.0	1.0	EPA-8270C	ND		1
3- & 4-Methylphenol	ND	ug/L	2.0	1.6	EPA-8270C	ND		1
2-Nitrophenol	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
4-Nitrophenol	ND	ug/L	2.0	0.73	EPA-8270C	ND		1
Pentachlorophenol	ND	ug/L	10	0.79	EPA-8270C	ND		1
Phenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.31	EPA-8270C	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	0.60	EPA-8270C	ND		1
2-Fluorophenol (Surrogate)	81.3	%	28 - 85 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	66.6	%	13 - 59 (LCL - UCL)		EPA-8270C		S09	1
Nitrobenzene-d5 (Surrogate)	88.4	%	34 - 119 (LCL - UCL)		EPA-8270C			1
2-Fluorobiphenyl (Surrogate)	81.9	%	24 - 128 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	107	%	35 - 114 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	91.7	%	10 - 185 (LCL - UCL)		EPA-8270C			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	03/01/11	03/07/11 15:59	SKC	MS-B2	1.087	BUC0262

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Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1103253-02 | **Client Sample Name:** EB-06S, 2/28/2011 2:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - C8 - C9	ND	ug/L	11	5.6	EPA-8015CC	ND		1
TPH - C10 - C11	ND	ug/L	11	5.6	EPA-8015CC	ND		1
TPH - C12 - C14	ND	ug/L	11	5.6	EPA-8015CC	ND		1
TPH - C15 - C16	**120**	**ug/L**	**11**	**5.6**	**EPA-8015CC**	**ND**		1
TPH - C17 - C18	**130**	**ug/L**	**11**	**5.6**	**EPA-8015CC**	**ND**		1
TPH - C19 - C20	**94**	**ug/L**	**11**	**5.6**	**EPA-8015CC**	**ND**		1
TPH - C21 - C22	**77**	**ug/L**	**11**	**5.6**	**EPA-8015CC**	**ND**		1
TPH - C23 - C28	**240**	**ug/L**	**11**	**5.6**	**EPA-8015CC**	**ND**		1
TPH - C29 - C32	**25**	**ug/L**	**11**	**5.6**	**EPA-8015CC**	**ND**		1
TPH - C33 - C36	ND	ug/L	11	5.6	EPA-8015CC	ND		1
TPH - C37 - C40	ND	ug/L	11	5.6	EPA-8015CC	ND		1
TPH - C41 - C43	ND	ug/L	11	5.6	EPA-8015CC	ND		1
TPH - C44 plus	ND	ug/L	11	5.6	EPA-8015CC	ND		1
TPH (Total)	**710**	**ug/L**	**220**	**110**	**EPA-8015CC**	**ND**		1
Tetracosane (Surrogate)	71.1	%	37 - 134 (LCL - UCL)		EPA-8015CC			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015CC	03/01/11	03/03/11 14:16	EJB	GC-2	1.111	BUC0332

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Golder Associates
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Sunnyvale, CA 94085

Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Water Analysis (General Chemistry)

BCL Sample ID: 1103253-02 | **Client Sample Name:** EB-06S, 2/28/2011 2:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	**42**	**mg/L**	**0.20**	**0.036**	**EPA-200.7**	**ND**	**A01**	1
Dissolved Magnesium	**95**	**mg/L**	**0.10**	**0.032**	**EPA-200.7**	**ND**	**A01**	1
Dissolved Sodium	**1000**	**mg/L**	**1.0**	**0.10**	**EPA-200.7**	**ND**	**A01**	1
Dissolved Potassium	**170**	**mg/L**	**2.0**	**0.20**	**EPA-200.7**	**ND**	**A01**	1
Bicarbonate Alkalinity as CaCO3	**1500**	**mg/L**	**8.2**	**8.2**	**EPA-310.1**	**ND**		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	EPA-310.1	ND		2
Chloride	**1400**	**mg/L**	**2.5**	**0.25**	**EPA-300.0**	**0.68**	**A01**	3
Fluoride	**0.31**	**mg/L**	**0.25**	**0.060**	**EPA-300.0**	**ND**	**A01**	3
Nitrate/Nitrite as N	**0.090**	**mg/L**	**0.10**	**0.010**	**EPA-353.2**	**ND**	**J**	4
Nitrate as N	ND	mg/L	0.50	0.070	EPA-300.0	ND	A01	3
Sulfate	**94**	**mg/L**	**5.0**	**0.50**	**EPA-300.0**	**ND**	**A01**	3
Total Dissolved Solids @ 180 C	**3700**	**mg/L**	**200**	**200**	**EPA-160.1**	**ND**		5
Total Cyanide	**0.011**	**mg/L**	**0.0050**	**0.0016**	**EPA-335.4**	**ND**		6
Nitrite as N	ND	mg/L	0.050	0.0081	EPA-353.2	ND		7
Total Sulfide	ND	mg/L	0.10	0.050	EPA-376.2	ND		8
Non-Volatile Organic Carbon	**70**	**mg/L**	**6.0**	**1.2**	**EPA-415.1**	**3.5**	**A01**	9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	02/28/11	03/03/11 10:43	ARD	PE-OP1	2	BUC0179
2	EPA-310.1	03/02/11	03/02/11 17:22	RML	MET-1	2	BUC0202
3	EPA-300.0	03/01/11	03/01/11 23:00	LD1	IC2	5	BUC0149
4	EPA-353.2	03/04/11	03/06/11 15:12	SDU	SC-1	1	BUC0434
5	EPA-160.1	03/02/11	03/02/11 07:30	NW1	MANUAL	20	BUC0132
6	EPA-335.4	03/02/11	03/02/11 11:39	TDC	KONE-1	1	BUC0159
7	EPA-353.2	03/02/11	03/02/11 09:13	TDC	KONE-1	1	BUC0191
8	EPA-376.2	03/02/11	03/02/11 01:30	MRM	SPEC05	1	BUC0244
9	EPA-415.1	03/03/11	03/04/11 12:29	CDR	TOC2	20	BUC0323

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425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Water Analysis (Metals)

BCL Sample ID: 1103253-02 | **Client Sample Name:** EB-06S, 2/28/2011 2:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Antimony	ND	ug/L	200	20	EPA-6010B	ND	A10	1
Dissolved Arsenic	**76**	**ug/L**	**100**	**15**	**EPA-6010B**	**ND**	**J,A10**	1
Dissolved Barium	**880**	**ug/L**	**20**	**2.4**	**EPA-6010B**	**ND**	**A10**	1
Dissolved Beryllium	ND	ug/L	20	2.0	EPA-6010B	ND	A10	1
Dissolved Cadmium	ND	ug/L	20	2.0	EPA-6010B	ND	A10	1
Dissolved Chromium	**7.1**	**ug/L**	**20**	**2.0**	**EPA-6010B**	**ND**	**J,A10**	1
Dissolved Cobalt	**10**	**ug/L**	**100**	**10**	**EPA-6010B**	**ND**	**J,A10**	1
Dissolved Copper	ND	ug/L	20	4.6	EPA-6010B	ND	A10	1
Dissolved Lead	ND	ug/L	100	10	EPA-6010B	ND	A10	1
Dissolved Mercury	**0.035**	**ug/L**	**0.20**	**0.034**	**EPA-7470A**	**ND**	**J**	2
Dissolved Molybdenum	**34**	**ug/L**	**100**	**10**	**EPA-6010B**	**ND**	**J,A10**	1
Dissolved Nickel	**17**	**ug/L**	**20**	**2.4**	**EPA-6010B**	**ND**	**J,A10**	1
Dissolved Selenium	ND	ug/L	200	22	EPA-6010B	ND	A10	1
Dissolved Silver	ND	ug/L	20	2.2	EPA-6010B	2.3	A10	1
Dissolved Thallium	ND	ug/L	200	30	EPA-6010B	ND	A10	1
Dissolved Vanadium	**5.7**	**ug/L**	**20**	**2.0**	**EPA-6010B**	**ND**	**J,A10**	1
Dissolved Zinc	ND	ug/L	20	12	EPA-6010B	ND	A10	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	02/28/11	03/03/11 10:43	ARD	PE-OP1	2	BUC0177
2	EPA-7470A	03/03/11	03/04/11 09:28	MEV	CETAC1	1	BUC0347

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Sunnyvale, CA 94085

Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Organochlorine Pesticides (EPA Method 8081)

BCL Sample ID: 1103253-03 | **Client Sample Name:** EB-06d, 2/28/2011 4:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	ug/L	0.0056	0.0014	EPA-8081	ND		1
alpha-BHC	ND	ug/L	0.0056	0.0012	EPA-8081	ND	V11	1
beta-BHC	ND	ug/L	0.0056	0.0023	EPA-8081	ND		1
delta-BHC	ND	ug/L	0.0056	0.0016	EPA-8081	ND		1
gamma-BHC (Lindane)	ND	ug/L	0.0056	0.0010	EPA-8081	ND		1
Chlordane (Technical)	ND	ug/L	0.56	0.42	EPA-8081	ND		1
4,4'-DDD	ND	ug/L	0.0056	0.0019	EPA-8081	ND		1
4,4'-DDE	ND	ug/L	0.0056	0.0021	EPA-8081	ND		1
4,4'-DDT	ND	ug/L	0.0056	0.00084	EPA-8081	ND		1
Dieldrin	ND	ug/L	0.0056	0.0013	EPA-8081	ND		1
Endosulfan I	ND	ug/L	0.0056	0.0018	EPA-8081	ND		1
Endosulfan II	ND	ug/L	0.0056	0.0016	EPA-8081	ND		1
Endosulfan sulfate	ND	ug/L	0.0056	0.0029	EPA-8081	ND		1
Endrin	ND	ug/L	0.0056	0.00091	EPA-8081	ND		1
Endrin aldehyde	ND	ug/L	0.011	0.0036	EPA-8081	ND		1
Heptachlor	ND	ug/L	0.0056	0.0013	EPA-8081	ND		1
Heptachlor epoxide	ND	ug/L	0.0056	0.0011	EPA-8081	ND		1
Methoxychlor	ND	ug/L	0.0056	0.0012	EPA-8081	ND		1
Toxaphene	ND	ug/L	2.2	0.47	EPA-8081	ND		1
TCMX (Surrogate)	83.9	%	54 - 150 (LCL - UCL)		EPA-8081			1
Dibutyl chlorendate (Surrogate)	92.6	%	82 - 150 (LCL - UCL)		EPA-8081			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081	03/01/11	03/06/11 22:15	ZZZ	GC-1	1.111	BUC0386

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425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

PCB Analysis (EPA Method 8082)

BCL Sample ID: 1103253-03 | **Client Sample Name:** EB-06d, 2/28/2011 4:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
PCB-1016	ND	ug/L	0.22	0.022	EPA-8082	ND		1
PCB-1221	ND	ug/L	0.22	0.10	EPA-8082	ND		1
PCB-1232	ND	ug/L	0.22	0.10	EPA-8082	ND		1
PCB-1242	ND	ug/L	0.22	0.11	EPA-8082	ND		1
PCB-1248	ND	ug/L	0.22	0.028	EPA-8082	ND		1
PCB-1254	ND	ug/L	0.22	0.047	EPA-8082	ND		1
PCB-1260	ND	ug/L	0.22	0.022	EPA-8082	ND		1
Total PCB's (Summation)	ND	ug/L	0.22	0.11	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	77.0	%	48 - 135 (LCL - UCL)		EPA-8082		V11	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8082	03/01/11	03/05/11 06:20	VH1	GC-6	1.124	BUC0552

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Sunnyvale, CA 94085

Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Chlorinated Herbicides (EPA Method 8151)

BCL Sample ID: 1103253-03 | **Client Sample Name:** EB-06d, 2/28/2011 4:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2,4-D	ND	ug/L	0.40	0.065	EPA-8151	ND	V11	1
2,4-DB	ND	ug/L	3.0	0.32	EPA-8151	ND		1
Dalapon	ND	ug/L	10	2.4	EPA-8151	ND		1
Dicamba	ND	ug/L	0.080	0.037	EPA-8151	ND	V11	1
Dichloroprop	ND	ug/L	0.50	0.012	EPA-8151	ND	V11	1
Dinoseb	ND	ug/L	0.20	0.040	EPA-8151	ND		1
2,4,5-T	ND	ug/L	0.090	0.012	EPA-8151	ND	V11	1
2,4,5-TP (Silvex)	ND	ug/L	0.070	0.016	EPA-8151	ND		1
2,4-Dichlorophenylacetic acid (Surrogate)	56.8	%	50 - 150 (LCL - UCL)		EPA-8151		V11	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8151	03/01/11	03/03/11 01:48	CC1	GC-8	1.053	BUC0391

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Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1103253-03 | **Client Sample Name:** EB-06d, 2/28/2011 4:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-8260	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-8260	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-8260	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-8260	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-8260	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-8260	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-8260	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-8260	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-8260	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-8260	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-8260	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-8260	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-8260	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-8260	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-8260	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-8260	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-8260	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-8260	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-8260	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-8260	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-8260	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-8260	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-8260	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-8260	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-8260	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-8260	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-8260	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-8260	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-8260	ND		1

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Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1103253-03 | **Client Sample Name:** EB-06d, 2/28/2011 4:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-8260	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-8260	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-8260	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-8260	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-8260	ND		1
Methylene chloride	ND	ug/L	1.0	0.48	EPA-8260	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-8260	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-8260	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-8260	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-8260	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-8260	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-8260	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-8260	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-8260	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-8260	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-8260	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-8260	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-8260	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-8260	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-8260	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-8260	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-8260	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-8260	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	0.36	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-8260	ND		1
1,4-Dioxane	ND	ug/L	100	42	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	7.2	Luft-GC/MS	ND		1

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Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1103253-03 | **Client Sample Name:** EB-06d, 2/28/2011 4:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,2-Dichloroethane-d4 (Surrogate)	109	%	76 - 114 (LCL - UCL)		EPA-8260			1
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)		EPA-8260			1
4-Bromofluorobenzene (Surrogate)	96.9	%	86 - 115 (LCL - UCL)		EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	03/08/11	03/08/11 13:23	JCC	MS-V4	1	BUC0518

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Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1103253-03 | **Client Sample Name:** EB-06d, 2/28/2011 4:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	2.0	0.24	EPA-8270C	ND		1
Acenaphthylene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Aldrin	ND	ug/L	2.0	0.35	EPA-8270C	ND		1
Aniline	ND	ug/L	5.0	0.69	EPA-8270C	ND		1
Anthracene	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Benzidine	ND	ug/L	20	7.1	EPA-8270C	ND		1
Benzo[a]anthracene	ND	ug/L	2.0	0.38	EPA-8270C	ND		1
Benzo[b]fluoranthene	ND	ug/L	2.0	0.41	EPA-8270C	ND		1
Benzo[k]fluoranthene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
Benzo[a]pyrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Benzo[g,h,i]perylene	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
Benzoic acid	ND	ug/L	10	5.8	EPA-8270C	ND		1
Benzyl alcohol	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
Benzyl butyl phthalate	ND	ug/L	2.0	0.47	EPA-8270C	ND		1
alpha-BHC	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
beta-BHC	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
delta-BHC	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
gamma-BHC (Lindane)	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
bis(2-Chloroethoxy)methane	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
bis(2-Chloroethyl) ether	ND	ug/L	2.0	0.68	EPA-8270C	ND		1
bis(2-Chloroisopropyl)ether	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.0	3.0	EPA-8270C	ND		1
4-Bromophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
4-Chloroaniline	ND	ug/L	2.0	0.69	EPA-8270C	ND		1
2-Chloronaphthalene	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
4-Chlorophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
Chrysene	ND	ug/L	2.0	0.63	EPA-8270C	ND		1
4,4'-DDD	ND	ug/L	2.0	0.48	EPA-8270C	ND		1
4,4'-DDE	ND	ug/L	3.0	0.41	EPA-8270C	ND		1
4,4'-DDT	ND	ug/L	2.0	0.43	EPA-8270C	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	3.0	0.26	EPA-8270C	ND		1
Dibenzofuran	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
1,2-Dichlorobenzene	ND	ug/L	2.0	0.37	EPA-8270C	ND		1

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Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1103253-03 | **Client Sample Name:** EB-06d, 2/28/2011 4:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,3-Dichlorobenzene	ND	ug/L	2.0	0.35	EPA-8270C	ND		1
1,4-Dichlorobenzene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
3,3-Dichlorobenzidine	ND	ug/L	10	8.2	EPA-8270C	ND		1
Dieldrin	ND	ug/L	3.0	0.41	EPA-8270C	ND		1
Diethyl phthalate	ND	ug/L	2.0	0.33	EPA-8270C	ND		1
Dimethyl phthalate	ND	ug/L	2.0	0.39	EPA-8270C	ND		1
Di-n-butyl phthalate	ND	ug/L	2.0	0.39	EPA-8270C	ND		1
2,4-Dinitrotoluene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
2,6-Dinitrotoluene	ND	ug/L	2.0	0.41	EPA-8270C	ND		1
Di-n-octyl phthalate	ND	ug/L	2.0	0.46	EPA-8270C	ND		1
1,2-Diphenylhydrazine	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
Endosulfan I	ND	ug/L	10	1.7	EPA-8270C	ND		1
Endosulfan II	ND	ug/L	10	1.2	EPA-8270C	ND		1
Endosulfan sulfate	ND	ug/L	3.0	0.58	EPA-8270C	ND		1
Endrin	ND	ug/L	2.0	1.1	EPA-8270C	ND		1
Endrin aldehyde	ND	ug/L	10	0.52	EPA-8270C	ND		1
Fluoranthene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Fluorene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Heptachlor	ND	ug/L	2.0	0.32	EPA-8270C	ND		1
Heptachlor epoxide	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
Hexachlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Hexachlorobutadiene	ND	ug/L	2.0	0.24	EPA-8270C	ND		1
Hexachlorocyclopentadiene	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Hexachloroethane	ND	ug/L	2.0	0.32	EPA-8270C	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
Isophorone	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
2-Methylnaphthalene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Naphthalene	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
2-Naphthylamine	ND	ug/L	20	4.8	EPA-8270C	ND		1
2-Nitroaniline	ND	ug/L	2.0	0.33	EPA-8270C	ND		1
3-Nitroaniline	ND	ug/L	2.0	0.66	EPA-8270C	ND		1
4-Nitroaniline	ND	ug/L	5.0	0.87	EPA-8270C	ND		1
Nitrobenzene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1

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Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1103253-03 | **Client Sample Name:** EB-06d, 2/28/2011 4:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	2.0	0.61	EPA-8270C	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.0	1.3	EPA-8270C	ND		1
N-Nitrosodiphenylamine	ND	ug/L	2.0	0.44	EPA-8270C	ND		1
Phenanthrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Pyrene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
4-Chloro-3-methylphenol	ND	ug/L	5.0	0.40	EPA-8270C	ND		1
2-Chlorophenol	ND	ug/L	2.0	0.37	EPA-8270C	ND		1
2,4-Dichlorophenol	ND	ug/L	2.0	0.43	EPA-8270C	ND		1
2,4-Dimethylphenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	10	0.34	EPA-8270C	ND		1
2,4-Dinitrophenol	ND	ug/L	10	0.20	EPA-8270C	ND		1
2-Methylphenol	ND	ug/L	2.0	1.0	EPA-8270C	ND		1
3- & 4-Methylphenol	ND	ug/L	2.0	1.6	EPA-8270C	ND		1
2-Nitrophenol	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
4-Nitrophenol	ND	ug/L	2.0	0.73	EPA-8270C	ND		1
Pentachlorophenol	ND	ug/L	10	0.79	EPA-8270C	ND		1
Phenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.31	EPA-8270C	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	0.60	EPA-8270C	ND		1
2-Fluorophenol (Surrogate)	80.5	%	28 - 85 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	68.6	%	13 - 59 (LCL - UCL)		EPA-8270C		S09	1
Nitrobenzene-d5 (Surrogate)	87.5	%	34 - 119 (LCL - UCL)		EPA-8270C			1
2-Fluorobiphenyl (Surrogate)	85.8	%	24 - 128 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	101	%	35 - 114 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	93.3	%	10 - 185 (LCL - UCL)		EPA-8270C			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	03/01/11	03/07/11 16:25	SKC	MS-B2	1.075	BUC0262

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Sunnyvale, CA 94085

Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1103253-03 | **Client Sample Name:** EB-06d, 2/28/2011 4:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - C8 - C9	ND	ug/L	11	5.6	EPA-8015CC	ND		1
TPH - C10 - C11	ND	ug/L	11	5.6	EPA-8015CC	ND		1
TPH - C12 - C14	ND	ug/L	11	5.6	EPA-8015CC	ND		1
TPH - C15 - C16	ND	ug/L	11	5.6	EPA-8015CC	ND		1
TPH - C17 - C18	ND	ug/L	11	5.6	EPA-8015CC	ND		1
TPH - C19 - C20	ND	ug/L	11	5.6	EPA-8015CC	ND		1
TPH - C21 - C22	ND	ug/L	11	5.6	EPA-8015CC	ND		1
TPH - C23 - C28	ND	ug/L	11	5.6	EPA-8015CC	ND		1
TPH - C29 - C32	ND	ug/L	11	5.6	EPA-8015CC	ND		1
TPH - C33 - C36	ND	ug/L	11	5.6	EPA-8015CC	ND		1
TPH - C37 - C40	ND	ug/L	11	5.6	EPA-8015CC	ND		1
TPH - C41 - C43	ND	ug/L	11	5.6	EPA-8015CC	ND		1
TPH - C44 plus	ND	ug/L	11	5.6	EPA-8015CC	ND		1
TPH (Total)	ND	ug/L	220	110	EPA-8015CC	ND		1
Tetracosane (Surrogate)	63.2	%	37 - 134 (LCL - UCL)		EPA-8015CC			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015CC	03/01/11	03/03/11 15:26	EJB	GC-2	1.111	BUC0332

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Water Analysis (General Chemistry)

BCL Sample ID: 1103253-03 | **Client Sample Name:** EB-06d, 2/28/2011 4:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	**110**	**mg/L**	**0.50**	**0.090**	**EPA-200.7**	**ND**	**A01**	1
Dissolved Magnesium	**400**	**mg/L**	**0.25**	**0.080**	**EPA-200.7**	**ND**	**A01**	1
Dissolved Sodium	**4100**	**mg/L**	**2.5**	**0.25**	**EPA-200.7**	**ND**	**A01**	1
Dissolved Potassium	**140**	**mg/L**	**5.0**	**0.50**	**EPA-200.7**	**ND**	**A01**	1
Bicarbonate Alkalinity as CaCO3	**1500**	**mg/L**	**8.2**	**8.2**	**EPA-310.1**	**ND**		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	EPA-310.1	ND		2
Chloride	**6800**	**mg/L**	**10**	**1.0**	**EPA-300.0**	**2.7**	**A01**	3
Fluoride	**1.3**	**mg/L**	**1.0**	**0.24**	**EPA-300.0**	**ND**	**A01**	3
Nitrate/Nitrite as N	ND	mg/L	0.10	0.010	EPA-353.2	ND		4
Nitrate as N	ND	mg/L	2.0	0.28	EPA-300.0	ND	A01	3
Sulfate	**1100**	**mg/L**	**20**	**2.0**	**EPA-300.0**	**ND**	**A01**	3
Total Dissolved Solids @ 180 C	**14000**	**mg/L**	**1000**	**1000**	**EPA-160.1**	**ND**		5
Total Cyanide	**0.0041**	**mg/L**	**0.0050**	**0.0016**	**EPA-335.4**	**ND**	**J**	6
Nitrite as N	ND	mg/L	0.050	0.0081	EPA-353.2	ND		7
Total Sulfide	ND	mg/L	0.10	0.050	EPA-376.2	ND		8
Non-Volatile Organic Carbon	**19**	**mg/L**	**1.5**	**0.31**	**EPA-415.1**	**0.87**	**A01**	9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	02/28/11	03/03/11 10:45	ARD	PE-OP1	5	BUC0179
2	EPA-310.1	03/02/11	03/02/11 17:28	RML	MET-1	2	BUC0202
3	EPA-300.0	03/01/11	03/01/11 23:13	LD1	IC2	20	BUC0149
4	EPA-353.2	03/04/11	03/06/11 15:13	SDU	SC-1	1	BUC0434
5	EPA-160.1	03/02/11	03/02/11 07:30	NW1	MANUAL	100	BUC0132
6	EPA-335.4	03/02/11	03/02/11 11:39	TDC	KONE-1	1	BUC0159
7	EPA-353.2	03/02/11	03/02/11 09:13	TDC	KONE-1	1	BUC0191
8	EPA-376.2	03/02/11	03/02/11 01:30	MRM	SPEC05	1	BUC0244
9	EPA-415.1	03/03/11	03/04/11 02:15	CDR	TOC2	5	BUC0323

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425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Water Analysis (Metals)

BCL Sample ID: 1103253-03 | **Client Sample Name:** EB-06d, 2/28/2011 4:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Antimony	ND	ug/L	500	50	EPA-6010B	ND	A10	1
Dissolved Arsenic	ND	ug/L	250	38	EPA-6010B	ND	A10	1
Dissolved Barium	**150**	**ug/L**	**50**	**6.0**	**EPA-6010B**	**ND**	**A10**	1
Dissolved Beryllium	ND	ug/L	50	5.0	EPA-6010B	ND	A10	1
Dissolved Cadmium	ND	ug/L	50	5.0	EPA-6010B	ND	A10	1
Dissolved Chromium	ND	ug/L	50	5.0	EPA-6010B	ND	A10	1
Dissolved Cobalt	**25**	**ug/L**	**250**	**25**	**EPA-6010B**	**ND**	**J,A10**	1
Dissolved Copper	ND	ug/L	50	12	EPA-6010B	ND	A10	1
Dissolved Lead	ND	ug/L	250	25	EPA-6010B	ND	A10	1
Dissolved Mercury	**0.040**	**ug/L**	**0.20**	**0.034**	**EPA-7470A**	**ND**	**J**	2
Dissolved Molybdenum	**70**	**ug/L**	**250**	**25**	**EPA-6010B**	**ND**	**J,A10**	1
Dissolved Nickel	**47**	**ug/L**	**50**	**6.0**	**EPA-6010B**	**ND**	**J,A10**	1
Dissolved Selenium	ND	ug/L	500	55	EPA-6010B	ND	A10	1
Dissolved Silver	**13**	**ug/L**	**50**	**5.5**	**EPA-6010B**	**5.9**	**J,A10**	1
Dissolved Thallium	ND	ug/L	500	75	EPA-6010B	ND	A10	1
Dissolved Vanadium	ND	ug/L	50	5.0	EPA-6010B	ND	A10	1
Dissolved Zinc	ND	ug/L	50	30	EPA-6010B	ND	A10	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	02/28/11	03/03/11 10:45	ARD	PE-OP1	5	BUC0177
2	EPA-7470A	03/03/11	03/04/11 09:30	MEV	CETAC1	1	BUC0347

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425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Organochlorine Pesticides (EPA Method 8081)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC0386						
Aldrin	BUC0386-BLK1	ND	ug/L	0.0050	0.0013	
alpha-BHC	BUC0386-BLK1	ND	ug/L	0.0050	0.0011	
beta-BHC	BUC0386-BLK1	ND	ug/L	0.0050	0.0021	
delta-BHC	BUC0386-BLK1	ND	ug/L	0.0050	0.0014	
gamma-BHC (Lindane)	BUC0386-BLK1	ND	ug/L	0.0050	0.00094	
Chlordane (Technical)	BUC0386-BLK1	ND	ug/L	0.50	0.38	
4,4'-DDD	BUC0386-BLK1	ND	ug/L	0.0050	0.0017	
4,4'-DDE	BUC0386-BLK1	ND	ug/L	0.0050	0.0019	
4,4'-DDT	BUC0386-BLK1	ND	ug/L	0.0050	0.00076	
Dieldrin	BUC0386-BLK1	ND	ug/L	0.0050	0.0012	
Endosulfan I	BUC0386-BLK1	ND	ug/L	0.0050	0.0016	
Endosulfan II	BUC0386-BLK1	ND	ug/L	0.0050	0.0014	
Endosulfan sulfate	BUC0386-BLK1	ND	ug/L	0.0050	0.0026	
Endrin	BUC0386-BLK1	ND	ug/L	0.0050	0.00082	
Endrin aldehyde	BUC0386-BLK1	ND	ug/L	0.010	0.0032	
Heptachlor	BUC0386-BLK1	ND	ug/L	0.0050	0.0012	
Heptachlor epoxide	BUC0386-BLK1	ND	ug/L	0.0050	0.00099	
Methoxychlor	BUC0386-BLK1	ND	ug/L	0.0050	0.0011	
Toxaphene	BUC0386-BLK1	ND	ug/L	2.0	0.42	
TCMX (Surrogate)	BUC0386-BLK1	76.3	%	54 - 150 (LCL - UCL)		
Dibutyl chlorendate (Surrogate)	BUC0386-BLK1	90.0	%	82 - 150 (LCL - UCL)		

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Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Organochlorine Pesticides (EPA Method 8081)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUC0386										
Aldrin	BUC0386-BS1	LCS	0.12986	0.15000	ug/L	86.6		70 - 111		
gamma-BHC (Lindane)	BUC0386-BS1	LCS	0.12606	0.15000	ug/L	84.0		50 - 120		
4,4'-DDT	BUC0386-BS1	LCS	0.13868	0.15000	ug/L	92.5		58 - 116		
Dieldrin	BUC0386-BS1	LCS	0.13689	0.15000	ug/L	91.3		66 - 127		
Endrin	BUC0386-BS1	LCS	0.16004	0.15000	ug/L	107		61 - 152		
Heptachlor	BUC0386-BS1	LCS	0.14297	0.15000	ug/L	95.3		66 - 115		
TCMX (Surrogate)	BUC0386-BS1	LCS	0.21857	0.30000	ug/L	72.9		54 - 150		
Dibutyl chlorendate (Surrogate)	BUC0386-BS1	LCS	0.67134	0.75000	ug/L	89.5		82 - 150		

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Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Organochlorine Pesticides (EPA Method 8081)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC0386	Used client sample: N										
Aldrin	MS	1102229-03	ND	0.13141	0.15000	ug/L		87.6		67 - 114	
	MSD	1102229-03	ND	0.14076	0.15000	ug/L	6.9	93.8	22	67 - 114	
gamma-BHC (Lindane)	MS	1102229-03	ND	0.13131	0.15000	ug/L		87.5		46 - 120	
	MSD	1102229-03	ND	0.13881	0.15000	ug/L	5.6	92.5	21	46 - 120	
4,4'-DDT	MS	1102229-03	ND	0.14418	0.15000	ug/L		96.1		48 - 122	
	MSD	1102229-03	ND	0.15163	0.15000	ug/L	5.0	101	20	48 - 122	
Dieldrin	MS	1102229-03	ND	0.14224	0.15000	ug/L		94.8		66 - 122	
	MSD	1102229-03	ND	0.14569	0.15000	ug/L	2.4	97.1	20	66 - 122	
Endrin	MS	1102229-03	ND	0.16936	0.15000	ug/L		113		57 - 152	
	MSD	1102229-03	ND	0.17581	0.15000	ug/L	3.7	117	20	57 - 152	
Heptachlor	MS	1102229-03	ND	0.13740	0.15000	ug/L		91.6		64 - 118	
	MSD	1102229-03	ND	0.15044	0.15000	ug/L	9.1	100	20	64 - 118	
TCMX (Surrogate)	MS	1102229-03	ND	0.21252	0.30000	ug/L		70.8		54 - 150	
	MSD	1102229-03	ND	0.26358	0.30000	ug/L	21.4	87.9		54 - 150	
Dibutyl chlorendate (Surrogate)	MS	1102229-03	ND	0.74636	0.75000	ug/L		99.5		82 - 150	
	MSD	1102229-03	ND	0.76778	0.75000	ug/L	2.8	102		82 - 150	

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Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

PCB Analysis (EPA Method 8082)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC0552						
PCB-1016	BUC0552-BLK1	ND	ug/L	0.20	0.020	
PCB-1221	BUC0552-BLK1	ND	ug/L	0.20	0.089	
PCB-1232	BUC0552-BLK1	ND	ug/L	0.20	0.090	
PCB-1242	BUC0552-BLK1	ND	ug/L	0.20	0.095	
PCB-1248	BUC0552-BLK1	ND	ug/L	0.20	0.025	
PCB-1254	BUC0552-BLK1	ND	ug/L	0.20	0.042	
PCB-1260	BUC0552-BLK1	ND	ug/L	0.20	0.020	
Total PCB's (Summation)	BUC0552-BLK1	ND	ug/L	0.20	0.10	
Decachlorobiphenyl (Surrogate)	BUC0552-BLK1	112	%	48 - 135 (LCL - UCL)		

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Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

PCB Analysis (EPA Method 8082)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUC0552										
PCB-1260	BUC0552-BS1	LCS	2.6650	2.5000	ug/L	107		73 - 119		
Decachlorobiphenyl (Surrogate)	BUC0552-BS1	LCS	0.11900	0.10000	ug/L	119		48 - 135		

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Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

PCB Analysis (EPA Method 8082)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC0552	Used client sample: N										
PCB-1260	MS	1100204-78	ND	2.6240	2.5000	ug/L		105		64 - 125	
	MSD	1100204-78	ND	2.4550	2.5000	ug/L	6.7	98.2	23	64 - 125	
Decachlorobiphenyl (Surrogate)	MS	1100204-78	ND	0.12100	0.10000	ug/L		121		48 - 135	
	MSD	1100204-78	ND	0.10700	0.10000	ug/L	12.3	107		48 - 135	

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Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Chlorinated Herbicides (EPA Method 8151)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC0391						
2,4-D	BUC0391-BLK1	ND	ug/L	0.40	0.065	
2,4-DB	BUC0391-BLK1	ND	ug/L	3.0	0.32	
Dalapon	BUC0391-BLK1	ND	ug/L	10	2.4	
Dicamba	BUC0391-BLK1	ND	ug/L	0.080	0.037	
Dichloroprop	BUC0391-BLK1	ND	ug/L	0.50	0.012	
Dinoseb	BUC0391-BLK1	ND	ug/L	0.20	0.040	
2,4,5-T	BUC0391-BLK1	ND	ug/L	0.090	0.012	
2,4,5-TP (Silvex)	BUC0391-BLK1	ND	ug/L	0.070	0.016	
2,4-Dichlorophenylacetic acid (Surrogate)	BUC0391-BLK1	75.1	%	50 - 150 (LCL - UCL)		

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Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Chlorinated Herbicides (EPA Method 8151)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUC0391										
2,4-D	BUC0391-BS1	LCS	2.2860	2.4000	ug/L	95.2		55 - 124		
2,4-DB	BUC0391-BS1	LCS	2.6160	5.4000	ug/L	48.4		62 - 134		J,L02
Dicamba	BUC0391-BS1	LCS	0.46200	0.60000	ug/L	77.0		64 - 120		
Dichloroprop	BUC0391-BS1	LCS	2.0930	2.4000	ug/L	87.2		47 - 120		
Dinoseb	BUC0391-BS1	LCS	0.58200	1.2000	ug/L	48.5		55 - 120		L02
2,4,5-T	BUC0391-BS1	LCS	0.63500	0.60000	ug/L	106		67 - 139		
2,4,5-TP (Silvex)	BUC0391-BS1	LCS	0.55400	0.60000	ug/L	92.3		56 - 127		
2,4-Dichlorophenylacetic acid (Surrogate)	BUC0391-BS1	LCS	0.69900	1.0000	ug/L	69.9		50 - 150		

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Sunnyvale, CA 94085

Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Chlorinated Herbicides (EPA Method 8151)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC0391	Used client sample: N										
2,4-D	MS	1102229-57	ND	2.2860	2.4000	ug/L		95.2		47 - 128	
	MSD	1102229-57	ND	2.1840	2.4000	ug/L	4.6	91.0	30	47 - 128	
2,4-DB	MS	1102229-57	ND	5.7790	5.4000	ug/L		107		59 - 138	
	MSD	1102229-57	ND	4.5520	5.4000	ug/L	23.8	84.3	30	59 - 138	
Dicamba	MS	1102229-57	ND	0.63100	0.60000	ug/L		105		64 - 120	
	MSD	1102229-57	ND	0.45500	0.60000	ug/L	32.4	75.8	30	64 - 120	Q03
Dichloroprop	MS	1102229-57	ND	2.0940	2.4000	ug/L		87.2		48 - 120	
	MSD	1102229-57	ND	2.0020	2.4000	ug/L	4.5	83.4	30	48 - 120	
Dinoseb	MS	1102229-57	ND	1.2860	1.2000	ug/L		107		53 - 120	
	MSD	1102229-57	ND	1.0130	1.2000	ug/L	23.7	84.4	30	53 - 120	
2,4,5-T	MS	1102229-57	ND	0.69400	0.60000	ug/L		116		63 - 137	
	MSD	1102229-57	ND	0.58000	0.60000	ug/L	17.9	96.7	30	63 - 137	
2,4,5-TP (Silvex)	MS	1102229-57	ND	0.61000	0.60000	ug/L		102		47 - 132	
	MSD	1102229-57	ND	0.54300	0.60000	ug/L	11.6	90.5	30	47 - 132	
2,4-Dichlorophenylacetic acid (Surrogate	MS	1102229-57	ND	1.0800	1.0000	ug/L		108		50 - 150	
	MSD	1102229-57	ND	0.67200	1.0000	ug/L	46.6	67.2		50 - 150	

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425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC0518						
Benzene	BUC0518-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BUC0518-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BUC0518-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BUC0518-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BUC0518-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BUC0518-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BUC0518-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BUC0518-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BUC0518-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BUC0518-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BUC0518-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BUC0518-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BUC0518-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BUC0518-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BUC0518-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BUC0518-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BUC0518-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BUC0518-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BUC0518-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BUC0518-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BUC0518-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BUC0518-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BUC0518-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BUC0518-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BUC0518-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BUC0518-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BUC0518-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BUC0518-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BUC0518-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BUC0518-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BUC0518-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BUC0518-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BUC0518-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BUC0518-BLK1	ND	ug/L	0.50	0.14	

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Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC0518						
trans-1,3-Dichloropropene	BUC0518-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BUC0518-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BUC0518-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BUC0518-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BUC0518-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BUC0518-BLK1	ND	ug/L	1.0	0.48	
Methyl t-butyl ether	BUC0518-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BUC0518-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BUC0518-BLK1	ND	ug/L	0.50	0.11	
Styrene	BUC0518-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BUC0518-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BUC0518-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BUC0518-BLK1	ND	ug/L	0.50	0.13	
Toluene	BUC0518-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BUC0518-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BUC0518-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BUC0518-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BUC0518-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BUC0518-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BUC0518-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BUC0518-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BUC0518-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BUC0518-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BUC0518-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BUC0518-BLK1	ND	ug/L	0.50	0.12	
Total Xylenes	BUC0518-BLK1	ND	ug/L	1.0	0.36	
t-Amyl Methyl ether	BUC0518-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BUC0518-BLK1	ND	ug/L	10	9.4	
Diisopropyl ether	BUC0518-BLK1	ND	ug/L	0.50	0.23	
1,4-Dioxane	BUC0518-BLK1	ND	ug/L	100	42	
Ethyl t-butyl ether	BUC0518-BLK1	ND	ug/L	0.50	0.18	
Total Purgeable Petroleum Hydrocarbons	BUC0518-BLK1	ND	ug/L	50	7.2	
1,2-Dichloroethane-d4 (Surrogate)	BUC0518-BLK1	96.0	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BUC0518-BLK1	100	%	88 - 110 (LCL - UCL)		

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Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC0518						
4-Bromofluorobenzene (Surrogate)	BUC0518-BLK1	95.5	%	86 - 115 (LCL - UCL)		

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Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUC0518										
Benzene	BUC0518-BS1	LCS	27.010	25.000	ug/L	108		70 - 130		
Bromodichloromethane	BUC0518-BS1	LCS	24.060	25.000	ug/L	96.2		70 - 130		
Chlorobenzene	BUC0518-BS1	LCS	23.920	25.000	ug/L	95.7		70 - 130		
Chloroethane	BUC0518-BS1	LCS	23.840	25.000	ug/L	95.4		70 - 130		
1,4-Dichlorobenzene	BUC0518-BS1	LCS	24.100	25.000	ug/L	96.4		70 - 130		
1,1-Dichloroethane	BUC0518-BS1	LCS	25.870	25.000	ug/L	103		70 - 130		
1,1-Dichloroethene	BUC0518-BS1	LCS	26.870	25.000	ug/L	107		70 - 130		
Toluene	BUC0518-BS1	LCS	25.400	25.000	ug/L	102		70 - 130		
Trichloroethene	BUC0518-BS1	LCS	25.110	25.000	ug/L	100		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BUC0518-BS1	LCS	9.9500	10.000	ug/L	99.5		76 - 114		
Toluene-d8 (Surrogate)	BUC0518-BS1	LCS	10.120	10.000	ug/L	101		88 - 110		
4-Bromofluorobenzene (Surrogate)	BUC0518-BS1	LCS	9.7300	10.000	ug/L	97.3		86 - 115		

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Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC0518	Used client sample: N										
Benzene	MS	1103431-01	ND	24.080	25.000	ug/L		96.3		70 - 130	
	MSD	1103431-01	ND	25.250	25.000	ug/L	4.7	101	20	70 - 130	
Bromodichloromethane	MS	1103431-01	ND	22.170	25.000	ug/L		88.7		70 - 130	
	MSD	1103431-01	ND	22.230	25.000	ug/L	0.3	88.9	20	70 - 130	
Chlorobenzene	MS	1103431-01	ND	22.150	25.000	ug/L		88.6		70 - 130	
	MSD	1103431-01	ND	23.310	25.000	ug/L	5.1	93.2	20	70 - 130	
Chloroethane	MS	1103431-01	ND	21.920	25.000	ug/L		87.7		70 - 130	
	MSD	1103431-01	ND	25.100	25.000	ug/L	13.5	100	20	70 - 130	
1,4-Dichlorobenzene	MS	1103431-01	ND	22.790	25.000	ug/L		91.2		70 - 130	
	MSD	1103431-01	ND	23.990	25.000	ug/L	5.1	96.0	20	70 - 130	
1,1-Dichloroethane	MS	1103431-01	ND	23.530	25.000	ug/L		94.1		70 - 130	
	MSD	1103431-01	ND	24.270	25.000	ug/L	3.1	97.1	20	70 - 130	
1,1-Dichloroethene	MS	1103431-01	ND	25.380	25.000	ug/L		102		70 - 130	
	MSD	1103431-01	ND	26.000	25.000	ug/L	2.4	104	20	70 - 130	
Toluene	MS	1103431-01	ND	22.940	25.000	ug/L		91.8		70 - 130	
	MSD	1103431-01	ND	23.110	25.000	ug/L	0.7	92.4	20	70 - 130	
Trichloroethene	MS	1103431-01	0.12000	23.850	25.000	ug/L		94.9		70 - 130	
	MSD	1103431-01	0.12000	23.300	25.000	ug/L	2.3	92.7	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1103431-01	ND	10.790	10.000	ug/L		108		76 - 114	
	MSD	1103431-01	ND	10.490	10.000	ug/L	2.8	105		76 - 114	
Toluene-d8 (Surrogate)	MS	1103431-01	ND	10.030	10.000	ug/L		100		88 - 110	
	MSD	1103431-01	ND	10.080	10.000	ug/L	0.5	101		88 - 110	
4-Bromofluorobenzene (Surrogate)	MS	1103431-01	ND	10.020	10.000	ug/L		100		86 - 115	
	MSD	1103431-01	ND	10.140	10.000	ug/L	1.2	101		86 - 115	

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Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC0262						
Acenaphthene	BUC0262-BLK1	ND	ug/L	2.0	0.24	
Acenaphthylene	BUC0262-BLK1	ND	ug/L	2.0	0.28	
Aldrin	BUC0262-BLK1	ND	ug/L	2.0	0.35	
Aniline	BUC0262-BLK1	ND	ug/L	5.0	0.69	
Anthracene	BUC0262-BLK1	ND	ug/L	2.0	0.30	
Benzidine	BUC0262-BLK1	ND	ug/L	20	7.1	
Benzo[a]anthracene	BUC0262-BLK1	ND	ug/L	2.0	0.38	
Benzo[b]fluoranthene	BUC0262-BLK1	ND	ug/L	2.0	0.41	
Benzo[k]fluoranthene	BUC0262-BLK1	ND	ug/L	2.0	0.31	
Benzo[a]pyrene	BUC0262-BLK1	ND	ug/L	2.0	0.20	
Benzo[g,h,i]perylene	BUC0262-BLK1	ND	ug/L	2.0	0.22	
Benzoic acid	BUC0262-BLK1	ND	ug/L	10	5.8	
Benzyl alcohol	BUC0262-BLK1	ND	ug/L	2.0	0.34	
Benzyl butyl phthalate	BUC0262-BLK1	ND	ug/L	2.0	0.47	
alpha-BHC	BUC0262-BLK1	ND	ug/L	2.0	0.27	
beta-BHC	BUC0262-BLK1	ND	ug/L	2.0	0.27	
delta-BHC	BUC0262-BLK1	ND	ug/L	2.0	0.30	
gamma-BHC (Lindane)	BUC0262-BLK1	ND	ug/L	2.0	0.22	
bis(2-Chloroethoxy)methane	BUC0262-BLK1	ND	ug/L	2.0	0.27	
bis(2-Chloroethyl) ether	BUC0262-BLK1	ND	ug/L	2.0	0.68	
bis(2-Chloroisopropyl)ether	BUC0262-BLK1	ND	ug/L	2.0	0.30	
bis(2-Ethylhexyl)phthalate	BUC0262-BLK1	ND	ug/L	5.0	3.0	
4-Bromophenyl phenyl ether	BUC0262-BLK1	ND	ug/L	2.0	0.23	
4-Chloroaniline	BUC0262-BLK1	ND	ug/L	2.0	0.69	
2-Chloronaphthalene	BUC0262-BLK1	ND	ug/L	2.0	0.34	
4-Chlorophenyl phenyl ether	BUC0262-BLK1	ND	ug/L	2.0	0.23	
Chrysene	BUC0262-BLK1	ND	ug/L	2.0	0.63	
4,4'-DDD	BUC0262-BLK1	ND	ug/L	2.0	0.48	
4,4'-DDE	BUC0262-BLK1	ND	ug/L	3.0	0.41	
4,4'-DDT	BUC0262-BLK1	ND	ug/L	2.0	0.43	
Dibenzo[a,h]anthracene	BUC0262-BLK1	ND	ug/L	3.0	0.26	
Dibenzofuran	BUC0262-BLK1	ND	ug/L	2.0	0.21	
1,2-Dichlorobenzene	BUC0262-BLK1	ND	ug/L	2.0	0.37	
1,3-Dichlorobenzene	BUC0262-BLK1	ND	ug/L	2.0	0.35	

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Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC0262						
1,4-Dichlorobenzene	BUC0262-BLK1	ND	ug/L	2.0	0.31	
3,3-Dichlorobenzidine	BUC0262-BLK1	ND	ug/L	10	8.2	
Dieldrin	BUC0262-BLK1	ND	ug/L	3.0	0.41	
Diethyl phthalate	BUC0262-BLK1	ND	ug/L	2.0	0.33	
Dimethyl phthalate	BUC0262-BLK1	ND	ug/L	2.0	0.39	
Di-n-butyl phthalate	BUC0262-BLK1	ND	ug/L	2.0	0.39	
2,4-Dinitrotoluene	BUC0262-BLK1	ND	ug/L	2.0	0.26	
2,6-Dinitrotoluene	BUC0262-BLK1	ND	ug/L	2.0	0.41	
Di-n-octyl phthalate	BUC0262-BLK1	ND	ug/L	2.0	0.46	
1,2-Diphenylhydrazine	BUC0262-BLK1	ND	ug/L	2.0	0.34	
Endosulfan I	BUC0262-BLK1	ND	ug/L	10	1.7	
Endosulfan II	BUC0262-BLK1	ND	ug/L	10	1.2	
Endosulfan sulfate	BUC0262-BLK1	ND	ug/L	3.0	0.58	
Endrin	BUC0262-BLK1	ND	ug/L	2.0	1.1	
Endrin aldehyde	BUC0262-BLK1	ND	ug/L	10	0.52	
Fluoranthene	BUC0262-BLK1	ND	ug/L	2.0	0.20	
Fluorene	BUC0262-BLK1	ND	ug/L	2.0	0.28	
Heptachlor	BUC0262-BLK1	ND	ug/L	2.0	0.32	
Heptachlor epoxide	BUC0262-BLK1	ND	ug/L	2.0	0.27	
Hexachlorobenzene	BUC0262-BLK1	ND	ug/L	2.0	0.20	
Hexachlorobutadiene	BUC0262-BLK1	ND	ug/L	2.0	0.24	
Hexachlorocyclopentadiene	BUC0262-BLK1	ND	ug/L	2.0	0.30	
Hexachloroethane	BUC0262-BLK1	ND	ug/L	2.0	0.32	
Indeno[1,2,3-cd]pyrene	BUC0262-BLK1	ND	ug/L	2.0	0.26	
Isophorone	BUC0262-BLK1	ND	ug/L	2.0	0.31	
2-Methylnaphthalene	BUC0262-BLK1	ND	ug/L	2.0	0.28	
Naphthalene	BUC0262-BLK1	ND	ug/L	2.0	0.21	
2-Naphthylamine	BUC0262-BLK1	ND	ug/L	20	4.8	
2-Nitroaniline	BUC0262-BLK1	ND	ug/L	2.0	0.33	
3-Nitroaniline	BUC0262-BLK1	ND	ug/L	2.0	0.66	
4-Nitroaniline	BUC0262-BLK1	ND	ug/L	5.0	0.87	
Nitrobenzene	BUC0262-BLK1	ND	ug/L	2.0	0.26	
N-Nitrosodimethylamine	BUC0262-BLK1	ND	ug/L	2.0	0.61	
N-Nitrosodi-N-propylamine	BUC0262-BLK1	ND	ug/L	2.0	1.3	

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Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC0262						
N-Nitrosodiphenylamine	BUC0262-BLK1	ND	ug/L	2.0	0.44	
Phenanthrene	BUC0262-BLK1	ND	ug/L	2.0	0.20	
Pyrene	BUC0262-BLK1	ND	ug/L	2.0	0.26	
1,2,4-Trichlorobenzene	BUC0262-BLK1	ND	ug/L	2.0	0.27	
4-Chloro-3-methylphenol	BUC0262-BLK1	ND	ug/L	5.0	0.40	
2-Chlorophenol	BUC0262-BLK1	ND	ug/L	2.0	0.37	
2,4-Dichlorophenol	BUC0262-BLK1	ND	ug/L	2.0	0.43	
2,4-Dimethylphenol	BUC0262-BLK1	ND	ug/L	2.0	0.20	
4,6-Dinitro-2-methylphenol	BUC0262-BLK1	ND	ug/L	10	0.34	
2,4-Dinitrophenol	BUC0262-BLK1	ND	ug/L	10	0.20	
2-Methylphenol	BUC0262-BLK1	ND	ug/L	2.0	1.0	
3- & 4-Methylphenol	BUC0262-BLK1	ND	ug/L	2.0	1.6	
2-Nitrophenol	BUC0262-BLK1	ND	ug/L	2.0	0.28	
4-Nitrophenol	BUC0262-BLK1	ND	ug/L	2.0	0.73	
Pentachlorophenol	BUC0262-BLK1	ND	ug/L	10	0.79	
Phenol	BUC0262-BLK1	ND	ug/L	2.0	0.20	
2,4,5-Trichlorophenol	BUC0262-BLK1	ND	ug/L	5.0	0.31	
2,4,6-Trichlorophenol	BUC0262-BLK1	ND	ug/L	5.0	0.60	
2-Fluorophenol (Surrogate)	BUC0262-BLK1	63.5	%	28 - 85 (LCL - UCL)		
Phenol-d5 (Surrogate)	BUC0262-BLK1	40.5	%	13 - 59 (LCL - UCL)		
Nitrobenzene-d5 (Surrogate)	BUC0262-BLK1	87.4	%	34 - 119 (LCL - UCL)		
2-Fluorobiphenyl (Surrogate)	BUC0262-BLK1	89.8	%	24 - 128 (LCL - UCL)		
2,4,6-Tribromophenol (Surrogate)	BUC0262-BLK1	78.8	%	35 - 114 (LCL - UCL)		
p-Terphenyl-d14 (Surrogate)	BUC0262-BLK1	99.8	%	10 - 185 (LCL - UCL)		

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUC0262										
Acenaphthene	BUC0262-BS1	LCS	46.836	50.000	ug/L	93.7		63 - 128		
1,4-Dichlorobenzene	BUC0262-BS1	LCS	42.906	50.000	ug/L	85.8		72 - 112		
2,4-Dinitrotoluene	BUC0262-BS1	LCS	45.450	50.000	ug/L	90.9		45 - 136		
Hexachlorobenzene	BUC0262-BS1	LCS	45.764	50.000	ug/L	91.5		71 - 130		
Hexachlorobutadiene	BUC0262-BS1	LCS	38.021	50.000	ug/L	76.0		56 - 106		
Hexachloroethane	BUC0262-BS1	LCS	45.812	50.000	ug/L	91.6		58 - 116		
Nitrobenzene	BUC0262-BS1	LCS	46.689	50.000	ug/L	93.4		59 - 119		
N-Nitrosodi-N-propylamine	BUC0262-BS1	LCS	50.019	50.000	ug/L	100		47 - 112		
Pyrene	BUC0262-BS1	LCS	53.706	50.000	ug/L	107		26 - 167		
1,2,4-Trichlorobenzene	BUC0262-BS1	LCS	42.480	50.000	ug/L	85.0		64 - 116		
4-Chloro-3-methylphenol	BUC0262-BS1	LCS	45.527	50.000	ug/L	91.1		52 - 123		
2-Chlorophenol	BUC0262-BS1	LCS	43.523	50.000	ug/L	87.0		62 - 106		
2-Methylphenol	BUC0262-BS1	LCS	40.694	50.000	ug/L	81.4		39 - 119		
3- & 4-Methylphenol	BUC0262-BS1	LCS	62.687	100.00	ug/L	62.7		40 - 94		
4-Nitrophenol	BUC0262-BS1	LCS	20.081	50.000	ug/L	40.2		18 - 64		
Pentachlorophenol	BUC0262-BS1	LCS	36.460	50.000	ug/L	72.9		38 - 144		
Phenol	BUC0262-BS1	LCS	21.792	50.000	ug/L	43.6		22 - 60		
2,4,6-Trichlorophenol	BUC0262-BS1	LCS	47.600	50.000	ug/L	95.2		60 - 127		
2-Fluorophenol (Surrogate)	BUC0262-BS1	LCS	59.520	80.000	ug/L	74.4		28 - 85		
Phenol-d5 (Surrogate)	BUC0262-BS1	LCS	37.510	80.000	ug/L	46.9		13 - 59		
Nitrobenzene-d5 (Surrogate)	BUC0262-BS1	LCS	77.840	80.000	ug/L	97.3		34 - 119		
2-Fluorobiphenyl (Surrogate)	BUC0262-BS1	LCS	73.290	80.000	ug/L	91.6		24 - 128		
2,4,6-Tribromophenol (Surrogate)	BUC0262-BS1	LCS	80.690	80.000	ug/L	101		35 - 114		
p-Terphenyl-d14 (Surrogate)	BUC0262-BS1	LCS	41.600	40.000	ug/L	104		10 - 185		

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Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC0262	Used client sample: N										
Acenaphthene	MS	1015011-99	ND	48.995	50.000	ug/L		98.0		55 - 128	
	MSD	1015011-99	ND	48.080	50.000	ug/L	1.9	96.2	28	55 - 128	
1,4-Dichlorobenzene	MS	1015011-99	ND	45.487	50.000	ug/L		91.0		64 - 114	
	MSD	1015011-99	ND	41.053	50.000	ug/L	10.2	82.1	27	64 - 114	
2,4-Dinitrotoluene	MS	1015011-99	ND	48.598	50.000	ug/L		97.2		41 - 135	
	MSD	1015011-99	ND	48.457	50.000	ug/L	0.3	96.9	29	41 - 135	
Hexachlorobenzene	MS	1015011-99	ND	44.552	50.000	ug/L		89.1		66 - 131	
	MSD	1015011-99	ND	48.413	50.000	ug/L	8.3	96.8	23	66 - 131	
Hexachlorobutadiene	MS	1015011-99	ND	39.870	50.000	ug/L		79.7		47 - 108	
	MSD	1015011-99	ND	34.464	50.000	ug/L	14.5	68.9	26	47 - 108	
Hexachloroethane	MS	1015011-99	ND	46.719	50.000	ug/L		93.4		49 - 118	
	MSD	1015011-99	ND	39.580	50.000	ug/L	16.5	79.2	30	49 - 118	
Nitrobenzene	MS	1015011-99	ND	48.536	50.000	ug/L		97.1		53 - 118	
	MSD	1015011-99	ND	49.141	50.000	ug/L	1.2	98.3	27	53 - 118	
N-Nitrosodi-N-propylamine	MS	1015011-99	ND	54.130	50.000	ug/L		108		41 - 114	
	MSD	1015011-99	ND	52.988	50.000	ug/L	2.1	106	30	41 - 114	
Pyrene	MS	1015011-99	ND	50.285	50.000	ug/L		101		25 - 163	
	MSD	1015011-99	ND	49.293	50.000	ug/L	2.0	98.6	27	25 - 163	
1,2,4-Trichlorobenzene	MS	1015011-99	ND	45.690	50.000	ug/L		91.4		52 - 121	
	MSD	1015011-99	ND	42.282	50.000	ug/L	7.7	84.6	28	52 - 121	
4-Chloro-3-methylphenol	MS	1015011-99	ND	46.238	50.000	ug/L		92.5		46 - 125	
	MSD	1015011-99	ND	50.712	50.000	ug/L	9.2	101	23	46 - 125	
2-Chlorophenol	MS	1015011-99	ND	42.282	50.000	ug/L		84.6		53 - 109	
	MSD	1015011-99	ND	42.361	50.000	ug/L	0.2	84.7	30	53 - 109	
2-Methylphenol	MS	1015011-99	ND	40.382	50.000	ug/L		80.8		37 - 117	
	MSD	1015011-99	ND	42.256	50.000	ug/L	4.5	84.5	26	37 - 117	
3- & 4-Methylphenol	MS	1015011-99	ND	63.380	100.00	ug/L		63.4		39 - 92	
	MSD	1015011-99	ND	63.084	100.00	ug/L	0.5	63.1	27	39 - 92	
4-Nitrophenol	MS	1015011-99	ND	20.468	50.000	ug/L		40.9		18 - 63	
	MSD	1015011-99	ND	21.203	50.000	ug/L	3.5	42.4	30	18 - 63	
Pentachlorophenol	MS	1015011-99	ND	35.533	50.000	ug/L		71.1		16 - 156	
	MSD	1015011-99	ND	41.417	50.000	ug/L	15.3	82.8	30	16 - 156	
Phenol	MS	1015011-99	ND	22.568	50.000	ug/L		45.1		21 - 59	
	MSD	1015011-99	ND	22.537	50.000	ug/L	0.1	45.1	29	21 - 59	
2,4,6-Trichlorophenol	MS	1015011-99	ND	48.719	50.000	ug/L		97.4		43 - 135	
	MSD	1015011-99	ND	51.069	50.000	ug/L	4.7	102	30	43 - 135	

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC0262	Used client sample: N										
2-Fluorophenol (Surrogate)	MS	1015011-99	ND	57.550	80.000	ug/L		71.9		28 - 85	
	MSD	1015011-99	ND	55.500	80.000	ug/L	3.6	69.4		28 - 85	
Phenol-d5 (Surrogate)	MS	1015011-99	ND	36.720	80.000	ug/L		45.9		13 - 59	
	MSD	1015011-99	ND	35.780	80.000	ug/L	2.6	44.7		13 - 59	
Nitrobenzene-d5 (Surrogate)	MS	1015011-99	ND	77.890	80.000	ug/L		97.4		34 - 119	
	MSD	1015011-99	ND	74.770	80.000	ug/L	4.1	93.5		34 - 119	
2-Fluorobiphenyl (Surrogate)	MS	1015011-99	ND	74.060	80.000	ug/L		92.6		24 - 128	
	MSD	1015011-99	ND	75.450	80.000	ug/L	1.9	94.3		24 - 128	
2,4,6-Tribromophenol (Surrogate)	MS	1015011-99	ND	70.750	80.000	ug/L		88.4		35 - 114	
	MSD	1015011-99	ND	77.650	80.000	ug/L	9.3	97.1		35 - 114	
p-Terphenyl-d14 (Surrogate)	MS	1015011-99	ND	40.150	40.000	ug/L		100		10 - 185	
	MSD	1015011-99	ND	38.230	40.000	ug/L	4.9	95.6		10 - 185	

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Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC0332						
TPH - C8 - C9	BUC0332-BLK1	ND	ug/L	10	5.0	
TPH - C10 - C11	BUC0332-BLK1	ND	ug/L	10	5.0	
TPH - C12 - C14	BUC0332-BLK1	ND	ug/L	10	5.0	
TPH - C15 - C16	BUC0332-BLK1	ND	ug/L	10	5.0	
TPH - C17 - C18	BUC0332-BLK1	ND	ug/L	10	5.0	
TPH - C19 - C20	BUC0332-BLK1	ND	ug/L	10	5.0	
TPH - C21 - C22	BUC0332-BLK1	ND	ug/L	10	5.0	
TPH - C23 - C28	BUC0332-BLK1	ND	ug/L	10	5.0	
TPH - C29 - C32	BUC0332-BLK1	ND	ug/L	10	5.0	
TPH - C33 - C36	BUC0332-BLK1	ND	ug/L	10	5.0	
TPH - C37 - C40	BUC0332-BLK1	ND	ug/L	10	5.0	
TPH - C41 - C43	BUC0332-BLK1	ND	ug/L	10	5.0	
TPH - C44 plus	BUC0332-BLK1	ND	ug/L	10	5.0	
TPH (Total)	BUC0332-BLK1	ND	ug/L	200	100	
TPH - Diesel (FFP)	BUC0332-BLK1	ND	ug/L	200	34	
Tetracosane (Surrogate)	BUC0332-BLK1	76.8	%	37 - 134 (LCL - UCL)		

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Project Number: 103 97163
Project Manager: Tom Vercoutere

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUC0332										
TPH - Diesel (FFP)	BUC0332-BS1	LCS	2514.2	2500.0	ug/L	101		52 - 128		
Tetracosane (Surrogate)	BUC0332-BS1	LCS	130.06	100.00	ug/L	130		37 - 134		

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Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC0332	Used client sample: N										
TPH - Diesel (FFP)	MS	1102229-45	ND	2547.8	2500.0	ug/L		102		50 - 127	
	MSD	1102229-45	ND	2532.8	2500.0	ug/L	0.6	101	24	50 - 127	
Tetracosane (Surrogate)	MS	1102229-45	ND	140.54	100.00	ug/L		141		37 - 134	S09
	MSD	1102229-45	ND	132.69	100.00	ug/L	5.7	133		37 - 134	

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Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC0132						
Total Dissolved Solids @ 180 C	BUC0132-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BUC0149						
Chloride	BUC0149-BLK1	0.13700	mg/L	0.50	0.050	J
Fluoride	BUC0149-BLK1	ND	mg/L	0.050	0.012	
Nitrate as N	BUC0149-BLK1	ND	mg/L	0.10	0.014	
Sulfate	BUC0149-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BUC0159						
Total Cyanide	BUC0159-BLK1	ND	mg/L	0.0050	0.0016	
QC Batch ID: BUC0179						
Dissolved Calcium	BUC0179-BLK1	ND	mg/L	0.10	0.018	
Dissolved Magnesium	BUC0179-BLK1	ND	mg/L	0.050	0.016	
Dissolved Sodium	BUC0179-BLK1	ND	mg/L	0.50	0.050	
Dissolved Potassium	BUC0179-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BUC0191						
Nitrite as N	BUC0191-BLK1	ND	mg/L	0.050	0.0081	
QC Batch ID: BUC0202						
Bicarbonate Alkalinity as CaCO3	BUC0202-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BUC0202-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BUC0244						
Total Sulfide	BUC0244-BLK1	ND	mg/L	0.10	0.050	
QC Batch ID: BUC0323						
Non-Volatile Organic Carbon	BUC0323-BLK1	0.17400	mg/L	0.30	0.062	J
QC Batch ID: BUC0434						
Nitrate/Nitrite as N	BUC0434-BLK1	ND	mg/L	0.10	0.010	
QC Batch ID: BUC0790						
Nitrate/Nitrite as N	BUC0790-BLK1	ND	mg/L	0.10	0.010	

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Project Manager: Tom Vercoutere

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUC0132										
Total Dissolved Solids @ 180 C	BUC0132-BS1	LCS	565.00	586.00	mg/L	96.4		90 - 110		
QC Batch ID: BUC0149										
Chloride	BUC0149-BS1	LCS	107.18	100.00	mg/L	107		90 - 110		
Fluoride	BUC0149-BS1	LCS	0.95400	1.0000	mg/L	95.4		90 - 110		
Nitrate as N	BUC0149-BS1	LCS	5.1480	5.0000	mg/L	103		90 - 110		
Sulfate	BUC0149-BS1	LCS	103.08	100.00	mg/L	103		90 - 110		
QC Batch ID: BUC0159										
Total Cyanide	BUC0159-BS1	LCS	0.14178	0.15000	mg/L	94.5		90 - 110		
QC Batch ID: BUC0179										
Dissolved Calcium	BUC0179-BS1	LCS	10.031	10.000	mg/L	100		85 - 115		
Dissolved Magnesium	BUC0179-BS1	LCS	10.873	10.000	mg/L	109		85 - 115		
Dissolved Sodium	BUC0179-BS1	LCS	9.6705	10.000	mg/L	96.7		85 - 115		
Dissolved Potassium	BUC0179-BS1	LCS	10.183	10.000	mg/L	102		85 - 115		
QC Batch ID: BUC0191										
Nitrite as N	BUC0191-BS1	LCS	0.49829	0.50000	mg/L	99.7		90 - 110		
QC Batch ID: BUC0244										
Total Sulfide	BUC0244-BS1	LCS	0.50753	0.50000	mg/L	102		90 - 110		
QC Batch ID: BUC0323										
Non-Volatile Organic Carbon	BUC0323-BS1	LCS	5.1720	5.0000	mg/L	103		85 - 115		
QC Batch ID: BUC0434										
Nitrate/Nitrite as N	BUC0434-BS1	LCS	2.0849	2.0000	mg/L	104		90 - 110		
QC Batch ID: BUC0790										
Nitrate/Nitrite as N	BUC0790-BS1	LCS	2.0166	2.0000	mg/L	101		90 - 110		

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Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC0132	Used client sample: Y - Description: EB-05, 02/28/2011 10:00										
Total Dissolved Solids @ 180 C	DUP	1103253-01	4400.0	4400.0		mg/L	0		10		
QC Batch ID: BUC0149	Used client sample: Y - Description: EB-05, 02/28/2011 10:00										
Chloride	DUP	1103253-01	1690.9	1685.3		mg/L	0.3		10		
	MS	1103253-01	1690.9	2205.4	505.05	mg/L		102		80 - 120	A01
	MSD	1103253-01	1690.9	2201.1	505.05	mg/L	0.2	101	10	80 - 120	
Fluoride	DUP	1103253-01	1.7600	1.7950		mg/L	2.0		10		
	MS	1103253-01	1.7600	7.1515	5.0505	mg/L		107		80 - 120	A01
	MSD	1103253-01	1.7600	7.1818	5.0505	mg/L	0.4	107	10	80 - 120	
Nitrate as N	DUP	1103253-01	ND	ND		mg/L			10		
	MS	1103253-01	ND	31.106	25.253	mg/L		123		80 - 120	A01,Q03
	MSD	1103253-01	ND	31.763	25.253	mg/L	2.1	126	10	80 - 120	Q03
Sulfate	DUP	1103253-01	52.555	52.125		mg/L	0.8		10		
	MS	1103253-01	52.555	595.14	505.05	mg/L		107		80 - 120	A01
	MSD	1103253-01	52.555	597.89	505.05	mg/L	0.5	108	10	80 - 120	
QC Batch ID: BUC0159	Used client sample: N										
Total Cyanide	DUP	1103226-01	ND	ND		mg/L			10		
	MS	1103226-01	ND	0.098416	0.10000	mg/L		98.4		90 - 110	
	MSD	1103226-01	ND	0.096676	0.10000	mg/L	1.8	96.7	10	90 - 110	
QC Batch ID: BUC0179	Used client sample: N										
Dissolved Calcium	DUP	1103259-01	194.81	195.68		mg/L	0.4		20		
	MS	1103259-01	194.81	205.17	10.204	mg/L		102		85 - 115	
	MSD	1103259-01	194.81	204.61	10.204	mg/L	0.3	96.0	20	85 - 115	
Dissolved Magnesium	DUP	1103259-01	0.85321	0.85572		mg/L	0.3		20		
	MS	1103259-01	0.85321	11.791	10.204	mg/L		107		85 - 115	
	MSD	1103259-01	0.85321	11.817	10.204	mg/L	0.2	107	20	85 - 115	
Dissolved Sodium	DUP	1103259-01	93.809	92.535		mg/L	1.4		20		
	MS	1103259-01	93.809	102.62	10.204	mg/L		86.3		85 - 115	
	MSD	1103259-01	93.809	100.96	10.204	mg/L	1.6	70.0	20	85 - 115	A03
Dissolved Potassium	DUP	1103259-01	4.8287	4.7686		mg/L	1.3		20		
	MS	1103259-01	4.8287	15.423	10.204	mg/L		104		85 - 115	
	MSD	1103259-01	4.8287	15.305	10.204	mg/L	0.8	103	20	85 - 115	
QC Batch ID: BUC0191	Used client sample: Y - Description: A-53, 02/28/2011 10:10										
Nitrite as N	DUP	1103251-01	0.12342	0.12242		mg/L	0.8		10		
	MS	1103251-01	0.12342	0.64507	0.52632	mg/L		99.1		90 - 110	
	MSD	1103251-01	0.12342	0.65313	0.52632	mg/L	1.2	101	10	90 - 110	
QC Batch ID: BUC0202	Used client sample: Y - Description: A-228, 02/28/2011 13:55										

Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC0202	Used client sample: Y - Description: A-228, 02/28/2011 13:55										
Bicarbonate Alkalinity as CaCO3	DUP	1103251-04	646.26	651.13		mg/L	0.8		10		
Carbonate Alkalinity as CaCO3	DUP	1103251-04	ND	ND		mg/L			10		
QC Batch ID: BUC0244	Used client sample: Y - Description: A-53, 02/28/2011 10:10										
Total Sulfide	DUP	1103251-01	ND	ND		mg/L			10		
	MS	1103251-01	ND	0.45570	0.50000	mg/L		91.1		80 - 120	
	MSD	1103251-01	ND	0.45727	0.50000	mg/L	0.3	91.5	10	80 - 120	
QC Batch ID: BUC0323	Used client sample: N										
Non-Volatile Organic Carbon	DUP	1103137-02	1.3870	1.3670		mg/L	1.5		10		
	MS	1103137-02	1.3870	6.7357	5.0251	mg/L		106		80 - 120	
	MSD	1103137-02	1.3870	6.7055	5.0251	mg/L	0.4	106	10	80 - 120	
QC Batch ID: BUC0434	Used client sample: N										
Nitrate/Nitrite as N	DUP	1103321-02	0.62720	0.67040		mg/L	6.7		10		
	MS	1103321-02	0.62720	2.9061	2.1053	mg/L		108		90 - 110	
	MSD	1103321-02	0.62720	2.8458	2.1053	mg/L	2.1	105	10	90 - 110	
QC Batch ID: BUC0790	Used client sample: Y - Description: EB-05, 02/28/2011 10:00										
Nitrate/Nitrite as N	DUP	103253-01RE'	0.015500	0.015500		mg/L	0		10		J
	MS	103253-01RE'	0.015500	2.1871	2.1053	mg/L		103		90 - 110	
	MSD	103253-01RE'	0.015500	2.2464	2.1053	mg/L	2.7	106	10	90 - 110	

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Water Analysis (Metals)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC0177						
Dissolved Antimony	BUC0177-BLK1	ND	ug/L	100	10	
Dissolved Arsenic	BUC0177-BLK1	ND	ug/L	50	7.5	
Dissolved Barium	BUC0177-BLK1	ND	ug/L	10	1.2	
Dissolved Beryllium	BUC0177-BLK1	ND	ug/L	10	1.0	
Dissolved Cadmium	BUC0177-BLK1	ND	ug/L	10	1.0	
Dissolved Chromium	BUC0177-BLK1	ND	ug/L	10	1.0	
Dissolved Cobalt	BUC0177-BLK1	ND	ug/L	50	5.0	
Dissolved Copper	BUC0177-BLK1	ND	ug/L	10	2.3	
Dissolved Lead	BUC0177-BLK1	ND	ug/L	50	5.0	
Dissolved Molybdenum	BUC0177-BLK1	ND	ug/L	50	5.0	
Dissolved Nickel	BUC0177-BLK1	ND	ug/L	10	1.2	
Dissolved Selenium	BUC0177-BLK1	ND	ug/L	100	11	
Dissolved Silver	BUC0177-BLK1	1.1721	ug/L	10	1.1	J
Dissolved Thallium	BUC0177-BLK1	ND	ug/L	100	15	
Dissolved Vanadium	BUC0177-BLK1	ND	ug/L	10	1.0	
Dissolved Zinc	BUC0177-BLK1	ND	ug/L	10	5.9	
QC Batch ID: BUC0347						
Dissolved Mercury	BUC0347-BLK1	ND	ug/L	0.20	0.034	

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Water Analysis (Metals)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUC0177										
Dissolved Antimony	BUC0177-BS1	LCS	361.90	400.00	ug/L	90.5		85 - 115		
Dissolved Arsenic	BUC0177-BS1	LCS	180.68	200.00	ug/L	90.3		85 - 115		
Dissolved Barium	BUC0177-BS1	LCS	426.02	400.00	ug/L	107		85 - 115		
Dissolved Beryllium	BUC0177-BS1	LCS	199.84	200.00	ug/L	99.9		85 - 115		
Dissolved Cadmium	BUC0177-BS1	LCS	197.44	200.00	ug/L	98.7		85 - 115		
Dissolved Chromium	BUC0177-BS1	LCS	202.89	200.00	ug/L	101		85 - 115		
Dissolved Cobalt	BUC0177-BS1	LCS	201.90	200.00	ug/L	101		85 - 115		
Dissolved Copper	BUC0177-BS1	LCS	388.55	400.00	ug/L	97.1		85 - 115		
Dissolved Lead	BUC0177-BS1	LCS	409.11	400.00	ug/L	102		85 - 115		
Dissolved Molybdenum	BUC0177-BS1	LCS	195.72	200.00	ug/L	97.9		85 - 115		
Dissolved Nickel	BUC0177-BS1	LCS	412.71	400.00	ug/L	103		85 - 115		
Dissolved Selenium	BUC0177-BS1	LCS	222.55	200.00	ug/L	111		85 - 115		
Dissolved Silver	BUC0177-BS1	LCS	96.650	100.00	ug/L	96.6		85 - 115		
Dissolved Thallium	BUC0177-BS1	LCS	428.44	400.00	ug/L	107		85 - 115		
Dissolved Vanadium	BUC0177-BS1	LCS	194.69	200.00	ug/L	97.3		85 - 115		
Dissolved Zinc	BUC0177-BS1	LCS	534.85	500.00	ug/L	107		85 - 115		
QC Batch ID: BUC0347										
Dissolved Mercury	BUC0347-BS1	LCS	1.0375	1.0000	ug/L	104		85 - 115		

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC0177	Used client sample: N										
Dissolved Antimony	DUP	1103305-01	ND	ND		ug/L			20		
	MS	1103305-01	ND	396.23	408.16	ug/L		97.1		75 - 125	
	MSD	1103305-01	ND	405.82	408.16	ug/L	2.4	99.4	20	75 - 125	
Dissolved Arsenic	DUP	1103305-01	ND	ND		ug/L			20		
	MS	1103305-01	ND	204.31	204.08	ug/L		100		75 - 125	
	MSD	1103305-01	ND	202.80	204.08	ug/L	0.7	99.4	20	75 - 125	
Dissolved Barium	DUP	1103305-01	20.603	20.290		ug/L	1.5		20		
	MS	1103305-01	20.603	444.92	408.16	ug/L		104		75 - 125	
	MSD	1103305-01	20.603	459.13	408.16	ug/L	3.1	107	20	75 - 125	
Dissolved Beryllium	DUP	1103305-01	ND	ND		ug/L			20		
	MS	1103305-01	ND	209.30	204.08	ug/L		103		75 - 125	
	MSD	1103305-01	ND	209.65	204.08	ug/L	0.2	103	20	75 - 125	
Dissolved Cadmium	DUP	1103305-01	ND	ND		ug/L			20		
	MS	1103305-01	ND	207.32	204.08	ug/L		102		75 - 125	
	MSD	1103305-01	ND	211.44	204.08	ug/L	2.0	104	20	75 - 125	
Dissolved Chromium	DUP	1103305-01	1.8003	1.4931		ug/L	18.7		20		J
	MS	1103305-01	1.8003	205.01	204.08	ug/L		99.6		75 - 125	
	MSD	1103305-01	1.8003	209.82	204.08	ug/L	2.3	102	20	75 - 125	
Dissolved Cobalt	DUP	1103305-01	ND	ND		ug/L			20		
	MS	1103305-01	ND	209.35	204.08	ug/L		103		75 - 125	
	MSD	1103305-01	ND	212.64	204.08	ug/L	1.6	104	20	75 - 125	
Dissolved Copper	DUP	1103305-01	ND	ND		ug/L			20		
	MS	1103305-01	ND	405.79	408.16	ug/L		99.4		75 - 125	
	MSD	1103305-01	ND	414.33	408.16	ug/L	2.1	102	20	75 - 125	
Dissolved Lead	DUP	1103305-01	7.1916	5.5926		ug/L	25.0		20		J,A02
	MS	1103305-01	7.1916	422.66	408.16	ug/L		102		75 - 125	
	MSD	1103305-01	7.1916	430.47	408.16	ug/L	1.8	104	20	75 - 125	
Dissolved Molybdenum	DUP	1103305-01	6.3989	6.4993		ug/L	1.6		20		J
	MS	1103305-01	6.3989	214.65	204.08	ug/L		102		75 - 125	
	MSD	1103305-01	6.3989	219.01	204.08	ug/L	2.0	104	20	75 - 125	
Dissolved Nickel	DUP	1103305-01	9.9210	9.5533		ug/L	3.8		20		J
	MS	1103305-01	9.9210	422.13	408.16	ug/L		101		75 - 125	
	MSD	1103305-01	9.9210	427.99	408.16	ug/L	1.4	102	20	75 - 125	
Dissolved Selenium	DUP	1103305-01	ND	ND		ug/L			20		
	MS	1103305-01	ND	248.10	204.08	ug/L		122		75 - 125	
	MSD	1103305-01	ND	252.62	204.08	ug/L	1.8	124	20	75 - 125	
Dissolved Silver	DUP	1103305-01	1.6175	2.2096		ug/L	30.9		20		J,A02
	MS	1103305-01	1.6175	91.076	102.04	ug/L		87.7		75 - 125	
	MSD	1103305-01	1.6175	93.723	102.04	ug/L	2.9	90.3	20	75 - 125	

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/24/2011 14:01
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC0177	Used client sample: N										
Dissolved Thallium	DUP	1103305-01	ND	ND		ug/L			20		
	MS	1103305-01	ND	409.12	408.16	ug/L		100		75 - 125	
	MSD	1103305-01	ND	415.69	408.16	ug/L	1.6	102	20	75 - 125	
Dissolved Vanadium	DUP	1103305-01	ND	1.1007		ug/L			20		J
	MS	1103305-01	ND	208.30	204.08	ug/L		102		75 - 125	
	MSD	1103305-01	ND	211.08	204.08	ug/L	1.3	103	20	75 - 125	
Dissolved Zinc	DUP	1103305-01	ND	ND		ug/L			20		
	MS	1103305-01	ND	537.00	510.20	ug/L		105		75 - 125	
	MSD	1103305-01	ND	555.11	510.20	ug/L	3.3	109	20	75 - 125	
QC Batch ID: BUC0347	Used client sample: N										
Dissolved Mercury	DUP	1103231-01	ND	ND		ug/L			20		
	MS	1103231-01	ND	1.0525	1.0000	ug/L		105		70 - 130	
	MSD	1103231-01	ND	1.0250	1.0000	ug/L	2.6	102	20	70 - 130	

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Golder Associates 425 Lakeside Drive Sunnyvale, CA 94085	**Reported:** 03/24/2011 14:01 Project: Nine Par Project Number: 103 97163 Project Manager: Tom Vercoutere

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A01	PQL's and MDL's are raised due to sample dilution.
A02	The difference between duplicate readings is less than the PQL.
A03	The sample concentration is more than 4 times the spike level.
A10	PQL's and MDL's were raised due to matrix interference.
L02	The Laboratory Control Sample Water (LCSW) recovery is not within method established control limits.
Q03	Matrix spike recovery(s) is(are) not within the control limits.
S09	The surrogate recovery on the sample for this compound was not within the control limits.
V11	The Continuing Calibration Verification (CCV) recovery is not within established control limits.

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Date of Report: 03/11/2011

Tom Vercoutere

Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

RE:	Nine Par
BC Work Order:	1103183
Invoice ID:	B096584

Enclosed are the results of analyses for samples received by the laboratory on 2/25/2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Linda Phoudamneun

Contact Person: Linda Phoudamneun
Client Service Rep

Authorized Signature

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Golder Associates

Golder Associates
CHAIN OF CUSTODY

1103183

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Quotation No. Standard 2011 Golder rates

PROJECT NO.: 03 97163
SITE NAME: Nine Par
SAMPLER(S): Jeff Linder (printed) (signature)
CONTRACT LABORATORY: BC LABS
TURN-AROUND TIME: Standard

ANALYSES: See Attached Parameter list

EDD required? [X] Yes [ ] No
EDF required? [ ] Yes [X] No

Sample I.D.	Lab I.D.	Collection Date	Collection Time	Matrix	Depth	Container Info: Type/Vol.	Filter	Preserv.	40ml VOA	Alt	P 500ml	500ml	P 500ml	P 500ml	A 500ml	P 1L	Cont. Qty.	Remarks
									HCl	$A_2S_2O_3$	HNO_3	NaOH	H_2SO_4	2N Ascorbic	H_2SO_4	$A_2S_2O_3$		
EB-04	1	2/25	1100	GW	–		N		3	5	1	1	1	1	1	1	14	

CHK BY
DISTRIBUTION
SUB-OUT
SHORT HOLDING TIME
Cr+ NO_2 NO_3 OP SS
DO TC BOD MBAS COT

Relinquished by: (signature)	Received by: (signature)	Date/Time:
	P. BINS BCL	2/25/11 16:05
Relinquished by: (signature) P. BINS BCL 2/25/11 1705	Received by: (signature)	Date/Time: 2.25.11 1705
Relinquished by: (signature) 2.25.11 2105	Received by: (signature) Maldonado	Date/Time: 2/25/11 2105

SEND RESULTS TO:
Attn: Tom Vercoutere
Golder Associates Inc.
425 Lakeside Drive
Sunnyvale, CA 94085
Phone (408) 220-9223
Fax (408) 220-9224

white: lab copy yellow: project file

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4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com

1103183

Nine Par Landfill – Preliminary Site Investigation
Zero Waste Energy Development Company
San Jose, California

Parameter Request List

Groundwater	
Volatile Organic Compounds	EPA Method 8260B
Total Petroleum Hydrocarbons	Modified EPA Method 8015
CAM 17 Metals	EPA 6000/7000 series
Semi-volatile Organic Compounds	EPA Method 8270C
Organochlorine Pesticides	EPA Method 8081
PCBs	EPA Method 8082
Chlorophenoxy Herbicides	EPA Method 8151
Cyanide	EPA Method 335.2
Sulfide	EPA Method 376.1
* Anions (Cl, Fl, NO2, NO3, SO4)	EPA Method 300.0
Bicarbonate and Carbonate Alkalinity	EPA Method 310.2
Calcium, Magnesium, Potassium, and Sodium	EPA Method 200.7
Total Dissolved Solids	EPA Method 160.1
Total Organic Carbon	EPA Method 415.1

Chain of Custody and Cooler Receipt Form for 1103183 Page 3 of 3

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 12 12/30/10 Page 1 Of 1

Submission #: 1103183

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐
Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: Pe Thermometer ID: 103 Date/Time: 2/25/11 2130
Temperature: (A) 2.7 °C / (C) 2.7 °C Analyst Init MA

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL	BA									
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS	D									
PT CYANIDE	E									
PT NITROGEN FORMS	F									
PT TOTAL SULFIDE	G									
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON	H									
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A3	( )	( )	( )	( )	( )	( )	( )	( )	( )
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER	IJKLM									
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:
Sample Numbering Completed By: JJW Date/Time: 2/25/11 2248
A = Actual / C = Corrected

(C:\MyDOCS\WordPerfect\LAB_DOCS\FORMS\SAMREC2)

Golder Associates 425 Lakeside Drive Sunnyvale, CA 94085	**Reported:** 03/11/2011 16:14 Project: Nine Par Project Number: 103 97163 Project Manager: Tom Vercoutere

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1103183-01	**COC Number:**	---	**Receive Date:**	02/25/2011 21:05
	Project Number:	---	**Sampling Date:**	02/25/2011 11:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	EB-04	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Water
			Metal Analysis:	1-Field Filtered and Acidified

Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/11/2011 16:14
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Organochlorine Pesticides (EPA Method 8081)

BCL Sample ID: 1103183-01 | **Client Sample Name:** EB-04, 2/25/2011 11:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	ug/L	0.0050	0.0013	EPA-8081	ND		1
alpha-BHC	ND	ug/L	0.0050	0.0011	EPA-8081	ND	V11	1
beta-BHC	ND	ug/L	0.0050	0.0021	EPA-8081	ND		1
delta-BHC	ND	ug/L	0.0050	0.0014	EPA-8081	ND		1
gamma-BHC (Lindane)	ND	ug/L	0.0050	0.00094	EPA-8081	ND		1
Chlordane (Technical)	ND	ug/L	0.50	0.38	EPA-8081	ND		1
4,4'-DDD	ND	ug/L	0.0050	0.0017	EPA-8081	ND		1
4,4'-DDE	ND	ug/L	0.0050	0.0019	EPA-8081	ND		1
4,4'-DDT	ND	ug/L	0.0050	0.00076	EPA-8081	ND		1
Dieldrin	ND	ug/L	0.0050	0.0012	EPA-8081	ND		1
Endosulfan I	ND	ug/L	0.0050	0.0016	EPA-8081	ND		1
Endosulfan II	ND	ug/L	0.0050	0.0014	EPA-8081	ND		1
Endosulfan sulfate	ND	ug/L	0.0050	0.0026	EPA-8081	ND		1
Endrin	ND	ug/L	0.0050	0.00082	EPA-8081	ND		1
Endrin aldehyde	ND	ug/L	0.010	0.0032	EPA-8081	ND		1
Heptachlor	ND	ug/L	0.0050	0.0012	EPA-8081	ND		1
Heptachlor epoxide	ND	ug/L	0.0050	0.00099	EPA-8081	ND		1
Methoxychlor	ND	ug/L	0.0050	0.0011	EPA-8081	ND		1
Toxaphene	ND	ug/L	2.0	0.42	EPA-8081	ND		1
TCMX (Surrogate)	78.9	%	54 - 150 (LCL - UCL)		EPA-8081			1
Dibutyl chlorendate (Surrogate)	93.6	%	82 - 150 (LCL - UCL)		EPA-8081			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081	03/01/11	03/06/11 21:25	ZZZ	GC-1	1.042	BUC0386

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Reported: 03/11/2011 16:14
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

PCB Analysis (EPA Method 8082)

BCL Sample ID: 1103183-01 | **Client Sample Name:** EB-04, 2/25/2011 11:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
PCB-1016	ND	ug/L	0.22	0.022	EPA-8082	ND		1
PCB-1221	ND	ug/L	0.22	0.099	EPA-8082	ND		1
PCB-1232	ND	ug/L	0.22	0.10	EPA-8082	ND		1
PCB-1242	ND	ug/L	0.22	0.11	EPA-8082	ND		1
PCB-1248	ND	ug/L	0.22	0.028	EPA-8082	ND		1
PCB-1254	ND	ug/L	0.22	0.047	EPA-8082	ND		1
PCB-1260	ND	ug/L	0.22	0.022	EPA-8082	ND		1
Total PCB's (Summation)	ND	ug/L	0.22	0.11	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	67.0	%	48 - 135 (LCL - UCL)		EPA-8082		V11	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8082	03/01/11	03/05/11 04:32	VH1	GC-6	1.111	BUC0552

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Reported: 03/11/2011 16:14
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Chlorinated Herbicides (EPA Method 8151)

BCL Sample ID: 1103183-01 | **Client Sample Name:** EB-04, 2/25/2011 11:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2,4-D	ND	ug/L	0.40	0.065	EPA-8151	ND	V11	1
2,4-DB	ND	ug/L	3.0	0.32	EPA-8151	ND		1
Dalapon	ND	ug/L	10	2.4	EPA-8151	ND		1
Dicamba	ND	ug/L	0.080	0.037	EPA-8151	ND	V11	1
Dichloroprop	ND	ug/L	0.50	0.012	EPA-8151	ND	V11	1
Dinoseb	ND	ug/L	0.20	0.040	EPA-8151	ND		1
2,4,5-T	ND	ug/L	0.090	0.012	EPA-8151	ND	V11	1
2,4,5-TP (Silvex)	ND	ug/L	0.070	0.016	EPA-8151	ND		1
2,4-Dichlorophenylacetic acid (Surrogate)	71.7	%	50 - 150 (LCL - UCL)		EPA-8151		V11	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8151	03/01/11	03/03/11 00:43	CC1	GC-8	1.031	BUC0391

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Reported: 03/11/2011 16:14
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1103183-01 | **Client Sample Name:** EB-04, 2/25/2011 11:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-8260	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-8260	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-8260	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-8260	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-8260	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-8260	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-8260	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-8260	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-8260	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-8260	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-8260	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-8260	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-8260	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-8260	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-8260	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-8260	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-8260	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-8260	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-8260	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-8260	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-8260	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-8260	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-8260	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-8260	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-8260	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-8260	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-8260	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-8260	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-8260	ND		1

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Reported: 03/11/2011 16:14
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1103183-01 | **Client Sample Name:** EB-04, 2/25/2011 11:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-8260	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-8260	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-8260	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-8260	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-8260	ND		1
Methylene chloride	ND	ug/L	1.0	0.48	EPA-8260	ND		1
Methyl t-butyl ether	**0.71**	**ug/L**	**0.50**	**0.11**	**EPA-8260**	**ND**		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-8260	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-8260	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-8260	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-8260	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-8260	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-8260	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-8260	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-8260	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-8260	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-8260	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-8260	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-8260	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-8260	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-8260	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-8260	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-8260	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	0.36	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-8260	ND		1
1,4-Dioxane	ND	ug/L	100	42	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	7.2	Luft-GC/MS	ND		1

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Reported: 03/11/2011 16:14
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1103183-01 | **Client Sample Name:** EB-04, 2/25/2011 11:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,2-Dichloroethane-d4 (Surrogate)	98.1	%	76 - 114 (LCL - UCL)		EPA-8260			1
Toluene-d8 (Surrogate)	102	%	88 - 110 (LCL - UCL)		EPA-8260			1
4-Bromofluorobenzene (Surrogate)	97.1	%	86 - 115 (LCL - UCL)		EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	03/04/11	03/04/11 13:19	JCC	MS-V4	1	BUC0320

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Reported: 03/11/2011 16:14
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1103183-01 | **Client Sample Name:** EB-04, 2/25/2011 11:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	2.0	0.24	EPA-8270C	ND		1
Acenaphthylene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Aldrin	ND	ug/L	2.0	0.35	EPA-8270C	ND		1
Aniline	ND	ug/L	5.0	0.69	EPA-8270C	ND		1
Anthracene	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Benzidine	ND	ug/L	20	7.1	EPA-8270C	ND		1
Benzo[a]anthracene	ND	ug/L	2.0	0.38	EPA-8270C	ND		1
Benzo[b]fluoranthene	ND	ug/L	2.0	0.41	EPA-8270C	ND		1
Benzo[k]fluoranthene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
Benzo[a]pyrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Benzo[g,h,i]perylene	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
Benzoic acid	ND	ug/L	10	5.8	EPA-8270C	ND		1
Benzyl alcohol	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
Benzyl butyl phthalate	ND	ug/L	2.0	0.47	EPA-8270C	ND		1
alpha-BHC	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
beta-BHC	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
delta-BHC	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
gamma-BHC (Lindane)	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
bis(2-Chloroethoxy)methane	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
bis(2-Chloroethyl) ether	ND	ug/L	2.0	0.68	EPA-8270C	ND		1
bis(2-Chloroisopropyl)ether	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.0	3.0	EPA-8270C	ND		1
4-Bromophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
4-Chloroaniline	ND	ug/L	2.0	0.69	EPA-8270C	ND		1
2-Chloronaphthalene	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
4-Chlorophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
Chrysene	ND	ug/L	2.0	0.63	EPA-8270C	ND		1
4,4'-DDD	ND	ug/L	2.0	0.48	EPA-8270C	ND		1
4,4'-DDE	ND	ug/L	3.0	0.41	EPA-8270C	ND		1
4,4'-DDT	ND	ug/L	2.0	0.43	EPA-8270C	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	3.0	0.26	EPA-8270C	ND		1
Dibenzofuran	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
1,2-Dichlorobenzene	ND	ug/L	2.0	0.37	EPA-8270C	ND		1

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Reported: 03/11/2011 16:14
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1103183-01 | **Client Sample Name:** EB-04, 2/25/2011 11:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,3-Dichlorobenzene	ND	ug/L	2.0	0.35	EPA-8270C	ND		1
1,4-Dichlorobenzene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
3,3-Dichlorobenzidine	ND	ug/L	10	8.2	EPA-8270C	ND		1
Dieldrin	ND	ug/L	3.0	0.41	EPA-8270C	ND		1
Diethyl phthalate	ND	ug/L	2.0	0.33	EPA-8270C	ND		1
Dimethyl phthalate	ND	ug/L	2.0	0.39	EPA-8270C	ND		1
Di-n-butyl phthalate	ND	ug/L	2.0	0.39	EPA-8270C	ND		1
2,4-Dinitrotoluene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
2,6-Dinitrotoluene	ND	ug/L	2.0	0.41	EPA-8270C	ND		1
Di-n-octyl phthalate	ND	ug/L	2.0	0.46	EPA-8270C	ND		1
1,2-Diphenylhydrazine	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
Endosulfan I	ND	ug/L	10	1.7	EPA-8270C	ND		1
Endosulfan II	ND	ug/L	10	1.2	EPA-8270C	ND		1
Endosulfan sulfate	ND	ug/L	3.0	0.58	EPA-8270C	ND		1
Endrin	ND	ug/L	2.0	1.1	EPA-8270C	ND		1
Endrin aldehyde	ND	ug/L	10	0.52	EPA-8270C	ND		1
Fluoranthene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Fluorene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Heptachlor	ND	ug/L	2.0	0.32	EPA-8270C	ND		1
Heptachlor epoxide	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
Hexachlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Hexachlorobutadiene	ND	ug/L	2.0	0.24	EPA-8270C	ND		1
Hexachlorocyclopentadiene	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Hexachloroethane	ND	ug/L	2.0	0.32	EPA-8270C	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
Isophorone	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
2-Methylnaphthalene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Naphthalene	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
2-Naphthylamine	ND	ug/L	20	4.8	EPA-8270C	ND		1
2-Nitroaniline	ND	ug/L	2.0	0.33	EPA-8270C	ND		1
3-Nitroaniline	ND	ug/L	2.0	0.66	EPA-8270C	ND		1
4-Nitroaniline	ND	ug/L	5.0	0.87	EPA-8270C	ND		1
Nitrobenzene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1

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Sunnyvale, CA 94085

Reported: 03/11/2011 16:14
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1103183-01 | **Client Sample Name:** EB-04, 2/25/2011 11:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	2.0	0.61	EPA-8270C	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.0	1.3	EPA-8270C	ND		1
N-Nitrosodiphenylamine	ND	ug/L	2.0	0.44	EPA-8270C	ND		1
Phenanthrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Pyrene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
4-Chloro-3-methylphenol	ND	ug/L	5.0	0.40	EPA-8270C	ND		1
2-Chlorophenol	ND	ug/L	2.0	0.37	EPA-8270C	ND		1
2,4-Dichlorophenol	ND	ug/L	2.0	0.43	EPA-8270C	ND		1
2,4-Dimethylphenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	10	0.34	EPA-8270C	ND		1
2,4-Dinitrophenol	ND	ug/L	10	0.20	EPA-8270C	ND		1
2-Methylphenol	ND	ug/L	2.0	1.0	EPA-8270C	ND		1
3- & 4-Methylphenol	ND	ug/L	2.0	1.6	EPA-8270C	ND		1
2-Nitrophenol	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
4-Nitrophenol	ND	ug/L	2.0	0.73	EPA-8270C	ND		1
Pentachlorophenol	ND	ug/L	10	0.79	EPA-8270C	ND		1
Phenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.31	EPA-8270C	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	0.60	EPA-8270C	ND		1
2-Fluorophenol (Surrogate)	76.1	%	28 - 85 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	65.8	%	13 - 59 (LCL - UCL)		EPA-8270C		S09	1
Nitrobenzene-d5 (Surrogate)	89.6	%	34 - 119 (LCL - UCL)		EPA-8270C			1
2-Fluorobiphenyl (Surrogate)	89.2	%	24 - 128 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	100	%	35 - 114 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	98.4	%	10 - 185 (LCL - UCL)		EPA-8270C			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	03/01/11	03/07/11 15:05	SKC	MS-B2	0.960	BUC0262

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Reported: 03/11/2011 16:14
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1103183-01 | **Client Sample Name:** EB-04, 2/25/2011 11:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - C8 - C9	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C10 - C11	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C12 - C14	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C15 - C16	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C17 - C18	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C19 - C20	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C21 - C22	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C23 - C28	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C29 - C32	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C33 - C36	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C37 - C40	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C41 - C43	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C44 plus	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH (Total)	ND	ug/L	200	100	EPA-8015CC	ND		1
Tetracosane (Surrogate)	62.2	%	37 - 134 (LCL - UCL)		EPA-8015CC			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015CC	03/01/11	03/03/11 13:29	EJB	GC-2	1.042	BUC0332

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Reported: 03/11/2011 16:14
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Water Analysis (General Chemistry)

BCL Sample ID: 1103183-01 | **Client Sample Name:** EB-04, 2/25/2011 11:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	**18**	**mg/L**	**0.20**	**0.036**	**EPA-200.7**	**ND**	**A01**	1
Dissolved Magnesium	**48**	**mg/L**	**0.10**	**0.032**	**EPA-200.7**	**ND**	**A01**	1
Dissolved Sodium	**1200**	**mg/L**	**1.0**	**0.10**	**EPA-200.7**	**0.44**	**A01**	1
Dissolved Potassium	**13**	**mg/L**	**2.0**	**0.20**	**EPA-200.7**	**ND**	**A01**	1
Bicarbonate Alkalinity as CaCO3	**1200**	**mg/L**	**8.2**	**8.2**	**EPA-310.1**	**ND**		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	EPA-310.1	ND		2
Chloride	**1100**	**mg/L**	**2.5**	**0.25**	**EPA-300.0**	**ND**	**A01**	3
Fluoride	**1.7**	**mg/L**	**0.25**	**0.060**	**EPA-300.0**	**ND**	**A01**	3
Nitrate/Nitrite as N	**0.23**	**mg/L**	**0.10**	**0.010**	**EPA-353.2**	**ND**		4
Nitrate as N	ND	mg/L	0.50	0.070	EPA-300.0	ND	A01	3
Sulfate	**140**	**mg/L**	**5.0**	**0.50**	**EPA-300.0**	**ND**	**A01**	3
Total Dissolved Solids @ 180 C	**3400**	**mg/L**	**200**	**200**	**EPA-160.1**	**ND**		5
Total Cyanide	**0.0065**	**mg/L**	**0.0050**	**0.0016**	**EPA-335.4**	**ND**		6
Nitrite as N	ND	mg/L	0.050	0.0081	EPA-353.2	ND		7
Total Sulfide	ND	mg/L	0.10	0.050	EPA-376.2	ND		8
Non-Volatile Organic Carbon	**17**	**mg/L**	**1.5**	**0.31**	**EPA-415.1**	**0.43**	**A01**	9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	02/25/11	03/02/11 11:08	ARD	PE-OP1	2	BUC0126
2	EPA-310.1	03/02/11	03/02/11 11:42	RML	MET-1	2	BUC0198
3	EPA-300.0	02/26/11	02/26/11 11:50	LD1	IC2	5	BUB1803
4	EPA-353.2	03/04/11	03/06/11 15:09	SDU	SC-1	1	BUC0434
5	EPA-160.1	03/01/11	03/01/11 07:30	NW1	MANUAL	20	BUC0021
6	EPA-335.4	03/02/11	03/02/11 11:31	TDC	KONE-1	1	BUC0159
7	EPA-353.2	02/26/11	02/26/11 11:08	LRS	KONE-1	1	BUB1838
8	EPA-376.2	02/28/11	02/28/11 01:00	MRM	SPEC05	1	BUB1796
9	EPA-415.1	03/03/11	03/04/11 11:50	CDR	TOC2	5	BUC0321

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Reported: 03/11/2011 16:14
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Water Analysis (Metals)

BCL Sample ID: 1103183-01 | **Client Sample Name:** EB-04, 2/25/2011 11:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Antimony	ND	ug/L	200	20	EPA-6010B	ND	A10	1
Dissolved Arsenic	ND	ug/L	100	15	EPA-6010B	ND	A10	1
Dissolved Barium	**55**	**ug/L**	**20**	**2.4**	**EPA-6010B**	**ND**	**A10**	1
Dissolved Beryllium	ND	ug/L	20	2.0	EPA-6010B	ND	A10	1
Dissolved Cadmium	ND	ug/L	20	2.0	EPA-6010B	ND	A10	1
Dissolved Chromium	ND	ug/L	20	2.0	EPA-6010B	ND	A10	1
Dissolved Cobalt	**23**	**ug/L**	**100**	**10**	**EPA-6010B**	**ND**	**J,A10**	1
Dissolved Copper	**6.4**	**ug/L**	**20**	**4.6**	**EPA-6010B**	**ND**	**J,A10**	1
Dissolved Lead	ND	ug/L	100	10	EPA-6010B	ND	A10	1
Dissolved Mercury	**0.085**	**ug/L**	**0.20**	**0.034**	**EPA-7470A**	**ND**	**J**	2
Dissolved Molybdenum	**210**	**ug/L**	**100**	**10**	**EPA-6010B**	**ND**	**A10**	1
Dissolved Nickel	**67**	**ug/L**	**20**	**2.4**	**EPA-6010B**	**ND**	**A10**	1
Dissolved Selenium	ND	ug/L	200	22	EPA-6010B	ND	A10	1
Dissolved Silver	ND	ug/L	20	2.2	EPA-6010B	ND	A10	1
Dissolved Thallium	ND	ug/L	200	30	EPA-6010B	ND	A10	1
Dissolved Vanadium	**4.5**	**ug/L**	**20**	**2.0**	**EPA-6010B**	**ND**	**J,A10**	1
Dissolved Zinc	ND	ug/L	20	12	EPA-6010B	ND	A10	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	02/25/11	03/02/11 11:08	ARD	PE-OP1	2	BUC0125
2	EPA-7470A	03/02/11	03/03/11 13:34	MEV	CETAC1	1	BUC0259

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Reported: 03/11/2011 16:14
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Organochlorine Pesticides (EPA Method 8081)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC0386						
Aldrin	BUC0386-BLK1	ND	ug/L	0.0050	0.0013	
alpha-BHC	BUC0386-BLK1	ND	ug/L	0.0050	0.0011	
beta-BHC	BUC0386-BLK1	ND	ug/L	0.0050	0.0021	
delta-BHC	BUC0386-BLK1	ND	ug/L	0.0050	0.0014	
gamma-BHC (Lindane)	BUC0386-BLK1	ND	ug/L	0.0050	0.00094	
Chlordane (Technical)	BUC0386-BLK1	ND	ug/L	0.50	0.38	
4,4'-DDD	BUC0386-BLK1	ND	ug/L	0.0050	0.0017	
4,4'-DDE	BUC0386-BLK1	ND	ug/L	0.0050	0.0019	
4,4'-DDT	BUC0386-BLK1	ND	ug/L	0.0050	0.00076	
Dieldrin	BUC0386-BLK1	ND	ug/L	0.0050	0.0012	
Endosulfan I	BUC0386-BLK1	ND	ug/L	0.0050	0.0016	
Endosulfan II	BUC0386-BLK1	ND	ug/L	0.0050	0.0014	
Endosulfan sulfate	BUC0386-BLK1	ND	ug/L	0.0050	0.0026	
Endrin	BUC0386-BLK1	ND	ug/L	0.0050	0.00082	
Endrin aldehyde	BUC0386-BLK1	ND	ug/L	0.010	0.0032	
Heptachlor	BUC0386-BLK1	ND	ug/L	0.0050	0.0012	
Heptachlor epoxide	BUC0386-BLK1	ND	ug/L	0.0050	0.00099	
Methoxychlor	BUC0386-BLK1	ND	ug/L	0.0050	0.0011	
Toxaphene	BUC0386-BLK1	ND	ug/L	2.0	0.42	
TCMX (Surrogate)	BUC0386-BLK1	76.3	%	54 - 150 (LCL - UCL)		
Dibutyl chlorendate (Surrogate)	BUC0386-BLK1	90.0	%	82 - 150 (LCL - UCL)		

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Reported: 03/11/2011 16:14
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Organochlorine Pesticides (EPA Method 8081)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUC0386										
Aldrin	BUC0386-BS1	LCS	0.12986	0.15000	ug/L	86.6		70 - 111		
gamma-BHC (Lindane)	BUC0386-BS1	LCS	0.12606	0.15000	ug/L	84.0		50 - 120		
4,4'-DDT	BUC0386-BS1	LCS	0.13868	0.15000	ug/L	92.5		58 - 116		
Dieldrin	BUC0386-BS1	LCS	0.13689	0.15000	ug/L	91.3		66 - 127		
Endrin	BUC0386-BS1	LCS	0.16004	0.15000	ug/L	107		61 - 152		
Heptachlor	BUC0386-BS1	LCS	0.14297	0.15000	ug/L	95.3		66 - 115		
TCMX (Surrogate)	BUC0386-BS1	LCS	0.21857	0.30000	ug/L	72.9		54 - 150		
Dibutyl chlorendate (Surrogate)	BUC0386-BS1	LCS	0.67134	0.75000	ug/L	89.5		82 - 150		

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Reported: 03/11/2011 16:14
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Organochlorine Pesticides (EPA Method 8081)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC0386	Used client sample: N										
Aldrin	MS	1102229-03	ND	0.13141	0.15000	ug/L		87.6		67 - 114	
	MSD	1102229-03	ND	0.14076	0.15000	ug/L	6.9	93.8	22	67 - 114	
gamma-BHC (Lindane)	MS	1102229-03	ND	0.13131	0.15000	ug/L		87.5		46 - 120	
	MSD	1102229-03	ND	0.13881	0.15000	ug/L	5.6	92.5	21	46 - 120	
4,4'-DDT	MS	1102229-03	ND	0.14418	0.15000	ug/L		96.1		48 - 122	
	MSD	1102229-03	ND	0.15163	0.15000	ug/L	5.0	101	20	48 - 122	
Dieldrin	MS	1102229-03	ND	0.14224	0.15000	ug/L		94.8		66 - 122	
	MSD	1102229-03	ND	0.14569	0.15000	ug/L	2.4	97.1	20	66 - 122	
Endrin	MS	1102229-03	ND	0.16936	0.15000	ug/L		113		57 - 152	
	MSD	1102229-03	ND	0.17581	0.15000	ug/L	3.7	117	20	57 - 152	
Heptachlor	MS	1102229-03	ND	0.13740	0.15000	ug/L		91.6		64 - 118	
	MSD	1102229-03	ND	0.15044	0.15000	ug/L	9.1	100	20	64 - 118	
TCMX (Surrogate)	MS	1102229-03	ND	0.21252	0.30000	ug/L		70.8		54 - 150	
	MSD	1102229-03	ND	0.26358	0.30000	ug/L	21.4	87.9		54 - 150	
Dibutyl chlorendate (Surrogate)	MS	1102229-03	ND	0.74636	0.75000	ug/L		99.5		82 - 150	
	MSD	1102229-03	ND	0.76778	0.75000	ug/L	2.8	102		82 - 150	

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Reported: 03/11/2011 16:14
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

PCB Analysis (EPA Method 8082)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC0552						
PCB-1016	BUC0552-BLK1	ND	ug/L	0.20	0.020	
PCB-1221	BUC0552-BLK1	ND	ug/L	0.20	0.089	
PCB-1232	BUC0552-BLK1	ND	ug/L	0.20	0.090	
PCB-1242	BUC0552-BLK1	ND	ug/L	0.20	0.095	
PCB-1248	BUC0552-BLK1	ND	ug/L	0.20	0.025	
PCB-1254	BUC0552-BLK1	ND	ug/L	0.20	0.042	
PCB-1260	BUC0552-BLK1	ND	ug/L	0.20	0.020	
Total PCB's (Summation)	BUC0552-BLK1	ND	ug/L	0.20	0.10	
Decachlorobiphenyl (Surrogate)	BUC0552-BLK1	112	%	48 - 135 (LCL - UCL)		

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Reported: 03/11/2011 16:14
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

PCB Analysis (EPA Method 8082)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUC0552										
PCB-1260	BUC0552-BS1	LCS	2.6650	2.5000	ug/L	107		73 - 119		
Decachlorobiphenyl (Surrogate)	BUC0552-BS1	LCS	0.11900	0.10000	ug/L	119		48 - 135		

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Reported: 03/11/2011 16:14
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

PCB Analysis (EPA Method 8082)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC0552	Used client sample: N										
PCB-1260	MS	1100204-78	ND	2.6240	2.5000	ug/L		105		64 - 125	
	MSD	1100204-78	ND	2.4550	2.5000	ug/L	6.7	98.2	23	64 - 125	
Decachlorobiphenyl (Surrogate)	MS	1100204-78	ND	0.12100	0.10000	ug/L		121		48 - 135	
	MSD	1100204-78	ND	0.10700	0.10000	ug/L	12.3	107		48 - 135	

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Reported: 03/11/2011 16:14
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Chlorinated Herbicides (EPA Method 8151)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC0391						
2,4-D	BUC0391-BLK1	ND	ug/L	0.40	0.065	
2,4-DB	BUC0391-BLK1	ND	ug/L	3.0	0.32	
Dalapon	BUC0391-BLK1	ND	ug/L	10	2.4	
Dicamba	BUC0391-BLK1	ND	ug/L	0.080	0.037	
Dichloroprop	BUC0391-BLK1	ND	ug/L	0.50	0.012	
Dinoseb	BUC0391-BLK1	ND	ug/L	0.20	0.040	
2,4,5-T	BUC0391-BLK1	ND	ug/L	0.090	0.012	
2,4,5-TP (Silvex)	BUC0391-BLK1	ND	ug/L	0.070	0.016	
2,4-Dichlorophenylacetic acid (Surrogate)	BUC0391-BLK1	75.1	%	50 - 150 (LCL - UCL)		

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Reported: 03/11/2011 16:14
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Chlorinated Herbicides (EPA Method 8151)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUC0391										
2,4-D	BUC0391-BS1	LCS	2.2860	2.4000	ug/L	95.2		55 - 124		
2,4-DB	BUC0391-BS1	LCS	2.6160	5.4000	ug/L	48.4		62 - 134		J,L02
Dicamba	BUC0391-BS1	LCS	0.46200	0.60000	ug/L	77.0		64 - 120		
Dichloroprop	BUC0391-BS1	LCS	2.0930	2.4000	ug/L	87.2		47 - 120		
Dinoseb	BUC0391-BS1	LCS	0.58200	1.2000	ug/L	48.5		55 - 120		L02
2,4,5-T	BUC0391-BS1	LCS	0.63500	0.60000	ug/L	106		67 - 139		
2,4,5-TP (Silvex)	BUC0391-BS1	LCS	0.55400	0.60000	ug/L	92.3		56 - 127		
2,4-Dichlorophenylacetic acid (Surrogate)	BUC0391-BS1	LCS	0.69900	1.0000	ug/L	69.9		50 - 150		

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Reported: 03/11/2011 16:14
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Chlorinated Herbicides (EPA Method 8151)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC0391	Used client sample: N										
2,4-D	MS	1102229-57	ND	2.2860	2.4000	ug/L		95.2		47 - 128	
	MSD	1102229-57	ND	2.1840	2.4000	ug/L	4.6	91.0	30	47 - 128	
2,4-DB	MS	1102229-57	ND	5.7790	5.4000	ug/L		107		59 - 138	
	MSD	1102229-57	ND	4.5520	5.4000	ug/L	23.8	84.3	30	59 - 138	
Dicamba	MS	1102229-57	ND	0.63100	0.60000	ug/L		105		64 - 120	
	MSD	1102229-57	ND	0.45500	0.60000	ug/L	32.4	75.8	30	64 - 120	Q03
Dichloroprop	MS	1102229-57	ND	2.0940	2.4000	ug/L		87.2		48 - 120	
	MSD	1102229-57	ND	2.0020	2.4000	ug/L	4.5	83.4	30	48 - 120	
Dinoseb	MS	1102229-57	ND	1.2860	1.2000	ug/L		107		53 - 120	
	MSD	1102229-57	ND	1.0130	1.2000	ug/L	23.7	84.4	30	53 - 120	
2,4,5-T	MS	1102229-57	ND	0.69400	0.60000	ug/L		116		63 - 137	
	MSD	1102229-57	ND	0.58000	0.60000	ug/L	17.9	96.7	30	63 - 137	
2,4,5-TP (Silvex)	MS	1102229-57	ND	0.61000	0.60000	ug/L		102		47 - 132	
	MSD	1102229-57	ND	0.54300	0.60000	ug/L	11.6	90.5	30	47 - 132	
2,4-Dichlorophenylacetic acid (Surrogate	MS	1102229-57	ND	1.0800	1.0000	ug/L		108		50 - 150	
	MSD	1102229-57	ND	0.67200	1.0000	ug/L	46.6	67.2		50 - 150	

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Reported: 03/11/2011 16:14
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC0320						
Benzene	BUC0320-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BUC0320-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BUC0320-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BUC0320-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BUC0320-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BUC0320-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BUC0320-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BUC0320-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BUC0320-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BUC0320-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BUC0320-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BUC0320-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BUC0320-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BUC0320-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BUC0320-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BUC0320-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BUC0320-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BUC0320-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BUC0320-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BUC0320-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BUC0320-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BUC0320-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BUC0320-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BUC0320-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BUC0320-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BUC0320-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BUC0320-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BUC0320-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BUC0320-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BUC0320-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BUC0320-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BUC0320-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BUC0320-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BUC0320-BLK1	ND	ug/L	0.50	0.14	

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Reported: 03/11/2011 16:14
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC0320						
trans-1,3-Dichloropropene	BUC0320-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BUC0320-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BUC0320-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BUC0320-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BUC0320-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BUC0320-BLK1	ND	ug/L	1.0	0.48	
Methyl t-butyl ether	BUC0320-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BUC0320-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BUC0320-BLK1	ND	ug/L	0.50	0.11	
Styrene	BUC0320-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BUC0320-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BUC0320-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BUC0320-BLK1	ND	ug/L	0.50	0.13	
Toluene	BUC0320-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BUC0320-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BUC0320-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BUC0320-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BUC0320-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BUC0320-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BUC0320-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BUC0320-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BUC0320-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BUC0320-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BUC0320-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BUC0320-BLK1	ND	ug/L	0.50	0.12	
Total Xylenes	BUC0320-BLK1	ND	ug/L	1.0	0.36	
t-Amyl Methyl ether	BUC0320-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BUC0320-BLK1	ND	ug/L	10	9.4	
Diisopropyl ether	BUC0320-BLK1	ND	ug/L	0.50	0.23	
1,4-Dioxane	BUC0320-BLK1	ND	ug/L	100	42	
Ethyl t-butyl ether	BUC0320-BLK1	ND	ug/L	0.50	0.18	
Total Purgeable Petroleum Hydrocarbons	BUC0320-BLK1	ND	ug/L	50	7.2	
1,2-Dichloroethane-d4 (Surrogate)	BUC0320-BLK1	100	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BUC0320-BLK1	100	%	88 - 110 (LCL - UCL)		

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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC0320						
4-Bromofluorobenzene (Surrogate)	BUC0320-BLK1	94.8	%	86 - 115 (LCL - UCL)		

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Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUC0320										
Benzene	BUC0320-BS1	LCS	25.810	25.000	ug/L	103		70 - 130		
Bromodichloromethane	BUC0320-BS1	LCS	23.420	25.000	ug/L	93.7		70 - 130		
Chlorobenzene	BUC0320-BS1	LCS	24.680	25.000	ug/L	98.7		70 - 130		
Chloroethane	BUC0320-BS1	LCS	23.640	25.000	ug/L	94.6		70 - 130		
1,4-Dichlorobenzene	BUC0320-BS1	LCS	24.910	25.000	ug/L	99.6		70 - 130		
1,1-Dichloroethane	BUC0320-BS1	LCS	25.080	25.000	ug/L	100		70 - 130		
1,1-Dichloroethene	BUC0320-BS1	LCS	26.660	25.000	ug/L	107		70 - 130		
Toluene	BUC0320-BS1	LCS	24.890	25.000	ug/L	99.6		70 - 130		
Trichloroethene	BUC0320-BS1	LCS	27.770	25.000	ug/L	111		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BUC0320-BS1	LCS	9.5200	10.000	ug/L	95.2		76 - 114		
Toluene-d8 (Surrogate)	BUC0320-BS1	LCS	9.8300	10.000	ug/L	98.3		88 - 110		
4-Bromofluorobenzene (Surrogate)	BUC0320-BS1	LCS	9.9600	10.000	ug/L	99.6		86 - 115		

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Project Number: 103 97163
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC0320	Used client sample: N										
Benzene	MS	1102229-59	ND	27.270	25.000	ug/L		109		70 - 130	
	MSD	1102229-59	ND	28.520	25.000	ug/L	4.5	114	20	70 - 130	
Bromodichloromethane	MS	1102229-59	ND	21.260	25.000	ug/L		85.0		70 - 130	
	MSD	1102229-59	ND	21.320	25.000	ug/L	0.3	85.3	20	70 - 130	
Chlorobenzene	MS	1102229-59	ND	23.870	25.000	ug/L		95.5		70 - 130	
	MSD	1102229-59	ND	24.400	25.000	ug/L	2.2	97.6	20	70 - 130	
Chloroethane	MS	1102229-59	ND	27.290	25.000	ug/L		109		70 - 130	
	MSD	1102229-59	ND	29.150	25.000	ug/L	6.6	117	20	70 - 130	
1,4-Dichlorobenzene	MS	1102229-59	ND	22.740	25.000	ug/L		91.0		70 - 130	
	MSD	1102229-59	ND	22.890	25.000	ug/L	0.7	91.6	20	70 - 130	
1,1-Dichloroethane	MS	1102229-59	ND	25.620	25.000	ug/L		102		70 - 130	
	MSD	1102229-59	ND	26.870	25.000	ug/L	4.8	107	20	70 - 130	
1,1-Dichloroethene	MS	1102229-59	ND	28.680	25.000	ug/L		115		70 - 130	
	MSD	1102229-59	ND	29.900	25.000	ug/L	4.2	120	20	70 - 130	
Toluene	MS	1102229-59	ND	22.870	25.000	ug/L		91.5		70 - 130	
	MSD	1102229-59	ND	24.100	25.000	ug/L	5.2	96.4	20	70 - 130	
Trichloroethene	MS	1102229-59	ND	24.070	25.000	ug/L		96.3		70 - 130	
	MSD	1102229-59	ND	25.970	25.000	ug/L	7.6	104	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1102229-59	ND	9.7800	10.000	ug/L		97.8		76 - 114	
	MSD	1102229-59	ND	9.0600	10.000	ug/L	7.6	90.6		76 - 114	
Toluene-d8 (Surrogate)	MS	1102229-59	ND	9.8400	10.000	ug/L		98.4		88 - 110	
	MSD	1102229-59	ND	9.7800	10.000	ug/L	0.6	97.8		88 - 110	
4-Bromofluorobenzene (Surrogate)	MS	1102229-59	ND	9.8100	10.000	ug/L		98.1		86 - 115	
	MSD	1102229-59	ND	9.2500	10.000	ug/L	5.9	92.5		86 - 115	

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Project Number: 103 97163
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC0262						
Acenaphthene	BUC0262-BLK1	ND	ug/L	2.0	0.24	
Acenaphthylene	BUC0262-BLK1	ND	ug/L	2.0	0.28	
Aldrin	BUC0262-BLK1	ND	ug/L	2.0	0.35	
Aniline	BUC0262-BLK1	ND	ug/L	5.0	0.69	
Anthracene	BUC0262-BLK1	ND	ug/L	2.0	0.30	
Benzidine	BUC0262-BLK1	ND	ug/L	20	7.1	
Benzo[a]anthracene	BUC0262-BLK1	ND	ug/L	2.0	0.38	
Benzo[b]fluoranthene	BUC0262-BLK1	ND	ug/L	2.0	0.41	
Benzo[k]fluoranthene	BUC0262-BLK1	ND	ug/L	2.0	0.31	
Benzo[a]pyrene	BUC0262-BLK1	ND	ug/L	2.0	0.20	
Benzo[g,h,i]perylene	BUC0262-BLK1	ND	ug/L	2.0	0.22	
Benzoic acid	BUC0262-BLK1	ND	ug/L	10	5.8	
Benzyl alcohol	BUC0262-BLK1	ND	ug/L	2.0	0.34	
Benzyl butyl phthalate	BUC0262-BLK1	ND	ug/L	2.0	0.47	
alpha-BHC	BUC0262-BLK1	ND	ug/L	2.0	0.27	
beta-BHC	BUC0262-BLK1	ND	ug/L	2.0	0.27	
delta-BHC	BUC0262-BLK1	ND	ug/L	2.0	0.30	
gamma-BHC (Lindane)	BUC0262-BLK1	ND	ug/L	2.0	0.22	
bis(2-Chloroethoxy)methane	BUC0262-BLK1	ND	ug/L	2.0	0.27	
bis(2-Chloroethyl) ether	BUC0262-BLK1	ND	ug/L	2.0	0.68	
bis(2-Chloroisopropyl)ether	BUC0262-BLK1	ND	ug/L	2.0	0.30	
bis(2-Ethylhexyl)phthalate	BUC0262-BLK1	ND	ug/L	5.0	3.0	
4-Bromophenyl phenyl ether	BUC0262-BLK1	ND	ug/L	2.0	0.23	
4-Chloroaniline	BUC0262-BLK1	ND	ug/L	2.0	0.69	
2-Chloronaphthalene	BUC0262-BLK1	ND	ug/L	2.0	0.34	
4-Chlorophenyl phenyl ether	BUC0262-BLK1	ND	ug/L	2.0	0.23	
Chrysene	BUC0262-BLK1	ND	ug/L	2.0	0.63	
4,4'-DDD	BUC0262-BLK1	ND	ug/L	2.0	0.48	
4,4'-DDE	BUC0262-BLK1	ND	ug/L	3.0	0.41	
4,4'-DDT	BUC0262-BLK1	ND	ug/L	2.0	0.43	
Dibenzo[a,h]anthracene	BUC0262-BLK1	ND	ug/L	3.0	0.26	
Dibenzofuran	BUC0262-BLK1	ND	ug/L	2.0	0.21	
1,2-Dichlorobenzene	BUC0262-BLK1	ND	ug/L	2.0	0.37	
1,3-Dichlorobenzene	BUC0262-BLK1	ND	ug/L	2.0	0.35	

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Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC0262						
1,4-Dichlorobenzene	BUC0262-BLK1	ND	ug/L	2.0	0.31	
3,3-Dichlorobenzidine	BUC0262-BLK1	ND	ug/L	10	8.2	
Dieldrin	BUC0262-BLK1	ND	ug/L	3.0	0.41	
Diethyl phthalate	BUC0262-BLK1	ND	ug/L	2.0	0.33	
Dimethyl phthalate	BUC0262-BLK1	ND	ug/L	2.0	0.39	
Di-n-butyl phthalate	BUC0262-BLK1	ND	ug/L	2.0	0.39	
2,4-Dinitrotoluene	BUC0262-BLK1	ND	ug/L	2.0	0.26	
2,6-Dinitrotoluene	BUC0262-BLK1	ND	ug/L	2.0	0.41	
Di-n-octyl phthalate	BUC0262-BLK1	ND	ug/L	2.0	0.46	
1,2-Diphenylhydrazine	BUC0262-BLK1	ND	ug/L	2.0	0.34	
Endosulfan I	BUC0262-BLK1	ND	ug/L	10	1.7	
Endosulfan II	BUC0262-BLK1	ND	ug/L	10	1.2	
Endosulfan sulfate	BUC0262-BLK1	ND	ug/L	3.0	0.58	
Endrin	BUC0262-BLK1	ND	ug/L	2.0	1.1	
Endrin aldehyde	BUC0262-BLK1	ND	ug/L	10	0.52	
Fluoranthene	BUC0262-BLK1	ND	ug/L	2.0	0.20	
Fluorene	BUC0262-BLK1	ND	ug/L	2.0	0.28	
Heptachlor	BUC0262-BLK1	ND	ug/L	2.0	0.32	
Heptachlor epoxide	BUC0262-BLK1	ND	ug/L	2.0	0.27	
Hexachlorobenzene	BUC0262-BLK1	ND	ug/L	2.0	0.20	
Hexachlorobutadiene	BUC0262-BLK1	ND	ug/L	2.0	0.24	
Hexachlorocyclopentadiene	BUC0262-BLK1	ND	ug/L	2.0	0.30	
Hexachloroethane	BUC0262-BLK1	ND	ug/L	2.0	0.32	
Indeno[1,2,3-cd]pyrene	BUC0262-BLK1	ND	ug/L	2.0	0.26	
Isophorone	BUC0262-BLK1	ND	ug/L	2.0	0.31	
2-Methylnaphthalene	BUC0262-BLK1	ND	ug/L	2.0	0.28	
Naphthalene	BUC0262-BLK1	ND	ug/L	2.0	0.21	
2-Naphthylamine	BUC0262-BLK1	ND	ug/L	20	4.8	
2-Nitroaniline	BUC0262-BLK1	ND	ug/L	2.0	0.33	
3-Nitroaniline	BUC0262-BLK1	ND	ug/L	2.0	0.66	
4-Nitroaniline	BUC0262-BLK1	ND	ug/L	5.0	0.87	
Nitrobenzene	BUC0262-BLK1	ND	ug/L	2.0	0.26	
N-Nitrosodimethylamine	BUC0262-BLK1	ND	ug/L	2.0	0.61	
N-Nitrosodi-N-propylamine	BUC0262-BLK1	ND	ug/L	2.0	1.3	

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/11/2011 16:14
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC0262						
N-Nitrosodiphenylamine	BUC0262-BLK1	ND	ug/L	2.0	0.44	
Phenanthrene	BUC0262-BLK1	ND	ug/L	2.0	0.20	
Pyrene	BUC0262-BLK1	ND	ug/L	2.0	0.26	
1,2,4-Trichlorobenzene	BUC0262-BLK1	ND	ug/L	2.0	0.27	
4-Chloro-3-methylphenol	BUC0262-BLK1	ND	ug/L	5.0	0.40	
2-Chlorophenol	BUC0262-BLK1	ND	ug/L	2.0	0.37	
2,4-Dichlorophenol	BUC0262-BLK1	ND	ug/L	2.0	0.43	
2,4-Dimethylphenol	BUC0262-BLK1	ND	ug/L	2.0	0.20	
4,6-Dinitro-2-methylphenol	BUC0262-BLK1	ND	ug/L	10	0.34	
2,4-Dinitrophenol	BUC0262-BLK1	ND	ug/L	10	0.20	
2-Methylphenol	BUC0262-BLK1	ND	ug/L	2.0	1.0	
3- & 4-Methylphenol	BUC0262-BLK1	ND	ug/L	2.0	1.6	
2-Nitrophenol	BUC0262-BLK1	ND	ug/L	2.0	0.28	
4-Nitrophenol	BUC0262-BLK1	ND	ug/L	2.0	0.73	
Pentachlorophenol	BUC0262-BLK1	ND	ug/L	10	0.79	
Phenol	BUC0262-BLK1	ND	ug/L	2.0	0.20	
2,4,5-Trichlorophenol	BUC0262-BLK1	ND	ug/L	5.0	0.31	
2,4,6-Trichlorophenol	BUC0262-BLK1	ND	ug/L	5.0	0.60	
2-Fluorophenol (Surrogate)	BUC0262-BLK1	63.5	%	28 - 85 (LCL - UCL)		
Phenol-d5 (Surrogate)	BUC0262-BLK1	40.5	%	13 - 59 (LCL - UCL)		
Nitrobenzene-d5 (Surrogate)	BUC0262-BLK1	87.4	%	34 - 119 (LCL - UCL)		
2-Fluorobiphenyl (Surrogate)	BUC0262-BLK1	89.8	%	24 - 128 (LCL - UCL)		
2,4,6-Tribromophenol (Surrogate)	BUC0262-BLK1	78.8	%	35 - 114 (LCL - UCL)		
p-Terphenyl-d14 (Surrogate)	BUC0262-BLK1	99.8	%	10 - 185 (LCL - UCL)		

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425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/11/2011 16:14
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUC0262										
Acenaphthene	BUC0262-BS1	LCS	46.836	50.000	ug/L	93.7		63 - 128		
1,4-Dichlorobenzene	BUC0262-BS1	LCS	42.906	50.000	ug/L	85.8		72 - 112		
2,4-Dinitrotoluene	BUC0262-BS1	LCS	45.450	50.000	ug/L	90.9		45 - 136		
Hexachlorobenzene	BUC0262-BS1	LCS	45.764	50.000	ug/L	91.5		71 - 130		
Hexachlorobutadiene	BUC0262-BS1	LCS	38.021	50.000	ug/L	76.0		56 - 106		
Hexachloroethane	BUC0262-BS1	LCS	45.812	50.000	ug/L	91.6		58 - 116		
Nitrobenzene	BUC0262-BS1	LCS	46.689	50.000	ug/L	93.4		59 - 119		
N-Nitrosodi-N-propylamine	BUC0262-BS1	LCS	50.019	50.000	ug/L	100		47 - 112		
Pyrene	BUC0262-BS1	LCS	53.706	50.000	ug/L	107		26 - 167		
1,2,4-Trichlorobenzene	BUC0262-BS1	LCS	42.480	50.000	ug/L	85.0		64 - 116		
4-Chloro-3-methylphenol	BUC0262-BS1	LCS	45.527	50.000	ug/L	91.1		52 - 123		
2-Chlorophenol	BUC0262-BS1	LCS	43.523	50.000	ug/L	87.0		62 - 106		
2-Methylphenol	BUC0262-BS1	LCS	40.694	50.000	ug/L	81.4		39 - 119		
3- & 4-Methylphenol	BUC0262-BS1	LCS	62.687	100.00	ug/L	62.7		40 - 94		
4-Nitrophenol	BUC0262-BS1	LCS	20.081	50.000	ug/L	40.2		18 - 64		
Pentachlorophenol	BUC0262-BS1	LCS	36.460	50.000	ug/L	72.9		38 - 144		
Phenol	BUC0262-BS1	LCS	21.792	50.000	ug/L	43.6		22 - 60		
2,4,6-Trichlorophenol	BUC0262-BS1	LCS	47.600	50.000	ug/L	95.2		60 - 127		
2-Fluorophenol (Surrogate)	BUC0262-BS1	LCS	59.520	80.000	ug/L	74.4		28 - 85		
Phenol-d5 (Surrogate)	BUC0262-BS1	LCS	37.510	80.000	ug/L	46.9		13 - 59		
Nitrobenzene-d5 (Surrogate)	BUC0262-BS1	LCS	77.840	80.000	ug/L	97.3		34 - 119		
2-Fluorobiphenyl (Surrogate)	BUC0262-BS1	LCS	73.290	80.000	ug/L	91.6		24 - 128		
2,4,6-Tribromophenol (Surrogate)	BUC0262-BS1	LCS	80.690	80.000	ug/L	101		35 - 114		
p-Terphenyl-d14 (Surrogate)	BUC0262-BS1	LCS	41.600	40.000	ug/L	104		10 - 185		

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Sunnyvale, CA 94085

Reported: 03/11/2011 16:14
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC0262	Used client sample: N										
Acenaphthene	MS	1015011-99	ND	48.995	50.000	ug/L		98.0		55 - 128	
	MSD	1015011-99	ND	48.080	50.000	ug/L	1.9	96.2	28	55 - 128	
1,4-Dichlorobenzene	MS	1015011-99	ND	45.487	50.000	ug/L		91.0		64 - 114	
	MSD	1015011-99	ND	41.053	50.000	ug/L	10.2	82.1	27	64 - 114	
2,4-Dinitrotoluene	MS	1015011-99	ND	48.598	50.000	ug/L		97.2		41 - 135	
	MSD	1015011-99	ND	48.457	50.000	ug/L	0.3	96.9	29	41 - 135	
Hexachlorobenzene	MS	1015011-99	ND	44.552	50.000	ug/L		89.1		66 - 131	
	MSD	1015011-99	ND	48.413	50.000	ug/L	8.3	96.8	23	66 - 131	
Hexachlorobutadiene	MS	1015011-99	ND	39.870	50.000	ug/L		79.7		47 - 108	
	MSD	1015011-99	ND	34.464	50.000	ug/L	14.5	68.9	26	47 - 108	
Hexachloroethane	MS	1015011-99	ND	46.719	50.000	ug/L		93.4		49 - 118	
	MSD	1015011-99	ND	39.580	50.000	ug/L	16.5	79.2	30	49 - 118	
Nitrobenzene	MS	1015011-99	ND	48.536	50.000	ug/L		97.1		53 - 118	
	MSD	1015011-99	ND	49.141	50.000	ug/L	1.2	98.3	27	53 - 118	
N-Nitrosodi-N-propylamine	MS	1015011-99	ND	54.130	50.000	ug/L		108		41 - 114	
	MSD	1015011-99	ND	52.988	50.000	ug/L	2.1	106	30	41 - 114	
Pyrene	MS	1015011-99	ND	50.285	50.000	ug/L		101		25 - 163	
	MSD	1015011-99	ND	49.293	50.000	ug/L	2.0	98.6	27	25 - 163	
1,2,4-Trichlorobenzene	MS	1015011-99	ND	45.690	50.000	ug/L		91.4		52 - 121	
	MSD	1015011-99	ND	42.282	50.000	ug/L	7.7	84.6	28	52 - 121	
4-Chloro-3-methylphenol	MS	1015011-99	ND	46.238	50.000	ug/L		92.5		46 - 125	
	MSD	1015011-99	ND	50.712	50.000	ug/L	9.2	101	23	46 - 125	
2-Chlorophenol	MS	1015011-99	ND	42.282	50.000	ug/L		84.6		53 - 109	
	MSD	1015011-99	ND	42.361	50.000	ug/L	0.2	84.7	30	53 - 109	
2-Methylphenol	MS	1015011-99	ND	40.382	50.000	ug/L		80.8		37 - 117	
	MSD	1015011-99	ND	42.256	50.000	ug/L	4.5	84.5	26	37 - 117	
3- & 4-Methylphenol	MS	1015011-99	ND	63.380	100.00	ug/L		63.4		39 - 92	
	MSD	1015011-99	ND	63.084	100.00	ug/L	0.5	63.1	27	39 - 92	
4-Nitrophenol	MS	1015011-99	ND	20.468	50.000	ug/L		40.9		18 - 63	
	MSD	1015011-99	ND	21.203	50.000	ug/L	3.5	42.4	30	18 - 63	
Pentachlorophenol	MS	1015011-99	ND	35.533	50.000	ug/L		71.1		16 - 156	
	MSD	1015011-99	ND	41.417	50.000	ug/L	15.3	82.8	30	16 - 156	
Phenol	MS	1015011-99	ND	22.568	50.000	ug/L		45.1		21 - 59	
	MSD	1015011-99	ND	22.537	50.000	ug/L	0.1	45.1	29	21 - 59	
2,4,6-Trichlorophenol	MS	1015011-99	ND	48.719	50.000	ug/L		97.4		43 - 135	
	MSD	1015011-99	ND	51.069	50.000	ug/L	4.7	102	30	43 - 135	

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/11/2011 16:14
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC0262	Used client sample: N										
2-Fluorophenol (Surrogate)	MS	1015011-99	ND	57.550	80.000	ug/L		71.9		28 - 85	
	MSD	1015011-99	ND	55.500	80.000	ug/L	3.6	69.4		28 - 85	
Phenol-d5 (Surrogate)	MS	1015011-99	ND	36.720	80.000	ug/L		45.9		13 - 59	
	MSD	1015011-99	ND	35.780	80.000	ug/L	2.6	44.7		13 - 59	
Nitrobenzene-d5 (Surrogate)	MS	1015011-99	ND	77.890	80.000	ug/L		97.4		34 - 119	
	MSD	1015011-99	ND	74.770	80.000	ug/L	4.1	93.5		34 - 119	
2-Fluorobiphenyl (Surrogate)	MS	1015011-99	ND	74.060	80.000	ug/L		92.6		24 - 128	
	MSD	1015011-99	ND	75.450	80.000	ug/L	1.9	94.3		24 - 128	
2,4,6-Tribromophenol (Surrogate)	MS	1015011-99	ND	70.750	80.000	ug/L		88.4		35 - 114	
	MSD	1015011-99	ND	77.650	80.000	ug/L	9.3	97.1		35 - 114	
p-Terphenyl-d14 (Surrogate)	MS	1015011-99	ND	40.150	40.000	ug/L		100		10 - 185	
	MSD	1015011-99	ND	38.230	40.000	ug/L	4.9	95.6		10 - 185	

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Sunnyvale, CA 94085

Reported: 03/11/2011 16:14
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC0332						
TPH - C8 - C9	BUC0332-BLK1	ND	ug/L	10	5.0	
TPH - C10 - C11	BUC0332-BLK1	ND	ug/L	10	5.0	
TPH - C12 - C14	BUC0332-BLK1	ND	ug/L	10	5.0	
TPH - C15 - C16	BUC0332-BLK1	ND	ug/L	10	5.0	
TPH - C17 - C18	BUC0332-BLK1	ND	ug/L	10	5.0	
TPH - C19 - C20	BUC0332-BLK1	ND	ug/L	10	5.0	
TPH - C21 - C22	BUC0332-BLK1	ND	ug/L	10	5.0	
TPH - C23 - C28	BUC0332-BLK1	ND	ug/L	10	5.0	
TPH - C29 - C32	BUC0332-BLK1	ND	ug/L	10	5.0	
TPH - C33 - C36	BUC0332-BLK1	ND	ug/L	10	5.0	
TPH - C37 - C40	BUC0332-BLK1	ND	ug/L	10	5.0	
TPH - C41 - C43	BUC0332-BLK1	ND	ug/L	10	5.0	
TPH - C44 plus	BUC0332-BLK1	ND	ug/L	10	5.0	
TPH (Total)	BUC0332-BLK1	ND	ug/L	200	100	
TPH - Diesel (FFP)	BUC0332-BLK1	ND	ug/L	200	34	
Tetracosane (Surrogate)	BUC0332-BLK1	76.8	%	37 - 134 (LCL - UCL)		

Golder Associates 425 Lakeside Drive Sunnyvale, CA 94085	**Reported:** 03/11/2011 16:14 Project: Nine Par Project Number: 103 97163 Project Manager: Tom Vercoutere

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUC0332										
TPH - Diesel (FFP)	BUC0332-BS1	LCS	2514.2	2500.0	ug/L	101		52 - 128		
Tetracosane (Surrogate)	BUC0332-BS1	LCS	130.06	100.00	ug/L	130		37 - 134		

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Reported: 03/11/2011 16:14
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC0332	Used client sample: N										
TPH - Diesel (FFP)	MS	1102229-45	ND	2547.8	2500.0	ug/L		102		50 - 127	
	MSD	1102229-45	ND	2532.8	2500.0	ug/L	0.6	101	24	50 - 127	
Tetracosane (Surrogate)	MS	1102229-45	ND	140.54	100.00	ug/L		141		37 - 134	S09
	MSD	1102229-45	ND	132.69	100.00	ug/L	5.7	133		37 - 134	

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Reported: 03/11/2011 16:14
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUB1796						
Total Sulfide	BUB1796-BLK1	ND	mg/L	0.10	0.050	
QC Batch ID: BUB1803						
Chloride	BUB1803-BLK1	ND	mg/L	0.50	0.050	
Fluoride	BUB1803-BLK1	ND	mg/L	0.050	0.012	
Nitrate as N	BUB1803-BLK1	ND	mg/L	0.10	0.014	
Sulfate	BUB1803-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BUB1838						
Nitrite as N	BUB1838-BLK1	ND	mg/L	0.050	0.0081	
QC Batch ID: BUC0021						
Total Dissolved Solids @ 180 C	BUC0021-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BUC0126						
Dissolved Calcium	BUC0126-BLK1	ND	mg/L	0.10	0.018	
Dissolved Magnesium	BUC0126-BLK1	ND	mg/L	0.050	0.016	
Dissolved Sodium	BUC0126-BLK1	0.21910	mg/L	0.50	0.050	J
Dissolved Potassium	BUC0126-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BUC0159						
Total Cyanide	BUC0159-BLK1	ND	mg/L	0.0050	0.0016	
QC Batch ID: BUC0198						
Bicarbonate Alkalinity as CaCO3	BUC0198-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BUC0198-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BUC0321						
Non-Volatile Organic Carbon	BUC0321-BLK1	0.086000	mg/L	0.30	0.062	J
QC Batch ID: BUC0434						
Nitrate/Nitrite as N	BUC0434-BLK1	ND	mg/L	0.10	0.010	

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Reported: 03/11/2011 16:14
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUB1796										
Total Sulfide	BUB1796-BS1	LCS	0.48298	0.50000	mg/L	96.6		90 - 110		
QC Batch ID: BUB1803										
Chloride	BUB1803-BS1	LCS	109.83	100.00	mg/L	110		90 - 110		
Fluoride	BUB1803-BS1	LCS	1.0730	1.0000	mg/L	107		90 - 110		
Nitrate as N	BUB1803-BS1	LCS	5.3240	5.0000	mg/L	106		90 - 110		
Sulfate	BUB1803-BS1	LCS	104.70	100.00	mg/L	105		90 - 110		
QC Batch ID: BUB1838										
Nitrite as N	BUB1838-BS1	LCS	0.48824	0.50000	mg/L	97.6		90 - 110		
QC Batch ID: BUC0021										
Total Dissolved Solids @ 180 C	BUC0021-BS1	LCS	570.00	586.00	mg/L	97.3		90 - 110		
QC Batch ID: BUC0126										
Dissolved Calcium	BUC0126-BS1	LCS	10.114	10.000	mg/L	101		85 - 115		
Dissolved Magnesium	BUC0126-BS1	LCS	10.478	10.000	mg/L	105		85 - 115		
Dissolved Sodium	BUC0126-BS1	LCS	9.8680	10.000	mg/L	98.7		85 - 115		
Dissolved Potassium	BUC0126-BS1	LCS	10.345	10.000	mg/L	103		85 - 115		
QC Batch ID: BUC0159										
Total Cyanide	BUC0159-BS1	LCS	0.14178	0.15000	mg/L	94.5		90 - 110		
QC Batch ID: BUC0321										
Non-Volatile Organic Carbon	BUC0321-BS1	LCS	5.0660	5.0000	mg/L	101		85 - 115		
QC Batch ID: BUC0434										
Nitrate/Nitrite as N	BUC0434-BS1	LCS	2.0849	2.0000	mg/L	104		90 - 110		

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Reported: 03/11/2011 16:14
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUB1796	Used client sample: N										
Total Sulfide	DUP	1103132-01	ND	ND		mg/L			10		
	MS	1103132-01	ND	0.46058	0.50000	mg/L		92.1		80 - 120	
	MSD	1103132-01	ND	0.46218	0.50000	mg/L	0.3	92.4	10	80 - 120	
QC Batch ID: BUB1803	Used client sample: N										
Chloride	DUP	1103182-01	8.4650	8.4270		mg/L	0.4		10		
	MS	1103182-01	8.4650	120.41	101.01	mg/L		111		80 - 120	
	MSD	1103182-01	8.4650	120.39	101.01	mg/L	0.0	111	10	80 - 120	
Fluoride	DUP	1103182-01	0.17700	0.17100		mg/L	3.4		10		
	MS	1103182-01	0.17700	1.2323	1.0101	mg/L		104		80 - 120	
	MSD	1103182-01	0.17700	1.2525	1.0101	mg/L	1.6	106	10	80 - 120	
Nitrate as N	DUP	1103182-01	0.079000	0.074000		mg/L	6.5		10		J
	MS	1103182-01	0.079000	5.4384	5.0505	mg/L		106		80 - 120	
	MSD	1103182-01	0.079000	5.3838	5.0505	mg/L	1.0	105	10	80 - 120	
Sulfate	DUP	1103182-01	6.3450	6.2570		mg/L	1.4		10		
	MS	1103182-01	6.3450	111.51	101.01	mg/L		104		80 - 120	
	MSD	1103182-01	6.3450	111.06	101.01	mg/L	0.4	104	10	80 - 120	
QC Batch ID: BUB1838	Used client sample: Y - Description: EB-01, 02/23/2011 14:30										
Nitrite as N	DUP	1103173-01	ND	ND		mg/L			10		
	MS	1103173-01	ND	0.52619	0.52632	mg/L		100		90 - 110	
	MSD	1103173-01	ND	0.52476	0.52632	mg/L	0.3	99.7	10	90 - 110	
QC Batch ID: BUC0021	Used client sample: N										
Total Dissolved Solids @ 180 C	DUP	1103180-02	1590.0	1570.0		mg/L	1.3		10		
QC Batch ID: BUC0126	Used client sample: N										
Dissolved Calcium	DUP	1103181-01	22.952	22.686		mg/L	1.2		20		
	MS	1103181-01	22.952	32.779	10.204	mg/L		96.3		85 - 115	
	MSD	1103181-01	22.952	32.807	10.204	mg/L	0.1	96.6	20	85 - 115	
Dissolved Magnesium	DUP	1103181-01	6.7452	6.6040		mg/L	2.1		20		
	MS	1103181-01	6.7452	16.942	10.204	mg/L		99.9		85 - 115	
	MSD	1103181-01	6.7452	17.428	10.204	mg/L	2.8	105	20	85 - 115	
Dissolved Sodium	DUP	1103181-01	5.8362	5.8916		mg/L	0.9		20		
	MS	1103181-01	5.8362	15.709	10.204	mg/L		96.8		85 - 115	
	MSD	1103181-01	5.8362	15.639	10.204	mg/L	0.4	96.1	20	85 - 115	
Dissolved Potassium	DUP	1103181-01	2.7243	2.7157		mg/L	0.3		20		
	MS	1103181-01	2.7243	13.378	10.204	mg/L		104		85 - 115	
	MSD	1103181-01	2.7243	13.417	10.204	mg/L	0.3	105	20	85 - 115	
QC Batch ID: BUC0159	Used client sample: N										

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/11/2011 16:14
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC0159	Used client sample: N										
Total Cyanide	DUP	1103226-01	ND	ND		mg/L			10		
	MS	1103226-01	ND	0.098416	0.10000	mg/L		98.4		90 - 110	
	MSD	1103226-01	ND	0.096676	0.10000	mg/L	1.8	96.7	10	90 - 110	
QC Batch ID: BUC0198	Used client sample: Y - Description: EB-03, 02/24/2011 16:15										
Bicarbonate Alkalinity as CaCO3	DUP	1103173-03	725.37	731.76		mg/L	0.9		10		
Carbonate Alkalinity as CaCO3	DUP	1103173-03	ND	ND		mg/L			10		
QC Batch ID: BUC0321	Used client sample: N										
Non-Volatile Organic Carbon	DUP	1102954-02	3.0410	3.0750		mg/L	1.1		10		
	MS	1102954-02	3.0410	8.4231	5.0251	mg/L		107		80 - 120	
	MSD	1102954-02	3.0410	8.3739	5.0251	mg/L	0.6	106	10	80 - 120	
QC Batch ID: BUC0434	Used client sample: N										
Nitrate/Nitrite as N	DUP	1103321-02	0.62720	0.67040		mg/L	6.7		10		
	MS	1103321-02	0.62720	2.9061	2.1053	mg/L		108		90 - 110	
	MSD	1103321-02	0.62720	2.8458	2.1053	mg/L	2.1	105	10	90 - 110	

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/11/2011 16:14
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Water Analysis (Metals)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC0125						
Dissolved Antimony	BUC0125-BLK1	ND	ug/L	100	10	
Dissolved Arsenic	BUC0125-BLK1	ND	ug/L	50	7.5	
Dissolved Barium	BUC0125-BLK1	ND	ug/L	10	1.2	
Dissolved Beryllium	BUC0125-BLK1	ND	ug/L	10	1.0	
Dissolved Cadmium	BUC0125-BLK1	ND	ug/L	10	1.0	
Dissolved Chromium	BUC0125-BLK1	ND	ug/L	10	1.0	
Dissolved Cobalt	BUC0125-BLK1	ND	ug/L	50	5.0	
Dissolved Copper	BUC0125-BLK1	ND	ug/L	10	2.3	
Dissolved Lead	BUC0125-BLK1	ND	ug/L	50	5.0	
Dissolved Molybdenum	BUC0125-BLK1	ND	ug/L	50	5.0	
Dissolved Nickel	BUC0125-BLK1	ND	ug/L	10	1.2	
Dissolved Selenium	BUC0125-BLK1	ND	ug/L	100	11	
Dissolved Silver	BUC0125-BLK1	ND	ug/L	10	1.1	
Dissolved Thallium	BUC0125-BLK1	ND	ug/L	100	15	
Dissolved Vanadium	BUC0125-BLK1	ND	ug/L	10	1.0	
Dissolved Zinc	BUC0125-BLK1	ND	ug/L	10	5.9	
QC Batch ID: BUC0259						
Dissolved Mercury	BUC0259-BLK1	ND	ug/L	0.20	0.034	

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/11/2011 16:14
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Water Analysis (Metals)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUC0125										
Dissolved Antimony	BUC0125-BS1	LCS	386.06	400.00	ug/L	96.5		85 - 115		
Dissolved Arsenic	BUC0125-BS1	LCS	189.03	200.00	ug/L	94.5		85 - 115		
Dissolved Barium	BUC0125-BS1	LCS	411.85	400.00	ug/L	103		85 - 115		
Dissolved Beryllium	BUC0125-BS1	LCS	204.88	200.00	ug/L	102		85 - 115		
Dissolved Cadmium	BUC0125-BS1	LCS	206.07	200.00	ug/L	103		85 - 115		
Dissolved Chromium	BUC0125-BS1	LCS	209.83	200.00	ug/L	105		85 - 115		
Dissolved Cobalt	BUC0125-BS1	LCS	213.89	200.00	ug/L	107		85 - 115		
Dissolved Copper	BUC0125-BS1	LCS	393.66	400.00	ug/L	98.4		85 - 115		
Dissolved Lead	BUC0125-BS1	LCS	430.19	400.00	ug/L	108		85 - 115		
Dissolved Molybdenum	BUC0125-BS1	LCS	207.94	200.00	ug/L	104		85 - 115		
Dissolved Nickel	BUC0125-BS1	LCS	425.44	400.00	ug/L	106		85 - 115		
Dissolved Selenium	BUC0125-BS1	LCS	226.59	200.00	ug/L	113		85 - 115		
Dissolved Silver	BUC0125-BS1	LCS	99.837	100.00	ug/L	99.8		85 - 115		
Dissolved Thallium	BUC0125-BS1	LCS	444.05	400.00	ug/L	111		85 - 115		
Dissolved Vanadium	BUC0125-BS1	LCS	202.97	200.00	ug/L	101		85 - 115		
Dissolved Zinc	BUC0125-BS1	LCS	533.42	500.00	ug/L	107		85 - 115		
QC Batch ID: BUC0259										
Dissolved Mercury	BUC0259-BS1	LCS	1.0350	1.0000	ug/L	104		85 - 115		

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/11/2011 16:14
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC0125	Used client sample: N										
Dissolved Antimony	DUP	1103229-01	ND	ND		ug/L			20		
	MS	1103229-01	ND	417.42	408.16	ug/L		102		75 - 125	
	MSD	1103229-01	ND	424.28	408.16	ug/L	1.6	104	20	75 - 125	
Dissolved Arsenic	DUP	1103229-01	ND	ND		ug/L			20		
	MS	1103229-01	ND	209.34	204.08	ug/L		103		75 - 125	
	MSD	1103229-01	ND	209.07	204.08	ug/L	0.1	102	20	75 - 125	
Dissolved Barium	DUP	1103229-01	22.270	21.937		ug/L	1.5		20		
	MS	1103229-01	22.270	449.46	408.16	ug/L		105		75 - 125	
	MSD	1103229-01	22.270	461.89	408.16	ug/L	2.7	108	20	75 - 125	
Dissolved Beryllium	DUP	1103229-01	ND	ND		ug/L			20		
	MS	1103229-01	ND	214.88	204.08	ug/L		105		75 - 125	
	MSD	1103229-01	ND	215.83	204.08	ug/L	0.4	106	20	75 - 125	
Dissolved Cadmium	DUP	1103229-01	ND	ND		ug/L			20		
	MS	1103229-01	ND	224.01	204.08	ug/L		110		75 - 125	
	MSD	1103229-01	ND	221.15	204.08	ug/L	1.3	108	20	75 - 125	
Dissolved Chromium	DUP	1103229-01	1.5446	1.5468		ug/L	0.1		20		J
	MS	1103229-01	1.5446	218.95	204.08	ug/L		107		75 - 125	
	MSD	1103229-01	1.5446	217.66	204.08	ug/L	0.6	106	20	75 - 125	
Dissolved Cobalt	DUP	1103229-01	ND	ND		ug/L			20		
	MS	1103229-01	ND	224.22	204.08	ug/L		110		75 - 125	
	MSD	1103229-01	ND	223.06	204.08	ug/L	0.5	109	20	75 - 125	
Dissolved Copper	DUP	1103229-01	ND	ND		ug/L			20		
	MS	1103229-01	ND	417.22	408.16	ug/L		102		75 - 125	
	MSD	1103229-01	ND	415.24	408.16	ug/L	0.5	102	20	75 - 125	
Dissolved Lead	DUP	1103229-01	ND	ND		ug/L			20		
	MS	1103229-01	ND	456.38	408.16	ug/L		112		75 - 125	
	MSD	1103229-01	ND	461.18	408.16	ug/L	1.0	113	20	75 - 125	
Dissolved Molybdenum	DUP	1103229-01	ND	ND		ug/L			20		
	MS	1103229-01	ND	218.10	204.08	ug/L		107		75 - 125	
	MSD	1103229-01	ND	220.42	204.08	ug/L	1.1	108	20	75 - 125	
Dissolved Nickel	DUP	1103229-01	ND	ND		ug/L			20		
	MS	1103229-01	ND	450.10	408.16	ug/L		110		75 - 125	
	MSD	1103229-01	ND	445.97	408.16	ug/L	0.9	109	20	75 - 125	
Dissolved Selenium	DUP	1103229-01	15.671	11.900		ug/L	27.4		20		J,A02
	MS	1103229-01	15.671	256.87	204.08	ug/L		118		75 - 125	
	MSD	1103229-01	15.671	249.16	204.08	ug/L	3.0	114	20	75 - 125	
Dissolved Silver	DUP	1103229-01	ND	ND		ug/L			20		
	MS	1103229-01	ND	107.28	102.04	ug/L		105		75 - 125	
	MSD	1103229-01	ND	104.68	102.04	ug/L	2.5	103	20	75 - 125	

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/11/2011 16:14
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC0125	Used client sample: N										
Dissolved Thallium	DUP	1103229-01	ND	ND		ug/L			20		
	MS	1103229-01	ND	469.90	408.16	ug/L		115		75 - 125	
	MSD	1103229-01	ND	475.79	408.16	ug/L	1.2	117	20	75 - 125	
Dissolved Vanadium	DUP	1103229-01	1.0955	ND		ug/L			20		
	MS	1103229-01	1.0955	216.89	204.08	ug/L		106		75 - 125	
	MSD	1103229-01	1.0955	214.49	204.08	ug/L	1.1	105	20	75 - 125	
Dissolved Zinc	DUP	1103229-01	ND	ND		ug/L			20		
	MS	1103229-01	ND	586.85	510.20	ug/L		115		75 - 125	
	MSD	1103229-01	ND	584.70	510.20	ug/L	0.4	115	20	75 - 125	
QC Batch ID: BUC0259	Used client sample: N										
Dissolved Mercury	DUP	1103229-01	ND	ND		ug/L			20		
	MS	1103229-01	ND	0.98750	1.0000	ug/L		98.8		70 - 130	
	MSD	1103229-01	ND	1.0025	1.0000	ug/L	1.5	100	20	70 - 130	

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Golder Associates 425 Lakeside Drive Sunnyvale, CA 94085	**Reported:** 03/11/2011 16:14 Project: Nine Par Project Number: 103 97163 Project Manager: Tom Vercoutere

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A01	PQL's and MDL's are raised due to sample dilution.
A02	The difference between duplicate readings is less than the PQL.
A10	PQL's and MDL's were raised due to matrix interference.
L02	The Laboratory Control Sample Water (LCSW) recovery is not within method established control limits.
Q03	Matrix spike recovery(s) is(are) not within the control limits.
S09	The surrogate recovery on the sample for this compound was not within the control limits.
V11	The Continuing Calibration Verification (CCV) recovery is not within established control limits.

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Date of Report: 03/11/2011

Tom Vercoutere

Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

RE:	Nine Par
BC Work Order:	1103173
Invoice ID:	B096487

Enclosed are the results of analyses for samples received by the laboratory on 2/25/2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Linda Phoudamneun

Contact Person: Linda Phoudamneun
Client Service Rep

Authorized Signature

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Golder Associates

1103173

Golder Associates
CHAIN OF CUSTODY

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Quotation No. Standard 2011 Golder Rates

PROJECT NO.:
SITE NAME: Nine Pir
SAMPLER(S): Jeff Lider (printed) (signature)
CONTRACT LABORATORY: BC Labs
TURN-AROUND TIME: Standard

ANALYSES: See Attached Parameter List

EDD required? [X] Yes [ ] No
EDF required? [ ] Yes [X] No

Sample I.D.	Lab I.D.	Collection Date	Collection Time	Matrix	Depth	Container Info	Type/Vol.	Filter	Preserv.										Cont. Qty.	Remarks
							VOA 40ml	A 1L	P 500ml	P 500ml	P 500ml	P 500ml	A 500ml	P 1L						
							N	N	Y	N	N	N	N	N						
							HCl	AsIn	HNO3	NaOH	H2SO4	2N HNO3	H2SO4	AsIn						
EB-01	-1	2/23	1430	GW	—		3	5	1	1	1	1	1	1					14	
EB-02	-2	2/24	1130	GW	—		3	5	1	1	1	1	1	1					14	
EB-03	-3	2/24	1615	GW	—		3	5	1	1	1	1	1	1					14	

CHK BY
DISTRIBUTION
SUB-OUT
HOLDING TIME
NO_2 NO_3 OP SS
OD Cl_2 BOD MBAS COT

Relinquished by: (signature)	Received by: (signature)	Date/Time:	SEND RESULTS TO:
	BINS BCL	2/24/11 1715	Attn: Tom Vercontere
Relinquished by: (signature) 2/24/11 BCL VIA GSO 1815	Received by: (signature) Rammel	Date/Time: 2/25/11 0800	Golder Associates Inc. 425 Lakeside Drive Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224
Relinquished by: (signature)	Received by: (signature)	Date/Time:	

white: lab copy yellow: project file

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4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com

1103173

Nine Par Landfill – Preliminary Site Investigation
Zero Waste Energy Development Company
San Jose, California

2/24/11
103-9716311

Parameter Request List

Groundwater	
Volatile Organic Compounds	EPA Method 8260B
Total Petroleum Hydrocarbons	Modified EPA Method 8015
CAM 17 Metals	EPA 6000/7000 series
Semi-volatile Organic Compounds	EPA Method 8270C
Organochlorine Pesticides	EPA Method 8081
PCBs	EPA Method 8082
Chlorophenoxy Herbicides	EPA Method 8151
Cyanide	EPA Method 335.2
Sulfide	EPA Method 376.1
Anions (Cl, Fl, NO2, NO3, SO4)	EPA Method 300.0
Bicarbonate and Carbonate Alkalinity	EPA Method 310.2
Calcium, Magnesium, Potassium, and Sodium	EPA Method 200.7
Total Dissolved Solids	EPA Method 160.1
Total Organic Carbon	EPA Method 415.1

Chain of Custody and Cooler Receipt Form for 1103173 Page 3 of 4

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 12 12/30/10 Page 1 Of 2

Submission #: 1103173

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☐ Other ☒ (Specify) GSO

SHIPPING CONTAINER
Ice Chest ☒ None ☐
Box ☐ Other ☐ (Specify)

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: .95 Container: Pt+Pe Thermometer ID: #163 Date/Time 2/25/11 0800
Temperature: (A) 4.3 °C / (C) 4.3 °C Analyst Init BLT

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL		B								
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE		D								
PT NITROGEN FORMS		D JNW								
PT TOTAL SULFIDE		F 2/25								
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON		G								
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK				A3						
40ml VOA VIAL	A3	A3	A3							
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER S270		HT.JKL								
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments: 1VOA on -2 Received Via Gulf
Sample Numbering Completed By: JNW Date/Time: 2/25/11 2018
A = Actual / C = Corrected

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Chain of Custody and Cooler Receipt Form for 1103173 Page 4 of 4

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 12 12/30/10 Page 2 Of 2

Submission #: 1103173

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☐ Other ☒ (Specify) GSO

SHIPPING CONTAINER
Ice Chest ☒ None ☐
Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: .95 Container: PAPe Thermometer ID: #163 Date/Time 2/25/11 0800
Temperature: (A) 4.8 °C / (C) 4.8 °C Analyst Init BLJ

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL	B		B							
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS	C	C	C							
PT CYANIDE	D		D							
PT NITROGEN FORMS	E	E	E							
PT TOTAL SULFIDE	F		F							
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON	G		G							
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA ~~508/608/8080~~ 8082			HI							
QT EPA ~~515.1/8150~~ 8150/8151			JK							
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M	HI									
QT AMBER 8270	JKL		L							
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:
Sample Numbering Completed By: JDW Date/Time: 2/25/11 2018
A = Actual / C = Corrected

[redacted]

[C:\MyDOCS\WordPerfect\LAB_DOCS\FORMS\SAMREC2]

Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1103173-01	**COC Number:**	---	**Receive Date:**	02/25/2011 08:00
	Project Number:	---	**Sampling Date:**	02/23/2011 14:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	EB-01	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Water
			Metal Analysis:	1-Field Filtered and Acidified
1103173-02	**COC Number:**	---	**Receive Date:**	02/25/2011 08:00
	Project Number:	---	**Sampling Date:**	02/24/2011 11:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	EB-02	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Water
			Metal Analysis:	1-Field Filtered and Acidified
1103173-03	**COC Number:**	---	**Receive Date:**	02/25/2011 08:00
	Project Number:	---	**Sampling Date:**	02/24/2011 16:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	EB-03	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Water
			Metal Analysis:	1-Field Filtered and Acidified
1103173-04	**COC Number:**	---	**Receive Date:**	02/25/2011 08:00
	Project Number:	---	**Sampling Date:**	02/24/2011 16:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	TB	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Trip Blank

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Organochlorine Pesticides (EPA Method 8081)

BCL Sample ID: 1103173-01 | **Client Sample Name:** EB-01, 2/23/2011 2:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	ug/L	0.0050	0.0013	EPA-8081	ND		1
alpha-BHC	ND	ug/L	0.0050	0.0011	EPA-8081	ND	V11	1
beta-BHC	ND	ug/L	0.0050	0.0021	EPA-8081	ND		1
delta-BHC	ND	ug/L	0.0050	0.0014	EPA-8081	ND		1
gamma-BHC (Lindane)	ND	ug/L	0.0050	0.00094	EPA-8081	ND		1
Chlordane (Technical)	ND	ug/L	0.50	0.38	EPA-8081	ND		1
4,4'-DDD	ND	ug/L	0.0050	0.0017	EPA-8081	ND		1
4,4'-DDE	ND	ug/L	0.0050	0.0019	EPA-8081	ND		1
4,4'-DDT	ND	ug/L	0.0050	0.00076	EPA-8081	ND		1
Dieldrin	ND	ug/L	0.0050	0.0012	EPA-8081	ND		1
Endosulfan I	ND	ug/L	0.0050	0.0016	EPA-8081	ND		1
Endosulfan II	ND	ug/L	0.0050	0.0014	EPA-8081	ND		1
Endosulfan sulfate	ND	ug/L	0.0050	0.0026	EPA-8081	ND		1
Endrin	ND	ug/L	0.0050	0.00082	EPA-8081	ND		1
Endrin aldehyde	ND	ug/L	0.010	0.0032	EPA-8081	ND		1
Heptachlor	ND	ug/L	0.0050	0.0012	EPA-8081	ND		1
Heptachlor epoxide	ND	ug/L	0.0050	0.00099	EPA-8081	ND		1
Methoxychlor	ND	ug/L	0.0050	0.0011	EPA-8081	ND		1
Toxaphene	ND	ug/L	2.0	0.42	EPA-8081	ND		1
TCMX (Surrogate)	76.5	%	54 - 150 (LCL - UCL)		EPA-8081			1
Dibutyl chlorendate (Surrogate)	99.1	%	82 - 150 (LCL - UCL)		EPA-8081			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081	03/01/11	03/06/11 20:35	ZZZ	GC-1	1	BUC0386

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

PCB Analysis (EPA Method 8082)

BCL Sample ID: 1103173-01 | **Client Sample Name:** EB-01, 2/23/2011 2:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
PCB-1016	ND	ug/L	0.20	0.020	EPA-8082	ND		1
PCB-1221	ND	ug/L	0.20	0.089	EPA-8082	ND		1
PCB-1232	ND	ug/L	0.20	0.090	EPA-8082	ND		1
PCB-1242	ND	ug/L	0.20	0.095	EPA-8082	ND		1
PCB-1248	ND	ug/L	0.20	0.025	EPA-8082	ND		1
PCB-1254	ND	ug/L	0.20	0.042	EPA-8082	ND		1
PCB-1260	ND	ug/L	0.20	0.020	EPA-8082	ND		1
Total PCB's (Summation)	ND	ug/L	0.20	0.10	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	104	%	48 - 135 (LCL - UCL)		EPA-8082		V11	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8082	03/01/11	03/05/11 03:39	VH1	GC-6	1.064	BUC0552

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Chlorinated Herbicides (EPA Method 8151)

BCL Sample ID: 1103173-01 | **Client Sample Name:** EB-01, 2/23/2011 2:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2,4-D	ND	ug/L	0.40	0.065	EPA-8151	ND	V11	1
2,4-DB	ND	ug/L	3.0	0.32	EPA-8151	ND		1
Dalapon	ND	ug/L	10	2.4	EPA-8151	ND		1
Dicamba	ND	ug/L	0.080	0.037	EPA-8151	ND	V11	1
Dichloroprop	ND	ug/L	0.50	0.012	EPA-8151	ND	V11	1
Dinoseb	ND	ug/L	0.20	0.040	EPA-8151	ND		1
2,4,5-T	ND	ug/L	0.090	0.012	EPA-8151	ND	V11	1
2,4,5-TP (Silvex)	ND	ug/L	0.070	0.016	EPA-8151	ND		1
2,4-Dichlorophenylacetic acid (Surrogate)	106	%	50 - 150 (LCL - UCL)		EPA-8151		V11	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8151	03/01/11	03/02/11 23:38	CC1	GC-8	1	BUC0391

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1103173-01 | **Client Sample Name:** EB-01, 2/23/2011 2:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-8260	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-8260	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-8260	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-8260	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-8260	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-8260	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-8260	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-8260	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-8260	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-8260	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-8260	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-8260	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-8260	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-8260	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-8260	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-8260	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-8260	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-8260	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-8260	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-8260	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-8260	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-8260	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-8260	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-8260	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-8260	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-8260	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-8260	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-8260	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-8260	ND		1

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1103173-01 | **Client Sample Name:** EB-01, 2/23/2011 2:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-8260	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-8260	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-8260	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-8260	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-8260	ND		1
Methylene chloride	ND	ug/L	1.0	0.48	EPA-8260	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-8260	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-8260	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-8260	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-8260	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-8260	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-8260	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-8260	ND		1
Toluene	**0.13**	**ug/L**	**0.50**	**0.093**	**EPA-8260**	**ND**	**J**	1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-8260	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-8260	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-8260	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-8260	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-8260	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-8260	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-8260	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-8260	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-8260	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-8260	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	0.36	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-8260	ND		1
1,4-Dioxane	ND	ug/L	100	42	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	7.2	Luft-GC/MS	ND		1

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1103173-01 | **Client Sample Name:** EB-01, 2/23/2011 2:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,2-Dichloroethane-d4 (Surrogate)	112	%	76 - 114 (LCL - UCL)		EPA-8260			1
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)		EPA-8260			1
4-Bromofluorobenzene (Surrogate)	99.5	%	86 - 115 (LCL - UCL)		EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	03/03/11	03/03/11 20:06	JCC	MS-V4	1	BUC0165

Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1103173-01 | **Client Sample Name:** EB-01, 2/23/2011 2:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	2.0	0.24	EPA-8270C	ND		1
Acenaphthylene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Aldrin	ND	ug/L	2.0	0.35	EPA-8270C	ND		1
Aniline	ND	ug/L	5.0	0.69	EPA-8270C	ND		1
Anthracene	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Benzidine	ND	ug/L	20	7.1	EPA-8270C	ND		1
Benzo[a]anthracene	ND	ug/L	2.0	0.38	EPA-8270C	ND		1
Benzo[b]fluoranthene	ND	ug/L	2.0	0.41	EPA-8270C	ND		1
Benzo[k]fluoranthene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
Benzo[a]pyrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Benzo[g,h,i]perylene	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
Benzoic acid	ND	ug/L	10	5.8	EPA-8270C	ND		1
Benzyl alcohol	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
Benzyl butyl phthalate	ND	ug/L	2.0	0.47	EPA-8270C	ND		1
alpha-BHC	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
beta-BHC	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
delta-BHC	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
gamma-BHC (Lindane)	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
bis(2-Chloroethoxy)methane	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
bis(2-Chloroethyl) ether	ND	ug/L	2.0	0.68	EPA-8270C	ND		1
bis(2-Chloroisopropyl)ether	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.0	3.0	EPA-8270C	ND		1
4-Bromophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
4-Chloroaniline	ND	ug/L	2.0	0.69	EPA-8270C	ND		1
2-Chloronaphthalene	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
4-Chlorophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
Chrysene	ND	ug/L	2.0	0.63	EPA-8270C	ND		1
4,4'-DDD	ND	ug/L	2.0	0.48	EPA-8270C	ND		1
4,4'-DDE	ND	ug/L	3.0	0.41	EPA-8270C	ND		1
4,4'-DDT	ND	ug/L	2.0	0.43	EPA-8270C	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	3.0	0.26	EPA-8270C	ND		1
Dibenzofuran	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
1,2-Dichlorobenzene	ND	ug/L	2.0	0.37	EPA-8270C	ND		1

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1103173-01 | **Client Sample Name:** EB-01, 2/23/2011 2:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,3-Dichlorobenzene	ND	ug/L	2.0	0.35	EPA-8270C	ND		1
1,4-Dichlorobenzene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
3,3-Dichlorobenzidine	ND	ug/L	10	8.2	EPA-8270C	ND		1
Dieldrin	ND	ug/L	3.0	0.41	EPA-8270C	ND		1
Diethyl phthalate	ND	ug/L	2.0	0.33	EPA-8270C	ND		1
Dimethyl phthalate	ND	ug/L	2.0	0.39	EPA-8270C	ND		1
Di-n-butyl phthalate	ND	ug/L	2.0	0.39	EPA-8270C	ND		1
2,4-Dinitrotoluene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
2,6-Dinitrotoluene	ND	ug/L	2.0	0.41	EPA-8270C	ND		1
Di-n-octyl phthalate	ND	ug/L	2.0	0.46	EPA-8270C	ND		1
1,2-Diphenylhydrazine	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
Endosulfan I	ND	ug/L	10	1.7	EPA-8270C	ND		1
Endosulfan II	ND	ug/L	10	1.2	EPA-8270C	ND		1
Endosulfan sulfate	ND	ug/L	3.0	0.58	EPA-8270C	ND		1
Endrin	ND	ug/L	2.0	1.1	EPA-8270C	ND		1
Endrin aldehyde	ND	ug/L	10	0.52	EPA-8270C	ND		1
Fluoranthene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Fluorene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Heptachlor	ND	ug/L	2.0	0.32	EPA-8270C	ND		1
Heptachlor epoxide	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
Hexachlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Hexachlorobutadiene	ND	ug/L	2.0	0.24	EPA-8270C	ND		1
Hexachlorocyclopentadiene	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Hexachloroethane	ND	ug/L	2.0	0.32	EPA-8270C	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
Isophorone	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
2-Methylnaphthalene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Naphthalene	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
2-Naphthylamine	ND	ug/L	20	4.8	EPA-8270C	ND		1
2-Nitroaniline	ND	ug/L	2.0	0.33	EPA-8270C	ND		1
3-Nitroaniline	ND	ug/L	2.0	0.66	EPA-8270C	ND		1
4-Nitroaniline	ND	ug/L	5.0	0.87	EPA-8270C	ND		1
Nitrobenzene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1

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Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1103173-01 | **Client Sample Name:** EB-01, 2/23/2011 2:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	2.0	0.61	EPA-8270C	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.0	1.3	EPA-8270C	ND		1
N-Nitrosodiphenylamine	ND	ug/L	2.0	0.44	EPA-8270C	ND		1
Phenanthrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Pyrene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
4-Chloro-3-methylphenol	ND	ug/L	5.0	0.40	EPA-8270C	ND		1
2-Chlorophenol	ND	ug/L	2.0	0.37	EPA-8270C	ND		1
2,4-Dichlorophenol	ND	ug/L	2.0	0.43	EPA-8270C	ND		1
2,4-Dimethylphenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	10	0.34	EPA-8270C	ND		1
2,4-Dinitrophenol	ND	ug/L	10	0.20	EPA-8270C	ND		1
2-Methylphenol	ND	ug/L	2.0	1.0	EPA-8270C	ND		1
3- & 4-Methylphenol	ND	ug/L	2.0	1.6	EPA-8270C	ND		1
2-Nitrophenol	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
4-Nitrophenol	ND	ug/L	2.0	0.73	EPA-8270C	ND		1
Pentachlorophenol	ND	ug/L	10	0.79	EPA-8270C	ND		1
Phenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.31	EPA-8270C	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	0.60	EPA-8270C	ND		1
2-Fluorophenol (Surrogate)	87.5	%	28 - 85 (LCL - UCL)		EPA-8270C		S09	1
Phenol-d5 (Surrogate)	77.9	%	13 - 59 (LCL - UCL)		EPA-8270C		S09	1
Nitrobenzene-d5 (Surrogate)	96.0	%	34 - 119 (LCL - UCL)		EPA-8270C			1
2-Fluorobiphenyl (Surrogate)	97.5	%	24 - 128 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	108	%	35 - 114 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	95.1	%	10 - 185 (LCL - UCL)		EPA-8270C			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	03/01/11	03/07/11 13:44	SKC	MS-B2	1.020	BUC0262

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Sunnyvale, CA 94085

Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1103173-01 | **Client Sample Name:** EB-01, 2/23/2011 2:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - C8 - C9	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C10 - C11	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C12 - C14	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C15 - C16	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C17 - C18	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C19 - C20	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C21 - C22	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C23 - C28	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C29 - C32	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C33 - C36	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C37 - C40	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C41 - C43	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C44 plus	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH (Total)	ND	ug/L	200	100	EPA-8015CC	ND		1
Tetracosane (Surrogate)	53.0	%	37 - 134 (LCL - UCL)		EPA-8015CC			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015CC	03/01/11	03/03/11 12:19	EJB	GC-2	1.020	BUC0332

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Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Water Analysis (General Chemistry)

BCL Sample ID: 1103173-01 | **Client Sample Name:** EB-01, 2/23/2011 2:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	**530**	**mg/L**	**1.0**	**0.18**	**EPA-200.7**	**ND**	**A01**	1
Dissolved Magnesium	**1200**	**mg/L**	**0.50**	**0.16**	**EPA-200.7**	**ND**	**A01**	1
Dissolved Sodium	**9100**	**mg/L**	**5.0**	**0.50**	**EPA-200.7**	**2.2**	**A01**	1
Dissolved Potassium	**95**	**mg/L**	**10**	**1.0**	**EPA-200.7**	**ND**	**A01**	1
Bicarbonate Alkalinity as CaCO3	**770**	**mg/L**	**8.2**	**8.2**	**EPA-310.1**	**ND**		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	EPA-310.1	ND		2
Chloride	**18000**	**mg/L**	**25**	**2.5**	**EPA-300.0**	**6.3**	**A01**	3
Fluoride	**1.2**	**mg/L**	**2.5**	**0.60**	**EPA-300.0**	**ND**	**J,A01**	3
Nitrate/Nitrite as N	ND	mg/L	0.10	0.010	EPA-353.2	ND		4
Nitrate as N	ND	mg/L	5.0	0.70	EPA-300.0	ND	A01,S05	3
Sulfate	**2200**	**mg/L**	**50**	**5.0**	**EPA-300.0**	**ND**	**A01**	3
Total Dissolved Solids @ 180 C	**32000**	**mg/L**	**1000**	**1000**	**EPA-160.1**	**ND**		5
Total Cyanide	**0.0045**	**mg/L**	**0.0050**	**0.0016**	**EPA-335.4**	**ND**	**J**	6
Nitrite as N	ND	mg/L	0.050	0.0081	EPA-353.2	ND	S05	7
Total Sulfide	ND	mg/L	10	5.0	EPA-376.2	ND	A10	8
Non-Volatile Organic Carbon	**3.8**	**mg/L**	**0.60**	**0.12**	**EPA-415.1**	**0.40**	**A01**	9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	02/23/11	03/02/11 10:58	ARD	PE-OP1	10	BUC0126
2	EPA-310.1	03/02/11	03/02/11 11:01	RML	MET-1	2	BUC0197
3	EPA-300.0	02/26/11	02/26/11 04:07	LD1	IC2	50	BUB1801
4	EPA-353.2	03/04/11	03/06/11 14:33	SDU	SC-1	1	BUC0433
5	EPA-160.1	02/28/11	02/28/11 11:00	NW1	MANUAL	100	BUB1831
6	EPA-335.4	03/01/11	03/01/11 14:41	TDC	KONE-1	1	BUC0029
7	EPA-353.2	02/26/11	02/26/11 11:08	LRS	KONE-1	1	BUB1838
8	EPA-376.2	02/28/11	02/28/11 01:00	MRM	SPEC05	100	BUB1796
9	EPA-415.1	03/03/11	03/04/11 12:03	CDR	TOC2	2	BUC0322

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Sunnyvale, CA 94085

Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Water Analysis (Metals)

BCL Sample ID: 1103173-01 | **Client Sample Name:** EB-01, 2/23/2011 2:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Antimony	ND	ug/L	1000	100	EPA-6010B	ND	A10	1
Dissolved Arsenic	ND	ug/L	500	75	EPA-6010B	ND	A10	1
Dissolved Barium	**44**	**ug/L**	**100**	**12**	**EPA-6010B**	**ND**	**J,A10**	1
Dissolved Beryllium	ND	ug/L	100	10	EPA-6010B	ND	A10	1
Dissolved Cadmium	ND	ug/L	100	10	EPA-6010B	ND	A10	1
Dissolved Chromium	ND	ug/L	100	10	EPA-6010B	ND	A10	1
Dissolved Cobalt	ND	ug/L	500	50	EPA-6010B	ND	A10	1
Dissolved Copper	ND	ug/L	100	23	EPA-6010B	ND	A10	1
Dissolved Lead	**71**	**ug/L**	**500**	**50**	**EPA-6010B**	**ND**	**J,A10**	1
Dissolved Mercury	**0.10**	**ug/L**	**0.20**	**0.034**	**EPA-7470A**	**ND**	**J**	2
Dissolved Molybdenum	**65**	**ug/L**	**500**	**50**	**EPA-6010B**	**ND**	**J,A10**	1
Dissolved Nickel	**12**	**ug/L**	**100**	**12**	**EPA-6010B**	**ND**	**J,A10**	1
Dissolved Selenium	ND	ug/L	1000	110	EPA-6010B	ND	A10	1
Dissolved Silver	**19**	**ug/L**	**100**	**11**	**EPA-6010B**	**ND**	**J,A10**	1
Dissolved Thallium	ND	ug/L	1000	150	EPA-6010B	ND	A10	1
Dissolved Vanadium	ND	ug/L	100	10	EPA-6010B	ND	A10	1
Dissolved Zinc	ND	ug/L	100	59	EPA-6010B	ND	A10	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	02/23/11	03/02/11 10:58	ARD	PE-OP1	10	BUC0125
2	EPA-7470A	03/02/11	03/03/11 13:23	MEV	CETAC1	1	BUC0259

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Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Organochlorine Pesticides (EPA Method 8081)

BCL Sample ID: 1103173-02 | **Client Sample Name:** EB-02, 2/24/2011 11:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	ug/L	0.0061	0.0016	EPA-8081	ND		1
alpha-BHC	ND	ug/L	0.0061	0.0013	EPA-8081	ND	V11	1
beta-BHC	ND	ug/L	0.0061	0.0026	EPA-8081	ND		1
delta-BHC	ND	ug/L	0.0061	0.0017	EPA-8081	ND		1
gamma-BHC (Lindane)	ND	ug/L	0.0061	0.0011	EPA-8081	ND		1
Chlordane (Technical)	ND	ug/L	0.61	0.46	EPA-8081	ND		1
4,4'-DDD	ND	ug/L	0.0061	0.0021	EPA-8081	ND		1
4,4'-DDE	ND	ug/L	0.0061	0.0023	EPA-8081	ND		1
4,4'-DDT	ND	ug/L	0.0061	0.00093	EPA-8081	ND		1
Dieldrin	ND	ug/L	0.0061	0.0015	EPA-8081	ND		1
Endosulfan I	ND	ug/L	0.0061	0.0020	EPA-8081	ND		1
Endosulfan II	ND	ug/L	0.0061	0.0017	EPA-8081	ND		1
Endosulfan sulfate	ND	ug/L	0.0061	0.0032	EPA-8081	ND		1
Endrin	ND	ug/L	0.0061	0.0010	EPA-8081	ND		1
Endrin aldehyde	ND	ug/L	0.012	0.0039	EPA-8081	ND		1
Heptachlor	ND	ug/L	0.0061	0.0015	EPA-8081	ND		1
Heptachlor epoxide	ND	ug/L	0.0061	0.0012	EPA-8081	ND		1
Methoxychlor	ND	ug/L	0.0061	0.0013	EPA-8081	ND		1
Toxaphene	ND	ug/L	2.4	0.51	EPA-8081	ND		1
TCMX (Surrogate)	74.3	%	54 - 150 (LCL - UCL)		EPA-8081			1
Dibutyl chlorendate (Surrogate)	98.6	%	82 - 150 (LCL - UCL)		EPA-8081			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081	03/01/11	03/06/11 20:52	ZZZ	GC-1	1.220	BUC0386

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Sunnyvale, CA 94085

Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

PCB Analysis (EPA Method 8082)

BCL Sample ID: 1103173-02 | **Client Sample Name:** EB-02, 2/24/2011 11:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
PCB-1016	ND	ug/L	0.22	0.022	EPA-8082	ND		1
PCB-1221	ND	ug/L	0.22	0.10	EPA-8082	ND		1
PCB-1232	ND	ug/L	0.22	0.10	EPA-8082	ND		1
PCB-1242	ND	ug/L	0.22	0.11	EPA-8082	ND		1
PCB-1248	ND	ug/L	0.22	0.028	EPA-8082	ND		1
PCB-1254	ND	ug/L	0.22	0.047	EPA-8082	ND		1
PCB-1260	ND	ug/L	0.22	0.022	EPA-8082	ND		1
Total PCB's (Summation)	ND	ug/L	0.22	0.11	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	78.0	%	48 - 135 (LCL - UCL)		EPA-8082		V11	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8082	03/01/11	03/05/11 03:57	VH1	GC-6	1.124	BUC0552

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Sunnyvale, CA 94085

Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Chlorinated Herbicides (EPA Method 8151)

BCL Sample ID: 1103173-02 | **Client Sample Name:** EB-02, 2/24/2011 11:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2,4-D	ND	ug/L	0.40	0.065	EPA-8151	ND	V11	1
2,4-DB	ND	ug/L	3.0	0.32	EPA-8151	ND		1
Dalapon	ND	ug/L	10	2.4	EPA-8151	ND		1
Dicamba	**0.26**	**ug/L**	**0.080**	**0.037**	**EPA-8151**	**ND**	**V11**	1
Dichloroprop	ND	ug/L	0.50	0.012	EPA-8151	ND	V11	1
Dinoseb	ND	ug/L	0.20	0.040	EPA-8151	ND		1
2,4,5-T	ND	ug/L	0.090	0.012	EPA-8151	ND	V11	1
2,4,5-TP (Silvex)	ND	ug/L	0.070	0.016	EPA-8151	ND		1
2,4-Dichlorophenylacetic acid (Surrogate)	68.2	%	50 - 150 (LCL - UCL)		EPA-8151		V11	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8151	03/01/11	03/03/11 00:00	CC1	GC-8	1.010	BUC0391

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425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1103173-02 | **Client Sample Name:** EB-02, 2/24/2011 11:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	5.0	0.83	EPA-8260	ND	A01	1
Bromobenzene	ND	ug/L	5.0	1.3	EPA-8260	ND	A01	1
Bromochloromethane	ND	ug/L	5.0	2.4	EPA-8260	ND	A01	1
Bromodichloromethane	ND	ug/L	5.0	1.4	EPA-8260	ND	A01	1
Bromoform	ND	ug/L	5.0	2.7	EPA-8260	ND	A01	1
Bromomethane	ND	ug/L	10	2.5	EPA-8260	ND	A01	1
n-Butylbenzene	ND	ug/L	5.0	1.1	EPA-8260	ND	A01	1
sec-Butylbenzene	ND	ug/L	5.0	1.5	EPA-8260	ND	A01	1
tert-Butylbenzene	ND	ug/L	5.0	1.3	EPA-8260	ND	A01	1
Carbon tetrachloride	ND	ug/L	5.0	1.8	EPA-8260	ND	A01	1
Chlorobenzene	ND	ug/L	5.0	0.93	EPA-8260	ND	A01	1
Chloroethane	ND	ug/L	5.0	1.4	EPA-8260	ND	A01	1
Chloroform	ND	ug/L	5.0	1.2	EPA-8260	ND	A01	1
Chloromethane	ND	ug/L	5.0	1.4	EPA-8260	ND	A01	1
2-Chlorotoluene	ND	ug/L	5.0	2.0	EPA-8260	ND	A01	1
4-Chlorotoluene	ND	ug/L	5.0	1.5	EPA-8260	ND	A01	1
Dibromochloromethane	ND	ug/L	5.0	1.3	EPA-8260	ND	A01	1
1,2-Dibromo-3-chloropropane	ND	ug/L	10	4.4	EPA-8260	ND	A01	1
1,2-Dibromoethane	ND	ug/L	5.0	1.6	EPA-8260	ND	A01	1
Dibromomethane	ND	ug/L	5.0	2.4	EPA-8260	ND	A01	1
1,2-Dichlorobenzene	ND	ug/L	5.0	0.72	EPA-8260	ND	A01	1
1,3-Dichlorobenzene	ND	ug/L	5.0	1.5	EPA-8260	ND	A01	1
1,4-Dichlorobenzene	ND	ug/L	5.0	0.62	EPA-8260	ND	A01	1
Dichlorodifluoromethane	ND	ug/L	5.0	0.99	EPA-8260	ND	A01	1
1,1-Dichloroethane	**5.6**	**ug/L**	**5.0**	**1.1**	**EPA-8260**	**ND**	**A01**	1
1,2-Dichloroethane	ND	ug/L	5.0	1.7	EPA-8260	ND	A01	1
1,1-Dichloroethene	**180**	**ug/L**	**5.0**	**1.8**	**EPA-8260**	**ND**	**A01**	1
cis-1,2-Dichloroethene	**880**	**ug/L**	**5.0**	**0.85**	**EPA-8260**	**ND**	**A01**	1
trans-1,2-Dichloroethene	**8.0**	**ug/L**	**5.0**	**1.5**	**EPA-8260**	**ND**	**A01**	1
1,2-Dichloropropane	ND	ug/L	5.0	1.3	EPA-8260	ND	A01	1
1,3-Dichloropropane	ND	ug/L	5.0	0.86	EPA-8260	ND	A01	1
2,2-Dichloropropane	ND	ug/L	5.0	1.3	EPA-8260	ND	A01	1
1,1-Dichloropropene	ND	ug/L	5.0	0.85	EPA-8260	ND	A01	1

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Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1103173-02 | **Client Sample Name:** EB-02, 2/24/2011 11:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	5.0	1.4	EPA-8260	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/L	5.0	0.79	EPA-8260	ND	A01	1
Ethylbenzene	ND	ug/L	5.0	0.98	EPA-8260	ND	A01	1
Hexachlorobutadiene	ND	ug/L	5.0	1.7	EPA-8260	ND	A01	1
Isopropylbenzene	ND	ug/L	5.0	1.4	EPA-8260	ND	A01	1
p-Isopropyltoluene	ND	ug/L	5.0	1.2	EPA-8260	ND	A01	1
Methylene chloride	ND	ug/L	10	4.8	EPA-8260	ND	A01	1
Methyl t-butyl ether	ND	ug/L	5.0	1.1	EPA-8260	ND	A01	1
Naphthalene	ND	ug/L	5.0	3.6	EPA-8260	ND	A01	1
n-Propylbenzene	ND	ug/L	5.0	1.1	EPA-8260	ND	A01	1
Styrene	ND	ug/L	5.0	0.68	EPA-8260	ND	A01	1
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1.8	EPA-8260	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1.7	EPA-8260	ND	A01	1
Tetrachloroethene	ND	ug/L	5.0	1.3	EPA-8260	ND	A01	1
Toluene	ND	ug/L	5.0	0.93	EPA-8260	ND	A01	1
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1.6	EPA-8260	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1.9	EPA-8260	ND	A01	1
1,1,1-Trichloroethane	ND	ug/L	5.0	1.1	EPA-8260	ND	A01	1
1,1,2-Trichloroethane	ND	ug/L	5.0	1.6	EPA-8260	ND	A01	1
Trichloroethene	**8900**	**ug/L**	**50**	**8.5**	**EPA-8260**	**ND**	**A01**	2
Trichlorofluoromethane	ND	ug/L	5.0	1.3	EPA-8260	ND	A01	1
1,2,3-Trichloropropane	ND	ug/L	10	2.4	EPA-8260	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**94**	**ug/L**	**5.0**	**1.5**	**EPA-8260**	**ND**	**A01**	1
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1.2	EPA-8260	ND	A01	1
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1.2	EPA-8260	ND	A01	1
Vinyl chloride	**210**	**ug/L**	**5.0**	**1.2**	**EPA-8260**	**ND**	**A01**	1
Total Xylenes	ND	ug/L	10	3.6	EPA-8260	ND	A01	1
t-Amyl Methyl ether	ND	ug/L	5.0	2.5	EPA-8260	ND	A01	1
t-Butyl alcohol	ND	ug/L	100	94	EPA-8260	ND	A01	1
Diisopropyl ether	ND	ug/L	5.0	2.3	EPA-8260	ND	A01	1
1,4-Dioxane	ND	ug/L	1000	420	EPA-8260	ND	A01	1
Ethyl t-butyl ether	ND	ug/L	5.0	1.8	EPA-8260	ND	A01	1
Total Purgeable Petroleum Hydrocarbons	**12000**	**ug/L**	**500**	**72**	**Luft-GC/MS**	**ND**	**A01**	1

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Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1103173-02 | **Client Sample Name:** EB-02, 2/24/2011 11:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,2-Dichloroethane-d4 (Surrogate)	97.5	%	76 - 114 (LCL - UCL)		EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	95.7	%	76 - 114 (LCL - UCL)		EPA-8260			2
Toluene-d8 (Surrogate)	99.5	%	88 - 110 (LCL - UCL)		EPA-8260			1
Toluene-d8 (Surrogate)	98.6	%	88 - 110 (LCL - UCL)		EPA-8260			2
4-Bromofluorobenzene (Surrogate)	94.7	%	86 - 115 (LCL - UCL)		EPA-8260			1
4-Bromofluorobenzene (Surrogate)	96.8	%	86 - 115 (LCL - UCL)		EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	03/03/11	03/04/11 17:38	JCC	MS-V4	10	BUC0165
2	EPA-8260	03/03/11	03/07/11 10:09	JCC	MS-V4	100	BUC0165

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Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1103173-02 | **Client Sample Name:** EB-02, 2/24/2011 11:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	2.0	0.24	EPA-8270C	ND		1
Acenaphthylene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Aldrin	ND	ug/L	2.0	0.35	EPA-8270C	ND		1
Aniline	ND	ug/L	5.0	0.69	EPA-8270C	ND		1
Anthracene	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Benzidine	ND	ug/L	20	7.1	EPA-8270C	ND		1
Benzo[a]anthracene	ND	ug/L	2.0	0.38	EPA-8270C	ND		1
Benzo[b]fluoranthene	ND	ug/L	2.0	0.41	EPA-8270C	ND		1
Benzo[k]fluoranthene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
Benzo[a]pyrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Benzo[g,h,i]perylene	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
Benzoic acid	ND	ug/L	10	5.8	EPA-8270C	ND		1
Benzyl alcohol	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
Benzyl butyl phthalate	ND	ug/L	2.0	0.47	EPA-8270C	ND		1
alpha-BHC	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
beta-BHC	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
delta-BHC	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
gamma-BHC (Lindane)	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
bis(2-Chloroethoxy)methane	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
bis(2-Chloroethyl) ether	ND	ug/L	2.0	0.68	EPA-8270C	ND		1
bis(2-Chloroisopropyl)ether	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.0	3.0	EPA-8270C	ND		1
4-Bromophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
4-Chloroaniline	ND	ug/L	2.0	0.69	EPA-8270C	ND		1
2-Chloronaphthalene	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
4-Chlorophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
Chrysene	ND	ug/L	2.0	0.63	EPA-8270C	ND		1
4,4'-DDD	ND	ug/L	2.0	0.48	EPA-8270C	ND		1
4,4'-DDE	ND	ug/L	3.0	0.41	EPA-8270C	ND		1
4,4'-DDT	ND	ug/L	2.0	0.43	EPA-8270C	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	3.0	0.26	EPA-8270C	ND		1
Dibenzofuran	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
1,2-Dichlorobenzene	ND	ug/L	2.0	0.37	EPA-8270C	ND		1

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Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1103173-02 | **Client Sample Name:** EB-02, 2/24/2011 11:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,3-Dichlorobenzene	ND	ug/L	2.0	0.35	EPA-8270C	ND		1
1,4-Dichlorobenzene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
3,3-Dichlorobenzidine	ND	ug/L	10	8.2	EPA-8270C	ND		1
Dieldrin	ND	ug/L	3.0	0.41	EPA-8270C	ND		1
Diethyl phthalate	ND	ug/L	2.0	0.33	EPA-8270C	ND		1
Dimethyl phthalate	ND	ug/L	2.0	0.39	EPA-8270C	ND		1
Di-n-butyl phthalate	ND	ug/L	2.0	0.39	EPA-8270C	ND		1
2,4-Dinitrotoluene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
2,6-Dinitrotoluene	ND	ug/L	2.0	0.41	EPA-8270C	ND		1
Di-n-octyl phthalate	ND	ug/L	2.0	0.46	EPA-8270C	ND		1
1,2-Diphenylhydrazine	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
Endosulfan I	ND	ug/L	10	1.7	EPA-8270C	ND		1
Endosulfan II	ND	ug/L	10	1.2	EPA-8270C	ND		1
Endosulfan sulfate	ND	ug/L	3.0	0.58	EPA-8270C	ND		1
Endrin	ND	ug/L	2.0	1.1	EPA-8270C	ND		1
Endrin aldehyde	ND	ug/L	10	0.52	EPA-8270C	ND		1
Fluoranthene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Fluorene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Heptachlor	ND	ug/L	2.0	0.32	EPA-8270C	ND		1
Heptachlor epoxide	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
Hexachlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Hexachlorobutadiene	ND	ug/L	2.0	0.24	EPA-8270C	ND		1
Hexachlorocyclopentadiene	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Hexachloroethane	ND	ug/L	2.0	0.32	EPA-8270C	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
Isophorone	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
2-Methylnaphthalene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Naphthalene	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
2-Naphthylamine	ND	ug/L	20	4.8	EPA-8270C	ND		1
2-Nitroaniline	ND	ug/L	2.0	0.33	EPA-8270C	ND		1
3-Nitroaniline	ND	ug/L	2.0	0.66	EPA-8270C	ND		1
4-Nitroaniline	ND	ug/L	5.0	0.87	EPA-8270C	ND		1
Nitrobenzene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1

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Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1103173-02 | **Client Sample Name:** EB-02, 2/24/2011 11:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	2.0	0.61	EPA-8270C	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.0	1.3	EPA-8270C	ND		1
N-Nitrosodiphenylamine	ND	ug/L	2.0	0.44	EPA-8270C	ND		1
Phenanthrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Pyrene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
4-Chloro-3-methylphenol	ND	ug/L	5.0	0.40	EPA-8270C	ND		1
2-Chlorophenol	ND	ug/L	2.0	0.37	EPA-8270C	ND		1
2,4-Dichlorophenol	ND	ug/L	2.0	0.43	EPA-8270C	ND		1
2,4-Dimethylphenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	10	0.34	EPA-8270C	ND		1
2,4-Dinitrophenol	ND	ug/L	10	0.20	EPA-8270C	ND		1
2-Methylphenol	ND	ug/L	2.0	1.0	EPA-8270C	ND		1
3- & 4-Methylphenol	ND	ug/L	2.0	1.6	EPA-8270C	ND		1
2-Nitrophenol	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
4-Nitrophenol	ND	ug/L	2.0	0.73	EPA-8270C	ND		1
Pentachlorophenol	ND	ug/L	10	0.79	EPA-8270C	ND		1
Phenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.31	EPA-8270C	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	0.60	EPA-8270C	ND		1
2-Fluorophenol (Surrogate)	80.0	%	28 - 85 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	69.7	%	13 - 59 (LCL - UCL)		EPA-8270C		S09	1
Nitrobenzene-d5 (Surrogate)	88.2	%	34 - 119 (LCL - UCL)		EPA-8270C			1
2-Fluorobiphenyl (Surrogate)	88.8	%	24 - 128 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	103	%	35 - 114 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	98.5	%	10 - 185 (LCL - UCL)		EPA-8270C			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	03/01/11	03/07/11 14:12	SKC	MS-B2	1	BUC0262

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Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1103173-02 | **Client Sample Name:** EB-02, 2/24/2011 11:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - C8 - C9	ND	ug/L	11	5.6	EPA-8015CC	ND		1
TPH - C10 - C11	ND	ug/L	11	5.6	EPA-8015CC	ND		1
TPH - C12 - C14	ND	ug/L	11	5.6	EPA-8015CC	ND		1
TPH - C15 - C16	ND	ug/L	11	5.6	EPA-8015CC	ND		1
TPH - C17 - C18	ND	ug/L	11	5.6	EPA-8015CC	ND		1
TPH - C19 - C20	ND	ug/L	11	5.6	EPA-8015CC	ND		1
TPH - C21 - C22	ND	ug/L	11	5.6	EPA-8015CC	ND		1
TPH - C23 - C28	ND	ug/L	11	5.6	EPA-8015CC	ND		1
TPH - C29 - C32	ND	ug/L	11	5.6	EPA-8015CC	ND		1
TPH - C33 - C36	ND	ug/L	11	5.6	EPA-8015CC	ND		1
TPH - C37 - C40	ND	ug/L	11	5.6	EPA-8015CC	ND		1
TPH - C41 - C43	ND	ug/L	11	5.6	EPA-8015CC	ND		1
TPH - C44 plus	ND	ug/L	11	5.6	EPA-8015CC	ND		1
TPH (Total)	ND	ug/L	220	110	EPA-8015CC	ND		1
Tetracosane (Surrogate)	63.9	%	37 - 134 (LCL - UCL)		EPA-8015CC			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015CC	03/01/11	03/03/11 12:43	EJB	GC-2	1.111	BUC0332

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Sunnyvale, CA 94085

Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Water Analysis (General Chemistry)

BCL Sample ID: 1103173-02 | **Client Sample Name:** EB-02, 2/24/2011 11:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	**160**	**mg/L**	**1.0**	**0.18**	**EPA-200.7**	**ND**	**A01**	1
Dissolved Magnesium	**450**	**mg/L**	**0.50**	**0.16**	**EPA-200.7**	**ND**	**A01**	1
Dissolved Sodium	**6400**	**mg/L**	**5.0**	**0.50**	**EPA-200.7**	**2.2**	**A01**	1
Dissolved Potassium	**62**	**mg/L**	**10**	**1.0**	**EPA-200.7**	**ND**	**A01**	1
Bicarbonate Alkalinity as CaCO3	**1400**	**mg/L**	**8.2**	**8.2**	**EPA-310.1**	**ND**		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	EPA-310.1	ND		2
Chloride	**11000**	**mg/L**	**25**	**2.5**	**EPA-300.0**	**6.3**	**A01**	3
Fluoride	**1.7**	**mg/L**	**2.5**	**0.60**	**EPA-300.0**	**ND**	**J,A01**	3
Nitrate/Nitrite as N	ND	mg/L	0.10	0.010	EPA-353.2	ND		4
Nitrate as N	ND	mg/L	5.0	0.70	EPA-300.0	ND	A01	3
Sulfate	**1100**	**mg/L**	**50**	**5.0**	**EPA-300.0**	**ND**	**A01**	3
Total Dissolved Solids @ 180 C	**22000**	**mg/L**	**1000**	**1000**	**EPA-160.1**	**ND**		5
Total Cyanide	**0.0039**	**mg/L**	**0.0050**	**0.0016**	**EPA-335.4**	**ND**	**J**	6
Nitrite as N	ND	mg/L	0.050	0.0081	EPA-353.2	ND		7
Total Sulfide	ND	mg/L	0.10	0.050	EPA-376.2	ND		8
Non-Volatile Organic Carbon	**23**	**mg/L**	**3.0**	**0.62**	**EPA-415.1**	**2.0**	**A01**	9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	02/24/11	03/02/11 11:01	ARD	PE-OP1	10	BUC0126
2	EPA-310.1	03/02/11	03/02/11 11:07	RML	MET-1	2	BUC0197
3	EPA-300.0	02/26/11	02/26/11 04:20	LD1	IC2	50	BUB1801
4	EPA-353.2	03/04/11	03/06/11 15:04	SDU	SC-1	1	BUC0434
5	EPA-160.1	02/28/11	02/28/11 11:00	NW1	MANUAL	100	BUB1831
6	EPA-335.4	03/01/11	03/01/11 14:41	TDC	KONE-1	1	BUC0029
7	EPA-353.2	02/26/11	02/26/11 11:08	LRS	KONE-1	1	BUB1838
8	EPA-376.2	02/28/11	02/28/11 01:00	MRM	SPEC05	1	BUB1796
9	EPA-415.1	03/03/11	03/03/11 21:08	CDR	TOC2	10	BUC0322

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425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Water Analysis (Metals)

BCL Sample ID: 1103173-02 | **Client Sample Name:** EB-02, 2/24/2011 11:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Antimony	ND	ug/L	1000	100	EPA-6010B	ND	A10	1
Dissolved Arsenic	ND	ug/L	500	75	EPA-6010B	ND	A10	1
Dissolved Barium	**53**	**ug/L**	**100**	**12**	**EPA-6010B**	**ND**	**J,A10**	1
Dissolved Beryllium	ND	ug/L	100	10	EPA-6010B	ND	A10	1
Dissolved Cadmium	ND	ug/L	100	10	EPA-6010B	ND	A10	1
Dissolved Chromium	ND	ug/L	100	10	EPA-6010B	ND	A10	1
Dissolved Cobalt	ND	ug/L	500	50	EPA-6010B	ND	A10	1
Dissolved Copper	ND	ug/L	100	23	EPA-6010B	ND	A10	1
Dissolved Lead	ND	ug/L	500	50	EPA-6010B	ND	A10	1
Dissolved Mercury	**0.048**	**ug/L**	**0.20**	**0.034**	**EPA-7470A**	**ND**	**J**	2
Dissolved Molybdenum	**84**	**ug/L**	**500**	**50**	**EPA-6010B**	**ND**	**J,A10**	1
Dissolved Nickel	**57**	**ug/L**	**100**	**12**	**EPA-6010B**	**ND**	**J,A10**	1
Dissolved Selenium	ND	ug/L	1000	110	EPA-6010B	ND	A10	1
Dissolved Silver	ND	ug/L	100	11	EPA-6010B	ND	A10	1
Dissolved Thallium	ND	ug/L	1000	150	EPA-6010B	ND	A10	1
Dissolved Vanadium	ND	ug/L	100	10	EPA-6010B	ND	A10	1
Dissolved Zinc	ND	ug/L	100	59	EPA-6010B	ND	A10	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	02/24/11	03/02/11 11:01	ARD	PE-OP1	10	BUC0125
2	EPA-7470A	03/02/11	03/03/11 13:25	MEV	CETAC1	1	BUC0259

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Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Organochlorine Pesticides (EPA Method 8081)

BCL Sample ID: 1103173-03 | **Client Sample Name:** EB-03, 2/24/2011 4:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	ug/L	0.0050	0.0013	EPA-8081	ND		1
alpha-BHC	ND	ug/L	0.0050	0.0011	EPA-8081	ND	V11	1
beta-BHC	ND	ug/L	0.0050	0.0021	EPA-8081	ND		1
delta-BHC	ND	ug/L	0.0050	0.0014	EPA-8081	ND		1
gamma-BHC (Lindane)	ND	ug/L	0.0050	0.00094	EPA-8081	ND		1
Chlordane (Technical)	ND	ug/L	0.50	0.38	EPA-8081	ND		1
4,4'-DDD	ND	ug/L	0.0050	0.0017	EPA-8081	ND		1
4,4'-DDE	ND	ug/L	0.0050	0.0019	EPA-8081	ND		1
4,4'-DDT	ND	ug/L	0.0050	0.00076	EPA-8081	ND		1
Dieldrin	ND	ug/L	0.0050	0.0012	EPA-8081	ND		1
Endosulfan I	ND	ug/L	0.0050	0.0016	EPA-8081	ND		1
Endosulfan II	ND	ug/L	0.0050	0.0014	EPA-8081	ND		1
Endosulfan sulfate	ND	ug/L	0.0050	0.0026	EPA-8081	ND		1
Endrin	ND	ug/L	0.0050	0.00082	EPA-8081	ND		1
Endrin aldehyde	ND	ug/L	0.010	0.0032	EPA-8081	ND		1
Heptachlor	ND	ug/L	0.0050	0.0012	EPA-8081	ND		1
Heptachlor epoxide	ND	ug/L	0.0050	0.00099	EPA-8081	ND		1
Methoxychlor	ND	ug/L	0.0050	0.0011	EPA-8081	ND		1
Toxaphene	ND	ug/L	2.0	0.42	EPA-8081	ND		1
TCMX (Surrogate)	79.8	%	54 - 150 (LCL - UCL)		EPA-8081			1
Dibutyl chlorendate (Surrogate)	90.3	%	82 - 150 (LCL - UCL)		EPA-8081			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081	03/01/11	03/06/11 21:08	ZZZ	GC-1	1.064	BUC0386

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Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

PCB Analysis (EPA Method 8082)

BCL Sample ID: 1103173-03 | **Client Sample Name:** EB-03, 2/24/2011 4:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
PCB-1016	ND	ug/L	0.20	0.020	EPA-8082	ND		1
PCB-1221	ND	ug/L	0.20	0.089	EPA-8082	ND		1
PCB-1232	ND	ug/L	0.20	0.090	EPA-8082	ND		1
PCB-1242	ND	ug/L	0.20	0.095	EPA-8082	ND		1
PCB-1248	ND	ug/L	0.20	0.025	EPA-8082	ND		1
PCB-1254	ND	ug/L	0.20	0.042	EPA-8082	ND		1
PCB-1260	ND	ug/L	0.20	0.020	EPA-8082	ND		1
Total PCB's (Summation)	ND	ug/L	0.20	0.10	EPA-8082	ND		1
Decachlorobiphenyl (Surrogate)	84.0	%	48 - 135 (LCL - UCL)		EPA-8082		V11	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8082	03/01/11	03/05/11 04:14	VH1	GC-6	1	BUC0552

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Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Chlorinated Herbicides (EPA Method 8151)

BCL Sample ID: 1103173-03 | **Client Sample Name:** EB-03, 2/24/2011 4:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2,4-D	ND	ug/L	0.40	0.065	EPA-8151	ND	V11	1
2,4-DB	ND	ug/L	3.0	0.32	EPA-8151	ND		1
Dalapon	ND	ug/L	10	2.4	EPA-8151	ND		1
Dicamba	ND	ug/L	0.080	0.037	EPA-8151	ND	V11	1
Dichloroprop	ND	ug/L	0.50	0.012	EPA-8151	ND	V11	1
Dinoseb	ND	ug/L	0.20	0.040	EPA-8151	ND		1
2,4,5-T	ND	ug/L	0.090	0.012	EPA-8151	ND	V11	1
2,4,5-TP (Silvex)	ND	ug/L	0.070	0.016	EPA-8151	ND		1
2,4-Dichlorophenylacetic acid (Surrogate)	53.2	%	50 - 150 (LCL - UCL)		EPA-8151		V11	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8151	03/01/11	03/03/11 00:21	CC1	GC-8	1.010	BUC0391

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Sunnyvale, CA 94085

Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1103173-03 | **Client Sample Name:** EB-03, 2/24/2011 4:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-8260	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-8260	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-8260	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-8260	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-8260	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-8260	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-8260	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-8260	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-8260	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-8260	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-8260	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-8260	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-8260	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-8260	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-8260	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-8260	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-8260	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-8260	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-8260	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-8260	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-8260	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-8260	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-8260	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-8260	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-8260	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-8260	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-8260	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-8260	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-8260	ND		1

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Sunnyvale, CA 94085

Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1103173-03 | **Client Sample Name:** EB-03, 2/24/2011 4:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-8260	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-8260	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-8260	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-8260	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-8260	ND		1
Methylene chloride	ND	ug/L	1.0	0.48	EPA-8260	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-8260	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-8260	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-8260	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-8260	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-8260	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-8260	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-8260	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-8260	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-8260	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-8260	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-8260	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-8260	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-8260	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-8260	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-8260	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-8260	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-8260	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	0.36	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-8260	ND		1
1,4-Dioxane	ND	ug/L	100	42	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	7.2	Luft-GC/MS	ND		1

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Sunnyvale, CA 94085

Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1103173-03 | **Client Sample Name:** EB-03, 2/24/2011 4:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,2-Dichloroethane-d4 (Surrogate)	122	%	76 - 114 (LCL - UCL)		EPA-8260		A19,S09	1
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)		EPA-8260			1
4-Bromofluorobenzene (Surrogate)	98.3	%	86 - 115 (LCL - UCL)		EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	03/03/11	03/04/11 12:22	JCC	MS-V4	1	BUC0165

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Sunnyvale, CA 94085

Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1103173-03 | **Client Sample Name:** EB-03, 2/24/2011 4:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	2.0	0.24	EPA-8270C	ND		1
Acenaphthylene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Aldrin	ND	ug/L	2.0	0.35	EPA-8270C	ND		1
Aniline	ND	ug/L	5.0	0.69	EPA-8270C	ND		1
Anthracene	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Benzidine	ND	ug/L	20	7.1	EPA-8270C	ND		1
Benzo[a]anthracene	ND	ug/L	2.0	0.38	EPA-8270C	ND		1
Benzo[b]fluoranthene	ND	ug/L	2.0	0.41	EPA-8270C	ND		1
Benzo[k]fluoranthene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
Benzo[a]pyrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Benzo[g,h,i]perylene	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
Benzoic acid	ND	ug/L	10	5.8	EPA-8270C	ND		1
Benzyl alcohol	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
Benzyl butyl phthalate	ND	ug/L	2.0	0.47	EPA-8270C	ND		1
alpha-BHC	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
beta-BHC	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
delta-BHC	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
gamma-BHC (Lindane)	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
bis(2-Chloroethoxy)methane	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
bis(2-Chloroethyl) ether	ND	ug/L	2.0	0.68	EPA-8270C	ND		1
bis(2-Chloroisopropyl)ether	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.0	3.0	EPA-8270C	ND		1
4-Bromophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
4-Chloroaniline	ND	ug/L	2.0	0.69	EPA-8270C	ND		1
2-Chloronaphthalene	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
4-Chlorophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
Chrysene	ND	ug/L	2.0	0.63	EPA-8270C	ND		1
4,4'-DDD	ND	ug/L	2.0	0.48	EPA-8270C	ND		1
4,4'-DDE	ND	ug/L	3.0	0.41	EPA-8270C	ND		1
4,4'-DDT	ND	ug/L	2.0	0.43	EPA-8270C	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	3.0	0.26	EPA-8270C	ND		1
Dibenzofuran	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
1,2-Dichlorobenzene	ND	ug/L	2.0	0.37	EPA-8270C	ND		1

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425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1103173-03 | **Client Sample Name:** EB-03, 2/24/2011 4:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,3-Dichlorobenzene	ND	ug/L	2.0	0.35	EPA-8270C	ND		1
1,4-Dichlorobenzene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
3,3-Dichlorobenzidine	ND	ug/L	10	8.2	EPA-8270C	ND		1
Dieldrin	ND	ug/L	3.0	0.41	EPA-8270C	ND		1
Diethyl phthalate	ND	ug/L	2.0	0.33	EPA-8270C	ND		1
Dimethyl phthalate	ND	ug/L	2.0	0.39	EPA-8270C	ND		1
Di-n-butyl phthalate	ND	ug/L	2.0	0.39	EPA-8270C	ND		1
2,4-Dinitrotoluene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
2,6-Dinitrotoluene	ND	ug/L	2.0	0.41	EPA-8270C	ND		1
Di-n-octyl phthalate	ND	ug/L	2.0	0.46	EPA-8270C	ND		1
1,2-Diphenylhydrazine	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
Endosulfan I	ND	ug/L	10	1.7	EPA-8270C	ND		1
Endosulfan II	ND	ug/L	10	1.2	EPA-8270C	ND		1
Endosulfan sulfate	ND	ug/L	3.0	0.58	EPA-8270C	ND		1
Endrin	ND	ug/L	2.0	1.1	EPA-8270C	ND		1
Endrin aldehyde	ND	ug/L	10	0.52	EPA-8270C	ND		1
Fluoranthene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Fluorene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Heptachlor	ND	ug/L	2.0	0.32	EPA-8270C	ND		1
Heptachlor epoxide	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
Hexachlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Hexachlorobutadiene	ND	ug/L	2.0	0.24	EPA-8270C	ND		1
Hexachlorocyclopentadiene	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Hexachloroethane	ND	ug/L	2.0	0.32	EPA-8270C	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
Isophorone	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
2-Methylnaphthalene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Naphthalene	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
2-Naphthylamine	ND	ug/L	20	4.8	EPA-8270C	ND		1
2-Nitroaniline	ND	ug/L	2.0	0.33	EPA-8270C	ND		1
3-Nitroaniline	ND	ug/L	2.0	0.66	EPA-8270C	ND		1
4-Nitroaniline	ND	ug/L	5.0	0.87	EPA-8270C	ND		1
Nitrobenzene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1

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425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1103173-03 | **Client Sample Name:** EB-03, 2/24/2011 4:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	2.0	0.61	EPA-8270C	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.0	1.3	EPA-8270C	ND		1
N-Nitrosodiphenylamine	ND	ug/L	2.0	0.44	EPA-8270C	ND		1
Phenanthrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Pyrene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
4-Chloro-3-methylphenol	ND	ug/L	5.0	0.40	EPA-8270C	ND		1
2-Chlorophenol	ND	ug/L	2.0	0.37	EPA-8270C	ND		1
2,4-Dichlorophenol	ND	ug/L	2.0	0.43	EPA-8270C	ND		1
2,4-Dimethylphenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	10	0.34	EPA-8270C	ND		1
2,4-Dinitrophenol	ND	ug/L	10	0.20	EPA-8270C	ND		1
2-Methylphenol	ND	ug/L	2.0	1.0	EPA-8270C	ND		1
3- & 4-Methylphenol	ND	ug/L	2.0	1.6	EPA-8270C	ND		1
2-Nitrophenol	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
4-Nitrophenol	ND	ug/L	2.0	0.73	EPA-8270C	ND		1
Pentachlorophenol	ND	ug/L	10	0.79	EPA-8270C	ND		1
Phenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.31	EPA-8270C	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	0.60	EPA-8270C	ND		1
2-Fluorophenol (Surrogate)	73.5	%	28 - 85 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	74.4	%	13 - 59 (LCL - UCL)		EPA-8270C		S09	1
Nitrobenzene-d5 (Surrogate)	91.0	%	34 - 119 (LCL - UCL)		EPA-8270C			1
2-Fluorobiphenyl (Surrogate)	88.5	%	24 - 128 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	93.6	%	35 - 114 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	87.9	%	10 - 185 (LCL - UCL)		EPA-8270C			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	03/01/11	03/07/11 14:39	SKC	MS-B2	0.990	BUC0262

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Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1103173-03 | **Client Sample Name:** EB-03, 2/24/2011 4:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - C8 - C9	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C10 - C11	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C12 - C14	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C15 - C16	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C17 - C18	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C19 - C20	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C21 - C22	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C23 - C28	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C29 - C32	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C33 - C36	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C37 - C40	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C41 - C43	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH - C44 plus	ND	ug/L	10	5.0	EPA-8015CC	ND		1
TPH (Total)	ND	ug/L	200	100	EPA-8015CC	ND		1
Tetracosane (Surrogate)	52.8	%	37 - 134 (LCL - UCL)		EPA-8015CC			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015CC	03/01/11	03/03/11 13:06	EJB	GC-2	1.053	BUC0332

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425 Lakeside Drive
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Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Water Analysis (General Chemistry)

BCL Sample ID: 1103173-03 | **Client Sample Name:** EB-03, 2/24/2011 4:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	**410**	**mg/L**	**1.0**	**0.18**	**EPA-200.7**	**ND**	**A01**	1
Dissolved Magnesium	**990**	**mg/L**	**0.50**	**0.16**	**EPA-200.7**	**ND**	**A01**	1
Dissolved Sodium	**8500**	**mg/L**	**5.0**	**0.50**	**EPA-200.7**	**2.2**	**A01**	1
Dissolved Potassium	**250**	**mg/L**	**10**	**1.0**	**EPA-200.7**	**ND**	**A01**	1
Bicarbonate Alkalinity as CaCO3	**730**	**mg/L**	**8.2**	**8.2**	**EPA-310.1**	**ND**		2
Carbonate Alkalinity as CaCO3	ND	mg/L	8.2	8.2	EPA-310.1	ND		2
Chloride	**16000**	**mg/L**	**25**	**2.5**	**EPA-300.0**	**6.3**	**A01**	3
Fluoride	**2.2**	**mg/L**	**2.5**	**0.60**	**EPA-300.0**	**ND**	**J,A01**	3
Nitrate/Nitrite as N	ND	mg/L	0.10	0.010	EPA-353.2	ND		4
Nitrate as N	ND	mg/L	5.0	0.70	EPA-300.0	ND	A01	3
Sulfate	**2700**	**mg/L**	**50**	**5.0**	**EPA-300.0**	**ND**	**A01**	3
Total Dissolved Solids @ 180 C	**31000**	**mg/L**	**1000**	**1000**	**EPA-160.1**	**ND**		5
Total Cyanide	**0.0025**	**mg/L**	**0.0050**	**0.0016**	**EPA-335.4**	**ND**	**J**	6
Nitrite as N	ND	mg/L	0.050	0.0081	EPA-353.2	ND		7
Total Sulfide	ND	mg/L	20	10	EPA-376.2	ND	A10	8
Non-Volatile Organic Carbon	**4.9**	**mg/L**	**1.5**	**0.31**	**EPA-415.1**	**1.0**	**A01**	9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	02/24/11	03/02/11 11:05	ARD	PE-OP1	10	BUC0126
2	EPA-310.1	03/02/11	03/02/11 11:30	RML	MET-1	2	BUC0198
3	EPA-300.0	02/26/11	02/26/11 05:01	LD1	IC2	50	BUB1801
4	EPA-353.2	03/04/11	03/06/11 15:06	SDU	SC-1	1	BUC0434
5	EPA-160.1	02/28/11	02/28/11 11:00	NW1	MANUAL	100	BUB1831
6	EPA-335.4	03/01/11	03/01/11 14:41	TDC	KONE-1	1	BUC0029
7	EPA-353.2	02/26/11	02/26/11 11:08	LRS	KONE-1	1	BUB1838
8	EPA-376.2	02/28/11	02/28/11 01:00	MRM	SPEC05	200	BUB1796
9	EPA-415.1	03/03/11	03/04/11 14:16	CDR	TOC2	5	BUC0322

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Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Water Analysis (Metals)

BCL Sample ID: 1103173-03 | **Client Sample Name:** EB-03, 2/24/2011 4:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Antimony	ND	ug/L	1000	100	EPA-6010B	ND	A10	1
Dissolved Arsenic	ND	ug/L	500	75	EPA-6010B	ND	A10	1
Dissolved Barium	**93**	**ug/L**	**100**	**12**	**EPA-6010B**	**ND**	**J,A10**	1
Dissolved Beryllium	ND	ug/L	100	10	EPA-6010B	ND	A10	1
Dissolved Cadmium	ND	ug/L	100	10	EPA-6010B	ND	A10	1
Dissolved Chromium	ND	ug/L	100	10	EPA-6010B	ND	A10	1
Dissolved Cobalt	ND	ug/L	500	50	EPA-6010B	ND	A10	1
Dissolved Copper	ND	ug/L	100	23	EPA-6010B	ND	A10	1
Dissolved Lead	ND	ug/L	500	50	EPA-6010B	ND	A10	1
Dissolved Mercury	**0.080**	**ug/L**	**0.20**	**0.034**	**EPA-7470A**	**ND**	**J**	2
Dissolved Molybdenum	**82**	**ug/L**	**500**	**50**	**EPA-6010B**	**ND**	**J,A10**	1
Dissolved Nickel	ND	ug/L	100	12	EPA-6010B	ND	A10	1
Dissolved Selenium	ND	ug/L	1000	110	EPA-6010B	ND	A10	1
Dissolved Silver	**20**	**ug/L**	**100**	**11**	**EPA-6010B**	**ND**	**J,A10**	1
Dissolved Thallium	ND	ug/L	1000	150	EPA-6010B	ND	A10	1
Dissolved Vanadium	ND	ug/L	100	10	EPA-6010B	ND	A10	1
Dissolved Zinc	ND	ug/L	100	59	EPA-6010B	ND	A10	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	02/24/11	03/02/11 11:05	ARD	PE-OP1	10	BUC0125
2	EPA-7470A	03/02/11	03/03/11 13:27	MEV	CETAC1	1	BUC0259

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Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1103173-04 | **Client Sample Name:** TB, 2/24/2011 4:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-8260	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-8260	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-8260	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-8260	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-8260	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-8260	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-8260	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-8260	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-8260	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-8260	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-8260	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-8260	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-8260	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-8260	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-8260	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-8260	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-8260	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-8260	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-8260	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-8260	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-8260	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-8260	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-8260	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-8260	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-8260	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-8260	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-8260	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-8260	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-8260	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-8260	ND		1

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Sunnyvale, CA 94085

Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1103173-04 | **Client Sample Name:** TB, 2/24/2011 4:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-8260	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-8260	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-8260	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-8260	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-8260	ND		1
Methylene chloride	ND	ug/L	1.0	0.48	EPA-8260	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-8260	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-8260	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-8260	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-8260	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-8260	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-8260	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-8260	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-8260	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-8260	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-8260	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-8260	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-8260	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-8260	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-8260	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-8260	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-8260	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-8260	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	0.36	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	0.23	EPA-8260	ND		1
1,4-Dioxane	ND	ug/L	100	42	EPA-8260	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	7.2	Luft-GC/MS	ND		1

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Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1103173-04 | **Client Sample Name:** TB, 2/24/2011 4:15:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,2-Dichloroethane-d4 (Surrogate)	95.6	%	76 - 114 (LCL - UCL)		EPA-8260			1
Toluene-d8 (Surrogate)	98.8	%	88 - 110 (LCL - UCL)		EPA-8260			1
4-Bromofluorobenzene (Surrogate)	95.8	%	86 - 115 (LCL - UCL)		EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	03/03/11	03/03/11 19:38	JCC	MS-V4	1	BUC0165

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425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Organochlorine Pesticides (EPA Method 8081)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC0386						
Aldrin	BUC0386-BLK1	ND	ug/L	0.0050	0.0013	
alpha-BHC	BUC0386-BLK1	ND	ug/L	0.0050	0.0011	
beta-BHC	BUC0386-BLK1	ND	ug/L	0.0050	0.0021	
delta-BHC	BUC0386-BLK1	ND	ug/L	0.0050	0.0014	
gamma-BHC (Lindane)	BUC0386-BLK1	ND	ug/L	0.0050	0.00094	
Chlordane (Technical)	BUC0386-BLK1	ND	ug/L	0.50	0.38	
4,4'-DDD	BUC0386-BLK1	ND	ug/L	0.0050	0.0017	
4,4'-DDE	BUC0386-BLK1	ND	ug/L	0.0050	0.0019	
4,4'-DDT	BUC0386-BLK1	ND	ug/L	0.0050	0.00076	
Dieldrin	BUC0386-BLK1	ND	ug/L	0.0050	0.0012	
Endosulfan I	BUC0386-BLK1	ND	ug/L	0.0050	0.0016	
Endosulfan II	BUC0386-BLK1	ND	ug/L	0.0050	0.0014	
Endosulfan sulfate	BUC0386-BLK1	ND	ug/L	0.0050	0.0026	
Endrin	BUC0386-BLK1	ND	ug/L	0.0050	0.00082	
Endrin aldehyde	BUC0386-BLK1	ND	ug/L	0.010	0.0032	
Heptachlor	BUC0386-BLK1	ND	ug/L	0.0050	0.0012	
Heptachlor epoxide	BUC0386-BLK1	ND	ug/L	0.0050	0.00099	
Methoxychlor	BUC0386-BLK1	ND	ug/L	0.0050	0.0011	
Toxaphene	BUC0386-BLK1	ND	ug/L	2.0	0.42	
TCMX (Surrogate)	BUC0386-BLK1	76.3	%	54 - 150 (LCL - UCL)		
Dibutyl chlorendate (Surrogate)	BUC0386-BLK1	90.0	%	82 - 150 (LCL - UCL)		

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Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Organochlorine Pesticides (EPA Method 8081)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUC0386										
Aldrin	BUC0386-BS1	LCS	0.12986	0.15000	ug/L	86.6		70 - 111		
gamma-BHC (Lindane)	BUC0386-BS1	LCS	0.12606	0.15000	ug/L	84.0		50 - 120		
4,4'-DDT	BUC0386-BS1	LCS	0.13868	0.15000	ug/L	92.5		58 - 116		
Dieldrin	BUC0386-BS1	LCS	0.13689	0.15000	ug/L	91.3		66 - 127		
Endrin	BUC0386-BS1	LCS	0.16004	0.15000	ug/L	107		61 - 152		
Heptachlor	BUC0386-BS1	LCS	0.14297	0.15000	ug/L	95.3		66 - 115		
TCMX (Surrogate)	BUC0386-BS1	LCS	0.21857	0.30000	ug/L	72.9		54 - 150		
Dibutyl chlorendate (Surrogate)	BUC0386-BS1	LCS	0.67134	0.75000	ug/L	89.5		82 - 150		

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Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Organochlorine Pesticides (EPA Method 8081)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC0386	Used client sample: N										
Aldrin	MS	1102229-03	ND	0.13141	0.15000	ug/L		87.6		67 - 114	
	MSD	1102229-03	ND	0.14076	0.15000	ug/L	6.9	93.8	22	67 - 114	
gamma-BHC (Lindane)	MS	1102229-03	ND	0.13131	0.15000	ug/L		87.5		46 - 120	
	MSD	1102229-03	ND	0.13881	0.15000	ug/L	5.6	92.5	21	46 - 120	
4,4'-DDT	MS	1102229-03	ND	0.14418	0.15000	ug/L		96.1		48 - 122	
	MSD	1102229-03	ND	0.15163	0.15000	ug/L	5.0	101	20	48 - 122	
Dieldrin	MS	1102229-03	ND	0.14224	0.15000	ug/L		94.8		66 - 122	
	MSD	1102229-03	ND	0.14569	0.15000	ug/L	2.4	97.1	20	66 - 122	
Endrin	MS	1102229-03	ND	0.16936	0.15000	ug/L		113		57 - 152	
	MSD	1102229-03	ND	0.17581	0.15000	ug/L	3.7	117	20	57 - 152	
Heptachlor	MS	1102229-03	ND	0.13740	0.15000	ug/L		91.6		64 - 118	
	MSD	1102229-03	ND	0.15044	0.15000	ug/L	9.1	100	20	64 - 118	
TCMX (Surrogate)	MS	1102229-03	ND	0.21252	0.30000	ug/L		70.8		54 - 150	
	MSD	1102229-03	ND	0.26358	0.30000	ug/L	21.4	87.9		54 - 150	
Dibutyl chlorendate (Surrogate)	MS	1102229-03	ND	0.74636	0.75000	ug/L		99.5		82 - 150	
	MSD	1102229-03	ND	0.76778	0.75000	ug/L	2.8	102		82 - 150	

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Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

PCB Analysis (EPA Method 8082)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC0552						
PCB-1016	BUC0552-BLK1	ND	ug/L	0.20	0.020	
PCB-1221	BUC0552-BLK1	ND	ug/L	0.20	0.089	
PCB-1232	BUC0552-BLK1	ND	ug/L	0.20	0.090	
PCB-1242	BUC0552-BLK1	ND	ug/L	0.20	0.095	
PCB-1248	BUC0552-BLK1	ND	ug/L	0.20	0.025	
PCB-1254	BUC0552-BLK1	ND	ug/L	0.20	0.042	
PCB-1260	BUC0552-BLK1	ND	ug/L	0.20	0.020	
Total PCB's (Summation)	BUC0552-BLK1	ND	ug/L	0.20	0.10	
Decachlorobiphenyl (Surrogate)	BUC0552-BLK1	112	%	48 - 135 (LCL - UCL)		

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Project: Nine Par
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PCB Analysis (EPA Method 8082)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUC0552										
PCB-1260	BUC0552-BS1	LCS	2.6650	2.5000	ug/L	107		73 - 119		
Decachlorobiphenyl (Surrogate)	BUC0552-BS1	LCS	0.11900	0.10000	ug/L	119		48 - 135		

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Project: Nine Par
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PCB Analysis (EPA Method 8082)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC0552	Used client sample: N										
PCB-1260	MS	1100204-78	ND	2.6240	2.5000	ug/L		105		64 - 125	
	MSD	1100204-78	ND	2.4550	2.5000	ug/L	6.7	98.2	23	64 - 125	
Decachlorobiphenyl (Surrogate)	MS	1100204-78	ND	0.12100	0.10000	ug/L		121		48 - 135	
	MSD	1100204-78	ND	0.10700	0.10000	ug/L	12.3	107		48 - 135	

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Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Chlorinated Herbicides (EPA Method 8151)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC0391						
2,4-D	BUC0391-BLK1	ND	ug/L	0.40	0.065	
2,4-DB	BUC0391-BLK1	ND	ug/L	3.0	0.32	
Dalapon	BUC0391-BLK1	ND	ug/L	10	2.4	
Dicamba	BUC0391-BLK1	ND	ug/L	0.080	0.037	
Dichloroprop	BUC0391-BLK1	ND	ug/L	0.50	0.012	
Dinoseb	BUC0391-BLK1	ND	ug/L	0.20	0.040	
2,4,5-T	BUC0391-BLK1	ND	ug/L	0.090	0.012	
2,4,5-TP (Silvex)	BUC0391-BLK1	ND	ug/L	0.070	0.016	
2,4-Dichlorophenylacetic acid (Surrogate)	BUC0391-BLK1	75.1	%	50 - 150 (LCL - UCL)		

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Reported: 03/11/2011 16:09
Project: Nine Par
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Project Manager: Tom Vercoutere

Chlorinated Herbicides (EPA Method 8151)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUC0391										
2,4-D	BUC0391-BS1	LCS	2.2860	2.4000	ug/L	95.2		55 - 124		
2,4-DB	BUC0391-BS1	LCS	2.6160	5.4000	ug/L	48.4		62 - 134		J,L02
Dicamba	BUC0391-BS1	LCS	0.46200	0.60000	ug/L	77.0		64 - 120		
Dichloroprop	BUC0391-BS1	LCS	2.0930	2.4000	ug/L	87.2		47 - 120		
Dinoseb	BUC0391-BS1	LCS	0.58200	1.2000	ug/L	48.5		55 - 120		L02
2,4,5-T	BUC0391-BS1	LCS	0.63500	0.60000	ug/L	106		67 - 139		
2,4,5-TP (Silvex)	BUC0391-BS1	LCS	0.55400	0.60000	ug/L	92.3		56 - 127		
2,4-Dichlorophenylacetic acid (Surrogate)	BUC0391-BS1	LCS	0.69900	1.0000	ug/L	69.9		50 - 150		

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Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Chlorinated Herbicides (EPA Method 8151)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC0391	Used client sample: N										
2,4-D	MS	1102229-57	ND	2.2860	2.4000	ug/L		95.2		47 - 128	
	MSD	1102229-57	ND	2.1840	2.4000	ug/L	4.6	91.0	30	47 - 128	
2,4-DB	MS	1102229-57	ND	5.7790	5.4000	ug/L		107		59 - 138	
	MSD	1102229-57	ND	4.5520	5.4000	ug/L	23.8	84.3	30	59 - 138	
Dicamba	MS	1102229-57	ND	0.63100	0.60000	ug/L		105		64 - 120	
	MSD	1102229-57	ND	0.45500	0.60000	ug/L	32.4	75.8	30	64 - 120	Q03
Dichloroprop	MS	1102229-57	ND	2.0940	2.4000	ug/L		87.2		48 - 120	
	MSD	1102229-57	ND	2.0020	2.4000	ug/L	4.5	83.4	30	48 - 120	
Dinoseb	MS	1102229-57	ND	1.2860	1.2000	ug/L		107		53 - 120	
	MSD	1102229-57	ND	1.0130	1.2000	ug/L	23.7	84.4	30	53 - 120	
2,4,5-T	MS	1102229-57	ND	0.69400	0.60000	ug/L		116		63 - 137	
	MSD	1102229-57	ND	0.58000	0.60000	ug/L	17.9	96.7	30	63 - 137	
2,4,5-TP (Silvex)	MS	1102229-57	ND	0.61000	0.60000	ug/L		102		47 - 132	
	MSD	1102229-57	ND	0.54300	0.60000	ug/L	11.6	90.5	30	47 - 132	
2,4-Dichlorophenylacetic acid (Surrogate	MS	1102229-57	ND	1.0800	1.0000	ug/L		108		50 - 150	
	MSD	1102229-57	ND	0.67200	1.0000	ug/L	46.6	67.2		50 - 150	

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Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC0165						
Benzene	BUC0165-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BUC0165-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BUC0165-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BUC0165-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BUC0165-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BUC0165-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BUC0165-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BUC0165-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BUC0165-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BUC0165-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BUC0165-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BUC0165-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BUC0165-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BUC0165-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BUC0165-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BUC0165-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BUC0165-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BUC0165-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BUC0165-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BUC0165-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BUC0165-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BUC0165-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BUC0165-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BUC0165-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BUC0165-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BUC0165-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BUC0165-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BUC0165-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BUC0165-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BUC0165-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BUC0165-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BUC0165-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BUC0165-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BUC0165-BLK1	ND	ug/L	0.50	0.14	

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Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC0165						
trans-1,3-Dichloropropene	BUC0165-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BUC0165-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BUC0165-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BUC0165-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BUC0165-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BUC0165-BLK1	ND	ug/L	1.0	0.48	
Methyl t-butyl ether	BUC0165-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BUC0165-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BUC0165-BLK1	ND	ug/L	0.50	0.11	
Styrene	BUC0165-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BUC0165-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BUC0165-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BUC0165-BLK1	ND	ug/L	0.50	0.13	
Toluene	BUC0165-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BUC0165-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BUC0165-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BUC0165-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BUC0165-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BUC0165-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BUC0165-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BUC0165-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BUC0165-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BUC0165-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BUC0165-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BUC0165-BLK1	ND	ug/L	0.50	0.12	
Total Xylenes	BUC0165-BLK1	ND	ug/L	1.0	0.36	
t-Amyl Methyl ether	BUC0165-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BUC0165-BLK1	ND	ug/L	10	9.4	
Diisopropyl ether	BUC0165-BLK1	ND	ug/L	0.50	0.23	
1,4-Dioxane	BUC0165-BLK1	ND	ug/L	100	42	
Ethyl t-butyl ether	BUC0165-BLK1	ND	ug/L	0.50	0.18	
Total Purgeable Petroleum Hydrocarbons	BUC0165-BLK1	ND	ug/L	50	7.2	
1,2-Dichloroethane-d4 (Surrogate)	BUC0165-BLK1	94.9	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BUC0165-BLK1	99.6	%	88 - 110 (LCL - UCL)		

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Golder Associates 425 Lakeside Drive Sunnyvale, CA 94085	**Reported:** 03/11/2011 16:09 Project: Nine Par Project Number: 103 97163 Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC0165						
4-Bromofluorobenzene (Surrogate)	BUC0165-BLK1	95.3	%	86 - 115 (LCL - UCL)		

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Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUC0165										
Benzene	BUC0165-BS1	LCS	27.700	25.000	ug/L	111		70 - 130		
Bromodichloromethane	BUC0165-BS1	LCS	23.590	25.000	ug/L	94.4		70 - 130		
Chlorobenzene	BUC0165-BS1	LCS	24.480	25.000	ug/L	97.9		70 - 130		
Chloroethane	BUC0165-BS1	LCS	25.720	25.000	ug/L	103		70 - 130		
1,4-Dichlorobenzene	BUC0165-BS1	LCS	24.430	25.000	ug/L	97.7		70 - 130		
1,1-Dichloroethane	BUC0165-BS1	LCS	25.930	25.000	ug/L	104		70 - 130		
1,1-Dichloroethene	BUC0165-BS1	LCS	27.530	25.000	ug/L	110		70 - 130		
Toluene	BUC0165-BS1	LCS	25.230	25.000	ug/L	101		70 - 130		
Trichloroethene	BUC0165-BS1	LCS	24.630	25.000	ug/L	98.5		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BUC0165-BS1	LCS	9.7400	10.000	ug/L	97.4		76 - 114		
Toluene-d8 (Surrogate)	BUC0165-BS1	LCS	10.180	10.000	ug/L	102		88 - 110		
4-Bromofluorobenzene (Surrogate)	BUC0165-BS1	LCS	9.9900	10.000	ug/L	99.9		86 - 115		

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Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC0165	Used client sample: N										
Benzene	MS	1102229-55	ND	28.030	25.000	ug/L		112		70 - 130	
	MSD	1102229-55	ND	27.800	25.000	ug/L	0.8	111	20	70 - 130	
Bromodichloromethane	MS	1102229-55	ND	23.750	25.000	ug/L		95.0		70 - 130	
	MSD	1102229-55	ND	24.550	25.000	ug/L	3.3	98.2	20	70 - 130	
Chlorobenzene	MS	1102229-55	ND	24.860	25.000	ug/L		99.4		70 - 130	
	MSD	1102229-55	ND	25.110	25.000	ug/L	1.0	100	20	70 - 130	
Chloroethane	MS	1102229-55	ND	26.490	25.000	ug/L		106		70 - 130	
	MSD	1102229-55	ND	27.350	25.000	ug/L	3.2	109	20	70 - 130	
1,4-Dichlorobenzene	MS	1102229-55	ND	23.950	25.000	ug/L		95.8		70 - 130	
	MSD	1102229-55	ND	24.340	25.000	ug/L	1.6	97.4	20	70 - 130	
1,1-Dichloroethane	MS	1102229-55	ND	26.920	25.000	ug/L		108		70 - 130	
	MSD	1102229-55	ND	26.050	25.000	ug/L	3.3	104	20	70 - 130	
1,1-Dichloroethene	MS	1102229-55	ND	28.920	25.000	ug/L		116		70 - 130	
	MSD	1102229-55	ND	27.460	25.000	ug/L	5.2	110	20	70 - 130	
Toluene	MS	1102229-55	ND	25.290	25.000	ug/L		101		70 - 130	
	MSD	1102229-55	ND	26.150	25.000	ug/L	3.3	105	20	70 - 130	
Trichloroethene	MS	1102229-55	ND	25.830	25.000	ug/L		103		70 - 130	
	MSD	1102229-55	ND	26.030	25.000	ug/L	0.8	104	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1102229-55	ND	9.3500	10.000	ug/L		93.5		76 - 114	
	MSD	1102229-55	ND	9.3400	10.000	ug/L	0.1	93.4		76 - 114	
Toluene-d8 (Surrogate)	MS	1102229-55	ND	9.8300	10.000	ug/L		98.3		88 - 110	
	MSD	1102229-55	ND	10.090	10.000	ug/L	2.6	101		88 - 110	
4-Bromofluorobenzene (Surrogate)	MS	1102229-55	ND	9.4600	10.000	ug/L		94.6		86 - 115	
	MSD	1102229-55	ND	9.8000	10.000	ug/L	3.5	98.0		86 - 115	

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Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC0262						
Acenaphthene	BUC0262-BLK1	ND	ug/L	2.0	0.24	
Acenaphthylene	BUC0262-BLK1	ND	ug/L	2.0	0.28	
Aldrin	BUC0262-BLK1	ND	ug/L	2.0	0.35	
Aniline	BUC0262-BLK1	ND	ug/L	5.0	0.69	
Anthracene	BUC0262-BLK1	ND	ug/L	2.0	0.30	
Benzidine	BUC0262-BLK1	ND	ug/L	20	7.1	
Benzo[a]anthracene	BUC0262-BLK1	ND	ug/L	2.0	0.38	
Benzo[b]fluoranthene	BUC0262-BLK1	ND	ug/L	2.0	0.41	
Benzo[k]fluoranthene	BUC0262-BLK1	ND	ug/L	2.0	0.31	
Benzo[a]pyrene	BUC0262-BLK1	ND	ug/L	2.0	0.20	
Benzo[g,h,i]perylene	BUC0262-BLK1	ND	ug/L	2.0	0.22	
Benzoic acid	BUC0262-BLK1	ND	ug/L	10	5.8	
Benzyl alcohol	BUC0262-BLK1	ND	ug/L	2.0	0.34	
Benzyl butyl phthalate	BUC0262-BLK1	ND	ug/L	2.0	0.47	
alpha-BHC	BUC0262-BLK1	ND	ug/L	2.0	0.27	
beta-BHC	BUC0262-BLK1	ND	ug/L	2.0	0.27	
delta-BHC	BUC0262-BLK1	ND	ug/L	2.0	0.30	
gamma-BHC (Lindane)	BUC0262-BLK1	ND	ug/L	2.0	0.22	
bis(2-Chloroethoxy)methane	BUC0262-BLK1	ND	ug/L	2.0	0.27	
bis(2-Chloroethyl) ether	BUC0262-BLK1	ND	ug/L	2.0	0.68	
bis(2-Chloroisopropyl)ether	BUC0262-BLK1	ND	ug/L	2.0	0.30	
bis(2-Ethylhexyl)phthalate	BUC0262-BLK1	ND	ug/L	5.0	3.0	
4-Bromophenyl phenyl ether	BUC0262-BLK1	ND	ug/L	2.0	0.23	
4-Chloroaniline	BUC0262-BLK1	ND	ug/L	2.0	0.69	
2-Chloronaphthalene	BUC0262-BLK1	ND	ug/L	2.0	0.34	
4-Chlorophenyl phenyl ether	BUC0262-BLK1	ND	ug/L	2.0	0.23	
Chrysene	BUC0262-BLK1	ND	ug/L	2.0	0.63	
4,4'-DDD	BUC0262-BLK1	ND	ug/L	2.0	0.48	
4,4'-DDE	BUC0262-BLK1	ND	ug/L	3.0	0.41	
4,4'-DDT	BUC0262-BLK1	ND	ug/L	2.0	0.43	
Dibenzo[a,h]anthracene	BUC0262-BLK1	ND	ug/L	3.0	0.26	
Dibenzofuran	BUC0262-BLK1	ND	ug/L	2.0	0.21	
1,2-Dichlorobenzene	BUC0262-BLK1	ND	ug/L	2.0	0.37	
1,3-Dichlorobenzene	BUC0262-BLK1	ND	ug/L	2.0	0.35	

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Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC0262						
1,4-Dichlorobenzene	BUC0262-BLK1	ND	ug/L	2.0	0.31	
3,3-Dichlorobenzidine	BUC0262-BLK1	ND	ug/L	10	8.2	
Dieldrin	BUC0262-BLK1	ND	ug/L	3.0	0.41	
Diethyl phthalate	BUC0262-BLK1	ND	ug/L	2.0	0.33	
Dimethyl phthalate	BUC0262-BLK1	ND	ug/L	2.0	0.39	
Di-n-butyl phthalate	BUC0262-BLK1	ND	ug/L	2.0	0.39	
2,4-Dinitrotoluene	BUC0262-BLK1	ND	ug/L	2.0	0.26	
2,6-Dinitrotoluene	BUC0262-BLK1	ND	ug/L	2.0	0.41	
Di-n-octyl phthalate	BUC0262-BLK1	ND	ug/L	2.0	0.46	
1,2-Diphenylhydrazine	BUC0262-BLK1	ND	ug/L	2.0	0.34	
Endosulfan I	BUC0262-BLK1	ND	ug/L	10	1.7	
Endosulfan II	BUC0262-BLK1	ND	ug/L	10	1.2	
Endosulfan sulfate	BUC0262-BLK1	ND	ug/L	3.0	0.58	
Endrin	BUC0262-BLK1	ND	ug/L	2.0	1.1	
Endrin aldehyde	BUC0262-BLK1	ND	ug/L	10	0.52	
Fluoranthene	BUC0262-BLK1	ND	ug/L	2.0	0.20	
Fluorene	BUC0262-BLK1	ND	ug/L	2.0	0.28	
Heptachlor	BUC0262-BLK1	ND	ug/L	2.0	0.32	
Heptachlor epoxide	BUC0262-BLK1	ND	ug/L	2.0	0.27	
Hexachlorobenzene	BUC0262-BLK1	ND	ug/L	2.0	0.20	
Hexachlorobutadiene	BUC0262-BLK1	ND	ug/L	2.0	0.24	
Hexachlorocyclopentadiene	BUC0262-BLK1	ND	ug/L	2.0	0.30	
Hexachloroethane	BUC0262-BLK1	ND	ug/L	2.0	0.32	
Indeno[1,2,3-cd]pyrene	BUC0262-BLK1	ND	ug/L	2.0	0.26	
Isophorone	BUC0262-BLK1	ND	ug/L	2.0	0.31	
2-Methylnaphthalene	BUC0262-BLK1	ND	ug/L	2.0	0.28	
Naphthalene	BUC0262-BLK1	ND	ug/L	2.0	0.21	
2-Naphthylamine	BUC0262-BLK1	ND	ug/L	20	4.8	
2-Nitroaniline	BUC0262-BLK1	ND	ug/L	2.0	0.33	
3-Nitroaniline	BUC0262-BLK1	ND	ug/L	2.0	0.66	
4-Nitroaniline	BUC0262-BLK1	ND	ug/L	5.0	0.87	
Nitrobenzene	BUC0262-BLK1	ND	ug/L	2.0	0.26	
N-Nitrosodimethylamine	BUC0262-BLK1	ND	ug/L	2.0	0.61	
N-Nitrosodi-N-propylamine	BUC0262-BLK1	ND	ug/L	2.0	1.3	

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Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC0262						
N-Nitrosodiphenylamine	BUC0262-BLK1	ND	ug/L	2.0	0.44	
Phenanthrene	BUC0262-BLK1	ND	ug/L	2.0	0.20	
Pyrene	BUC0262-BLK1	ND	ug/L	2.0	0.26	
1,2,4-Trichlorobenzene	BUC0262-BLK1	ND	ug/L	2.0	0.27	
4-Chloro-3-methylphenol	BUC0262-BLK1	ND	ug/L	5.0	0.40	
2-Chlorophenol	BUC0262-BLK1	ND	ug/L	2.0	0.37	
2,4-Dichlorophenol	BUC0262-BLK1	ND	ug/L	2.0	0.43	
2,4-Dimethylphenol	BUC0262-BLK1	ND	ug/L	2.0	0.20	
4,6-Dinitro-2-methylphenol	BUC0262-BLK1	ND	ug/L	10	0.34	
2,4-Dinitrophenol	BUC0262-BLK1	ND	ug/L	10	0.20	
2-Methylphenol	BUC0262-BLK1	ND	ug/L	2.0	1.0	
3- & 4-Methylphenol	BUC0262-BLK1	ND	ug/L	2.0	1.6	
2-Nitrophenol	BUC0262-BLK1	ND	ug/L	2.0	0.28	
4-Nitrophenol	BUC0262-BLK1	ND	ug/L	2.0	0.73	
Pentachlorophenol	BUC0262-BLK1	ND	ug/L	10	0.79	
Phenol	BUC0262-BLK1	ND	ug/L	2.0	0.20	
2,4,5-Trichlorophenol	BUC0262-BLK1	ND	ug/L	5.0	0.31	
2,4,6-Trichlorophenol	BUC0262-BLK1	ND	ug/L	5.0	0.60	
2-Fluorophenol (Surrogate)	BUC0262-BLK1	63.5	%	28 - 85 (LCL - UCL)		
Phenol-d5 (Surrogate)	BUC0262-BLK1	40.5	%	13 - 59 (LCL - UCL)		
Nitrobenzene-d5 (Surrogate)	BUC0262-BLK1	87.4	%	34 - 119 (LCL - UCL)		
2-Fluorobiphenyl (Surrogate)	BUC0262-BLK1	89.8	%	24 - 128 (LCL - UCL)		
2,4,6-Tribromophenol (Surrogate)	BUC0262-BLK1	78.8	%	35 - 114 (LCL - UCL)		
p-Terphenyl-d14 (Surrogate)	BUC0262-BLK1	99.8	%	10 - 185 (LCL - UCL)		

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Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUC0262										
Acenaphthene	BUC0262-BS1	LCS	46.836	50.000	ug/L	93.7		63 - 128		
1,4-Dichlorobenzene	BUC0262-BS1	LCS	42.906	50.000	ug/L	85.8		72 - 112		
2,4-Dinitrotoluene	BUC0262-BS1	LCS	45.450	50.000	ug/L	90.9		45 - 136		
Hexachlorobenzene	BUC0262-BS1	LCS	45.764	50.000	ug/L	91.5		71 - 130		
Hexachlorobutadiene	BUC0262-BS1	LCS	38.021	50.000	ug/L	76.0		56 - 106		
Hexachloroethane	BUC0262-BS1	LCS	45.812	50.000	ug/L	91.6		58 - 116		
Nitrobenzene	BUC0262-BS1	LCS	46.689	50.000	ug/L	93.4		59 - 119		
N-Nitrosodi-N-propylamine	BUC0262-BS1	LCS	50.019	50.000	ug/L	100		47 - 112		
Pyrene	BUC0262-BS1	LCS	53.706	50.000	ug/L	107		26 - 167		
1,2,4-Trichlorobenzene	BUC0262-BS1	LCS	42.480	50.000	ug/L	85.0		64 - 116		
4-Chloro-3-methylphenol	BUC0262-BS1	LCS	45.527	50.000	ug/L	91.1		52 - 123		
2-Chlorophenol	BUC0262-BS1	LCS	43.523	50.000	ug/L	87.0		62 - 106		
2-Methylphenol	BUC0262-BS1	LCS	40.694	50.000	ug/L	81.4		39 - 119		
3- & 4-Methylphenol	BUC0262-BS1	LCS	62.687	100.00	ug/L	62.7		40 - 94		
4-Nitrophenol	BUC0262-BS1	LCS	20.081	50.000	ug/L	40.2		18 - 64		
Pentachlorophenol	BUC0262-BS1	LCS	36.460	50.000	ug/L	72.9		38 - 144		
Phenol	BUC0262-BS1	LCS	21.792	50.000	ug/L	43.6		22 - 60		
2,4,6-Trichlorophenol	BUC0262-BS1	LCS	47.600	50.000	ug/L	95.2		60 - 127		
2-Fluorophenol (Surrogate)	BUC0262-BS1	LCS	59.520	80.000	ug/L	74.4		28 - 85		
Phenol-d5 (Surrogate)	BUC0262-BS1	LCS	37.510	80.000	ug/L	46.9		13 - 59		
Nitrobenzene-d5 (Surrogate)	BUC0262-BS1	LCS	77.840	80.000	ug/L	97.3		34 - 119		
2-Fluorobiphenyl (Surrogate)	BUC0262-BS1	LCS	73.290	80.000	ug/L	91.6		24 - 128		
2,4,6-Tribromophenol (Surrogate)	BUC0262-BS1	LCS	80.690	80.000	ug/L	101		35 - 114		
p-Terphenyl-d14 (Surrogate)	BUC0262-BS1	LCS	41.600	40.000	ug/L	104		10 - 185		

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Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC0262	Used client sample: N										
Acenaphthene	MS	1015011-99	ND	48.995	50.000	ug/L		98.0		55 - 128	
	MSD	1015011-99	ND	48.080	50.000	ug/L	1.9	96.2	28	55 - 128	
1,4-Dichlorobenzene	MS	1015011-99	ND	45.487	50.000	ug/L		91.0		64 - 114	
	MSD	1015011-99	ND	41.053	50.000	ug/L	10.2	82.1	27	64 - 114	
2,4-Dinitrotoluene	MS	1015011-99	ND	48.598	50.000	ug/L		97.2		41 - 135	
	MSD	1015011-99	ND	48.457	50.000	ug/L	0.3	96.9	29	41 - 135	
Hexachlorobenzene	MS	1015011-99	ND	44.552	50.000	ug/L		89.1		66 - 131	
	MSD	1015011-99	ND	48.413	50.000	ug/L	8.3	96.8	23	66 - 131	
Hexachlorobutadiene	MS	1015011-99	ND	39.870	50.000	ug/L		79.7		47 - 108	
	MSD	1015011-99	ND	34.464	50.000	ug/L	14.5	68.9	26	47 - 108	
Hexachloroethane	MS	1015011-99	ND	46.719	50.000	ug/L		93.4		49 - 118	
	MSD	1015011-99	ND	39.580	50.000	ug/L	16.5	79.2	30	49 - 118	
Nitrobenzene	MS	1015011-99	ND	48.536	50.000	ug/L		97.1		53 - 118	
	MSD	1015011-99	ND	49.141	50.000	ug/L	1.2	98.3	27	53 - 118	
N-Nitrosodi-N-propylamine	MS	1015011-99	ND	54.130	50.000	ug/L		108		41 - 114	
	MSD	1015011-99	ND	52.988	50.000	ug/L	2.1	106	30	41 - 114	
Pyrene	MS	1015011-99	ND	50.285	50.000	ug/L		101		25 - 163	
	MSD	1015011-99	ND	49.293	50.000	ug/L	2.0	98.6	27	25 - 163	
1,2,4-Trichlorobenzene	MS	1015011-99	ND	45.690	50.000	ug/L		91.4		52 - 121	
	MSD	1015011-99	ND	42.282	50.000	ug/L	7.7	84.6	28	52 - 121	
4-Chloro-3-methylphenol	MS	1015011-99	ND	46.238	50.000	ug/L		92.5		46 - 125	
	MSD	1015011-99	ND	50.712	50.000	ug/L	9.2	101	23	46 - 125	
2-Chlorophenol	MS	1015011-99	ND	42.282	50.000	ug/L		84.6		53 - 109	
	MSD	1015011-99	ND	42.361	50.000	ug/L	0.2	84.7	30	53 - 109	
2-Methylphenol	MS	1015011-99	ND	40.382	50.000	ug/L		80.8		37 - 117	
	MSD	1015011-99	ND	42.256	50.000	ug/L	4.5	84.5	26	37 - 117	
3- & 4-Methylphenol	MS	1015011-99	ND	63.380	100.00	ug/L		63.4		39 - 92	
	MSD	1015011-99	ND	63.084	100.00	ug/L	0.5	63.1	27	39 - 92	
4-Nitrophenol	MS	1015011-99	ND	20.468	50.000	ug/L		40.9		18 - 63	
	MSD	1015011-99	ND	21.203	50.000	ug/L	3.5	42.4	30	18 - 63	
Pentachlorophenol	MS	1015011-99	ND	35.533	50.000	ug/L		71.1		16 - 156	
	MSD	1015011-99	ND	41.417	50.000	ug/L	15.3	82.8	30	16 - 156	
Phenol	MS	1015011-99	ND	22.568	50.000	ug/L		45.1		21 - 59	
	MSD	1015011-99	ND	22.537	50.000	ug/L	0.1	45.1	29	21 - 59	
2,4,6-Trichlorophenol	MS	1015011-99	ND	48.719	50.000	ug/L		97.4		43 - 135	
	MSD	1015011-99	ND	51.069	50.000	ug/L	4.7	102	30	43 - 135	

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425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC0262	Used client sample: N										
2-Fluorophenol (Surrogate)	MS	1015011-99	ND	57.550	80.000	ug/L		71.9		28 - 85	
	MSD	1015011-99	ND	55.500	80.000	ug/L	3.6	69.4		28 - 85	
Phenol-d5 (Surrogate)	MS	1015011-99	ND	36.720	80.000	ug/L		45.9		13 - 59	
	MSD	1015011-99	ND	35.780	80.000	ug/L	2.6	44.7		13 - 59	
Nitrobenzene-d5 (Surrogate)	MS	1015011-99	ND	77.890	80.000	ug/L		97.4		34 - 119	
	MSD	1015011-99	ND	74.770	80.000	ug/L	4.1	93.5		34 - 119	
2-Fluorobiphenyl (Surrogate)	MS	1015011-99	ND	74.060	80.000	ug/L		92.6		24 - 128	
	MSD	1015011-99	ND	75.450	80.000	ug/L	1.9	94.3		24 - 128	
2,4,6-Tribromophenol (Surrogate)	MS	1015011-99	ND	70.750	80.000	ug/L		88.4		35 - 114	
	MSD	1015011-99	ND	77.650	80.000	ug/L	9.3	97.1		35 - 114	
p-Terphenyl-d14 (Surrogate)	MS	1015011-99	ND	40.150	40.000	ug/L		100		10 - 185	
	MSD	1015011-99	ND	38.230	40.000	ug/L	4.9	95.6		10 - 185	

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Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC0332						
TPH - C8 - C9	BUC0332-BLK1	ND	ug/L	10	5.0	
TPH - C10 - C11	BUC0332-BLK1	ND	ug/L	10	5.0	
TPH - C12 - C14	BUC0332-BLK1	ND	ug/L	10	5.0	
TPH - C15 - C16	BUC0332-BLK1	ND	ug/L	10	5.0	
TPH - C17 - C18	BUC0332-BLK1	ND	ug/L	10	5.0	
TPH - C19 - C20	BUC0332-BLK1	ND	ug/L	10	5.0	
TPH - C21 - C22	BUC0332-BLK1	ND	ug/L	10	5.0	
TPH - C23 - C28	BUC0332-BLK1	ND	ug/L	10	5.0	
TPH - C29 - C32	BUC0332-BLK1	ND	ug/L	10	5.0	
TPH - C33 - C36	BUC0332-BLK1	ND	ug/L	10	5.0	
TPH - C37 - C40	BUC0332-BLK1	ND	ug/L	10	5.0	
TPH - C41 - C43	BUC0332-BLK1	ND	ug/L	10	5.0	
TPH - C44 plus	BUC0332-BLK1	ND	ug/L	10	5.0	
TPH (Total)	BUC0332-BLK1	ND	ug/L	200	100	
TPH - Diesel (FFP)	BUC0332-BLK1	ND	ug/L	200	34	
Tetracosane (Surrogate)	BUC0332-BLK1	76.8	%	37 - 134 (LCL - UCL)		

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Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUC0332										
TPH - Diesel (FFP)	BUC0332-BS1	LCS	2514.2	2500.0	ug/L	101		52 - 128		
Tetracosane (Surrogate)	BUC0332-BS1	LCS	130.06	100.00	ug/L	130		37 - 134		

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Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC0332	Used client sample: N										
TPH - Diesel (FFP)	MS	1102229-45	ND	2547.8	2500.0	ug/L		102		50 - 127	
	MSD	1102229-45	ND	2532.8	2500.0	ug/L	0.6	101	24	50 - 127	
Tetracosane (Surrogate)	MS	1102229-45	ND	140.54	100.00	ug/L		141		37 - 134	S09
	MSD	1102229-45	ND	132.69	100.00	ug/L	5.7	133		37 - 134	

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425 Lakeside Drive
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Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUB1796						
Total Sulfide	BUB1796-BLK1	ND	mg/L	0.10	0.050	
QC Batch ID: BUB1801						
Chloride	BUB1801-BLK1	0.12600	mg/L	0.50	0.050	J
Fluoride	BUB1801-BLK1	ND	mg/L	0.050	0.012	
Nitrate as N	BUB1801-BLK1	ND	mg/L	0.10	0.014	
Sulfate	BUB1801-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BUB1831						
Total Dissolved Solids @ 180 C	BUB1831-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BUB1838						
Nitrite as N	BUB1838-BLK1	ND	mg/L	0.050	0.0081	
QC Batch ID: BUC0029						
Total Cyanide	BUC0029-BLK1	ND	mg/L	0.0050	0.0016	
QC Batch ID: BUC0126						
Dissolved Calcium	BUC0126-BLK1	ND	mg/L	0.10	0.018	
Dissolved Magnesium	BUC0126-BLK1	ND	mg/L	0.050	0.016	
Dissolved Sodium	BUC0126-BLK1	0.21910	mg/L	0.50	0.050	J
Dissolved Potassium	BUC0126-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BUC0197						
Bicarbonate Alkalinity as CaCO3	BUC0197-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BUC0197-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BUC0198						
Bicarbonate Alkalinity as CaCO3	BUC0198-BLK1	ND	mg/L	4.1	4.1	
Carbonate Alkalinity as CaCO3	BUC0198-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BUC0322						
Non-Volatile Organic Carbon	BUC0322-BLK1	0.20000	mg/L	0.30	0.062	J
QC Batch ID: BUC0433						
Nitrate/Nitrite as N	BUC0433-BLK1	ND	mg/L	0.10	0.010	
QC Batch ID: BUC0434						
Nitrate/Nitrite as N	BUC0434-BLK1	ND	mg/L	0.10	0.010	

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Sunnyvale, CA 94085

Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUB1796										
Total Sulfide	BUB1796-BS1	LCS	0.48298	0.50000	mg/L	96.6		90 - 110		
QC Batch ID: BUB1801										
Chloride	BUB1801-BS1	LCS	109.12	100.00	mg/L	109		90 - 110		
Fluoride	BUB1801-BS1	LCS	1.0930	1.0000	mg/L	109		90 - 110		
Nitrate as N	BUB1801-BS1	LCS	5.2520	5.0000	mg/L	105		90 - 110		
Sulfate	BUB1801-BS1	LCS	103.69	100.00	mg/L	104		90 - 110		
QC Batch ID: BUB1831										
Total Dissolved Solids @ 180 C	BUB1831-BS1	LCS	585.00	586.00	mg/L	99.8		90 - 110		
QC Batch ID: BUB1838										
Nitrite as N	BUB1838-BS1	LCS	0.48824	0.50000	mg/L	97.6		90 - 110		
QC Batch ID: BUC0029										
Total Cyanide	BUC0029-BS1	LCS	0.14268	0.15000	mg/L	95.1		90 - 110		
QC Batch ID: BUC0126										
Dissolved Calcium	BUC0126-BS1	LCS	10.114	10.000	mg/L	101		85 - 115		
Dissolved Magnesium	BUC0126-BS1	LCS	10.478	10.000	mg/L	105		85 - 115		
Dissolved Sodium	BUC0126-BS1	LCS	9.8680	10.000	mg/L	98.7		85 - 115		
Dissolved Potassium	BUC0126-BS1	LCS	10.345	10.000	mg/L	103		85 - 115		
QC Batch ID: BUC0322										
Non-Volatile Organic Carbon	BUC0322-BS1	LCS	5.1360	5.0000	mg/L	103		85 - 115		
QC Batch ID: BUC0433										
Nitrate/Nitrite as N	BUC0433-BS1	LCS	2.0389	2.0000	mg/L	102		90 - 110		
QC Batch ID: BUC0434										
Nitrate/Nitrite as N	BUC0434-BS1	LCS	2.0849	2.0000	mg/L	104		90 - 110		

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Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUB1796	Used client sample: N										
Total Sulfide	DUP	1103132-01	ND	ND		mg/L			10		
	MS	1103132-01	ND	0.46058	0.50000	mg/L		92.1		80 - 120	
	MSD	1103132-01	ND	0.46218	0.50000	mg/L	0.3	92.4	10	80 - 120	
QC Batch ID: BUB1801	Used client sample: N										
Chloride	DUP	1103137-01	169.87	170.24		mg/L	0.2		10		
	MS	1103137-01	169.87	272.74	101.01	mg/L		102		80 - 120	
	MSD	1103137-01	169.87	275.11	101.01	mg/L	0.9	104	10	80 - 120	
Fluoride	DUP	1103137-01	0.30500	0.27900		mg/L	8.9		10		
	MS	1103137-01	0.30500	1.1495	1.0101	mg/L		83.6		80 - 120	
	MSD	1103137-01	0.30500	1.1919	1.0101	mg/L	3.6	87.8	10	80 - 120	
Nitrate as N	DUP	1103137-01	3.0150	2.8160		mg/L	6.8		10		
	MS	1103137-01	3.0150	8.4697	5.0505	mg/L		108		80 - 120	
	MSD	1103137-01	3.0150	8.4515	5.0505	mg/L	0.2	108	10	80 - 120	
Sulfate	DUP	1103137-01	358.91	358.07		mg/L	0.2		10		
	MS	1103137-01	358.91	462.86	101.01	mg/L		103		80 - 120	
	MSD	1103137-01	358.91	460.90	101.01	mg/L	0.4	101	10	80 - 120	
QC Batch ID: BUB1831	Used client sample: N										
Total Dissolved Solids @ 180 C	DUP	1103159-02	254.00	254.00		mg/L	0		10		
QC Batch ID: BUB1838	Used client sample: Y - Description: EB-01, 02/23/2011 14:30										
Nitrite as N	DUP	1103173-01	ND	ND		mg/L			10		
	MS	1103173-01	ND	0.52619	0.52632	mg/L		100		90 - 110	
	MSD	1103173-01	ND	0.52476	0.52632	mg/L	0.3	99.7	10	90 - 110	
QC Batch ID: BUC0029	Used client sample: N										
Total Cyanide	DUP	1103179-02	0.0021480	0.0022160		mg/L	3.1		10		J
	MS	1103179-02	0.0021480	0.098304	0.10000	mg/L		96.2		90 - 110	
	MSD	1103179-02	0.0021480	0.098887	0.10000	mg/L	0.6	96.7	10	90 - 110	
QC Batch ID: BUC0126	Used client sample: N										
Dissolved Calcium	DUP	1103181-01	22.952	22.686		mg/L	1.2		20		
	MS	1103181-01	22.952	32.779	10.204	mg/L		96.3		85 - 115	
	MSD	1103181-01	22.952	32.807	10.204	mg/L	0.1	96.6	20	85 - 115	
Dissolved Magnesium	DUP	1103181-01	6.7452	6.6040		mg/L	2.1		20		
	MS	1103181-01	6.7452	16.942	10.204	mg/L		99.9		85 - 115	
	MSD	1103181-01	6.7452	17.428	10.204	mg/L	2.8	105	20	85 - 115	
Dissolved Sodium	DUP	1103181-01	5.8362	5.8916		mg/L	0.9		20		
	MS	1103181-01	5.8362	15.709	10.204	mg/L		96.8		85 - 115	
	MSD	1103181-01	5.8362	15.639	10.204	mg/L	0.4	96.1	20	85 - 115	

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Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC0126	Used client sample: N										
Dissolved Potassium	DUP	1103181-01	2.7243	2.7157		mg/L	0.3		20		
	MS	1103181-01	2.7243	13.378	10.204	mg/L		104		85 - 115	
	MSD	1103181-01	2.7243	13.417	10.204	mg/L	0.3	105	20	85 - 115	
QC Batch ID: BUC0197	Used client sample: N										
Bicarbonate Alkalinity as CaCO3	DUP	1103321-01	905.80	910.97		mg/L	0.6		10		
Carbonate Alkalinity as CaCO3	DUP	1103321-01	ND	ND		mg/L			10		
QC Batch ID: BUC0198	Used client sample: Y - Description: EB-03, 02/24/2011 16:15										
Bicarbonate Alkalinity as CaCO3	DUP	1103173-03	725.37	731.76		mg/L	0.9		10		
Carbonate Alkalinity as CaCO3	DUP	1103173-03	ND	ND		mg/L			10		
QC Batch ID: BUC0322	Used client sample: N										
Non-Volatile Organic Carbon	DUP	1103096-02	2.1460	2.1520		mg/L	0.3		10		
	MS	1103096-02	2.1460	7.4432	5.0251	mg/L		105		80 - 120	
	MSD	1103096-02	2.1460	7.4714	5.0251	mg/L	0.4	106	10	80 - 120	
QC Batch ID: BUC0433	Used client sample: N										
Nitrate/Nitrite as N	DUP	1103170-01	0.64240	0.63920		mg/L	0.5		10		
	MS	1103170-01	0.64240	2.9048	2.1053	mg/L		107		90 - 110	
	MSD	1103170-01	0.64240	2.8960	2.1053	mg/L	0.3	107	10	90 - 110	
QC Batch ID: BUC0434	Used client sample: N										
Nitrate/Nitrite as N	DUP	1103321-02	0.62720	0.67040		mg/L	6.7		10		
	MS	1103321-02	0.62720	2.9061	2.1053	mg/L		108		90 - 110	
	MSD	1103321-02	0.62720	2.8458	2.1053	mg/L	2.1	105	10	90 - 110	

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Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Water Analysis (Metals)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUC0125						
Dissolved Antimony	BUC0125-BLK1	ND	ug/L	100	10	
Dissolved Arsenic	BUC0125-BLK1	ND	ug/L	50	7.5	
Dissolved Barium	BUC0125-BLK1	ND	ug/L	10	1.2	
Dissolved Beryllium	BUC0125-BLK1	ND	ug/L	10	1.0	
Dissolved Cadmium	BUC0125-BLK1	ND	ug/L	10	1.0	
Dissolved Chromium	BUC0125-BLK1	ND	ug/L	10	1.0	
Dissolved Cobalt	BUC0125-BLK1	ND	ug/L	50	5.0	
Dissolved Copper	BUC0125-BLK1	ND	ug/L	10	2.3	
Dissolved Lead	BUC0125-BLK1	ND	ug/L	50	5.0	
Dissolved Molybdenum	BUC0125-BLK1	ND	ug/L	50	5.0	
Dissolved Nickel	BUC0125-BLK1	ND	ug/L	10	1.2	
Dissolved Selenium	BUC0125-BLK1	ND	ug/L	100	11	
Dissolved Silver	BUC0125-BLK1	ND	ug/L	10	1.1	
Dissolved Thallium	BUC0125-BLK1	ND	ug/L	100	15	
Dissolved Vanadium	BUC0125-BLK1	ND	ug/L	10	1.0	
Dissolved Zinc	BUC0125-BLK1	ND	ug/L	10	5.9	
QC Batch ID: BUC0259						
Dissolved Mercury	BUC0259-BLK1	ND	ug/L	0.20	0.034	

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Golder Associates
425 Lakeside Drive
Sunnyvale, CA 94085

Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Water Analysis (Metals)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUC0125										
Dissolved Antimony	BUC0125-BS1	LCS	386.06	400.00	ug/L	96.5		85 - 115		
Dissolved Arsenic	BUC0125-BS1	LCS	189.03	200.00	ug/L	94.5		85 - 115		
Dissolved Barium	BUC0125-BS1	LCS	411.85	400.00	ug/L	103		85 - 115		
Dissolved Beryllium	BUC0125-BS1	LCS	204.88	200.00	ug/L	102		85 - 115		
Dissolved Cadmium	BUC0125-BS1	LCS	206.07	200.00	ug/L	103		85 - 115		
Dissolved Chromium	BUC0125-BS1	LCS	209.83	200.00	ug/L	105		85 - 115		
Dissolved Cobalt	BUC0125-BS1	LCS	213.89	200.00	ug/L	107		85 - 115		
Dissolved Copper	BUC0125-BS1	LCS	393.66	400.00	ug/L	98.4		85 - 115		
Dissolved Lead	BUC0125-BS1	LCS	430.19	400.00	ug/L	108		85 - 115		
Dissolved Molybdenum	BUC0125-BS1	LCS	207.94	200.00	ug/L	104		85 - 115		
Dissolved Nickel	BUC0125-BS1	LCS	425.44	400.00	ug/L	106		85 - 115		
Dissolved Selenium	BUC0125-BS1	LCS	226.59	200.00	ug/L	113		85 - 115		
Dissolved Silver	BUC0125-BS1	LCS	99.837	100.00	ug/L	99.8		85 - 115		
Dissolved Thallium	BUC0125-BS1	LCS	444.05	400.00	ug/L	111		85 - 115		
Dissolved Vanadium	BUC0125-BS1	LCS	202.97	200.00	ug/L	101		85 - 115		
Dissolved Zinc	BUC0125-BS1	LCS	533.42	500.00	ug/L	107		85 - 115		
QC Batch ID: BUC0259										
Dissolved Mercury	BUC0259-BS1	LCS	1.0350	1.0000	ug/L	104		85 - 115		

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Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC0125	Used client sample: N										
Dissolved Antimony	DUP	1103229-01	ND	ND		ug/L			20		
	MS	1103229-01	ND	417.42	408.16	ug/L		102		75 - 125	
	MSD	1103229-01	ND	424.28	408.16	ug/L	1.6	104	20	75 - 125	
Dissolved Arsenic	DUP	1103229-01	ND	ND		ug/L			20		
	MS	1103229-01	ND	209.34	204.08	ug/L		103		75 - 125	
	MSD	1103229-01	ND	209.07	204.08	ug/L	0.1	102	20	75 - 125	
Dissolved Barium	DUP	1103229-01	22.270	21.937		ug/L	1.5		20		
	MS	1103229-01	22.270	449.46	408.16	ug/L		105		75 - 125	
	MSD	1103229-01	22.270	461.89	408.16	ug/L	2.7	108	20	75 - 125	
Dissolved Beryllium	DUP	1103229-01	ND	ND		ug/L			20		
	MS	1103229-01	ND	214.88	204.08	ug/L		105		75 - 125	
	MSD	1103229-01	ND	215.83	204.08	ug/L	0.4	106	20	75 - 125	
Dissolved Cadmium	DUP	1103229-01	ND	ND		ug/L			20		
	MS	1103229-01	ND	224.01	204.08	ug/L		110		75 - 125	
	MSD	1103229-01	ND	221.15	204.08	ug/L	1.3	108	20	75 - 125	
Dissolved Chromium	DUP	1103229-01	1.5446	1.5468		ug/L	0.1		20		J
	MS	1103229-01	1.5446	218.95	204.08	ug/L		107		75 - 125	
	MSD	1103229-01	1.5446	217.66	204.08	ug/L	0.6	106	20	75 - 125	
Dissolved Cobalt	DUP	1103229-01	ND	ND		ug/L			20		
	MS	1103229-01	ND	224.22	204.08	ug/L		110		75 - 125	
	MSD	1103229-01	ND	223.06	204.08	ug/L	0.5	109	20	75 - 125	
Dissolved Copper	DUP	1103229-01	ND	ND		ug/L			20		
	MS	1103229-01	ND	417.22	408.16	ug/L		102		75 - 125	
	MSD	1103229-01	ND	415.24	408.16	ug/L	0.5	102	20	75 - 125	
Dissolved Lead	DUP	1103229-01	ND	ND		ug/L			20		
	MS	1103229-01	ND	456.38	408.16	ug/L		112		75 - 125	
	MSD	1103229-01	ND	461.18	408.16	ug/L	1.0	113	20	75 - 125	
Dissolved Molybdenum	DUP	1103229-01	ND	ND		ug/L			20		
	MS	1103229-01	ND	218.10	204.08	ug/L		107		75 - 125	
	MSD	1103229-01	ND	220.42	204.08	ug/L	1.1	108	20	75 - 125	
Dissolved Nickel	DUP	1103229-01	ND	ND		ug/L			20		
	MS	1103229-01	ND	450.10	408.16	ug/L		110		75 - 125	
	MSD	1103229-01	ND	445.97	408.16	ug/L	0.9	109	20	75 - 125	
Dissolved Selenium	DUP	1103229-01	15.671	11.900		ug/L	27.4		20		J,A02
	MS	1103229-01	15.671	256.87	204.08	ug/L		118		75 - 125	
	MSD	1103229-01	15.671	249.16	204.08	ug/L	3.0	114	20	75 - 125	
Dissolved Silver	DUP	1103229-01	ND	ND		ug/L			20		
	MS	1103229-01	ND	107.28	102.04	ug/L		105		75 - 125	
	MSD	1103229-01	ND	104.68	102.04	ug/L	2.5	103	20	75 - 125	

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Reported: 03/11/2011 16:09
Project: Nine Par
Project Number: 103 97163
Project Manager: Tom Vercoutere

Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUC0125	Used client sample: N										
Dissolved Thallium	DUP	1103229-01	ND	ND		ug/L			20		
	MS	1103229-01	ND	469.90	408.16	ug/L		115		75 - 125	
	MSD	1103229-01	ND	475.79	408.16	ug/L	1.2	117	20	75 - 125	
Dissolved Vanadium	DUP	1103229-01	1.0955	ND		ug/L			20		
	MS	1103229-01	1.0955	216.89	204.08	ug/L		106		75 - 125	
	MSD	1103229-01	1.0955	214.49	204.08	ug/L	1.1	105	20	75 - 125	
Dissolved Zinc	DUP	1103229-01	ND	ND		ug/L			20		
	MS	1103229-01	ND	586.85	510.20	ug/L		115		75 - 125	
	MSD	1103229-01	ND	584.70	510.20	ug/L	0.4	115	20	75 - 125	
QC Batch ID: BUC0259	Used client sample: N										
Dissolved Mercury	DUP	1103229-01	ND	ND		ug/L			20		
	MS	1103229-01	ND	0.98750	1.0000	ug/L		98.8		70 - 130	
	MSD	1103229-01	ND	1.0025	1.0000	ug/L	1.5	100	20	70 - 130	

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Golder Associates 425 Lakeside Drive Sunnyvale, CA 94085	**Reported:** 03/11/2011 16:09 Project: Nine Par Project Number: 103 97163 Project Manager: Tom Vercoutere

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A01	PQL's and MDL's are raised due to sample dilution.
A02	The difference between duplicate readings is less than the PQL.
A10	PQL's and MDL's were raised due to matrix interference.
A19	Surrogate is high due to matrix interference. Interferences verified through second extraction/analysis.
L02	The Laboratory Control Sample Water (LCSW) recovery is not within method established control limits.
Q03	Matrix spike recovery(s) is(are) not within the control limits.
S05	The sample holding time was exceeded.
S09	The surrogate recovery on the sample for this compound was not within the control limits.
V11	The Continuing Calibration Verification (CCV) recovery is not within established control limits.

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