RO 2532

A·C·C ENVIRONMENTAL CONSULTANTS

Alameda County
SEP 22 2005
Environmental Health

September 16, 2005

Ms. Sally Snow
Burns Philp & Company Limited
Level 23 Pitt Street
Sydney NSW 2000
Australia

RE: Revised Additional Subsurface Soil Investigation and Piezometer Installation Report
Former Fleischmann's Yeast Facility, 921 98th Avenue, Oakland, California
ACC Project Number: 6725-001-05

Dear Ms. Snow:

Enclosed please find two copies the Revised Additional Subsurface Investigation Report for the former Fleischmann's Yeast Facility located at 921 98th Avenue, Oakland, California. The purpose of this additional investigation was to further delineate the degree and extent of petroleum hydrocarbon impact and determine if remedial soil excavation or dewatering is warranted to achieve applicable risk-based cleanup goals to obtain regulatory closure from the Alameda County Health Care Services Agency (ACHCSA) and the San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) as a "low risk" groundwater case.

Consistent with the initial soil boring investigation, soil impacts appear to be localized in fine-grained soils immediately adjacent to the two former USTs and the plume of impacted groundwater is localized in the estimated downgradient direction. A relatively small volume of soil adjacent to each former gasoline tank and dispenser merits excavation as a means of source removal.

On your behalf, ACC will forward a copy of this report to Mr. Jerry Wickham of the Alameda County Health Care Services Agency for review. If you have any questions regarding the report, please contact me at (510) 638-8400, extension 109.

Sincerely,

David R. DeMent, PG, REA II
Environmental Division Manager

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REVISED ADDITIONAL SUBSURFACE SOIL INVESTIGATION AND PIEZOMETER INSTALLATION REPORT

921 98th Avenue
Oakland, California

ACC Project Number: 6725-001-05

Prepared for:

Ms. Sally Snow
Burns Philp & Company Limited
Level 23 Pitt Street
Sydney NSW 2000
Australia

Alameda County
SEP 22 2005
Environmental Health

Revised
September 16, 2005

Prepared By: Karel Detterman
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Former Fleischmann's Yeast Facility
921 98th Avenue,
Oakland, California

1.0 INTRODUCTION

This Revised Additional Subsurface Investigation and Piezometer Installation Report has been prepared by ACC Environmental Consultants, Inc. (ACC) at the request of Burns Philp & Company Limited (Client). The original Additional Subsurface Investigation and Piezometer Installation Report was dated June 14, 2005 and submitted to the Alameda County Health Care Services Agency (ACHCSA). This revised report describes additional subsurface investigation work performed at the former Fleischmann's Yeast Facility located at 921 98th Avenue, Oakland, California (Site) (Figure 1, Location Map), and incorporates comments and requests for information made by the ACHCSA in a letter dated August 5, 2005.

The purpose of this additional investigation was to further delineate the degree and extent of impact and determine if remedial soil excavation or dewatering is warranted to achieve applicable risk-based cleanup goals to obtain regulatory closure from the ACHCSA and the San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) as a "low risk" groundwater case.

2.0 BACKGROUND

During preparation of a Phase I Environmental Site Assessment, ACC identified two former gasoline USTs and product dispensers at the Site. Former UST and dispenser locations, illustrated on a Fleischmann's Yeast Asset Location Map dated July 2000, are illustrated on Figure 2, Site Plan. Based on verbal accounts, the two gasoline USTs were apparently last used in the early 1980's and reportedly removed prior to 1988. ACC did not find any other information regarding the gasoline tanks or gasoline UST removal. Site inspection in June 2002 verified the two product dispensers in the locations depicted on the Fleischmann's Yeast Asset Location Map and as illustrated on the Historic Site Plan (Figure 2).

In order to verify that the gasoline USTs had been removed, ACC contracted with DCM Construction, Inc. (DCM) of Dublin, California, in June 2002 to excavate exploratory trenches across the locations of the two former gasoline USTs. Exploratory excavation at gasoline UST T1 revealed broken and cut product and vent lines and engineered fill where soils should have been native silts and clays. The dry product lines appeared to be cut and folded back upon themselves, likely by a backhoe. Relatively minor gasoline odor and photoionization detector (PID) readings were noted in soil at the location of tank T1 at approximately 4 feet below ground surface (bgs), indicating that excavated soil during UST removal was probably used as backfill. Exploratory trenching at gasoline UST T2 was inconclusive and no field indications of petroleum hydrocarbon impact in soil were noted. No product or vent lines were observed in the trench across tank T2 and ACC did not observe any engineered fill to the depth of four feet bgs, as was observed at tank T1.

ACC then contracted with GeoTech Utility Locating (GeoTech), of El Cerrito, California, a subsurface utility locating firm, to scan the general area of the two suspect USTs, concentrating primarily on tank T2. The results of the subsurface magnetometer survey were more conclusive and indicated that no metallic anomalies were located in the area of the two former gasoline USTs. The two areas scanned by Geotech are illustrated on Figure 2. Product piping running southeast from the Tank 2 product dispenser was traced approximately 45 feet but disappeared adjacent to the reported location of tank T2; similar to conditions at tank T1.

Trench logs were not produced. However, based on the correct locations of the product dispensers, the apparent correct location of former tank T1, observed soil conditions at former tank T1, the correct location of product piping leading from former tank T2 to its product dispenser, and the lack of metallic anomalies in the areas of former tanks T1 and T2, ACC believes the two former gasoline USTs were removed but no soil remediation was performed.

2.1 Fuel Oil Tank Removals

In July and August 1990, IT Corporation removed two 25,000-gallon diesel USTs adjacent to Building 16. The two USTs formerly contained #2 and #6 fuel oil. The UST excavation was approximately 60 feet long by 40 feet wide and approximately 17 feet deep. In September and October 1990, four groundwater monitoring wells were installed.

In June 1991, a groundwater recovery and treatment system was installed to remediate impacted groundwater, and impacted groundwater and removal of non-aqueous phase liquid (NAPL) was conducted until April 1994. IT Corporation subsequently prepared a Site Closure Recommendation Report in August 1996 and received a Remedial Action Completion Certification letter (Closure letter) dated March 6, 1997 from ACHCSA.

During its investigation, IT Corporation reported that soils generally consisted of clays and silts to approximately 15 to 20 feet bgs which were underlain by sands. Semi-confined groundwater was encountered at 9.6 to 10.5 feet bgs and the calculated groundwater flow direction was west to southwest at gradients ranging from 0.003 to 0.007 foot per foot.

The former fuel oil tanks were located approximately 500 feet west of gasoline tank T2. Due to the variability of soil conditions reported by IT Corporation on soil boring logs for monitoring wells MW-1 through MW-3 and soil borings SB-1 through SB-5, this information was deemed of little benefit to characterize subsurface conditions in the immediate vicinity of the former gasoline USTs. Groundwater monitoring data obtained from 1994 through 1996 indicated non-detectable to relatively minor benzene, toluene, ethylbenzene, and xylenes (BTEX) concentrations. Based on benzene concentrations approximating 1.0 microgram per liter (ug/L) from June 1994 through June 1996, and anticipated further decreases due to natural attenuation processes from 1996 to 2005, residual BTEX in the subsurface in the vicinity of the former fuel oil USTs was not considered applicable during subsurface investigation in the vicinity of the former gasoline USTs. In addition, up until late 2004, proposed site use was for commercial purposes.

2.2 September 2002 Investigation Summary

In September 2002, ACC advanced eight exploratory soil borings (designated B1 through B8) at select locations adjacent to the two gasoline USTs as depicted on the Fleischmann's Yeast Asset Location Map. Soil boring locations and former UST locations are illustrated on Figure 3. The eight exploratory soil borings were advanced by continuously coring with four-feet long, hydraulically-driven, hollow-stem Geoprobe® sampling tools equipped with 2-inch inside-diameter clear acetate liners. Soil borings B1 and B2 were advanced adjacent to and on each side of former gasoline UST T1. Soil boring B3 (also designated T1-Disp) was advanced at the former dispenser for UST T1. Soil borings B4 and B5 were advanced adjacent to and on two sides of former gasoline UST T2. Soil boring B6 was advanced at the midpoint between former UST T2 and its former product dispenser located inside the existing building. Finally, soil borings B7 and B8 were advanced in the estimated downgradient direction from the gasoline USTs and directly adjacent to a formaldehyde UST. The formaldehyde UST was originally going to be closed in place under Oakland Fire Services Agency (OFSA) permit but was subsequently scheduled for removal. Grab groundwater samples were collected in soil borings B1, B4, and B7. Soil and grab groundwater sample analytical results are summarized in Tables 1 and 2 in Appendix A.

Subsurface soil conditions were generally consistent across the area of investigation. In general, soils consisted of uniform silty clay and clay to a depth of approximately 16 feet below ground surface (bgs). The fine-grained clays were generally dark olive green to olive gray, medium stiff, moderately to highly plastic, damp, and displayed low estimated permeability. At approximately 15 to 16 feet bgs, sand content began to increase with depth and saturated clayey sand was observed in soil boring B1. This zone appears to be first-encountered groundwater.

2.3 August 2003 Investigation Summary

On August 4, 2003, ACC advanced twelve additional exploratory soil borings (designated B9 through B20) at select locations adjacent to and downgradient of the two gasoline USTs. Soil boring locations are illustrated on Figure 3. The twelve exploratory soil borings were advanced by continuously coring with four-feet long, hydraulically-driven, hollow-stem Geoprobe® sampling tools equipped with 2-inch inside-diameter clear acetate liners. Soil borings B9, B10, and B11 were advanced in locations approximately adjacent to former gasoline UST T1 and previously advanced soil borings B1 and B2. Soil boring B12 was advanced approximately at the midpoint between the two former gasoline USTs. Soil borings B13 and B14 were advanced adjacent to and on each side of former gasoline UST T2. Soil borings B12 and B15 through B20 were advanced at accessible locations downgradient of the two former gasoline USTs for the purposes of collecting grab groundwater samples. Soil samples were collected and analyzed from soil borings B9 through B11 and B13 through B15. Soil and grab groundwater sample analytical results are summarized in Tables 1 and 2 in Appendix A.

Results of the August 2003 Additional Subsurface Investigation confirmed the September 2002 subsurface findings that the soil conditions were highly consistent across the Site. The surface of the Site consisted of concrete and/or asphalt pavement underlain by approximately 3 to 6 inches of sand and/or gravel baserock. The soils consisted of uniform silty clay and clay to a depth of approximately 16 feet bgs. The fine-grained clays were generally dark olive green to olive gray, medium stiff, moderately to highly plastic, damp, and displayed low estimated permeability. At

approximately 15 to 16 feet bgs, sand content began to increase and groundwater was first-encountered.

Residual gasoline impacts are present in fine-grained soils primarily below 8 feet bgs in the immediate vicinity of the two former gasoline USTs and residual total petroleum hydrocarbons as gasoline (TPHg) and benzene, toluene, ethylbenzene, and xylenes (BTEX) concentrations significantly decrease with distance from the former USTs.

First-encountered groundwater was logged in poor quality clayey sands or sand/gravel stringers at approximately 16 to 18 feet bgs. Residual TPHg and BTEX impacts were present in first-encountered groundwater but these impacts appeared to be localized in the vicinity of and downgradient of the two former gasoline USTs. Based on the relatively low BTEX to TPHg ratios and the approximate age of the former USTs, weathering has occurred and BTEX appears to be preferentially degraded by natural attenuation processes.

2.4 Formaldehyde Tank Removal - 2004

ACC met with Mr. Leroy Griffin of the Oakland Fire Department (OFD) in November 2004 to discuss the Site. Mr. Griffin stated his agency would treat the formaldehyde tank as a separate issue from the former gasoline USTs and the OFD would be the lead agency for the formaldehyde tank removal.

ACC and its subcontractor, WRS Infrastructure and Environmental (WRS) of San Leandro, exposed the UST on October 4, 2004. The reported 7,500-gallon stainless steel UST was actually a 14,000-gallon square steel tank encased in a concrete vault. ACC documented the subsurface work during UST removal and closure procedures and performed the required confirmation sampling. The UST excavation and removal was observed by Mr. Keith Matthews of the OFD.

Prior to UST removal, ACC performed colorimetric tube sampling for formaldehyde and internal vapors were evaluated with the use of a lower explosion limit (LEL) meter as requested by the OFD. Following confirmation that the colorimetric tubes, LEL and oxygen levels met acceptable criteria, the UST was subsequently removed with approval of the OFD. As approved by the OFD, no additional confirmation soil samples were collected below the tank vault and WRS crushed the formaldehyde UST and recycled it as scrap metal.

The OFD prepared a no further action letter dated March 21, 2005 regarding the formaldehyde UST. A copy of the letter is attached in Appendix D.

3.0 FIELD PROCEDURES - MAY 2005

Between May 10 and 12, 2005, ACC advanced sixteen additional exploratory soil borings (designated B21 through B36) at locations adjacent to and downgradient of the two gasoline USTs and the fuel dispenser as shown on Figure 3, May 2005 Investigation Site Plan. The approved soil boring locations were marked with white paint and Underground Service Alert was notified at least 48 hours prior to commencing work. A soil boring permit was obtained from the Alameda County Public Works Agency and a copy is attached in Appendix E.

The additional exploratory soil borings were advanced by continuously coring with a four-foot long, hydraulically driven, hollow-stem Geoprobe® sampling tool equipped with 2-inch inside-diameter clear acetate liners. Soil borings B21, B22, B23, and B24 were advanced adjacent to and on each side of former gasoline UST T1. Soil boring B25 was advanced in the inferred groundwater downgradient direction of former gasoline UST T2. Soil borings B26 and B27 were advanced adjacent to the former fuel dispenser. Soil samples were collected and analyzed from soil borings B9 through B11 and B13 through B15. Soil borings B28, B29, B30, B31, B32, B33, and B34 were advanced in the inferred groundwater downgradient direction of the known source areas for the purpose of collecting grab groundwater samples. Borings B28, B29, B30, B31, and B32 were located on the concrete foundation of the former building, four feet higher in elevation than the remaining borings of the May 2005 investigation. Soil borings B35 and B36 were additional borings advanced at respectively equal distant locations between B34 and the southwestern property boundary to characterize groundwater quality.

The sampling probe and rods were cleaned prior to use and between sample drives by washing them with a trisodium phosphate and potable water solution, a potable water rinse, and distilled water rinse. Upon removal from the sampler, each recovered soil core was visually inspected, logged, and appropriate intervals screened with a photoionization detector (PID). The sample intervals were primarily logged to determine relative permeability and evaluate migration potential.

Grab groundwater samples were collected in soil borings B21, B22, B24, B25, B27, B28, B29, B30A, B31, B32, B33, B34, B35, and B36 by advancing a Geoprobe® sampling tool equipped with a clean, four-foot-long stainless steel screen. Soil boring B30, located on the former building slab approximately four feet higher in elevation, encountered refusal at sixteen feet bgs of the concrete foundation or 12 feet bgs of the Site grade. The soil boring was moved approximately 17 feet west of the original location, where it was designated B30A and successfully advanced. Grab groundwater samples were collected in each boring within the top four feet of encountered groundwater with the use of a new disposable polyethylene bailer and immediately transferred to 40-milliliter volatile organic analysis (VOA) vials without headspace. Following collection, the VOA vials were labeled, placed in a pre-chilled insulated container, and then transported following chain of custody protocol to STL San Francisco (STL-SF), a state-certified laboratory, for analysis.

Drilling was performed under the direction of a senior geologist, and the surface materials in the soil borings were identified using visual and manual methods. Soil borings B22, B23, B24, B25, B26, B27, B30, B30A, B34, and B35 were logged during drilling operations according to the Unified Soil Classification System (USCS) and the lithologic logs of these soil borings are

included as Appendix B. Following drilling and sample collection, each soil borings was abandoned with neat cement flush to grade. Soil borings B21, B28, B29, B31, B32, B33, and B36 were advanced for the purpose of obtaining grab groundwater samples and were not logged.

3.1 Piezometer Installation

Three temporary piezometers, P-1, P-2, and P-3 were installed adjacent to soil borings B23, B30A, and B34, respectively, to confirm the stabilized depth to groundwater, groundwater flow direction, and groundwater gradient. The boring logs and the piezometer construction diagrams of P-1, P-2, and P-3 are included in Appendix B.

The piezometer soil borings were continuously-cored and advanced to a depth of approximately 5 feet into the water bearing zone, to an estimated 20 feet bgs, via a Geoprobe® direct penetration technology rig equipped with 2.5-inch-diameter sample core tool. Each soil boring was cored to 20 feet bgs and a pre-engineered, 1-inch-diameter piezometer well equipped with a 2.0-inch diameter, 5-foot long screen interval and pre-engineered annular sandpack was hydraulically pushed into the open soil boring. As part of standard protocol during Geoprobe coring, undisturbed soil samples were obtained for soil classification in the continuously-cored intervals ranging from 2.0 to 4.0 feet. First encountered groundwater was generally observed at approximately 16 feet bgs.

Since the top of the pre-engineered annular sandpack is a metal plate, the thick cement grout sanitary seal does not make contact with the sandpack, and should not adversely affect the filter pack or groundwater contact with the piezometer. In addition, ACC observed the placement of the cement grout and confirmed that the volume of cement grout being placed in each piezometer annular space was appropriate. Each piezometer well was then completed with cemented metal vault boxes equipped with lids with rubber O-rings and screws.

The piezometers were developed by manually purging after installation and approximately 10 gallons (40 annular volumes) were removed. Following development, a groundwater sample was collected and the DO level measured from each piezometer in accordance with ACC and the SFBRWQCB protocol guidelines. Piezometer development and sampling forms are included in Appendix F.

Piezometer P-2 was found to be dry; ACC reinstalled P-2R on June 17, 2005 and was situated approximately 110 feet south west of P-2. The boring log and the piezometer construction diagram of P-2R are included in Appendix B. The piezometers were surveyed by a licensed land surveyor according to current State of California, GeoTracker database protocols.

The water samples collected from the newly installed wells were submitted to a state-certified analytical laboratory following standard chain of custody protocol. The samples were analyzed for TPHg, BTEX, and methyl tertiary butyl ether (MTBE) by EPA Methods 8260B. The groundwater sample results are summarized in Table 4 located in Appendix A. Copies of STL-SF laboratory reports and chain of custody records are included in Appendix C. When the piezometers are no longer necessary, they will be properly destroyed according to SFBRWQCB and ACHCSA requirements.

4.0 FINDINGS

4.1 Subsurface Conditions

The surface of the Site consists of concrete and/or asphalt pavement underlain by approximately 3 to 6 inches of sand and/or gravel baserock. The former building foundation was four feet higher in elevation than the surface of the Site. Subsurface soil conditions were highly consistent across the Site. In general, soils consisted of uniform silty clay and clay to a depth of approximately 16 feet bgs. The fine-grained silty clays were found to be medium to very stiff; moderately to highly plastic, moist to saturated, and displayed low estimated permeability. At approximately 15 to 16 feet bgs, the coarser-grained content began to increase with depth and a saturated clayey sand and/or sand and/or gravelly clay/clayey gravel was observed in soil borings B22, B27, B30A, B34, and B35. This zone appears to contain first-encountered groundwater.

All soil borings were continuously cored to better characterize the soils present. Soils were continuously logged and screened with a ppbRAE photoionization detector (PID). Some elevated PID readings, characteristic odors, and/or soil discoloration were noted during sampling activities. Additional details are included in the lithologic logs in Appendix B.

4.2 Analytical Results

Twenty-nine soil samples and fourteen grab groundwater samples were collected and analyzed for TPHg, BTEX, and MTBE by EPA Method 8260B and 3 soil and 2 groundwater samples were analyzed for fuel oxygenates by EPA Method 8260B. Soil sample analytical results are summarized in Table 3, grab groundwater and piezometer sample results are summarized in Table 4, and fuel oxygenate analytical results are summarized in Table 5. Tables are located in Appendix A. Copies of STL-SF laboratory reports and chain of custody records are included in Appendix C.

5.0 DISCUSSION

After the September 2002 and August 2003 investigations confirmed that gasoline impacts existed in soil and groundwater in the immediate vicinity of the two former gasoline USTs, ACHCSA requested additional investigation of the former gasoline USTs and ACC submitted a Work Plan dated July 19, 2004. ACHCSA responded to this Work Plan on March 28, 2005. Comments and additional requested work have been incorporated into the scope of work summarized in this report. The primary goal of additional this site investigation was to further delineate the degree and extent of petroleum hydrocarbon impact in soil and groundwater, determine if remedial soil excavation or dewatering is warranted to achieve applicable risk-based cleanup goals, and document the groundwater flow direction and gradient through the use of piezometers in the vicinity of the former gasoline USTs.

ACC advanced four additional exploratory soil borings around former gasoline USTs T1 and T2 and two additional soil borings adjacent to the former fuel dispenser to collect additional representative soil samples. Grab groundwater samples were collected from first-encountered groundwater at each former gasoline UST, the former fuel dispenser, and nine locations located in the inferred groundwater downgradient direction of the two known gasoline fuel source areas. Groundwater flow direction is reported to be west - northwest in the vicinity of the Site, which is

consistent with regional topography. IT Corporation's August 1996 Site Closure Recommendation Report Fleischmann's Yeast Facility, 921 98th Avenue, Oakland, California provides groundwater gradient data between 1992 and 1996 indicating a southwest to west gradient of approximately 0.003 to 0.007 foot per foot. The data was collected from the four IT groundwater-monitoring wells formerly located at the northern portion of the Site, approximately 400 to 500 feet to the northwest of the May 2005 investigation area. In addition, a west to northwest groundwater flow direction is inferred from topographic contours and our experience with other similar UST sites in Oakland, San Leandro, and Hayward.

Generally, findings of additional site investigation were consistent with the September 2002 and August 2003 soil boring investigations. Soil impacts appear to be localized in fine-grained soils immediately adjacent to the two former USTs and the plume of impacted groundwater is localized but trending in the estimated downgradient direction of each UST. A previously unknown source area was discovered in the vicinity of B34 and B35 located approximately 130 feet and 170 feet, respectively, west of former gasoline UST T2; and traces of free product were observed in B34 soil at a depth of 18 feet bgs.

5.1 Soil

Exploratory soil borings revealed that soils across the area of investigation consist of fine-grained silts and clays from the surface to approximately 15 to 16 feet bgs. These soils typically limit the migration potential of released TPHg due to the petroleum hydrocarbon adsorption to the soil matrix and the low soil permeability. Soil impacts appear to be localized in the fine-grained silty clays generally present in the vicinity of the two former gasoline USTs. TPHg concentrations in soil ranged from nondetect (less than 1 milligram per kilogram (mg/kg), the laboratory-reporting limit) to 380 mg/kg in soil boring B35 at 12 feet bgs. Benzene concentrations ranged from nondetect (less than 0.005 mg/kg, the laboratory reporting limit) to 0.048 mg/kg in soil boring B34 at 16 feet bgs. Minor amounts of black, oily material (suspect gasoline NAPL) was observed in gravely clay at a depth of 18 feet bgs in B34 only, but did not appear to be present in recoverable amounts.

Figure 4 shows concentrations of TPHg in soil plotted at 8.0 feet to 10.5 feet bgs and Figure 5 shows concentrations of TPHg in soil plotted at depths of 12 feet and the bottom of given boreholes. Figure 5 reveals a consistent soil TPHg concentration in the 300 to 380 mg/kg range at 12 feet depth in the former UST locations of T1, T2, the fuel dispenser, and soil borings B34 and B35. Soil borings B34 and B35 are not in a suspect source area. Figure 5 also shows that the TPHg concentration diminishes with depth, from 12 feet bgs to the bottom of the borehole in the former UST locations of T1, T2, the fuel dispenser, and soil borings B34 and B35.

5.2 Water

First-encountered groundwater was logged in poor quality clayey sands and/or moderately permeable gravels at approximately 16 feet bgs. Grab groundwater sample analytical results indicate that water is likely being impacted by residual TPHg in soil at each former UST location and at soil borings B34 and B35. Soil borings B34 and B35 are not in a suspected source area. TPHg concentrations in groundwater ranged from nondetect (less than 50 microgram per liter (µg/l), the laboratory-reporting limit) to 90,000 ppb in soil boring B25 adjacent to former UST T2. Benzene concentrations ranged from nondetect (less than 0.50 µg/l, the laboratory-reporting

limit) to 2,100 µg/l also in soil boring B25. The analytical results for TPHg and BTEX were nondetect for grab groundwater sample from soil boring B36, located closest to the southwestern property boundary. However, based on the relatively low BTEX to TPHg ratios and the approximate age of the former USTs, weathering is occurring and BTEX is being preferentially degraded by natural attenuation processes.

Concentration maps for TPHg and benzene, illustrated in Figures 6 and 7, illustrate that TPH-impacted groundwater appears to be localized along the southeast upgradient boundary of the Site adjacent to the former UST locations of T1, T2, the fuel dispenser, and soil borings B34 and B35. ACC observed that the first-encountered water-bearing zone was relatively poor quality, groundwater was turbid, and saturated soils generally contained sufficient disseminated silt or clay particles to reduce permeability. These types of saturated soils, coupled with a relatively shallow groundwater gradient, typically retard optimum dissolved petroleum hydrocarbon migration in groundwater.

Isoconcentration maps for TPHg and benzene are presented in Figures 8 and 9. Isoconcentration contours are presented for illustration purposes only. Due to the limitations of interpolation software and the assumptions made in the gridding algorithms, isoconcentration contours simply interpolate TPHg and BTEX concentrations in groundwater between a relatively few data points, and generally serve to illustrate the approximate extent of the "plume." Figure 10 illustrates the calculated groundwater flow direction and gradient from piezometer water data obtained in August 2005. The calculated gradient was 0.048 foot per foot to the north-northwest.

The analytical results found to be less than the laboratory detection limit reported in the grab groundwater samples collected from soil borings B21, B28, B29, B30A, and B36 approximate the horizontal extent of reportable TPHg and benzene impact in groundwater. The nondetect analytical results also demonstrate that the plume of impacted groundwater originating from the former USTs and fuel dispensers, and B34 and B35, appears to be largely localized to each known source area.

6.0 CONCLUSIONS

Based on findings of this additional investigation and previous investigation, sample analytical results, and field observations, ACC has made the following conclusions regarding soil and groundwater conditions at the Site:

- Groundwater measurements obtained in piezometers P1, P2R, and P3 are inconsistent, the calculated groundwater flow directions have ranged from south-southeast at 0.002 foot per foot to north-northwest at 0.030 foot per foot;

- Residual gasoline impacts are primarily present in fine-grained soils primarily below 8 feet bgs in the immediate vicinity of the two former gasoline USTs T1 and T2 and the fuel dispenser and residual petroleum hydrocarbon concentrations generally decrease with horizontal distance from the two former USTs and vertical depth below the two former USTs;

- Gasoline impacts demonstrated by analytical testing appear to be present in fine-grained soils primarily between 8 feet to 12 feet bgs in B34 and B-35, located approximately 130 feet and

170 west respectively of former UST T2, and residual TPHg and BTEX concentrations decrease to nondetect in soil borings B34 and B35 at 20 and 16 feet bgs, respectively;

- Residual petroleum hydrocarbon impacts are present in first-encountered groundwater but these impacts appear to be generally localized in the vicinity of the two former source areas (gasoline USTs T1 and T2 and their respective fuel dispensers);

- Gasoline NAPL impacts are present in first-encountered groundwater in soil borings B34 and B35, located approximately 130 feet and 170 west respectively of former UST T2, but these groundwater impacts appear to be primarily concentrated in thin permeable zones observed in these two soil borings;

- The analytical results for TPHg and BTEX were nondetect for grab groundwater sample from B36, the soil boring located closest to the southwestern property boundary;

- Residual TPHg and benzene impacts found in all soil borings do not exceed the California Regional Water Quality Control Board's risk-based screening level (RBSL) for gasoline of 400 mg/kg and the RBSL for benzene of 0.39 mg/kg;

- Identified petroleum hydrocarbon impacts in groundwater likely present minimal potential human health risk due to their depth, the thickness of fine-grain silts and clays generally present at the Site above first-encountered groundwater, the apparent lack of any offsite migration, the lack of any potential downgradient or onsite receptors (the onsite water extraction well is reportedly screened below 250 feet), and the relatively low to non-detectable concentrations of benzene;

- Residual petroleum hydrocarbon concentrations in soil and groundwater will likely continue to decrease with time through natural attenuation processes.

7.0 RECOMMENDATIONS

ACC recommends meeting with the ACHCSA to discuss the site history, the findings of this additional site characterization and the scope of interim corrective action (remedial source removal). The specific goals of the meeting will be to discuss agency concerns, identify specific data necessary to justify full regulatory closure in regards to the former USTs, and determine appropriate risk-based source removal necessary to approve residential use of the property.

In addition, ACC recommends investigating the general area of soil borings B34 and B35 to detect any metallic anomalies indicative of an UST through the use of ground penetrating radar (GPR). GPR is more conclusive in fine-grained soils like those observed at the Site.

Additionally, discussion in the meeting could include: 1) the necessity for soil gas sampling; 2) the time table for submitting well survey and utility survey data; and 3) requirement of the Interim Corrective Action Work Plan.

8.0 REFERENCES

IT Corporation, August 1996, Site Closure Recommendation Report, Fleischmann's Yeast Plant, 921 98th Street, Oakland, California. Prepared for Fleischmann's Yeast.

ACC Environmental Consultants, Inc., July 8, 2002, Phase I Environmental Site Assessment Report, 921 98th Street, Oakland, California. Prepared for Mr. Stephen Vanni, Plant Manager, Fleischmann's Yeast, Oakland, California.

ACC Environmental Consultants, Inc., January 17, 2003, Subsurface Investigation Report, 921 98th Street, Oakland, California. Prepared for Mr. Stephen Vanni, Plant Manager, Fleischmann's Yeast, Oakland, California.

ACC Environmental Consultants, Inc., September 2, 2003, Additional Subsurface Investigation Report, 921 98th Street, Oakland, California. Prepared for Mr. Robert Ribbing, Fleischmann's Yeast, Fenton, Missouri.

ACC Environmental Consultants, Inc., December 2, 2004, Formaldehyde UST Removal Report, 921 98th Street, Oakland, California. Prepared for Ms. Sally Snow, Burns Philp, Sydney, Australia.

9.0 LIMITATIONS

The service performed by ACC has been conducted in a manner consistent with the levels of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the area. No other warranty, expressed or implied, is made.

The conclusions presented in this report are professional opinions based on the indicated data described in this report and applicable regulations and guidelines currently in place. They are intended only for the purpose, Site, and project indicated. Opinions and recommendations presented herein apply to site conditions existing at the time of our study.

ACC has included analytical results from a state-certified laboratory, which performs analyses according to procedures suggested by the United States Environmental Protection Agency and the State of California. ACC is not responsible for laboratory errors in procedure or result reporting.

Table 1 - Soil Sample Results

Sample ID	Date Sampled	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylene	MTBE
B1-11.0	09/16/02	300	2.3	<0.62	6.3	<0.62	<0.62
B1-15.0	09/16/02	410	5.5	9.3	9.6	43	<3.1
B2-8.0	09/16/02	26	<0.62	<0.62	1	1.7	<0.62
B2-12.0	09/16/02	1,400	23	70	48	230	<6.2
B4-12.0	09/16/02	130	<0.62	<0.62	3.3	2.4	<0.62
B4-16.0	09/16/02	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
B6-5.0	09/16/02	110	1.6	<0.62	2.3	9	<0.62
B5-8.0	09/16/02	870	<6.2	<6.2	<6.2	<6.2	<6.2
B5-12.0	09/16/02	180	<0.62	<0.62	1.4	<0.62	<0.62
T1 DISP- 2.5	09/16/02	370	<6.2	<6.2	13	47	<6.2
T1 DISP- 5.0	09/16/02	80	<0.62	<0.62	1.2	<0.62	<0.62
B9-12.0	08/04/03	2,500	19	95	40	230	<2.5
B10-12.0	08/04/03	860	7.3	41	18	130	<0.5
B11-4.0	08/04/03	3	0.21	<0.005	0.12	0.044	<0.005
B11-8.0	08/04/03	1.7	0.027	<0.005	0.019	<0.005	<0.005
B11-12.0	08/04/03	400	0.76	7.6	5.8	35	<0.5
B11-16.0	08/04/03	<1	0.011	0.021	0.016	0.077	<0.005
B13-4.0	08/04/03	<1	<0.005	<0.005	<0.005	<0.005	<0.005
B13-8.0	08/04/03	<1	<0.005	0.0056	<0.005	0.0099	<0.005
B13-12.0	08/04/03	110	<0.5	<0.5	2	<0.5	<0.5
B13-16.0	08/04/03	<1	<0.005	<0.005	<0.005	<0.005	<0.005
B14-8.0	08/04/03	5.2	<0.005	<0.005	<0.005	<0.005	<0.005
B14-12.0	08/04/03	35	<0.023	<0.023	<0.023	<0.023	<0.023
B14-16.0	08/04/03	<1	<0.005	<0.005	<0.005	<0.005	<0.005
B15-8.0	08/04/03	9	<0.054	<0.023	0.024	<0.023	<0.023

Notes: All results reported in milligrams per kilogram (mg/kg), approximately equal to parts per million (ppm)

< Sample tested below the laboratory minimum detection limit indicated

Table 2 - Grab Groundwater Results

Sample ID	Date Sampled	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylene	MTBE
B1 -W	9/16/2002	8,600	1,100	340	730	390	<10
B4 -W	9/16/2002	17,000	120	10	850	330	<10
B7 -W	9/16/2002	<50	<0.50	<0.50	<0.50	<1.0	1.8
B10-W	8/4/2003	190	16	36	6.6	30	1.3
B12-W	8/4/2003	72	<0.50	<0.50	2	<1.0	1.6
B13-W	8/4/2003	17,000	58	<5.0	620	29	<5.0
B15-W	8/4/2003	72,000	790	<25	950	530	<25
B16-W	8/4/2003	4,100	59	100	100	440	<2.5
B17-W	8/4/2003	16,000	7.5	3.6	390	420	<2.5
B18-W	8/4/2003	74	1.1	<0.50	<0.50	<1.0	1.1
B20-W	8/4/2003	<50	1	0.62	0.5	1.2	0.98

Notes: All results reported in micrograms per liter (ug/L), approximately equal to parts per billion (ppb)

< Sample tested below the laboratory minimum detection limit indicated

TABLE 3 –May 2005 SOIL ANALYTICAL RESULTS

Boring-Depth	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE
B22 5.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005
B22 10.5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005
B22 15.0	<3.9	0.027	0.097	0.086	0.39	<0.020
B22 32.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005
B23 5.0	<1.0	<0.005	<0.005	<0.005	<0.005	0.01
B23 10.0	1.2	0.032	<0.005	0.038	0.035	<0.005
B23 15.0	200	<0.5	0.64	1.0	3.4	<0.5
B24 8.0	1.2	0.0099	<0.005	<0.005	<0.005	<0.005
B24 12.0	360	<0.5	1.7	4.9	22	<0.5
B24 16.0	91	<0.5	<0.5	0.94	3.7	<0.5
B25 8.0	66	<0.5	<0.5	<0.5	0.98	<0.5
B25 12.0	360	<0.5	1.2	4.7	22	<0.5
B25 16.0	<1.0	<0.005	<0.005	<0.005	0.0054	<0.005
B26 4.0	4.6	<0.015	<0.015	<0.015	<0.015	<0.015
B26 8.0	170	<0.5	<0.5	0.78	<0.5	<0.5
B26 12.0	350	<0.5	<0.5	4.6	1.5	<0.5
B26 15.5	160	<0.5	<0.5	<0.5	<0.5	<0.5
B27 8.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005
B27 12.0	63	<0.5	<0.5	<0.5	<0.5	<0.5
B30A 15.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005
B34 4.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005
B34 8.0	1.3	<0.005	<0.005	<0.005	<0.005	<0.005
B34 12.0	300	<0.5	<0.5	5.1	1.9	<0.5
B34 16.0	10	0.048	0.029	0.12	0.25	<0.023
B34 20.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005
B35 4.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005
B35 8.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005
B35 12.0	380	<0.5	<0.5	3.5	<0.5	<0.5
B35 16.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005

Notes: All results reported in milligrams per kilogram (mg/kg), approximately equal to parts per million (ppm)
< Sample tested below the laboratory minimum detection limit indicated

TABLE 4 – May 2005 GROUNDWATER ANALYTICAL RESULTS

Sample ID	Approximate Groundwater Sample Interval feet below ground surface	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE
B21 W	16 – 20	<50	<0.50	<0.50	<0.50	<1.0	0.94
B22 W	30 - 34	3,900	150	300	220	850	<2.5
B24 W	12 – 16	1,200	36	32	60	270	<0.50
B25 W	16 - 20	90,000	2,100	2,200	3,500	11,000	<250
B27 W	16 – 20	4,000	<0.50	9.8	47	150	0.64
B28 W	24 - 28	<50	<0.50	<0.50	<0.50	<1.0	<0.50
B29 W	20 - 24	<50	<0.50	<0.50	<0.50	<1.0	0.66
B30A W	24 - 28	<50	<0.50	<0.50	<0.50	<1.0	<0.50
B31 W	20 - 24	<50	<0.50	<0.50	<0.50	<1.0	<0.50
B32 W	16 - 20	120	1.6	<1.0	5.5	8.6	1.6
B33 W	20 - 24	8,800	81	74	170	540	<2.5
B34 W	20 - 24	11,000	79	460	550	2,300	<5.0
B35 W	12 - 18	10,000	15	<5.0	120	13	<5.0
B36 W	16 - 20	<50	<0.50	<0.50	<0.50	<1.0	<0.50
P-1 (B23)	11 – 15	630	150	47	23	65	0.68
P-2 (B30A)	Dry well	Dry well	Dry well	Dry well	Dry well	Dry well	Dry well
P-2R Installed & Sampled 6/17/05	16 - 20	1,500	9.6	2.0	15	5.9	1.1
P-3 (B-35)	2 - 12	110[1]	<0.50	<0.50	<0.50	<1.0	<0.50

Notes: *All results reported in micrograms per liter (µg/L), approximately equal to parts per billion (ppb)*
< Sample tested below the laboratory minimum detection limit indicated
[1] Reported Total Petroleum Hydrocarbons do not match the laboratory's gasoline standard pattern

TABLE 5 - May 2005 FUEL OXYGENATE ANALYTICAL RESULTS

Sample ID	Media	TBA	MTBE	DIPE	ETBE	TAME
B22-15.0	Soil	<0.010	<0.020	<0.010	<0.005	<0.005
B25-12.0	Soil	<2.5	<0.50	<1.0	<0.50	<0.50
B26-12.0	Soil	<2.5	<0.50	<1.0	<0.50	<0.50
B27 W	Water	<5.0	0.64	<1.0	<0.50	<0.50
B31 W	Water	<5.0	<0.50	<1.0	<0.50	<0.50

Notes : All soil results reported in milligrams per kilogram (mg/kg)
All water results reported in micrograms per liter (µg/L)
< Sample tested below the laboratory minimum detection limit indicated

EQUIPMENT: Geoprobe Hydraulic Sampling Device
OPERATED BY: Environmental Control Associates
LOGGED BY: Karel Detterman
LOCATION: 921 98th Avenue, Oakland, CA
WORK DATE: 5/10/05
BORING: B22 Page 1 of 2

Soil Color Color Code (Munsell Soil Color Chart)	PID (ppm)	SAMPLE ID	depth below ground surface (ft)	
			0	Concrete
			2	Silty-clay (CL), moist, stiff
			4	Silty-clay (CL), dark brown, moist, stiff
7.5YR N2/	200+	B22-5.0	6	
				Groundwater rose to 7.5'
			8	Silty-clay (CL), moist, stiff, no odor, color change to olvie brown
2.5Y 4/3				
	200+	B22 10.0	10	Silty-clays (CL), dark brown, no odor or discoloration, dry
			12	
			14	Silty-clay (CL), same as above, no odor
	18.5	B22 15.0	16	
			18	
			20	
			22	
2.5Y 5/2			24	Silty sand (SP), poorly graded medium, loose, saturated, grey brown; water-bearing zone ends between 28'-32'
			26	
			28	Silty-clay (CL), v.dark grey,saturated, rare rounded gravel
5Y 3/1				

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LOG OF SOIL BORING B22
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921 98th Aveune
Oakland, California

Soil Color Color Code (Munsell Soil Color Chart)	PID (ppm)	SAMPLE ID	SAMPLE INTERVAL	depth below ground surface (ft)	**EQUIPMENT: Geoprobe Hydraulic Sampling Device** **OPERATED BY: Environmental Control Associates** **LOGGED BY: Karel Detterman** **LOCATION: 921 98th Avenue, Oakland, CA** **WORK DATE: 5/10/05** **BORING: B22 Page 2 of 2**
				30	Silty sand (SP), poorly graded medium, loose, saturated, grey brown; water-bearing zone ends between 28'-32'
		B22 32.0		32	
5Y 3/1				34	Silty-clay (CL), v.dark grey,saturated, rare rounded gravel
				36	TOTAL DEPTH OF BORING: 34 feet bgs Groundwater encountered at 18 feet bgs
				38	
				40	
				42	
				44	
				46	
				48	
				50	
				52	
				54	
				56	
				58	

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921 98th Avenue
Oakland, California

EQUIPMENT: Geoprobe Hydraulic Sampling Device
OPERATED BY: Environmental Control Associates
LOGGED BY: Karel Detterman
LOCATION: 921 98th Avenue, Oakland, CA
WORK DATE: 5/10/05
BORING: B23

Soil Color / Color Code (Munsell Soil Color Chart)	PID (ppm)	SAMPLE ID	depth below ground surface (ft)	
			0	Asphalt
5Y2.5/1			2	Clayey silty (ML), moist, stiff, no odor
			4	
2.5Y 3/2	200+	B23 5.0		Silty-clay (CL), moist, stiff, very dark grey brown
			6	
			8	Silty-clay (CL), same as above
	45	B23 10.0	10	
			12	Silty-clay (CL), same as above
			14	Silty-clay (CL), same as above, no odor
	158	B23 15.0	16	TOTAL DEPTH OF BORING: 15 feet bgs GROUNDWATER NOT ENCOUNTERED
			18	
			20	
			22	
			24	
			26	
			28	

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LOG OF SOIL BORING B23

921 98th Aveune
Oakland, California

EQUIPMENT: Geoprobe Hydraulic Sampling Device
OPERATED BY: Environmental Control Associates
LOGGED BY: Karel Detterman
LOCATION: 921 98th Avenue, Oakland, CA
WORK DATE: 5/10/05
BORING: B24

Soil Color Color Code (Munsell Soil Color Chart)	PID (ppm)	SAMPLE ID	depth below ground surface (ft)	
			0	Concrete and base rock
10YR2.3/2			2	Silty Clay (CL), moist, stiff, no odor, very dark grey brown
			4	
2.5Y 3/2			6	
	0.4	B24 8.0	8	Silty-clay (CL), moist, stiff, very dark grey
	5.7		10	
	129	B24 12.0	12	Silty-clay (CL), moist, very stiff
			14	Silty-clay (CL), very stiff to hard
	90	B24 16.0	16	
			18	TOTAL DEPTH OF BORING: 16 feet bgs GROUNDWATER NOT ENCOUNTERED
			20	
			22	
			24	
			26	
			28	

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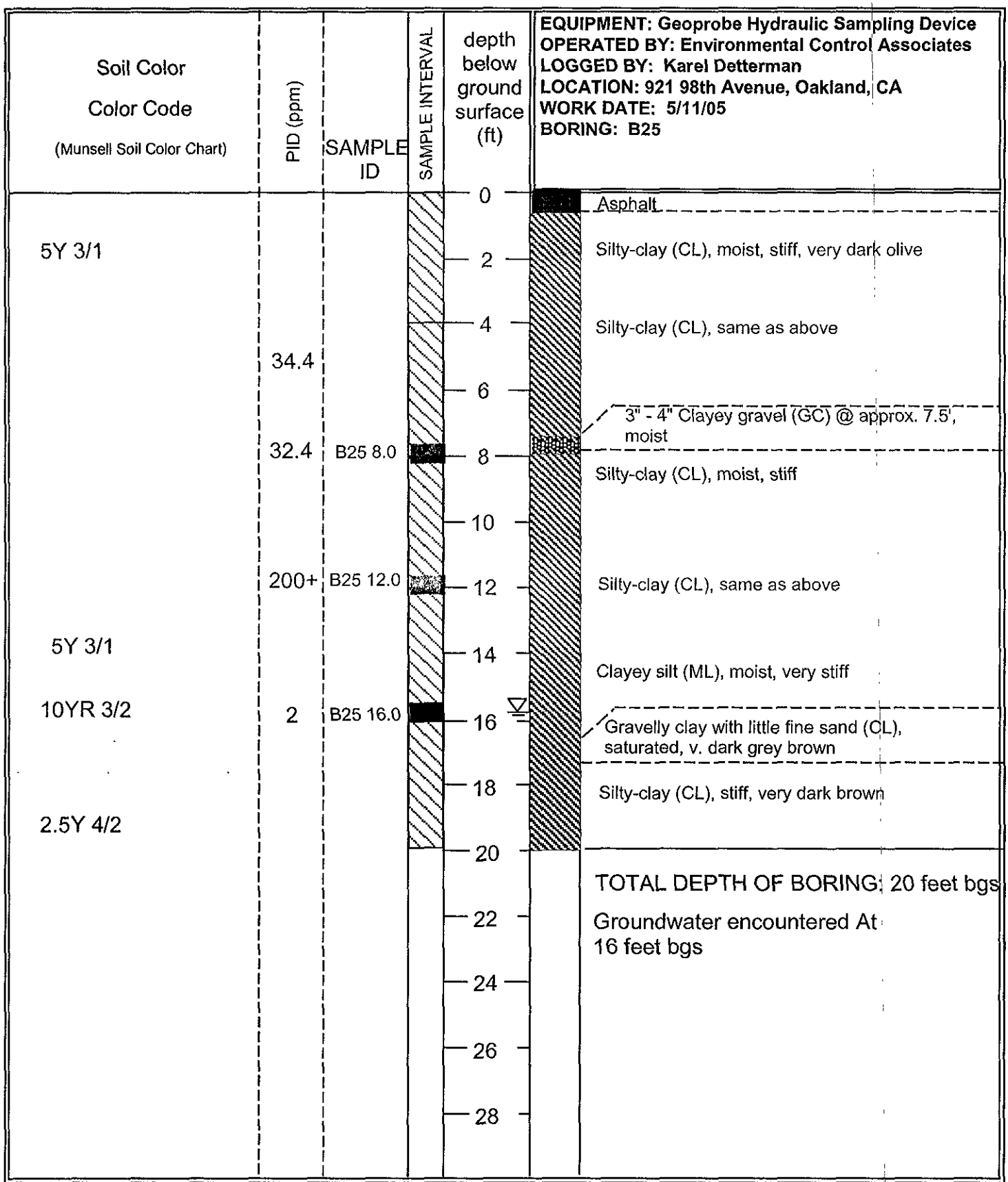
LOG OF SOIL BORING B24

921 98th Aveune
Oakland, California

EQUIPMENT: Geoprobe Hydraulic Sampling Device
OPERATED BY: Environmental Control Associates
LOGGED BY: Karel Detterman
LOCATION: 921 98th Avenue, Oakland, CA
WORK DATE: 5/11/05
BORING: B25



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LOG OF SOIL BORING B25

921 98th Aveune
Oakland, California

Soil Color Color Code (Munsell Soil Color Chart)	PID (ppm)	SAMPLE ID	SAMPLE INTERVAL	depth below ground surface (ft)	EQUIPMENT: Geoprobe Hydraulic Sampling Device OPERATED BY: Environmental Control Associates LOGGED BY: Karel Detterman LOCATION: 921 98th Avenue, Oakland, CA WORK DATE: 5/11/05 BORING: B26
				0	Asphalt
				2	
	9.2			4	Silty-clay (CL), moist, stiff, TPH odor
				6	
2.5Y N3	99	B26 8.0		8	Silty-clay (CL), moist, stiff, dark grey, TPH odor
				10	
	73	B26 12.0		12	Silty-clay (CL), same as above
				14	
	151	B26 15.5		16	Silty-clay (CL), same as above
				18	TOTAL DEPTH OF BORING: 16 feet bgs GROUNDWATER NOT ENCOUNTERED
				20	
				22	
				24	
				26	
				28	

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LOG OF SOIL BORING B26

921 98th Aveune
Oakland, California

EQUIPMENT: Geoprobe Hydraulic Sampling Device
OPERATED BY: Environmental Control Associates
LOGGED BY: Karel Detterman
LOCATION: 921 98th Avenue, Oakland, CA
WORK DATE: 5/11/05
BORING: B27

Soil Color Color Code (Munsell Soil Color Chart)	PID (ppm)	SAMPLE ID	depth below ground surface (ft)	
			0	Asphalt
			2	Interpreted as fill to 3.5' bgs
10YR 3/2	0.7		4	Silty-clay (CL), moist, stiff, very dark grey brown
			6	
2.5Y N3	5.9	B27 8.0	8	Silty-clay (CL), moist, stiff, very dark grey
			10	
	58	B27 12.0	12	Silty-clay (CL), same as above
			14	
	169		16	Silty-clay (CL), same as above
				▽ Clayey gravel (GC), loose, saturated
			18	Silty-clay (CL), trace round gravel
			20	
			22	TOTAL DEPTH OF BORING: 20 feet bgs Groundwater encountered at 17' bgs
			24	
			26	
			28	

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LOG OF SOIL BORING B27

921 98th Aveune
Oakland, California

Soil Color Color Code (Munsell Soil Color Chart)	PID (ppm)	SAMPLE ID	SAMPLE INTERVAL	depth below ground surface (ft)	**EQUIPMENT: Geoprobe Hydraulic Sampling Device** **OPERATED BY: Environmental Control Associates** **LOGGED BY: Karel Detterman** **LOCATION: 921 98th Avenue, Oakland, CA** **WORK DATE: 5/10/05** **BORING: B30** **B30 located on four-feet thick former building foundation**
				0	Concrete foundation and base rock
				2	
				4	Silty-clay (CL), very soft and very moist, no odor
				6	
				8	Silty-clay (CL), same as above
				10	
				12	Tip recovery - looks like concrete dust
				14	AUGER REFUSAL AT 12 FEET TOTAL DEPTH OF BORING: 12 FEET Re-located boring 17 feet to south west and renamed B30A
				16	
				18	
				20	
				22	
				24	
				26	
				28	

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LOG OF SOIL BORING B30

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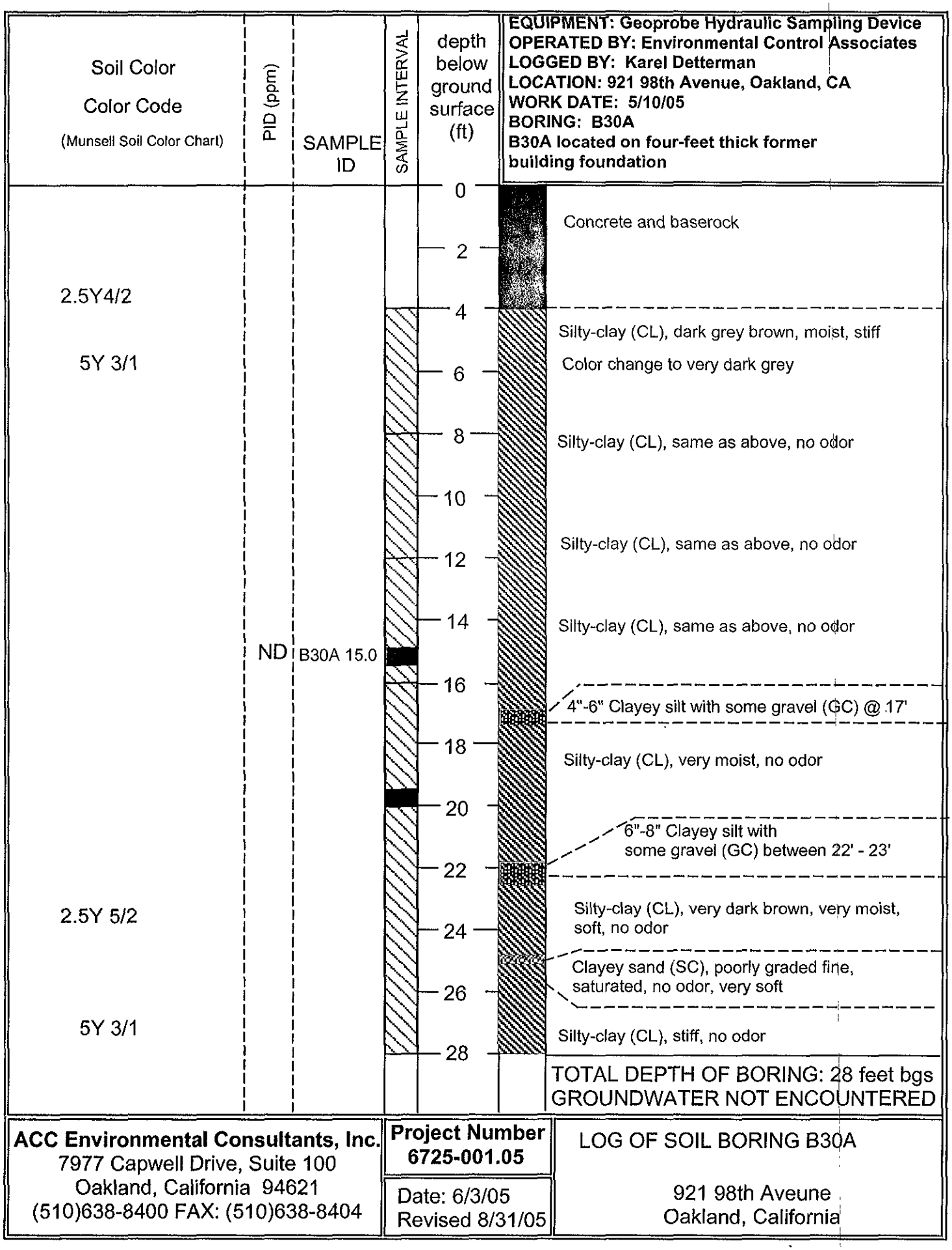

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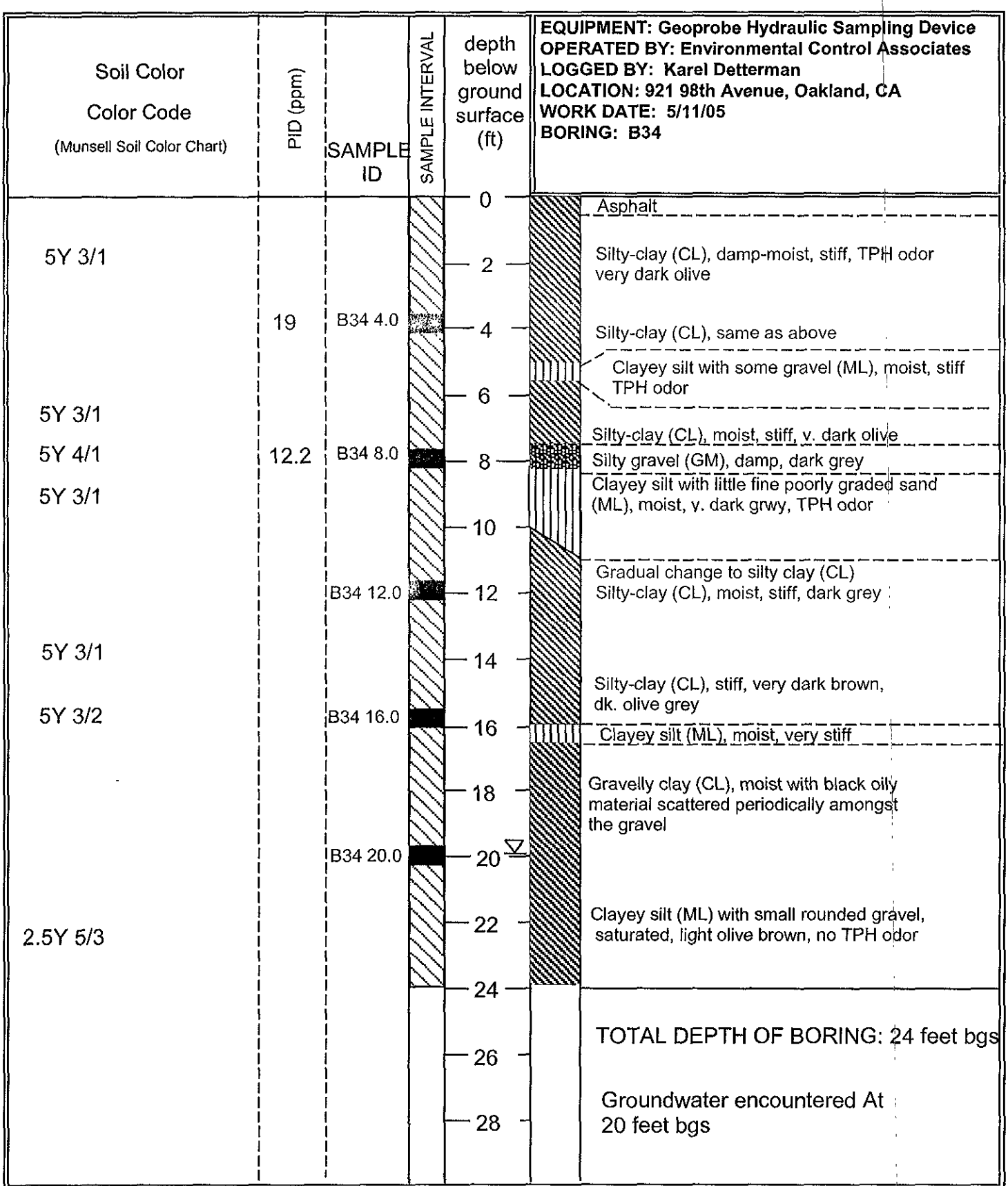
LOG OF SOIL BORING B30A

921 98th Aveune
Oakland, California

EQUIPMENT: Geoprobe Hydraulic Sampling Device
OPERATED BY: Environmental Control Associates
LOGGED BY: Karel Detterman
LOCATION: 921 98th Avenue, Oakland, CA
WORK DATE: 5/11/05
BORING: B34



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Project Number 6725-001.05

Date: 6/3/05
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LOG OF SOIL BORING B34

921 98th Aveune
Oakland, California

Soil Color Color Code (Munsell Soil Color Chart)	PID (ppm)	SAMPLE ID	SAMPLE INTERVAL	depth below ground surface (ft)	**EQUIPMENT: Geoprobe Hydraulic Sampling Device** **OPERATED BY: Environmental Control Associates** **LOGGED BY: Karel Detterman** **LOCATION: 921 98th Avenue, Oakland, CA** **WORK DATE: 5/11/05** **BORING: B35**
				0	
				2	Intrepreted as fill - brick rubble
		B35 4.0		4	
				6	Silty-clay (CL), moist, stiff, mild TPH odor
	4.9	B35 8.0		8	
				10	
	200+	B3512.0		12 ▽	
				14	Clayey gravel (GC), saturated, strong TPH odor Silty-clay (CL), moist, stiff, TPH odor
	3.9	B35 16.0		16	
				18	Clayey gravel (GC), saturated, strong TPH odor
				20	TOTAL DEPTH OF BORING 18 FEET Groundwater encountered at 12 feet bgs
				22	
				24	
				26	
				28	

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LOG OF SOIL BORING B35

921 98th Aveune
Oakland, California

Soil Color Color Code (Munsell Soil Color Chart)	PID (ppm)	SAMPLE ID	SAMPLE INTERVAL	depth below ground surface (ft)	**EQUIPMENT: Geoprobe Hydraulic Sampling Device** **OPERATED BY: Environmental Control Associates** **LOGGED BY: Karel Detterman** **LOCATION: 921 98th Avenue, Oakland, CA** **WORK DATE: 6/17/05** **BORING: Boring for P2R**
				0	Building foundation concrete and base rock to 2 feet bgs
				2	
				4	Silty-clay (CL), moist, stiff, very dark grey 5Y 3/1
10YR 3/2				6	Silty-clay (CL), very dense, very dark grey brown
				8	
10YR 4/2				10	Silty-clay (CL), moist, very stiff, dk grey brown
				12	Gravelly clayey silt (ML) then silty sand (SM), saturated, about 6 inches thick
				14	Silty-clay (CL), very moist, same as above
				16	
				17	Clayey gravel (GC), loose, saturated, TPH odor
				18	No recovery
				20	Clayey gravel (GC), loose, saturated, no odor
				22	TOTAL DEPTH OF BORING: 20 feet bgs 1st water-bearing zone between 10-13 feet bgs Groundwater encountered 17 feet bgs
				24	
				26	
				28	

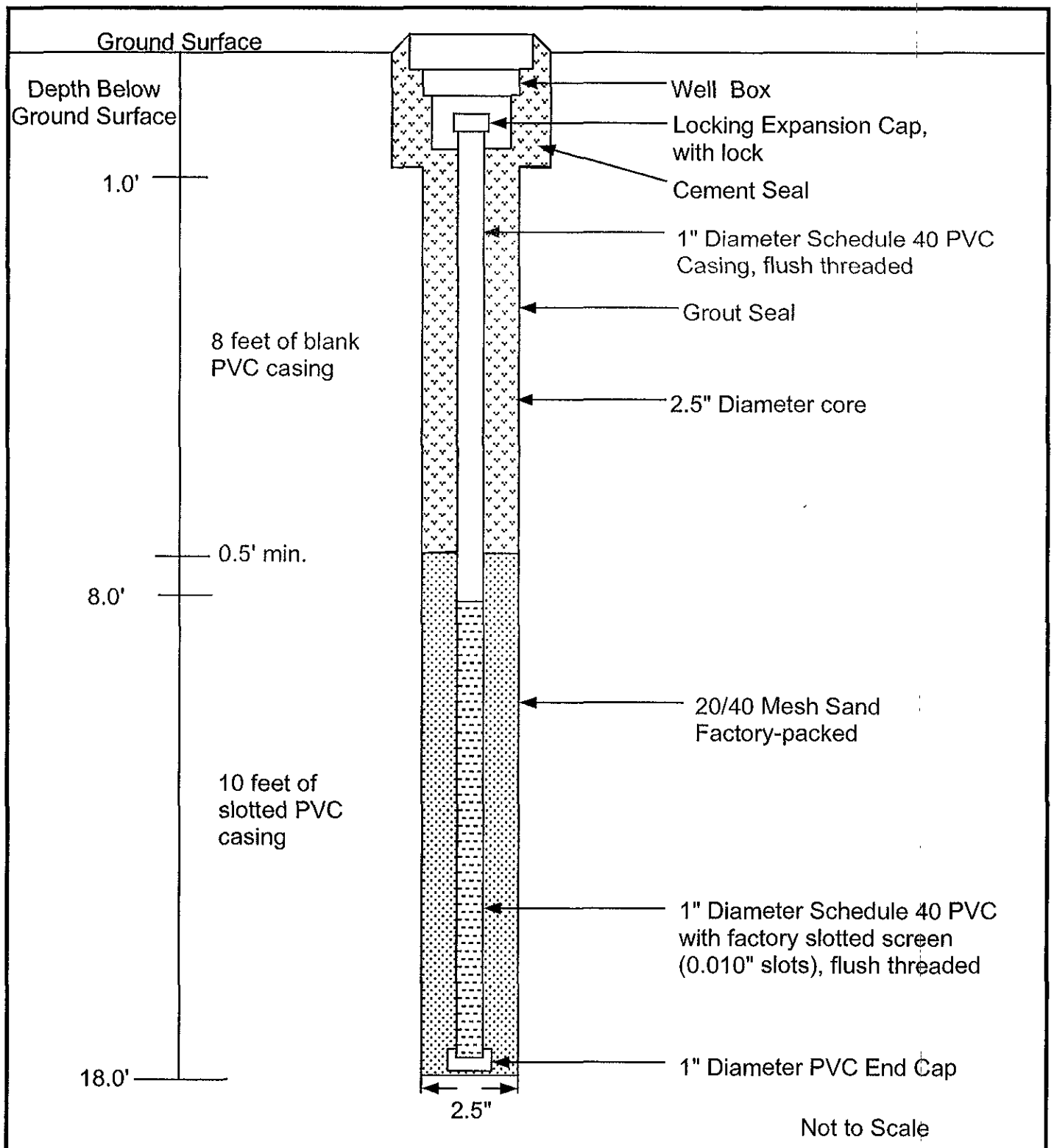
ACC Environmental Consultants, Inc.
7977 Capwell Drive, Suite 100
Oakland, California 94621
(510)638-8400 FAX: (510)638-8404

Project Number 6725-001.05

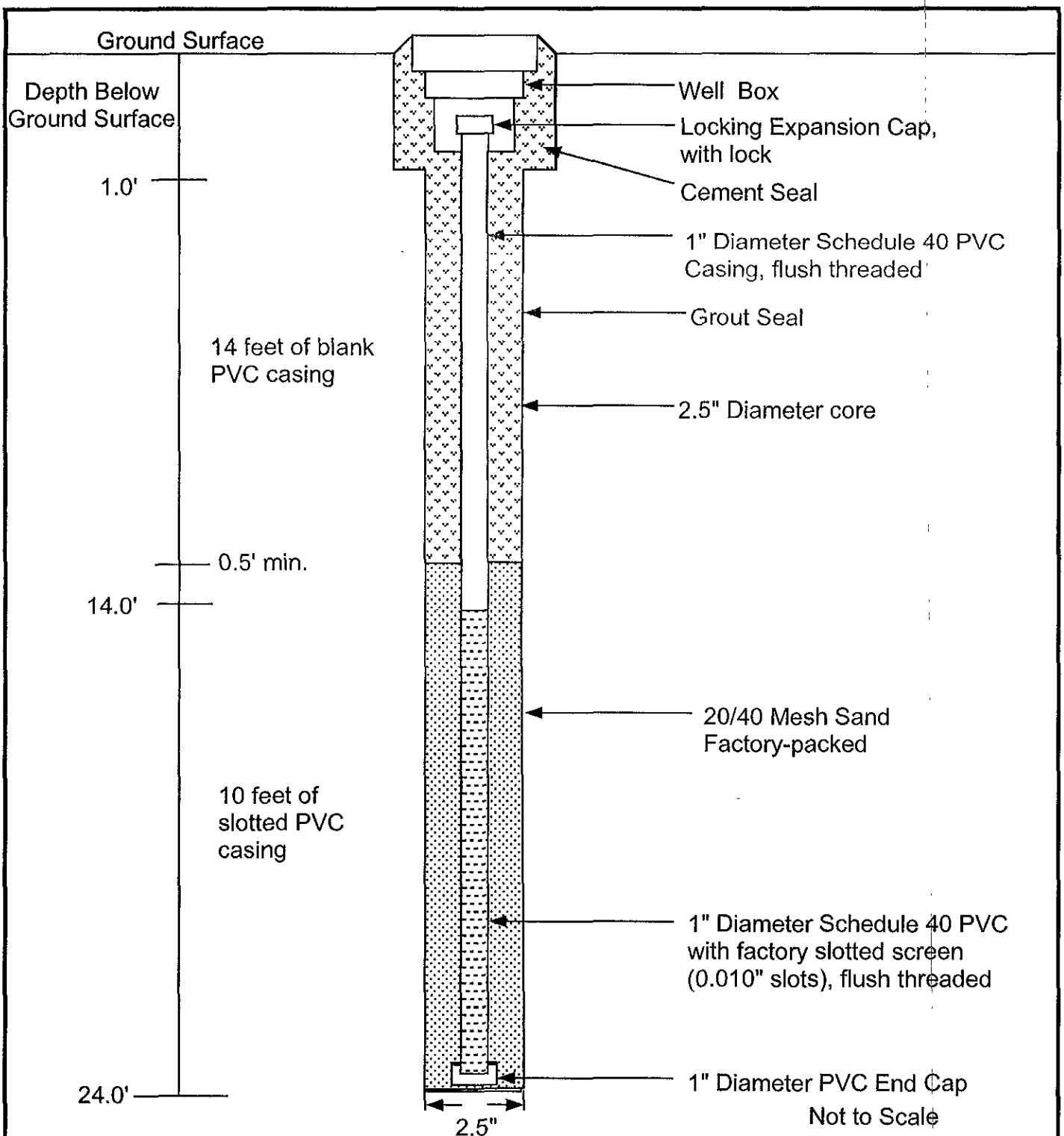
Date: **6/17/05**

LOG OF SOIL BORING for P2R

921 98th Aveune
Oakland, California

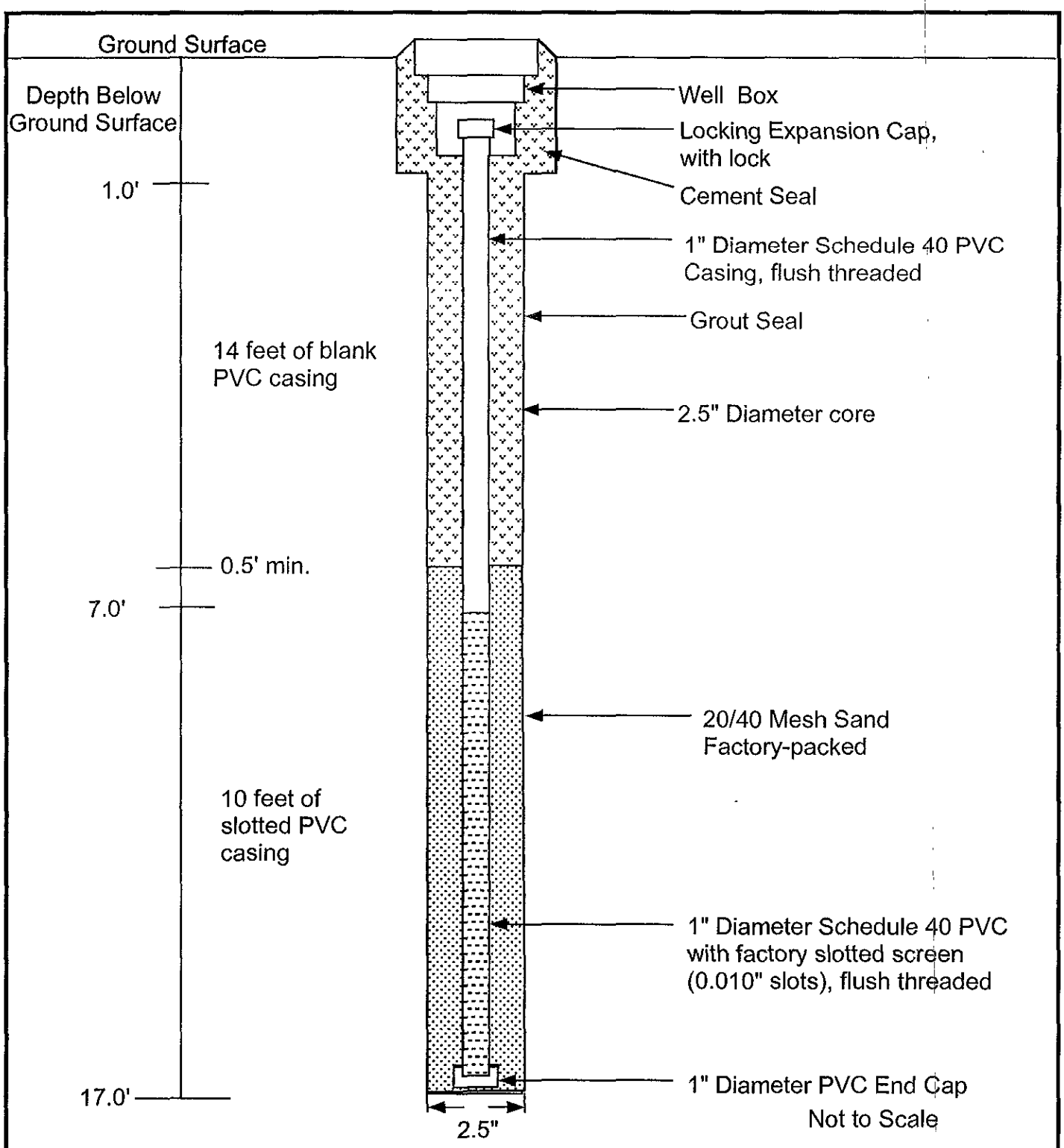


ACC Environmental Consultants, Inc. 7977 Capwell Drive, Suite 100 Oakland, CA 94621	Job No.: 6725-001-05	921 98th Avenue Oakland, CA
	Date: 5/12/05	Piezometer P-1 (B 28) Construction Diagram

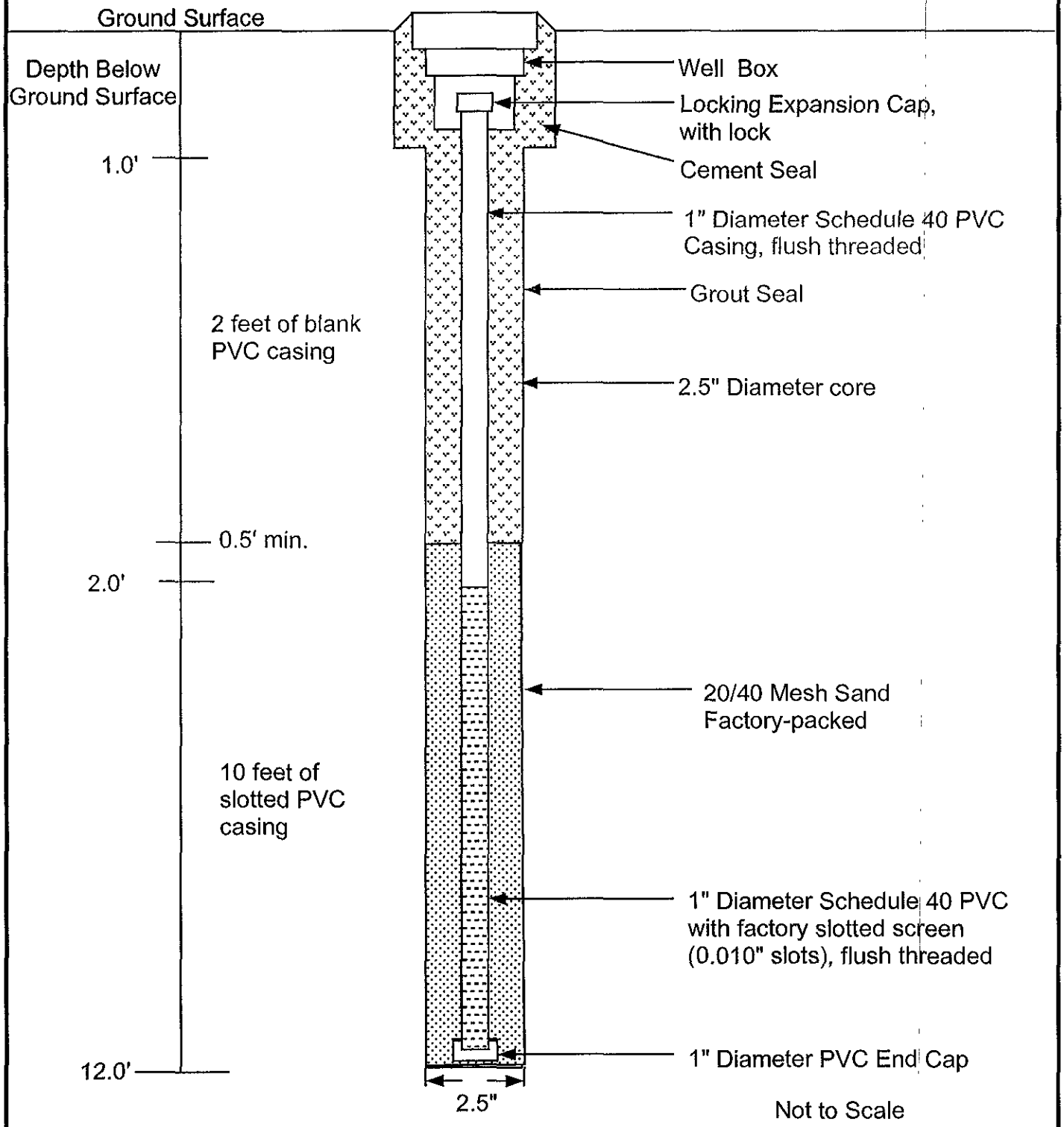


Note: PZ-2 located on former building foundation which is four feet higher than remaining Site

ACC Environmental Consultants, Inc. 7977 Capwell Drive, Suite 100 Oakland, CA 94621	Job No.: 6725-001-05	921 98th Avenue Oakland, CA
	Date: 5/12/05	Piezometer P-2 (B 30A) Construction Diagram



ACC Environmental Consultants, Inc. 7977 Capwell Drive, Suite 100 Oakland, CA 94621	Job No.: 6725-001-05	921 98th Avenue Oakland, CA
	Date: 6/17/05	Piezometer P-2R Construction Diagram



ACC Environmental Consultants, Inc. 7977 Capwell Drive, Suite 100 Oakland, CA 94621	Job No.: 6725-001-05	921 98th Avenue Oakland, CA
	Date: 5/12/05	Piezometer P-3 (B 35) Construction Diagram

SEVERN TRENT STL

Submission#: 2005-05-0330

ACC Environmental Consultants

May 24, 2005

7977 Capwell Drive, Suite 100
Oakland, CA 94621

Attn.: Karel Detterman

Project#: 6725-001-05
Project: 921 98th Avenue

Attached is our report for your samples received on 05/11/2005 18:20
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 06/25/2005 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: dsharma@stl-inc.com

Sincerely,

Dimple Sharma
Project Manager

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/11/2005 18:20

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
B22-W	05/10/2005 09:05	Water	3
B28-W	05/10/2005 13:25	Water	9
B21-W	05/10/2005 10:45	Water	10
B29-W	05/10/2005 15:10	Water	12
B30AW	05/10/2005 15:30	Water	13
B31W	05/10/2005 16:50	Water	14
B25W	05/11/2005 10:25	Water	22
B27W	05/11/2005 14:15	Water	30
B24W	05/11/2005 15:15	Water	32
B33W	05/11/2005 16:30	Water	35
B34W	05/11/2005 09:15	Water	36

Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/11/2005 18:20

Prep(s): 5030B
Test(s): 8260B

Sample ID: **B22-W**
Lab ID: 2005-05-0330 - 3

Sampled: 05/10/2005 09:05
Extracted: 5/18/2005 14:52

Matrix: Water
QC Batch#: 2005/05/18-01.64

Analysis Flag: L2, pH: <2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	3900	250	ug/L	5.00	05/18/2005 14:52	
Methyl tert-butyl ether (MTBE)	ND	2.5	ug/L	5.00	05/18/2005 14:52	
Benzene	150	2.5	ug/L	5.00	05/18/2005 14:52	
Toluene	300	2.5	ug/L	5.00	05/18/2005 14:52	
Ethylbenzene	220	2.5	ug/L	5.00	05/18/2005 14:52	
Total xylenes	850	5.0	ug/L	5.00	05/18/2005 14:52	
Surrogate(s)						
1,2-Dichloroethane-d4	106.4	73-130	%	5.00	05/18/2005 14:52	
Toluene-d8	102.0	81-114	%	5.00	05/18/2005 14:52	

Fuel Oxygenates by 8260B

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Project: 6725-001-05
921 98th Avenue

Received: 05/11/2005 18:20

Prep(s): 5030B
Sample ID: **B28-W**
Sampled: 05/10/2005 13:25
Matrix: Water
pH: <2

Test(s): 8260B
Lab ID: 2005-05-0330 - 9
Extracted: 5/18/2005 15:14
QC Batch#: 2005/05/18-01.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	05/18/2005 15:14	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	05/18/2005 15:14	
Benzene	ND	0.50	ug/L	1.00	05/18/2005 15:14	
Toluene	ND	0.50	ug/L	1.00	05/18/2005 15:14	
Ethylbenzene	ND	0.50	ug/L	1.00	05/18/2005 15:14	
Total xylenes	ND	1.0	ug/L	1.00	05/18/2005 15:14	
Surrogate(s)						
1,2-Dichloroethane-d4	100.9	73-130	%	1.00	05/18/2005 15:14	
Toluene-d8	100.3	81-114	%	1.00	05/18/2005 15:14	

Fuel Oxygenates by 8260B

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Received: 05/11/2005 18:20

Prep(s): 5030B
Sample ID: **B21-W**
Sampled: 05/10/2005 10:45
Matrix: Water
pH: <2

Test(s): 8260B
Lab ID: 2005-05-0330 - 10
Extracted: 5/17/2005 13:42
QC Batch#: 2005/05/17-01.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	05/17/2005 13:42	
Methyl tert-butyl ether (MTBE)	0.94	0.50	ug/L	1.00	05/17/2005 13:42	
Benzene	ND	0 50	ug/L	1.00	05/17/2005 13:42	
Toluene	ND	0.50	ug/L	1.00	05/17/2005 13:42	
Ethylbenzene	ND	0.50	ug/L	1.00	05/17/2005 13:42	
Total xylenes	ND	1.0	ug/L	1.00	05/17/2005 13:42	
Surrogate(s)						
1,2-Dichloroethane-d4	108.3	73-130	%	1.00	05/17/2005 13:42	
Toluene-d8	102.4	81-114	%	1.00	05/17/2005 13:42	

Fuel Oxygenates by 8260B

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Project: 6725-001-05
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Received: 05/11/2005 18:20

Prep(s): 5030B
Sample ID: **B29-W**
Sampled: 05/10/2005 15:10
Matrix: Water
pH: <2

Test(s): 8260B
Lab ID: 2005-05-0330 - 12
Extracted: 5/17/2005 14:04
QC Batch#: 2005/05/17-01.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	05/17/2005 14:04	
Methyl tert-butyl ether (MTBE)	0.66	0.50	ug/L	1.00	05/17/2005 14:04	
Benzene	ND	0.50	ug/L	1.00	05/17/2005 14:04	
Toluene	ND	0.50	ug/L	1.00	05/17/2005 14:04	
Ethylbenzene	ND	0.50	ug/L	1.00	05/17/2005 14:04	
Total xylenes	ND	1.0	ug/L	1.00	05/17/2005 14:04	
Surrogate(s)						
1,2-Dichloroethane-d4	110.5	73-130	%	1.00	05/17/2005 14:04	
Toluene-d8	104.5	81-114	%	1.00	05/17/2005 14:04	

Fuel Oxygenates by 8260B

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Project: 6725-001-05
921 98th Avenue

Received: 05/11/2005 18:20

Prep(s): 5030B
Sample ID: **B30AW**
Sampled: 05/10/2005 15:30
Matrix: Water
pH: <2

Test(s): 8260B
Lab ID: 2005-05-0330 - 13
Extracted: 5/17/2005 13:43
QC Batch#: 2005/05/17-01.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	05/17/2005 13:43	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	05/17/2005 13:43	
Benzene	ND	0.50	ug/L	1.00	05/17/2005 13:43	
Toluene	ND	0.50	ug/L	1.00	05/17/2005 13:43	
Ethylbenzene	ND	0.50	ug/L	1.00	05/17/2005 13:43	
Total xylenes	ND	1.0	ug/L	1.00	05/17/2005 13:43	
Surrogate(s)						
1,2-Dichloroethane-d4	91.4	73-130	%	1.00	05/17/2005 13:43	
Toluene-d8	105.0	81-114	%	1.00	05/17/2005 13:43	

Fuel Oxygenates by 8260B

ACC Environmental Consultants

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Project: 6725-001-05
921 98th Avenue

Received: 05/11/2005 18:20

Prep(s): 5030B
Sample ID: **B31W**
Sampled: 05/10/2005 16:50
Matrix: Water
pH: <2

Test(s): 8260B
Lab ID: 2005-05-0330 - 14
Extracted: 5/17/2005 14:01
QC Batch#: 2005/05/17-01.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	05/17/2005 14:01	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	05/17/2005 14:01	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	05/17/2005 14:01	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	05/17/2005 14:01	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	1.00	05/17/2005 14:01	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	1.00	05/17/2005 14:01	
Benzene	ND	0.50	ug/L	1.00	05/17/2005 14:01	
Toluene	ND	0.50	ug/L	1.00	05/17/2005 14:01	
Ethylbenzene	ND	0.50	ug/L	1.00	05/17/2005 14:01	
Total xylenes	ND	1.0	ug/L	1.00	05/17/2005 14:01	
Surrogate(s)						
1,2-Dichloroethane-d4	94.8	73-130	%	1.00	05/17/2005 14:01	
Toluene-d8	106.2	81-114	%	1.00	05/17/2005 14:01	

Fuel Oxygenates by 8260B

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Received: 05/11/2005 18:20

Prep(s): 5030B
Test(s): 8260B

Sample ID: **B25W**
Lab ID: 2005-05-0330 - 22

Sampled: 05/11/2005 10:25
Extracted: 5/19/2005 14:41

Matrix: Water
QC Batch#: 2005/05/19-01.64

Analysis Flag: L2, pH: <2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	90000	25000	ug/L	500.00	05/19/2005 14:41	
Methyl tert-butyl ether (MTBE)	ND	250	ug/L	500.00	05/19/2005 14:41	
Benzene	2100	250	ug/L	500.00	05/19/2005 14:41	
Toluene	2200	250	ug/L	500.00	05/19/2005 14:41	
Ethylbenzene	3500	250	ug/L	500.00	05/19/2005 14:41	
Total xylenes	11000	500	ug/L	500.00	05/19/2005 14:41	
Surrogate(s)						
1,2-Dichloroethane-d4	86.1	73-130	%	500.00	05/19/2005 14:41	
Toluene-d8	100.0	81-114	%	500.00	05/19/2005 14:41	

Fuel Oxygenates by 8260B

ACC Environmental Consultants
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Project: 6725-001-05
921 98th Avenue

Received: 05/11/2005 18:20

Prep(s): 5030B
Sample ID: **B27W**
Sampled: 05/11/2005 14:15
Matrix: Water
pH: <2

Test(s): 8260B
Lab ID: 2005-05-0330 - 30
Extracted: 5/17/2005 14:19
QC Batch#: 2005/05/17-01.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	4000	50	ug/L	1.00	05/17/2005 14:19	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	05/17/2005 14:19	
Methyl tert-butyl ether (MTBE)	0.64	0.50	ug/L	1.00	05/17/2005 14:19	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	05/17/2005 14:19	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	1.00	05/17/2005 14:19	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	1.00	05/17/2005 14:19	
Benzene	ND	0.50	ug/L	1.00	05/17/2005 14:19	
Toluene	9.8	0.50	ug/L	1.00	05/17/2005 14:19	
Ethylbenzene	47	0.50	ug/L	1.00	05/17/2005 14:19	
Total xylenes	150	1.0	ug/L	1.00	05/17/2005 14:19	
Surrogate(s)						
1,2-Dichloroethane-d4	94.9	73-130	%	1.00	05/17/2005 14:19	
Toluene-d8	99.5	81-114	%	1.00	05/17/2005 14:19	

Fuel Oxygenates by 8260B

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Project: 6725-001-05
921 98th Avenue

Received: 05/11/2005 18:20

Prep(s): 5030B
Sample ID: **B24W**
Sampled: 05/11/2005 15:15
Matrix: Water
pH: <2

Test(s): 8260B
Lab ID: 2005-05-0330 - 32
Extracted: 5/19/2005 15:03
QC Batch#: 2005/05/19-01.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	1200	50	ug/L	1.00	05/19/2005 15:03	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	05/19/2005 15:03	
Benzene	36	0.50	ug/L	1.00	05/19/2005 15:03	
Toluene	32	0.50	ug/L	1.00	05/19/2005 15:03	
Ethylbenzene	60	0.50	ug/L	1.00	05/19/2005 15:03	
Total xylenes	270	1.0	ug/L	1.00	05/19/2005 15:03	
Surrogate(s)						
1,2-Dichloroethane-d4	76.7	73-130	%	1.00	05/19/2005 15:03	
Toluene-d8	99.6	81-114	%	1.00	05/19/2005 15:03	

Fuel Oxygenates by 8260B

ACC Environmental Consultants

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Project: 6725-001-05
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Received: 05/11/2005 18:20

Prep(s): 5030B
Test(s): 8260B

Sample ID: **B33W**
Lab ID: 2005-05-0330 - 35

Sampled: 05/11/2005 16:30
Extracted: 5/18/2005 21:15

Matrix: Water
QC Batch#: 2005/05/18-02.64

Analysis Flag: L2, pH: <2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	8800	250	ug/L	5.00	05/18/2005 21:15	
Methyl tert-butyl ether (MTBE)	ND	2.5	ug/L	5.00	05/18/2005 21:15	
Benzene	81	2.5	ug/L	5.00	05/18/2005 21:15	
Toluene	74	2.5	ug/L	5.00	05/18/2005 21:15	
Ethylbenzene	170	2.5	ug/L	5.00	05/18/2005 21:15	
Total xylenes	540	5.0	ug/L	5.00	05/18/2005 21:15	
Surrogate(s)						
1,2-Dichloroethane-d4	107.2	73-130	%	5.00	05/18/2005 21:15	
Toluene-d8	103.5	81-114	%	5.00	05/18/2005 21:15	

Fuel Oxygenates by 8260B

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Project: 6725-001-05
921 98th Avenue

Received: 05/11/2005 18:20

Prep(s): 5030B
Test(s): 8260B
Sample ID: **B34W**
Lab ID: 2005-05-0330 - 36
Sampled: 05/11/2005 09:15
Extracted: 5/19/2005 15:26
Matrix: Water
QC Batch#: 2005/05/19-01.64
Analysis Flag: L2, pH: <2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	11000	500	ug/L	10.00	05/19/2005 15:26	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	10.00	05/19/2005 15:26	
Benzene	79	5.0	ug/L	10.00	05/19/2005 15:26	
Toluene	460	5.0	ug/L	10.00	05/19/2005 15:26	
Ethylbenzene	550	5.0	ug/L	10.00	05/19/2005 15:26	
Total xylenes	2300	10	ug/L	10.00	05/19/2005 15:26	
Surrogate(s)						
1,2-Dichloroethane-d4	90.6	73-130	%	10.00	05/19/2005 15:26	
Toluene-d8	100.5	81-114	%	10.00	05/19/2005 15:26	

Fuel Oxygenates by 8260B

ACC Environmental Consultants

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Project: 6725-001-05
921 98th Avenue

Received: 05/11/2005 18:20

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank

Water

QC Batch # 2005/05/17-01.64

MB: 2005/05/17-01.64-037

Date Extracted: 05/17/2005 07:37

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	05/17/2005 07:37	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	05/17/2005 07:37	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	05/17/2005 07:37	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	05/17/2005 07:37	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	05/17/2005 07:37	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	05/17/2005 07:37	
Benzene	ND	0.5	ug/L	05/17/2005 07:37	
Toluene	ND	0.5	ug/L	05/17/2005 07:37	
Ethylbenzene	ND	0.5	ug/L	05/17/2005 07:37	
Total xylenes	ND	1.0	ug/L	05/17/2005 07:37	
Surrogates(s)					
1,2-Dichloroethane-d4	106.6	73-130	%	05/17/2005 07:37	
Toluene-d8	105.0	81-114	%	05/17/2005 07:37	

Fuel Oxygenates by 8260B

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Project: 6725-001-05
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Received: 05/11/2005 18:20

Batch QC Report

Prep(s): 5030B
Test(s): 8260B

Method Blank
Water
QC Batch # 2005/05/17-01.69

MB: 2005/05/17-01.69-050
Date Extracted: 05/17/2005 07:50

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	05/17/2005 07:50	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	05/17/2005 07:50	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	05/17/2005 07:50	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	05/17/2005 07:50	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	05/17/2005 07:50	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	05/17/2005 07:50	
Benzene	ND	0.5	ug/L	05/17/2005 07:50	
Toluene	ND	0.5	ug/L	05/17/2005 07:50	
Ethylbenzene	ND	0.5	ug/L	05/17/2005 07:50	
Total xylenes	ND	1.0	ug/L	05/17/2005 07:50	
Surrogates(s)					
1,2-Dichloroethane-d4	92.0	73-130	%	05/17/2005 07:50	
Toluene-d8	103.4	81-114	%	05/17/2005 07:50	

Fuel Oxygenates by 8260B

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921 98th Avenue

Received: 05/11/2005 18:20

Batch QC Report

Prep(s): 5030B
Test(s): 8260B

Method Blank
Water
QC Batch # 2005/05/18-01.64

MB: 2005/05/18-01.64-013
Date Extracted: 05/18/2005 07:13

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	05/18/2005 07:13	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	05/18/2005 07:13	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	05/18/2005 07:13	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	05/18/2005 07:13	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	05/18/2005 07:13	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	05/18/2005 07:13	
Benzene	ND	0.5	ug/L	05/18/2005 07:13	
Toluene	ND	0.5	ug/L	05/18/2005 07:13	
Ethylbenzene	ND	0.5	ug/L	05/18/2005 07:13	
Total xylenes	ND	1.0	ug/L	05/18/2005 07:13	
Surrogates(s)					
1,2-Dichloroethane-d4	102.8	73-130	%	05/18/2005 07:13	
Toluene-d8	100.0	81-114	%	05/18/2005 07:13	

Fuel Oxygenates by 8260B

ACC Environmental Consultants

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Project: 6725-001-05
921 98th Avenue

Received: 05/11/2005 18:20

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank

Water

QC Batch # 2005/05/18-02.64

MB: 2005/05/18-02.64-035

Date Extracted: 05/18/2005 17:35

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	05/18/2005 17:35	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	05/18/2005 17:35	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	05/18/2005 17:35	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	05/18/2005 17:35	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	05/18/2005 17:35	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	05/18/2005 17:35	
Benzene	ND	0.5	ug/L	05/18/2005 17:35	
Toluene	ND	0.5	ug/L	05/18/2005 17:35	
Ethylbenzene	ND	0.5	ug/L	05/18/2005 17:35	
Total xylenes	ND	1.0	ug/L	05/18/2005 17:35	
Surrogates(s)					
1,2-Dichloroethane-d4	93.8	73-130	%	05/18/2005 17:35	
Toluene-d8	103.0	81-114	%	05/18/2005 17:35	

Fuel Oxygenates by 8260B

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Project: 6725-001-05
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Batch QC Report

Prep(s): 5030B
Test(s): 8260B

Method Blank **Water** **QC Batch # 2005/05/19-01.64**

MB: 2005/05/19-01.64-019 Date Extracted: 05/19/2005 07:19

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	05/19/2005 07:19	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	05/19/2005 07:19	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	05/19/2005 07:19	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	05/19/2005 07:19	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	05/19/2005 07:19	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	05/19/2005 07:19	
Benzene	ND	0.5	ug/L	05/19/2005 07:19	
Toluene	ND	0.5	ug/L	05/19/2005 07:19	
Ethylbenzene	ND	0.5	ug/L	05/19/2005 07:19	
Total xylenes	ND	1.0	ug/L	05/19/2005 07:19	
Surrogates(s)					
1,2-Dichloroethane-d4	95.0	73-130	%	05/19/2005 07:19	
Toluene-d8	102.4	81-114	%	05/19/2005 07:19	

Fuel Oxygenates by 8260B

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Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2005/05/17-01.64**

LCS 2005/05/17-01.64-052 Extracted: 05/17/2005 Analyzed: 05/17/2005 06:52

LCSD 2005/05/17-01.64-015 Extracted: 05/17/2005 Analyzed: 05/17/2005 07:15

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	24.7	24 4	25.0	98.8	97.6	1 2	65-165	20		
Benzene	23.3	23.0	25.0	93.2	92.0	1.3	69-129	20		
Toluene	27.0	25.9	25.0	108.0	103.6	4.2	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	495	515	500	99.0	103.0		73-130			
Toluene-d8	515	500	500	103.0	100.0		81-114			

Fuel Oxygenates by 8260B

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Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2005/05/17-01.69**

LCS 2005/05/17-01.69-054 Extracted: 05/17/2005 Analyzed: 05/17/2005 06:54
LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	17.5		25.0	70.0			65-165	20		
Benzene	24.8		25.0	99.2			69-129	20		
Toluene	22.8		25.0	91.2			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	443		500	88.6			73-130			
Toluene-d8	532		500	106.4			81-114			

Fuel Oxygenates by 8260B

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Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2005/05/18-01.64**

LCS 2005/05/18-01.64-051 Extracted: 05/18/2005 Analyzed: 05/18/2005 06:51

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	25.6		25.0	102.4			65-165	20		
Benzene	25.2		25.0	100.8			69-129	20		
Toluene	28.5		25.0	114.0			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	499		500	99.8			73-130			
Toluene-d8	510		500	102.0			81-114			

Fuel Oxygenates by 8260B

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Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2005/05/18-02.64**

LCS 2005/05/18-02.64-013 Extracted: 05/18/2005 Analyzed: 05/18/2005 17:13
LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	25.3		25.0	101.2			65-165	20		
Benzene	25.1		25.0	100.4			69-129	20		
Toluene	28.4		25.0	113.6			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	454		500	90.8			73-130			
Toluene-d8	519		500	103.8			81-114			

Fuel Oxygenates by 8260B

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Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2005/05/19-01.64**

LCS 2005/05/19-01.64-056 Extracted: 05/19/2005 Analyzed: 05/19/2005 06:56

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	23.1		25.0	92.4			65-165	20		
Benzene	25.1		25.0	100.4			69-129	20		
Toluene	27.7		25.0	110.8			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	445		500	89 0			73-130			
Toluene-d8	519		500	103.8			81-114			

Fuel Oxygenates by 8260B

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Project: 6725-001-05
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Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2005/05/17-01.64**

MS/MSD

Lab ID: 2005-05-0301 - 001

MS: 2005/05/17-01.64-005 Extracted: 05/17/2005 Analyzed: 05/17/2005 11:05
Dilution: 1.00

MSD: 2005/05/17-01.64-028 Extracted: 05/17/2005 Analyzed: 05/17/2005 11:28
Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	25.9	23.8	0.637	25.0	101.1	95.2	6.0	65-165	20		
Benzene	23.8	23.3	0.574	25.0	92 9	93.2	0.3	69-129	20		
Toluene	27.0	25.5	ND	25.0	108.0	102.0	5.7	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	526	513		500	105.2	102.6		73-130			
Toluene-d8	515	505		500	103.0	101.0		81-114			

Fuel Oxygenates by 8260B

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Project: 6725-001-05
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Received: 05/11/2005 18:20

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2005/05/17-01.69**

MS/MSD

Lab ID: 2005-05-0300 - 001

MS: 2005/05/17-01.69-028 Extracted: 05/17/2005

Analyzed: 05/17/2005 09:28

Dilution: 1.00

MSD: 2005/05/17-01.69-046 Extracted: 05/17/2005

Analyzed: 05/17/2005 09:46

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	16.3	17.3	ND	25.0	65.2	69.2	6.0	65-165	20		
Benzene	20.8	27.1	ND	25.0	83.2	108.4	26 3	69-129	20		R1
Toluene	20.5	28.0	ND	25.0	82.0	112 0	30.9	70-130	20		R1
Surrogate(s)											
1,2-Dichloroethane-d4	429	428		500	85.8	85.6		73-130			
Toluene-d8	484	584		500	96.8	116.8		81-114			S7

Fuel Oxygenates by 8260B

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Project: 6725-001-05
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Received: 05/11/2005 18:20

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2005/05/18-01.64**

MS/MSD

Lab ID: 2005-05-0182 - 001

MS: 2005/05/18-01.64-030 Extracted: 05/18/2005 Analyzed: 05/18/2005 11:30
Dilution: 1.00

MSD: 2005/05/18-01.64-053 Extracted: 05/18/2005 Analyzed: 05/18/2005 11:53
Dilution: 1.00

Compound	Conc. ug/L			Spk Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	27.5	26.0	1.16	25.0	105.4	99.4	5.9	65-165	20		
Benzene	26.4	25.3	ND	25.0	105.6	101.2	4.3	69-129	20		
Toluene	29.9	28.4	ND	25 0	119.6	113.6	5.1	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	490	493		500	98.0	98.6		73-130			
Toluene-d8	513	519		500	102.6	103.8		81-114			

Fuel Oxygenates by 8260B

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Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2005/05/18-02.64**

MS/MSD

Lab ID: 2005-05-0352 - 001

MS: 2005/05/18-02.64-039 Extracted: 05/18/2005 Analyzed: 05/18/2005 18:39

Dilution: 1.00

MSD: 2005/05/18-02.64-001 Extracted: 05/18/2005 Analyzed: 05/18/2005 19:01

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	27.9	27.0	2.38	25.0	102.1	98.5	3.6	65-165	20		
Benzene	25.0	24.9	ND	25.0	100.0	99.6	0.4	69-129	20		
Toluene	28.6	28.9	ND	25.0	114.4	115.6	1.0	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	434	456		500	86.8	91.2		73-130			
Toluene-d8	518	516		500	103.6	103.2		81-114			

Fuel Oxygenates by 8260B

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Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2005/05/19-01.64**

MS/MSD

Lab ID: 2005-05-0340 - 001

MS: 2005/05/19-01.64-004 Extracted: 05/19/2005

Analyzed: 05/19/2005 10:04

Dilution: 1.00

MSD: 2005/05/19-01.64-026 Extracted: 05/19/2005

Analyzed: 05/19/2005 10:26

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	46.4	47.5	20.6	25.0	103.2	107.6	4.2	65-165	20		
Benzene	25.2	26.3	ND	25.0	100.8	105.2	4.3	69-129	20		
Toluene	27.8	29.0	ND	25.0	111.2	116.0	4.2	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	455	442		500	91.0	88.4		73-130			
Toluene-d8	509	508		500	101.8	101.6		81-114			

Fuel Oxygenates by 8260B

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Legend and Notes

Analysis Flag

L2

Reporting limits were raised due to high level of analyte present in the sample.

Result Flag

R1

Analyte RPD was out of QC limits.

S7

Surrogate recoveries higher than acceptance limits.

Fuel Oxygenates by 8260B

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Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
B22-5.0	05/10/2005 08:45	Soil	1
B22-10.5	05/10/2005 08:50	Soil	2
B22-32	05/10/2005 10:20	Soil	4
B23 5.0	05/10/2005 11:10	Soil	5
B22-15.0	05/10/2005 08:55	Soil	6
B23-10	05/10/2005 11:15	Soil	7
B30A 15.0	05/10/2005 15:05	Soil	11
B34 4.0	05/11/2005 08:30	Soil	15
B34 8.0	05/11/2005 08:35	Soil	16
B34 16.0	05/11/2005 08:55	Soil	18
B34 20.0	05/11/2005 09:00	Soil	19
B25 16.0	05/11/2005 10:40	Soil	23
B26 4.0	05/11/2005 11:00	Soil	24
B27 8.0	05/11/2005 13:50	Soil	28

Fuel Oxygenates by 8260B

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Prep(s): 5030B
Sample ID: **B22-5.0**
Sampled: 05/10/2005 08:45
Matrix: Soil

Test(s): 8260B
Lab ID: 2005-05-0330 - 1
Extracted: 5/23/2005 14:22
QC Batch#: 2005/05/23-01.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	05/23/2005 14:22	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	05/23/2005 14:22	
Benzene	ND	5.0	ug/Kg	1.00	05/23/2005 14:22	
Toluene	ND	5.0	ug/Kg	1.00	05/23/2005 14:22	
Ethyl benzene	ND	5.0	ug/Kg	1.00	05/23/2005 14:22	
Total xylenes	ND	5.0	ug/Kg	1.00	05/23/2005 14:22	
Surrogate(s)						
1,2-Dichloroethane-d4	95.5	72-124	%	1.00	05/23/2005 14:22	
Toluene-d8	107.7	75-116	%	1.00	05/23/2005 14:22	

Fuel Oxygenates by 8260B

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Project: 6725-001-05
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Received: 05/11/2005 18:20

Prep(s): 5030B
Sample ID: **B22-10.5**
Sampled: 05/10/2005 08:50
Matrix: Soil

Test(s): 8260B
Lab ID: 2005-05-0330 - 2
Extracted: 5/20/2005 08:35
QC Batch#: 2005/05/20-01.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	05/20/2005 08:35	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	05/20/2005 08:35	
Benzene	ND	5.0	ug/Kg	1.00	05/20/2005 08:35	
Toluene	ND	5.0	ug/Kg	1.00	05/20/2005 08:35	
Ethyl benzene	ND	5.0	ug/Kg	1.00	05/20/2005 08:35	
Total xylenes	ND	5.0	ug/Kg	1.00	05/20/2005 08:35	
Surrogate(s)						
1,2-Dichloroethane-d4	99.9	72-124	%	1.00	05/20/2005 08:35	
Toluene-d8	96.8	75-116	%	1.00	05/20/2005 08:35	

Fuel Oxygenates by 8260B

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921 98th Avenue

Received: 05/11/2005 18:20

Prep(s): 5030B
Test(s): 8260B
Sample ID: **B22-32**
Lab ID: 2005-05-0330 - 4
Sampled: 05/10/2005 10:20
Extracted: 5/20/2005 19:53
Matrix: Soil
QC Batch#: 2005/05/20-02.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	05/20/2005 19:53	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	05/20/2005 19:53	
Benzene	ND	5.0	ug/Kg	1.00	05/20/2005 19:53	
Toluene	ND	5.0	ug/Kg	1.00	05/20/2005 19:53	
Ethyl benzene	ND	5.0	ug/Kg	1.00	05/20/2005 19:53	
Total xylenes	ND	5.0	ug/Kg	1.00	05/20/2005 19:53	
Surrogate(s)						
1,2-Dichloroethane-d4	97.7	72-124	%	1.00	05/20/2005 19:53	
Toluene-d8	110.8	75-116	%	1.00	05/20/2005 19:53	

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Karel Detterman

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Project: 6725-001-05
921 98th Avenue

Received: 05/11/2005 18:20

Prep(s): 5030B
Sample ID: **B23 5.0**
Sampled: 05/10/2005 11:10
Matrix: Soil

Test(s): 8260B
Lab ID: 2005-05-0330 - 5
Extracted: 5/21/2005 14:38
QC Batch#: 2005/05/21-01.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	05/21/2005 14:38	
Methyl tert-butyl ether (MTBE)	10	5.0	ug/Kg	1.00	05/21/2005 14:38	
Benzene	ND	5.0	ug/Kg	1.00	05/21/2005 14:38	
Toluene	ND	5.0	ug/Kg	1.00	05/21/2005 14:38	
Ethyl benzene	ND	5.0	ug/Kg	1.00	05/21/2005 14:38	
Total xylenes	ND	5.0	ug/Kg	1.00	05/21/2005 14:38	
Surrogate(s)						
1,2-Dichloroethane-d4	101.0	72-124	%	1.00	05/21/2005 14:38	
Toluene-d8	104.7	75-116	%	1.00	05/21/2005 14:38	

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921 98th Avenue

Received: 05/11/2005 18:20

Prep(s): 5030B
Test(s): 8260B
Sample ID: **B22-15.0**
Lab ID: 2005-05-0330 - 6
Sampled: 05/10/2005 08:55
Extracted: 5/23/2005 14:40
Matrix: Soil
QC Batch#: 2005/05/23-01.69
Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	3900	ug/Kg	3.94	05/23/2005 14:40	
tert-Butyl alcohol (TBA)	ND	10.0	ug/Kg	3.94	05/23/2005 14:40	
Methyl tert-butyl ether (MTBE)	ND	20	ug/Kg	3.94	05/23/2005 14:40	
Di-isopropyl Ether (DIPE)	ND	10.0	ug/Kg	3.94	05/23/2005 14:40	
Ethyl tert-butyl ether (ETBE)	ND	5.0	ug/Kg	3.94	05/23/2005 14:40	
tert-Amyl methyl ether (TAME)	ND	5.0	ug/Kg	3.94	05/23/2005 14:40	
Benzene	27	20	ug/Kg	3.94	05/23/2005 14:40	
Toluene	97	20	ug/Kg	3.94	05/23/2005 14:40	
Ethyl benzene	86	20	ug/Kg	3.94	05/23/2005 14:40	
Total xylenes	390	20	ug/Kg	3.94	05/23/2005 14:40	
Surrogate(s)						
1,2-Dichloroethane-d4	101.5	72-124	%	3.94	05/23/2005 14:40	
Toluene-d8	107.2	75-116	%	3.94	05/23/2005 14:40	

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Received: 05/11/2005 18:20

Prep(s): 5030B
Sample ID: **B23-10**
Sampled: 05/10/2005 11:15
Matrix: Soil

Test(s): 8260B
Lab ID: 2005-05-0330 - 7
Extracted: 5/23/2005 14:58
QC Batch#: 2005/05/23-01.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	1200	1000	ug/Kg	1.00	05/23/2005 14:58	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	05/23/2005 14:58	
Benzene	32	5.0	ug/Kg	1.00	05/23/2005 14:58	
Toluene	ND	5.0	ug/Kg	1.00	05/23/2005 14:58	
Ethyl benzene	38	5.0	ug/Kg	1.00	05/23/2005 14:58	
Total xylenes	35	5.0	ug/Kg	1.00	05/23/2005 14:58	
Surrogate(s)						
1,2-Dichloroethane-d4	93.7	72-124	%	1.00	05/23/2005 14:58	
Toluene-d8	107.0	75-116	%	1.00	05/23/2005 14:58	

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Received: 05/11/2005 18:20

Prep(s): 5030B
Test(s): 8260B
Sample ID: **B30A 15.0**
Lab ID: 2005-05-0330 - 11
Sampled: 05/10/2005 15:05
Extracted: 5/21/2005 11:54
Matrix: Soil
QC Batch#: 2005/05/21-01.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	05/21/2005 11:54	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	05/21/2005 11:54	
Benzene	ND	5.0	ug/Kg	1.00	05/21/2005 11:54	
Toluene	ND	5.0	ug/Kg	1.00	05/21/2005 11:54	
Ethyl benzene	ND	5.0	ug/Kg	1.00	05/21/2005 11:54	
Total xylenes	ND	5.0	ug/Kg	1.00	05/21/2005 11:54	
Surrogate(s)						
1,2-Dichloroethane-d4	101.3	72-124	%	1.00	05/21/2005 11:54	
Toluene-d8	93.6	75-116	%	1.00	05/21/2005 11:54	

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Received: 05/11/2005 18:20

Prep(s): 5030B
Sample ID: **B34 4.0**
Sampled: 05/11/2005 08:30
Matrix: Soil

Test(s): 8260B
Lab ID: 2005-05-0330 - 15
Extracted: 5/21/2005 14:02
QC Batch#: 2005/05/21-01.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	05/21/2005 14:02	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	05/21/2005 14:02	
Benzene	ND	5.0	ug/Kg	1.00	05/21/2005 14:02	
Toluene	ND	5.0	ug/Kg	1.00	05/21/2005 14:02	
Ethyl benzene	ND	5.0	ug/Kg	1.00	05/21/2005 14:02	
Total xylenes	ND	5.0	ug/Kg	1.00	05/21/2005 14:02	
Surrogate(s)						
1,2-Dichloroethane-d4	112.9	72-124	%	1.00	05/21/2005 14:02	
Toluene-d8	103.1	75-116	%	1.00	05/21/2005 14:02	

Fuel Oxygenates by 8260B

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921 98th Avenue

Received: 05/11/2005 18:20

Prep(s): 5030B
Sample ID: **B34 8.0**
Sampled: 05/11/2005 08:35
Matrix: Soil

Test(s): 8260B
Lab ID: 2005-05-0330 - 16
Extracted: 5/21/2005 12:49
QC Batch#: 2005/05/21-01.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	1300	1000	ug/Kg	1.00	05/21/2005 12:49	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	05/21/2005 12:49	
Benzene	ND	5.0	ug/Kg	1.00	05/21/2005 12:49	
Toluene	ND	5.0	ug/Kg	1.00	05/21/2005 12:49	
Ethyl benzene	ND	5.0	ug/Kg	1.00	05/21/2005 12:49	
Total xylenes	ND	5.0	ug/Kg	1.00	05/21/2005 12:49	
Surrogate(s)						
1,2-Dichloroethane-d4	107.9	72-124	%	1.00	05/21/2005 12:49	
Toluene-d8	107.4	75-116	%	1.00	05/21/2005 12:49	

Fuel Oxygenates by 8260B

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Received: 05/11/2005 18:20

Prep(s): 5030B
Test(s): 8260B
Sample ID: **B34 16.0**
Lab ID: 2005-05-0330 - 18
Sampled: 05/11/2005 08:55
Extracted: 5/23/2005 15:17
Matrix: Soil
QC Batch#: 2005/05/23-01.69
Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	10000	4600	ug/Kg	4.63	05/23/2005 15:17	
Methyl tert-butyl ether (MTBE)	ND	23	ug/Kg	4.63	05/23/2005 15:17	
Benzene	48	23	ug/Kg	4.63	05/23/2005 15:17	
Toluene	29	23	ug/Kg	4.63	05/23/2005 15:17	
Ethyl benzene	120	23	ug/Kg	4.63	05/23/2005 15:17	
Total xylenes	250	23	ug/Kg	4.63	05/23/2005 15:17	
Surrogate(s)						
1,2-Dichloroethane-d4	101.6	72-124	%	4.63	05/23/2005 15:17	
Toluene-d8	103.2	75-116	%	4.63	05/23/2005 15:17	

Fuel Oxygenates by 8260B

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Received: 05/11/2005 18:20

Prep(s): 5030B
Test(s): 8260B
Sample ID: **B34 20.0**
Lab ID: 2005-05-0330 - 19
Sampled: 05/11/2005 09:00
Extracted: 5/21/2005 13:44
Matrix: Soil
QC Batch#: 2005/05/21-01.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	05/21/2005 13:44	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	05/21/2005 13:44	
Benzene	ND	5.0	ug/Kg	1.00	05/21/2005 13:44	
Toluene	ND	5.0	ug/Kg	1.00	05/21/2005 13:44	
Ethyl benzene	ND	5.0	ug/Kg	1.00	05/21/2005 13:44	
Total xylenes	ND	5.0	ug/Kg	1.00	05/21/2005 13:44	
Surrogate(s)						
1,2-Dichloroethane-d4	103.0	72-124	%	1.00	05/21/2005 13:44	
Toluene-d8	110.0	75-116	%	1.00	05/21/2005 13:44	

Fuel Oxygenates by 8260B

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Received: 05/11/2005 18:20

Prep(s): 5030B
Sample ID: **B25 16.0**
Sampled: 05/11/2005 10:40
Matrix: Soil

Test(s): 8260B
Lab ID: 2005-05-0330 - 23
Extracted: 5/21/2005 12:30
QC Batch#: 2005/05/21-01.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	05/21/2005 12:30	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	05/21/2005 12:30	
Benzene	ND	5.0	ug/Kg	1.00	05/21/2005 12:30	
Toluene	ND	5.0	ug/Kg	1.00	05/21/2005 12:30	
Ethyl benzene	ND	5.0	ug/Kg	1.00	05/21/2005 12:30	
Total xylenes	5.4	5.0	ug/Kg	1.00	05/21/2005 12:30	
Surrogate(s)						
1,2-Dichloroethane-d4	115.3	72-124	%	1.00	05/21/2005 12:30	
Toluene-d8	112.0	75-116	%	1.00	05/21/2005 12:30	

Fuel Oxygenates by 8260B

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921 98th Avenue

Received: 05/11/2005 18:20

Prep(s): 5030B
Test(s): 8260B
Sample ID: **B26 4.0**
Lab ID: 2005-05-0330 - 24
Sampled: 05/11/2005 11:00
Extracted: 5/23/2005 23:55
Matrix: Soil
QC Batch#: 2005/05/23-02.69
Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	4600	3000	ug/Kg	3.05	05/23/2005 23:55	Q1
Methyl tert-butyl ether (MTBE)	ND	15	ug/Kg	3.05	05/23/2005 23:55	
Benzene	ND	15	ug/Kg	3.05	05/23/2005 23:55	
Toluene	ND	15	ug/Kg	3.05	05/23/2005 23:55	
Ethyl benzene	ND	15	ug/Kg	3.05	05/23/2005 23:55	
Total xylenes	ND	15	ug/Kg	3.05	05/23/2005 23:55	
Surrogate(s)						
1,2-Dichloroethane-d4	117.0	72-124	%	3.05	05/23/2005 23:55	
Toluene-d8	104.4	75-116	%	3.05	05/23/2005 23:55	

Fuel Oxygenates by 8260B

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Project: 6725-001-05
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Received: 05/11/2005 18:20

Prep(s): 5030B
Test(s): 8260B
Sample ID: **B27 8.0**
Lab ID: 2005-05-0330 - 28
Sampled: 05/11/2005 13:50
Extracted: 5/21/2005 11:35
Matrix: Soil
QC Batch#: 2005/05/21-01.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	05/21/2005 11:35	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	05/21/2005 11:35	
Benzene	ND	5.0	ug/Kg	1.00	05/21/2005 11:35	
Toluene	ND	5.0	ug/Kg	1.00	05/21/2005 11:35	
Ethyl benzene	ND	5.0	ug/Kg	1.00	05/21/2005 11:35	
Total xylenes	ND	5.0	ug/Kg	1.00	05/21/2005 11:35	
Surrogate(s)						
1,2-Dichloroethane-d4	108.6	72-124	%	1.00	05/21/2005 11:35	
Toluene-d8	100.1	75-116	%	1.00	05/21/2005 11:35	

Fuel Oxygenates by 8260B

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Batch QC Report

Prep(s): 5030B
Test(s): 8260B

Method Blank
Soil
QC Batch # 2005/05/20-01.69

MB: 2005/05/20-01.69-036
Date Extracted: 05/20/2005 07:36

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	05/20/2005 07:36	
tert-Butyl alcohol (TBA)	ND	10.0	ug/Kg	05/20/2005 07:36	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	05/20/2005 07:36	
Di-isopropyl Ether (DIPE)	ND	10.0	ug/Kg	05/20/2005 07:36	
Ethyl tert-butyl ether (ETBE)	ND	5.0	ug/Kg	05/20/2005 07:36	
tert-Amyl methyl ether (TAME)	ND	5.0	ug/Kg	05/20/2005 07:36	
Benzene	ND	5.0	ug/Kg	05/20/2005 07:36	
Toluene	ND	5.0	ug/Kg	05/20/2005 07:36	
Ethyl benzene	ND	5.0	ug/Kg	05/20/2005 07:36	
Total xylenes	ND	5.0	ug/Kg	05/20/2005 07:36	
Surrogates(s)					
1,2-Dichloroethane-d4	101.4	72-124	%	05/20/2005 07:36	
Toluene-d8	108.8	75-116	%	05/20/2005 07:36	

Fuel Oxygenates by 8260B

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Batch QC Report

Prep(s): 5030B
Test(s): 8260B

Method Blank
Soil
QC Batch # 2005/05/20-02.69

MB: 2005/05/20-02.69-055
Date Extracted: 05/20/2005 16:55

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	05/20/2005 16:55	
tert-Butyl alcohol (TBA)	ND	10.0	ug/Kg	05/20/2005 16:55	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	05/20/2005 16:55	
Di-isopropyl Ether (DIPE)	ND	10.0	ug/Kg	05/20/2005 16:55	
Ethyl tert-butyl ether (ETBE)	ND	5.0	ug/Kg	05/20/2005 16:55	
tert-Amyl methyl ether (TAME)	ND	5.0	ug/Kg	05/20/2005 16:55	
Benzene	ND	5.0	ug/Kg	05/20/2005 16:55	
Toluene	ND	5.0	ug/Kg	05/20/2005 16:55	
Ethyl benzene	ND	5.0	ug/Kg	05/20/2005 16:55	
Total xylenes	ND	5.0	ug/Kg	05/20/2005 16:55	
Surrogates(s)					
1,2-Dichloroethane-d4	103.6	72-124	%	05/20/2005 16:55	
Toluene-d8	107.2	75-116	%	05/20/2005 16:55	

Fuel Oxygenates by 8260B

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Project: 6725-001-05
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Batch QC Report

Prep(s): 5030B
Test(s): 8260B

Method Blank **Soil** **QC Batch # 2005/05/21-01.69**

MB: 2005/05/21-01.69-021
Date Extracted: 05/21/2005 09:21

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	05/21/2005 09:21	
tert-Butyl alcohol (TBA)	ND	10.0	ug/Kg	05/21/2005 09:21	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	05/21/2005 09:21	
Di-isopropyl Ether (DIPE)	ND	10.0	ug/Kg	05/21/2005 09:21	
Ethyl tert-butyl ether (ETBE)	ND	5.0	ug/Kg	05/21/2005 09:21	
tert-Amyl methyl ether (TAME)	ND	5.0	ug/Kg	05/21/2005 09:21	
Benzene	ND	5.0	ug/Kg	05/21/2005 09:21	
Toluene	ND	5.0	ug/Kg	05/21/2005 09:21	
Ethyl benzene	ND	5.0	ug/Kg	05/21/2005 09:21	
Total xylenes	ND	5.0	ug/Kg	05/21/2005 09:21	
Surrogates(s)					
1,2-Dichloroethane-d4	105.8	72-124	%	05/21/2005 09:21	
Toluene-d8	94.4	75-116	%	05/21/2005 09:21	

Fuel Oxygenates by 8260B

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Batch QC Report

Prep(s): 5030B
Test(s): 8260B

Method Blank **Soil** **QC Batch # 2005/05/23-01.69**

MB: 2005/05/23-01.69-026

Date Extracted: 05/23/2005 07:26

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	05/23/2005 07:26	
tert-Butyl alcohol (TBA)	ND	10.0	ug/Kg	05/23/2005 07:26	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	05/23/2005 07:26	
Di-isopropyl Ether (DIPE)	ND	10.0	ug/Kg	05/23/2005 07:26	
Ethyl tert-butyl ether (ETBE)	ND	5.0	ug/Kg	05/23/2005 07:26	
tert-Amyl methyl ether (TAME)	ND	5.0	ug/Kg	05/23/2005 07:26	
Benzene	ND	5.0	ug/Kg	05/23/2005 07:26	
Toluene	ND	5.0	ug/Kg	05/23/2005 07:26	
Ethyl benzene	ND	5.0	ug/Kg	05/23/2005 07:26	
Total xylenes	ND	5.0	ug/Kg	05/23/2005 07:26	
Surrogates(s)					
1,2-Dichloroethane-d4	104.8	72-124	%	05/23/2005 07:26	
Toluene-d8	102.2	75-116	%	05/23/2005 07:26	

Fuel Oxygenates by 8260B

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Project: 6725-001-05
921 98th Avenue

Received: 05/11/2005 18:20

Batch QC Report

Prep(s): 5030B
Method Blank
MB: 2005/05/23-02.69-041

Soil

Test(s): 8260B
QC Batch # 2005/05/23-02.69
Date Extracted: 05/23/2005 17:41

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	05/23/2005 17:41	
tert-Butyl alcohol (TBA)	ND	10.0	ug/Kg	05/23/2005 17:41	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	05/23/2005 17:41	
Di-isopropyl Ether (DIPE)	ND	10.0	ug/Kg	05/23/2005 17:41	
Ethyl tert-butyl ether (ETBE)	ND	5.0	ug/Kg	05/23/2005 17:41	
tert-Amyl methyl ether (TAME)	ND	5.0	ug/Kg	05/23/2005 17:41	
Benzene	ND	5.0	ug/Kg	05/23/2005 17:41	
Toluene	ND	5.0	ug/Kg	05/23/2005 17:41	
Ethyl benzene	ND	5.0	ug/Kg	05/23/2005 17:41	
Total xylenes	ND	5.0	ug/Kg	05/23/2005 17:41	
Surrogates(s)					
1,2-Dichloroethane-d4	101.2	72-124	%	05/23/2005 17:41	
Toluene-d8	101.6	75-116	%	05/23/2005 17:41	

Fuel Oxygenates by 8260B

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Project: 6725-001-05
921 98th Avenue

Received: 05/11/2005 18:20

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Soil** **QC Batch # 2005/05/20-01.69**

LCS 2005/05/20-01.69-018 Extracted: 05/20/2005 Analyzed: 05/20/2005 07:18
LCSD

Compound	Conc. ug/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	47.2		50.0	94.4			65-165	20		
Benzene	48.3		50.0	96.6			69-129	20		
Toluene	48.1		50.0	96.2			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	482		500	96.4			72-124			
Toluene-d8	526		500	105.2			75-116			

Fuel Oxygenates by 8260B

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921 98th Avenue

Received: 05/11/2005 18:20

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Soil** **QC Batch # 2005/05/20-02.69**

LCS 2005/05/20-02.69-037 Extracted: 05/20/2005 Analyzed: 05/20/2005 16:37
LCSD

Compound	Conc. ug/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	47.0		50.0	94.0			65-165	20		
Benzene	50.0		50.0	100.0			69-129	20		
Toluene	50.6		50.0	101.2			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	492		500	98.4			72-124			
Toluene-d8	566		500	113.2			75-116			

Fuel Oxygenates by 8260B

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Project: 6725-001-05
921 98th Avenue

Received: 05/11/2005 18:20

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Soil** **QC Batch # 2005/05/21-01.69**

LCS 2005/05/21-01.69-003 Extracted: 05/21/2005 Analyzed: 05/21/2005 09:03
LCSD

Compound	Conc. ug/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	47.7		50.0	95.4			65-165	20		
Benzene	48.0		50.0	96.0			69-129	20		
Toluene	46.2		50.0	92.4			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	537		500	107.4			72-124			
Toluene-d8	527		500	105.4			75-116			

Fuel Oxygenates by 8260B

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Project: 6725-001-05
921 98th Avenue

Received: 05/11/2005 18:20

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Soil** **QC Batch # 2005/05/23-01.69**

LCS 2005/05/23-01.69-008 Extracted: 05/23/2005 Analyzed: 05/23/2005 07:08

LCSD

Compound	Conc. ug/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	47.7		50.0	95.4			65-165	20		
Benzene	50.3		50.0	100.6			69-129	20		
Toluene	48.5		50.0	97.0			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	480		500	96.0			72-124			
Toluene-d8	520		500	104.0			75-116			

Fuel Oxygenates by 8260B

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Project: 6725-001-05
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Received: 05/11/2005 18:20

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Soil** **QC Batch # 2005/05/23-02.69**

LCS 2005/05/23-02.69-023 Extracted: 05/23/2005 Analyzed: 05/23/2005 17:23

LCSD

Compound	Conc. ug/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	48.7		50.0	97.4			65-165	20		
Benzene	49.7		50.0	99.4			69-129	20		
Toluene	49.5		50.0	99.0			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	497		500	99.4			72-124			
Toluene-d8	534		500	106.8			75-116			

Fuel Oxygenates by 8260B

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Project: 6725-001-05
921 98th Avenue

Received: 05/11/2005 18:20

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2005/05/20-01.69**

MS/MSD

Lab ID: 2005-05-0317 - 002

MS: 2005/05/20-01.69-027 Extracted: 05/20/2005

Analyzed: 05/20/2005 13:27

Dilution: 1.00

MSD: 2005/05/20-01.69-045 Extracted: 05/20/2005

Analyzed: 05/20/2005 13:45

Dilution: 1.00

Compound	Conc. ug/Kg			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/Kg	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	52.3	53.6	ND	47.9	109.2	111.9	2.4	65-165	20		
Benzene	49.7	52.0	ND	47.9	103.8	108.6	4.5	69-129	20		
Toluene	47.8	48.0	ND	47.9	99.8	100.2	0.4	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	545	552		500	109.0	110.4		72-124			
Toluene-d8	555	547		500	111.0	109.4		75-116			

Fuel Oxygenates by 8260B

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Project: 6725-001-05
921 98th Avenue

Received: 05/11/2005 18:20

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2005/05/20-02.69**

MS/MSD

Lab ID: 2005-05-0602 - 001

MS: 2005/05/20-02.69-040 Extracted: 05/20/2005 Analyzed: 05/20/2005 18:40

Dilution: 1.00

MSD: 2005/05/20-02.69-058 Extracted: 05/20/2005 Analyzed: 05/20/2005 18:58

Dilution: 1.00

Compound	Conc. ug/Kg			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/Kg	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	40.5	39.6	ND	47.1	86.0	83.4	3.1	65-165	20		
Benzene	48 2	46.1	ND	47.1	102.3	97.1	5.2	69-129	20		
Toluene	50.0	40.9	ND	47.1	106.2	86.1	20.9	70-130	20		R1
Surrogate(s)											
1,2-Dichloroethane-d4	482	464		500	96.4	92.8		72-124			
Toluene-d8	593	471		500	118.6	94.2		75-116		S7	

Fuel Oxygenates by 8260B

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Project: 6725-001-05
921 98th Avenue

Received: 05/11/2005 18:20

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2005/05/21-01.69**

MS/MSD

Lab ID: 2005-05-0412 - 003

MS: 2005/05/21-01.69-025 Extracted: 05/21/2005 Analyzed: 05/21/2005 13:25

Dilution: 1.00

MSD: 2005/05/21-01.69-040 Extracted: 05/21/2005 Analyzed: 05/21/2005 10:40

Dilution: 1.00

Compound	Conc. ug/Kg			Spk Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/Kg	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	40.0	39.4	ND	48.5	82.5	92.1	11.0	65-165	20		
Benzene	43.0	40.5	ND	48.5	88.7	94.6	6.4	69-129	20		
Toluene	45.1	38.5	ND	48.5	93.0	90.0	3.3	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	613	489		500	122.6	97.8		72-124			
Toluene-d8	526	506		500	105.2	101.2		75-116			

Fuel Oxygenates by 8260B

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Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2005/05/23-01.69**

MS/MSD

Lab ID: 2005-05-0412 - 021

MS: 2005/05/23-01.69-042 Extracted: 05/23/2005

Analyzed: 05/23/2005 15:42

Dilution: 1.00

MSD: 2005/05/23-01.69-010 Extracted: 05/23/2005

Analyzed: 05/23/2005 09:10

Dilution: 1.00

Compound	Conc. ug/Kg			Spk Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/Kg	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	44.3	50.3	ND	49.1	90.2	112.3	21.8	65-165	20		R1
Benzene	45 4	47.6	ND	49.1	92.5	106.3	13.9	69-129	20		
Toluene	46.4	49.3	ND	49.1	94.5	110.0	15.2	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	448	520		500	89.6	104.0		72-124			
Toluene-d8	537	537		500	107.4	107.4		75-116			

Fuel Oxygenates by 8260B

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Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2005/05/23-02.69**

MS/MSD

Lab ID: 2005-05-0647 - 001

MS: 2005/05/23-02.69-045 Extracted: 05/23/2005

Analyzed: 05/23/2005 18:45

Dilution: 1.00

MSD: 2005/05/23-02.69-004 Extracted: 05/23/2005

Analyzed: 05/23/2005 19:04

Dilution: 1.00

Compound	Conc ug/Kg			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/Kg	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	44.3	46.7	ND	48.4	91.5	95.3	4.1	65-165	20		
Benzene	47.0	48.5	ND	48.4	97.1	99 0	1.9	69-129	20		
Toluene	47.6	47.1	ND	48.4	98.3	96.1	2.3	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	482	506		500	96.4	101.2		72-124			
Toluene-d8	526	523		500	105.2	104.6		75-116			

Fuel Oxygenates by 8260B

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Legend and Notes

Analysis Flag

L2

Reporting limits were raised due to high level of analyte present in the sample.

Result Flag

Q1

Quantit. of unknown hydrocarbon(s) in sample based on gasoline.

R1

Analyte RPD was out of QC limits.

S7

Surrogate recoveries higher than acceptance limits.

Gas/BTEXFuel Oxygenates by 8260B (High Level)

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Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
B23-15	05/10/2005 11:25	Soil	8
B34 12.0	05/11/2005 08:40	Soil	17
B25 8.0	05/11/2005 10:10	Soil	20
B25 12.0	05/11/2005 10:20	Soil	21
B26 8.0	05/11/2005 11:05	Soil	25
B26 12.0	05/11/2005 11:10	Soil	26
B26 15.5	05/11/2005 11:15	Soil	27
B27 12.0	05/11/2005 14:05	Soil	29
B24 12.0	05/11/2005 15:05	Soil	33
B24 16.0	05/11/2005 15:20	Soil	34

Gas/BTEXFuel Oxygenates by 8260B (High Level)

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921 98th Avenue

Received: 05/11/2005 18:20

Prep(s): 5030B
Test(s): 8260B

Sample ID: **B23-15**
Lab ID: 2005-05-0330 - 8

Sampled: 05/10/2005 11:25
Extracted: 5/24/2005 01:26

Matrix: Soil
QC Batch#: 2005/05/23-03.69

Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	200000	50000	ug/Kg	1.00	05/24/2005 01:26	
Benzene	ND	500	ug/Kg	1.00	05/24/2005 01:26	
Toluene	640	500	ug/Kg	1.00	05/24/2005 01:26	
Ethyl benzene	1000	500	ug/Kg	1.00	05/24/2005 01:26	
Total xylenes	3400	500	ug/Kg	1.00	05/24/2005 01:26	
Methyl tert-butyl ether (MTBE)	ND	500	ug/Kg	1.00	05/24/2005 01:26	
Surrogate(s)						
1,2-Dichloroethane-d4	92.1	53-129	%	1.00	05/24/2005 01:26	
Toluene-d8	89.9	47-136	%	1.00	05/24/2005 01:26	

Gas/BTEXFuel Oxygenates by 8260B (High Level)

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Received: 05/11/2005 18:20

Prep(s): 5030B
Test(s): 8260B

Sample ID: **B34 12.0**
Lab ID: 2005-05-0330 - 17

Sampled: 05/11/2005 08:40
Extracted: 5/24/2005 01:44

Matrix: Soil
QC Batch#: 2005/05/23-03.69

Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	300000	50000	ug/Kg	1.00	05/24/2005 01:44	
Benzene	ND	500	ug/Kg	1.00	05/24/2005 01:44	
Toluene	ND	500	ug/Kg	1.00	05/24/2005 01:44	
Ethyl benzene	5100	500	ug/Kg	1.00	05/24/2005 01:44	
Total xylenes	1900	500	ug/Kg	1.00	05/24/2005 01:44	
Methyl tert-butyl ether (MTBE)	ND	500	ug/Kg	1.00	05/24/2005 01:44	
Surrogate(s)						
1,2-Dichloroethane-d4	96.0	53-129	%	1.00	05/24/2005 01:44	
Toluene-d8	94.6	47-136	%	1.00	05/24/2005 01:44	

Gas/BTEXFuel Oxygenates by 8260B (High Level)

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Received: 05/11/2005 18:20

Prep(s): 5030B
Test(s): 8260B
Sample ID: **B25 8.0**
Lab ID: 2005-05-0330 - 20
Sampled: 05/11/2005 10:10
Extracted: 5/22/2005 11:37
Matrix: Soil
QC Batch#: 2005/05/20-03.69
Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	66000	50000	ug/Kg	1.00	05/22/2005 11:37	
Benzene	ND	500	ug/Kg	1.00	05/22/2005 11:37	
Toluene	ND	500	ug/Kg	1.00	05/22/2005 11:37	
Ethyl benzene	ND	500	ug/Kg	1.00	05/22/2005 11:37	
Total xylenes	980	500	ug/Kg	1.00	05/22/2005 11:37	
Methyl tert-butyl ether (MTBE)	ND	500	ug/Kg	1.00	05/22/2005 11:37	
Surrogate(s)						
1,2-Dichloroethane-d4	108.4	53-129	%	1.00	05/22/2005 11:37	
Toluene-d8	106.2	47-136	%	1.00	05/22/2005 11:37	

Gas/BTEXFuel Oxygenates by 8260B (High Level)

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Project: 6725-001-05
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Received: 05/11/2005 18:20

Prep(s): 5030B
Test(s): 8260B
Sample ID: **B25 12.0**
Lab ID: 2005-05-0330 - 21
Sampled: 05/11/2005 10:20
Extracted: 5/22/2005 11:55
Matrix: Soil
QC Batch#: 2005/05/20-03.69
Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	360000	50000	ug/Kg	1.00	05/22/2005 11:55	
Benzene	ND	500	ug/Kg	1.00	05/22/2005 11:55	
Toluene	1200	500	ug/Kg	1.00	05/22/2005 11:55	
Ethyl benzene	4700	500	ug/Kg	1.00	05/22/2005 11:55	
Total xylenes	22000	500	ug/Kg	1.00	05/22/2005 11:55	
tert-Butyl alcohol (TBA)	ND	2500	ug/Kg	1.00	05/22/2005 11:55	
Methyl tert-butyl ether (MTBE)	ND	500	ug/Kg	1.00	05/22/2005 11:55	
Di-isopropyl Ether (DIPE)	ND	1000	ug/Kg	1.00	05/22/2005 11:55	
Ethyl tert-butyl ether (ETBE)	ND	500	ug/Kg	1.00	05/22/2005 11:55	
tert-Amyl methyl ether (TAME)	ND	500	ug/Kg	1.00	05/22/2005 11:55	
Surrogate(s)						
1,2-Dichloroethane-d4	83.3	53-129	%	1.00	05/22/2005 11:55	
Toluene-d8	92.7	47-136	%	1.00	05/22/2005 11:55	

Gas/BTEXFuel Oxygenates by 8260B (High Level)

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Prep(s): 5030B
Test(s): 8260B

Sample ID: **B26 8.0**
Lab ID: 2005-05-0330 - 25

Sampled: 05/11/2005 11:05
Extracted: 5/22/2005 19:56

Matrix: Soil
QC Batch#: 2005/05/20-03.69

Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	170000	50000	ug/Kg	1.00	05/22/2005 19:56	
Benzene	ND	500	ug/Kg	1.00	05/22/2005 19:56	
Toluene	ND	500	ug/Kg	1.00	05/22/2005 19:56	
Ethyl benzene	780	500	ug/Kg	1.00	05/22/2005 19:56	
Total xylenes	ND	500	ug/Kg	1.00	05/22/2005 19:56	
Methyl tert-butyl ether (MTBE)	ND	500	ug/Kg	1.00	05/22/2005 19:56	
Surrogate(s)						
1,2-Dichloroethane-d4	101.2	53-129	%	1.00	05/22/2005 19:56	
Toluene-d8	92.6	47-136	%	1.00	05/22/2005 19:56	

Gas/BTEXFuel Oxygenates by 8260B (High Level)

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Received: 05/11/2005 18:20

Prep(s): 5030B
Test(s): 8260B
Sample ID: **B26 12.0**
Lab ID: 2005-05-0330 - 26
Sampled: 05/11/2005 11:10
Extracted: 5/22/2005 19:38
Matrix: Soil
QC Batch#: 2005/05/20-03.69
Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	350000	50000	ug/Kg	1.00	05/22/2005 19:38	
Benzene	ND	500	ug/Kg	1.00	05/22/2005 19:38	
Toluene	ND	500	ug/Kg	1.00	05/22/2005 19:38	
Ethyl benzene	4600	500	ug/Kg	1.00	05/22/2005 19:38	
Total xylenes	1500	500	ug/Kg	1.00	05/22/2005 19:38	
tert-Butyl alcohol (TBA)	ND	2500	ug/Kg	1.00	05/22/2005 19:38	
Methyl tert-butyl ether (MTBE)	ND	500	ug/Kg	1.00	05/22/2005 19:38	
Di-isopropyl Ether (DIPE)	ND	1000	ug/Kg	1.00	05/22/2005 19:38	
Ethyl tert-butyl ether (ETBE)	ND	500	ug/Kg	1.00	05/22/2005 19:38	
tert-Amyl methyl ether (TAME)	ND	500	ug/Kg	1.00	05/22/2005 19:38	
Surrogate(s)						
1,2-Dichloroethane-d4	97.4	53-129	%	1.00	05/22/2005 19:38	
Toluene-d8	93.7	47-136	%	1.00	05/22/2005 19:38	

Gas/BTEXFuel Oxygenates by 8260B (High Level)

ACC Environmental Consultants

Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/11/2005 18:20

Prep(s): 5030B
Test(s): 8260B

Sample ID: **B26 15.5**
Lab ID: 2005-05-0330 - 27

Sampled: 05/11/2005 11:15
Extracted: 5/22/2005 19:19

Matrix: Soil
QC Batch#: 2005/05/20-03.69

Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	160000	50000	ug/Kg	1.00	05/22/2005 19:19	Q1
Benzene	ND	500	ug/Kg	1.00	05/22/2005 19:19	
Toluene	ND	500	ug/Kg	1.00	05/22/2005 19:19	
Ethyl benzene	ND	500	ug/Kg	1.00	05/22/2005 19:19	
Total xylenes	ND	500	ug/Kg	1.00	05/22/2005 19:19	
Methyl tert-butyl ether (MTBE)	ND	500	ug/Kg	1.00	05/22/2005 19:19	
Surrogate(s)						
1,2-Dichloroethane-d4	97.9	53-129	%	1.00	05/22/2005 19:19	
Toluene-d8	96.7	47-136	%	1.00	05/22/2005 19:19	

Gas/BTEXFuel Oxygenates by 8260B (High Level)

ACC Environmental Consultants
Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/11/2005 18:20

Prep(s): 5030B
Test(s): 8260B
Sample ID: **B27 12.0**
Lab ID: 2005-05-0330 - 29
Sampled: 05/11/2005 14:05
Extracted: 5/22/2005 17:15
Matrix: Soil
QC Batch#: 2005/05/20-03.69
Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	63000	50000	ug/Kg	1.00	05/22/2005 17:15	
Benzene	ND	500	ug/Kg	1.00	05/22/2005 17:15	
Toluene	ND	500	ug/Kg	1.00	05/22/2005 17:15	
Ethyl benzene	ND	500	ug/Kg	1.00	05/22/2005 17:15	
Total xylenes	ND	500	ug/Kg	1.00	05/22/2005 17:15	
Methyl tert-butyl ether (MTBE)	ND	500	ug/Kg	1.00	05/22/2005 17:15	
Surrogate(s)						
1,2-Dichloroethane-d4	109.4	53-129	%	1.00	05/22/2005 17:15	
Toluene-d8	99.2	47-136	%	1.00	05/22/2005 17:15	

Gas/BTEXFuel Oxygenates by 8260B (High Level)

ACC Environmental Consultants

Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/11/2005 18:20

Prep(s): 5030B
Sample ID: **B24 12.0**
Sampled: 05/11/2005 15:05
Matrix: Soil
Analysis Flag: L2 (See Legend and Note Section)

Test(s): 8260B
Lab ID: 2005-05-0330 - 33
Extracted: 5/22/2005 16:30
QC Batch#: 2005/05/20-03.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	360000	50000	ug/Kg	1.00	05/22/2005 16:30	
Benzene	ND	500	ug/Kg	1.00	05/22/2005 16:30	
Toluene	1700	500	ug/Kg	1.00	05/22/2005 16:30	
Ethyl benzene	4900	500	ug/Kg	1.00	05/22/2005 16:30	
Total xylenes	22000	500	ug/Kg	1.00	05/22/2005 16:30	
Methyl tert-butyl ether (MTBE)	ND	500	ug/Kg	1.00	05/22/2005 16:30	
Surrogate(s)						
1,2-Dichloroethane-d4	108.4	53-129	%	1.00	05/22/2005 16:30	
Toluene-d8	95.4	47-136	%	1.00	05/22/2005 16:30	

Gas/BTEXFuel Oxygenates by 8260B (High Level)

ACC Environmental Consultants

Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/11/2005 18:20

Prep(s): 5030B
Test(s): 8260B

Sample ID: **B24 16.0**
Lab ID: 2005-05-0330 - 34

Sampled: 05/11/2005 15:20
Extracted: 5/22/2005 16:07

Matrix: Soil
QC Batch#: 2005/05/20-03.69

Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	91000	50000	ug/Kg	1.00	05/22/2005 16:07	
Benzene	ND	500	ug/Kg	1.00	05/22/2005 16:07	
Toluene	ND	500	ug/Kg	1.00	05/22/2005 16:07	
Ethyl benzene	940	500	ug/Kg	1.00	05/22/2005 16:07	
Total xylenes	3700	500	ug/Kg	1.00	05/22/2005 16:07	
Methyl tert-butyl ether (MTBE)	ND	500	ug/Kg	1.00	05/22/2005 16:07	
Surrogate(s)						
1,2-Dichloroethane-d4	104.6	53-129	%	1.00	05/22/2005 16:07	
Toluene-d8	95.1	47-136	%	1.00	05/22/2005 16:07	

Gas/BTEXFuel Oxygenates by 8260B (High Level)

ACC Environmental Consultants

Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/11/2005 18:20

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank

Soil

QC Batch # 2005/05/20-03.69

MB: 2005/05/20-03.69-011

Date Extracted: 05/22/2005 11:11

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50000	ug/Kg	05/22/2005 11:11	
Benzene	ND	500	ug/Kg	05/22/2005 11:11	
Toluene	ND	500	ug/Kg	05/22/2005 11:11	
Ethyl benzene	ND	500	ug/Kg	05/22/2005 11:11	
Total xylenes	ND	500	ug/Kg	05/22/2005 11:11	
tert-Butyl alcohol (TBA)	ND	2500	ug/Kg	05/22/2005 11:11	
Methyl tert-butyl ether (MTBE)	ND	500	ug/Kg	05/22/2005 11:11	
Di-isopropyl Ether (DIPE)	ND	1000	ug/Kg	05/22/2005 11:11	
Ethyl tert-butyl ether (ETBE)	ND	500	ug/Kg	05/22/2005 11:11	
tert-Amyl methyl ether (TAME)	ND	500	ug/Kg	05/22/2005 11:11	
Surrogates(s)					
1,2-Dichloroethane-d4	96.4	53-129	%	05/22/2005 11:11	
Toluene-d8	97.6	47-136	%	05/22/2005 11:11	

Gas/BTEXFuel Oxygenates by 8260B (High Level)

ACC Environmental Consultants

Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/11/2005 18:20

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank

Soil

QC Batch # 2005/05/23-03.69

MB: 2005/05/23-03.69-007

Date Extracted: 05/24/2005 01:07

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50000	ug/Kg	05/24/2005 01:07	
Benzene	ND	500	ug/Kg	05/24/2005 01:07	
Toluene	ND	500	ug/Kg	05/24/2005 01:07	
Ethyl benzene	ND	500	ug/Kg	05/24/2005 01:07	
Total xylenes	ND	500	ug/Kg	05/24/2005 01:07	
tert-Butyl alcohol (TBA)	ND	2500	ug/Kg	05/24/2005 01:07	
Methyl tert-butyl ether (MTBE)	ND	500	ug/Kg	05/24/2005 01:07	
Di-isopropyl Ether (DIPE)	ND	1000	ug/Kg	05/24/2005 01:07	
Ethyl tert-butyl ether (ETBE)	ND	500	ug/Kg	05/24/2005 01:07	
tert-Amyl methyl ether (TAME)	ND	500	ug/Kg	05/24/2005 01:07	
Surrogates(s)					
1,2-Dichloroethane-d4	107.2	53-129	%	05/24/2005 01:07	
Toluene-d8	95.6	47-136	%	05/24/2005 01:07	

Gas/BTEXFuel Oxygenates by 8260B (High Level)

ACC Environmental Consultants

Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/11/2005 18:20

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Soil** **QC Batch # 2005/05/20-03.69**

LCS 2005/05/20-03.69-034 Extracted: 05/22/2005 Analyzed: 05/22/2005 10:34

LCSD 2005/05/20-03.69-052 Extracted: 05/22/2005 Analyzed: 05/22/2005 10:52

Compound	Conc. ug/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	8720	9560	10000	87.2	95.6	9.2	69-129	20		
Toluene	8590	9470	10000	85.9	94.7	9.7	70-130	20		
Methyl tert-butyl ether (MTBE)	9010	9910	10000	90.1	99.1	9.5	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	245	260	250	98.0	104.0		53-129			
Toluene-d8	259	274	250	103.6	109.6		47-136			

Gas/BTEXFuel Oxygenates by 8260B (High Level)

ACC Environmental Consultants

Attn.: Karel Detterman

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Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/11/2005 18:20

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Soil** **QC Batch # 2005/05/23-03.69**

LCS 2005/05/23-03.69-031 Extracted: 05/24/2005 Analyzed: 05/24/2005 00:31

LCSD 2005/05/23-03.69-049 Extracted: 05/24/2005 Analyzed: 05/24/2005 00:49

Compound	Conc. ug/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	8470	8740	10000	84.7	87.4	3.1	69-129	20		
Toluene	8330	8430	10000	83.3	84.3	1.2	70-130	20		
Methyl tert-butyl ether (MTBE)	8960	8860	10000	89.6	88.6	1.1	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	242	237	250	96.8	94.8		53-129			
Toluene-d8	255	234	250	102.0	93.6		47-136			

Gas/BTEXFuel Oxygenates by 8260B (High Level)

ACC Environmental Consultants
Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/11/2005 18:20

Legend and Notes

Analysis Flag

L2

Reporting limits were raised due to high level of analyte present in the sample.

Result Flag

Q1

Quantit. of unknown hydrocarbon(s) in sample based on gasoline.

Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/11/2005 18:20

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
B24 8.0	05/11/2005 14:55	Soil	31

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/11/2005 18:20

Prep(s): 5030B
Sample ID: **B24 8.0**
Sampled: 05/11/2005 14:55
Matrix: Soil

Test(s): 8260B
Lab ID: 2005-05-0330 - 31
Extracted: 5/24/2005 16:20
QC Batch#: 2005/05/24-01.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	1200	1000	ug/Kg	1.00	05/24/2005 16:20	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	05/24/2005 16:20	
Benzene	9.9	5.0	ug/Kg	1.00	05/24/2005 16:20	
Toluene	ND	5.0	ug/Kg	1.00	05/24/2005 16:20	
Ethyl benzene	ND	5.0	ug/Kg	1.00	05/24/2005 16:20	
Total xylenes	ND	5.0	ug/Kg	1.00	05/24/2005 16:20	
Surrogate(s)						
1,2-Dichloroethane-d4	101.8	72-124	%	1.00	05/24/2005 16:20	
Toluene-d8	101.3	75-116	%	1.00	05/24/2005 16:20	

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/11/2005 18:20

Batch QC Report

Prep(s): 5030B
Test(s): 8260B

Method Blank **Soil** **QC Batch # 2005/05/24-01.69**

MB: 2005/05/24-01.69-002

Date Extracted: 05/24/2005 08:02

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	05/24/2005 08:02	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	05/24/2005 08:02	
Benzene	ND	5.0	ug/Kg	05/24/2005 08:02	
Toluene	ND	5.0	ug/Kg	05/24/2005 08:02	
Ethyl benzene	ND	5.0	ug/Kg	05/24/2005 08:02	
Total xylenes	ND	5.0	ug/Kg	05/24/2005 08:02	
Surrogates(s)					
1,2-Dichloroethane-d4	108.4	72-124	%	05/24/2005 08:02	
Toluene-d8	103.6	75-116	%	05/24/2005 08:02	

Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/11/2005 18:20

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Soil** **QC Batch # 2005/05/24-01.69**

LCS 2005/05/24-01.69-044 Extracted: 05/24/2005 Analyzed: 05/24/2005 07:44

LCSD

Compound	Conc. ug/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	51.5		50.0	103.0			65-165	20		
Benzene	47.6		50.0	95.2			69-129	20		
Toluene	45.4		50.0	90.8			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	519		500	103.8			72-124			
Toluene-d8	533		500	106.6			75-116			

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/11/2005 18:20

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2005/05/24-01.69**

MS/MSD

Lab ID: 2005-05-0569 - 001

MS: 2005/05/24-01.69-018 Extracted: 05/24/2005

Analyzed: 05/24/2005 10:18

Dilution: 1.00

MSD: 2005/05/24-01.69-036 Extracted: 05/24/2005

Analyzed: 05/24/2005 10:36

Dilution: 1.00

Compound	Conc. ug/Kg			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/Kg	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	41.4	45.4	ND	50.0	82.8	91.7	10.2	65-165	20		
Benzene	41.3	45.9	ND	50.0	82.6	92.7	11.5	69-129	20		
Toluene	38.2	40.7	ND	50.0	76.4	82.2	7.3	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	501	505		500	100 3	100.9		72-124			
Toluene-d8	521	501		500	104.3	100.3		75-116			

SEVERN TRENT Services

STL San Francisco

Chain of Custody 2005-05-0330

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) [illegible]-1919 • Fax: (925) 484-1096

Reference #: 11-2016

Date 5/10/05 Page 1 of 4

Report To

Attn: KAREL DETTERMAN

Company: ACC ENVIRONMENTAL CONSULTANTS

Address: 7977 CAPWELL DRIVE, OAKLAND, CA

P: (510) 638-8400 x 113 E:kdetterman@accenv.com

Bill To: ACC ENVIRONMENTAL

Sampled By: KD

Attn: Karel Detterman Phone ext: 114

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	TPH EPA ☐ 8015/8021 ☐ 8260B ☑ Gas w/ ☑ BTEX ☑ MTBE	Purgeable Aromatics BTEX EPA - ☐ 8021 ☐ 8260B	TEPH EPA 8015M ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	Fuel Tests EPA 8260B: ☐ Gas ☐ BTEX ☐ Five Oxygenates ☐ DCA, EDB ☐ Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B ☐ 624	Semivolatiles GC/MS ☐ EPA 8270 ☐ 625	Oil and Grease ☐ Petroleum (EPA 1664) ☐ Total	Pesticides ☐ EPA 8081 ☐ 608 PCBs ☐ EPA 8082 ☐ 608	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	W.E.T (STLC) ☐ TCLP	Hexavalent Chromium ☐ ☐ pH (24h hold times for H_2O)	Spec Cond. ☐ Alkalinity ☐ TDS ☐ ☐ TSS	Anions: ☐ ☐ ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4					
B22-5.0	5/10/05	845	soil	ice																					1
B22-10.5		850	↓																						1
B22-W		905	water																						1
B22-32		1020	soil																						1
B23 5.0		1110	soil																						1
B22 15.0		855	soil																						1
B23 10.0		1115	soil																						1
B23 15.0		1125	soil																						1
B28 W		1325	water																						1
B21 W	↓	1345	water	↓																					1

Project Info

Project Name: 921 98th Avenue

Project#: 6725-001-05

PO#:

Credit Card#:

Sample Receipt

of Containers:

Head Space:

Temp: 15°C

Conforms to record:

Other:

TAT: Std 5 Day | 72h | 48h | 24h

Report: ☑ Routine ☐ Level 3 ☐ Level 4 ☐ LDD ☐ State Tank Fund EDF

Special Instructions / Comments

☐ Global ID _____

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Karel Detterman 1730	[illegible] 18:20	
Signature Time	Signature Time	Signature Time
KAREL DETTERMAN 5/11/05	HON 5/11/05	
Printed Name Date	Printed Name Date	Printed Name Date
ACC ENVIRONMENTAL CONSULTANTS		
Company	Company	Company

1) Received by:	2) Received by:	3) Received by:
Hon 17:30	[illegible] 1830	
Signature Time	Signature Time	Signature Time
HON WONG 5/11/05	M. HELLENBECK 5/11/05	
Printed Name Date	Printed Name Date	Printed Name Date
WORLD COURIER	STL SF	
Company	Company	Company

Rev. 11/2

SEVERN TRENT SERVICES

STL San Francisco

Chain of Custody 2005-05-0330

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096

Reference #: 11504

Date 5/10/05 KLD 5/11/05 Page #2 of 4

Report To

Attn: KAREL DETTERMAN

Company: ACC ENVIRONMENTAL CONSULTANTS

Address: 7977 CAPWELL DRIVE, OAKLAND, CA

P: (510) 638-8400 x 113 E:kdetterman@acceny.com

Bill To: ACC ENVIRONMENTAL

Sampled By: R.D

Attn: Karel Detterman Phone ext: 114

Analysis Request

Sample ID	Date	Time	Matrix	Pres.	TPH EPA - ☐ 8015M(D) ☐ 8260B ☐ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics ☐ BTEX EPA - ☐ 8021 ☐ 8260B	TEPH EPA 8015M ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ____	Fuel Tests EPA Modify: ☐ Gas ☐ BTEX ☐ Flex Oxygnates ☐ DO, EDB ☐ Ethanol	Purgeable Halocarbons (HVOCs) EPA #8021	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B ☐ 624	Semivolatiles GC/MS ☐ EPA 8270 ☐ 625	Oil and Grease ☐ Petroleum (EPA 1664) ☐ Total	Pesticides ☐ EPA 8081 ☐ 608 PCBs ☐ EPA 8082 ☐ 608	PAHs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals ☐ Lead ☐ LUFT ☐ RCRA ☐ Other, _____	W.E.T (STLC) ☐ TCLP	Hexavalent Chromium pH (24h hold time for H_2O)	Specific Cond. ☐ TDS TSS	Alkalinity	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4				
B30A 15.0	5/4/05	1505	Soil	ice																						
B29W		1310	Water																							
B30AW		1530																								
B31W		1450																								
B34 4.0	5/4/05	830	Soil																							
B34 8.0		835																								
B34 12.0		840																								
B34 16.0		855																								
B34 20.0		900																								
B23 8.0		1000																								

Project Info.

Project Name: 921 98th Avenue

Project#: 6725-001-05

PO#:

Credit Card#:

TAT: (Std 5 Day) 72h 48h 24h

Report: ☑ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ Site Tank Fund EDF ☐ Global ID _____

Special Instructions / Comments:

Sample Receipt

of Containers:

Head Space:

Temp:

Conforms to record:

Other:

	1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature	Karel Detterman	[illegible]	
Time	1730	1820	
Printed Name	KAREL DETTERMAN	[illegible]	
Date	5/11/05	5/11/05	
Company	ACC ENVIRONMENTAL CONSULTANTS		

	1) Received by:	2) Received by:	3) Received by:
Signature	[illegible]	[illegible]	
Time	17:30	1820	
Printed Name	Hon WONG	M. VILLANUEVA	
Date	5/11/05	5/11/05	
Company	WORLD COURIER	STL SF	

SEVERN TRENT SERVICES

STL San Francisco

Chain of Custody 2005-05-0330

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096

Reference #: 112014

Date 5/11/05 Page 3 of 4

Report To

Attn: KAREL DETTERMAN

Company: ACC ENVIRONMENTAL CONSULTANTS

Address: 7977 CAPWELL DRIVE, OAKLAND, CA

P: (510) 638-8400 x 113 E:kdetterman@acceny.com

Bill To: ACC ENVIRONMENTAL

Sampled By: KJD

Attn: Karel Detterman Phone ext: 114

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	TPH EPA - ☐ 8015M ☐ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX EPA - ☐ 8021 ☐ 602B	TEPH EPA 8015M ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	Red Tests EPA 8260B ☐ Gas ☐ BTEX ☐ Pkg Oxygenates ☐ DCE, EDB ☐ Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021	Volatile Organics GCMS (VOCs) ☐ EPA 8260B ☐ 624	Semivolatiles GCMS ☐ EPA 8270 ☐ 625	Oil and Grease ☐ Petroleum (EPA 1664) ☐ Total	Pesticides ☐ EPA 8081 ☐ 608 PCBs ☐ EPA 8082 ☐ 608	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals. ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	☐ W.E.T (STLC) ☐ TCLP	Hexavalent Chromium ☐ pH (24h hold time for H_2O)	Spec Cond. ☐ Alkalinity ☐ TSS ☐ TDS	Anions: ☐ ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4
B25 12.0	5/11/05	1020	Soil	ice	/																
B25 W		1025	Water		/																
B25 16.0		1040	Soil		/																
B26 4.0		1100			/																
B26 8.0		1105			/																
B26 12.0		1110			/																
B26 15.5		1115			/																
B27 4.0		1325			X	NO SAMPLE															
B27 8.0		1330			/																
B27 12.0		1705			/																

Project Info.

Project Name: **921 98th Avenue**

Project#: **6725-001-05**

PO#:

Credit Card#:

TAT: Std 5 Day | 72h | 48h | 24h

Report: ☒ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF

Special Instructions / Comments:

Sample Receipt

of Containers:

Head Space:

Temp:

Conforms to record:

Other:

1) Relinquished by:
Karel Detter 1730
Signature Time
KAREL DETTERMAN 5/11/05
Printed Name Date
ACC ENVIRONMENTAL CONSULTANTS
Company

2) Relinquished by:
Hon 18:20
Signature Time
HON 5/11/05
Printed Name Date
Company

3) Relinquished by:
Signature Time
Printed Name Date
Company

1) Received by:
Hon 17:30
Signature Time
HON WONG 5/11/05
Printed Name Date
WORLD COURIER
Company

2) Received by:
Signature Time
MARLENE VO 5/11/05
Printed Name Date
STL SF
Company

3) Received by:
Signature Time
Printed Name Date
Company

SEVERN TRENT SERVICES

STL San Francisco

Chain of Custody 2005-05-0330

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096

Reference #: 11504

Date 5/11/05 Page 4 of 4

Report To

Attn: KAREL DETTERMAN

Company: ACC ENVIRONMENTAL CONSULTANTS

Address: 7977 CAPWELL DRIVE, OAKLAND, CA

P: (510) 638-8400 x 113 | E:kdetterman@accenv.com

Bill To: ACC ENVIRONMENTAL | Sampled By: K2D

Attn: Karel Detterman | Phone ext: 114

Analysis Request

Sample ID	Date	Time	Matrix	Preservative	TPH EPA - ☐ 8015M/GRO ☐ 8260B ☐ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX EPA - ☐ 8021 ☐ 8260B	TEPH EPA 8015M ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	Fuel Tests EPA 8260B ☐ Gas ☐ BTEX ☐ Five Oxygenates ☐ DCA, EDB ☐ Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B ☐ 624	Semivolatiles GC/MS ☐ EPA 8270 ☐ 625	Oil and Grease ☐ Petroleum (EPA 1664) ☐ Total	Pesticides ☐ EPA 8081 ☐ 608 PCBs ☐ EPA 8082 ☐ 608	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	W.E.T. (STLC) ☐ TCLP	Hexavalent Chromium ☐ pH (24hr hold time for H_2O)	Specific Cond. ☐ Alkalinity ☐ TSS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_3 ☐ PO_4				
B27W	5/11/05	1415	wtr	ice																					
B24 8.0		1455	soil																						
B24 W		1515	wtr																						
B24 12.0		1005	soil																						
B24 16.0		1020	soil																						
B33W		1630	wtr																						
B34 W		915	W																						

Project Info.

Project Name: 921 98th Avenue

Project#: 6725-001-05

PO#:

Credit Card#:

Sample Receipt

of Containers:

Head Space:

Temp:

Conforms to record:

TAT: Std 5 Day | 72h | 48h | 24h | Other:

Report: ☑ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF ☐ Global ID

Special Instructions / Comments:

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Karel Detter	Hon	
Signature	Signature	Signature
1730	1820	Time
Time	Time	
KAREL DETTERMAN	Hon	Printed Name
Printed Name	Printed Name	
5/11/05	5/11/05	Date
Date	Date	
ACC ENVIRONMENTAL CONSULTANTS		Company
Company	Company	

1) Received by:	2) Received by:	3) Received by:
Hon		
Signature	Signature	Signature
17:30	1820	Time
Time	Time	
HON WONG	M-VILLANUEVA	Printed Name
Printed Name	Printed Name	
5/11/05	5/11/05	Date
Date	Date	
WORLD COURIER	STL SF	Company
Company	Company	

Rev 2/00

SEVERN TRENT STL

Submission#: 2005-05-0436

ACC Environmental Consultants

May 24, 2005

7977 Capwell Drive, Suite 100
Oakland, CA 94621

Attn.: Karel Detterman

Project#: 6725-001-05
Project: 921 98th Avenue

Attached is our report for your samples received on 05/13/2005 17:59
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 06/27/2005 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: dsharma@stl-inc.com

Sincerely,

Dimple Sharma
Project Manager

Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/13/2005 17:59

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
B35 4.0	05/11/2005 16:55	Soil	1
B35 8.0	05/11/2005 17:00	Soil	2
B35 16.0	05/11/2005 17:15	Soil	4

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/13/2005 17:59

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**B35 4.0**	Lab ID:	2005-05-0436 - 1
Sampled:	05/11/2005 16:55	Extracted:	5/17/2005 23:44
Matrix:	Soil	QC Batch#:	2005/05/17-02.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	05/17/2005 23:44	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	05/17/2005 23:44	
Benzene	ND	5.0	ug/Kg	1.00	05/17/2005 23:44	
Toluene	ND	5.0	ug/Kg	1.00	05/17/2005 23:44	
Ethyl benzene	ND	5.0	ug/Kg	1.00	05/17/2005 23:44	
Total xylenes	ND	5.0	ug/Kg	1.00	05/17/2005 23:44	
Surrogate(s)						
1,2-Dichloroethane-d4	113.0	72-124	%	1.00	05/17/2005 23:44	
Toluene-d8	104.9	75-116	%	1.00	05/17/2005 23:44	

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/13/2005 17:59

Prep(s): 5030B
Sample ID: **B35 8.0**
Sampled: 05/11/2005 17:00
Matrix: Soil

Test(s): 8260B
Lab ID: 2005-05-0436 - 2
Extracted: 5/18/2005 00:02
QC Batch#: 2005/05/17-02.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	05/18/2005 00:02	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	05/18/2005 00:02	
Benzene	ND	5.0	ug/Kg	1.00	05/18/2005 00:02	
Toluene	ND	5.0	ug/Kg	1.00	05/18/2005 00:02	
Ethyl benzene	ND	5.0	ug/Kg	1.00	05/18/2005 00:02	
Total xylenes	ND	5.0	ug/Kg	1.00	05/18/2005 00:02	
Surrogate(s)						
1,2-Dichloroethane-d4	110.6	72-124	%	1.00	05/18/2005 00:02	
Toluene-d8	112.3	75-116	%	1.00	05/18/2005 00:02	

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/13/2005 17:59

Prep(s): 5030B
Sample ID: **B35 16.0**
Sampled: 05/11/2005 17:15
Matrix: Soil

Test(s): 8260B
Lab ID: 2005-05-0436 - 4
Extracted: 5/21/2005 00:08
QC Batch#: 2005/05/20-02.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	05/21/2005 00:08	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	05/21/2005 00:08	
Benzene	ND	5.0	ug/Kg	1.00	05/21/2005 00:08	
Toluene	ND	5.0	ug/Kg	1.00	05/21/2005 00:08	
Ethyl benzene	ND	5.0	ug/Kg	1.00	05/21/2005 00:08	
Total xylenes	ND	5.0	ug/Kg	1.00	05/21/2005 00:08	
Surrogate(s)						
1,2-Dichloroethane-d4	103.3	72-124	%	1.00	05/21/2005 00:08	
Toluene-d8	100.3	75-116	%	1.00	05/21/2005 00:08	

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/13/2005 17:59

Batch QC Report

Prep(s): 5030B
Method Blank
MB: 2005/05/17-02.69-040

Soil

Test(s): 8260B
QC Batch # 2005/05/17-02.69
Date Extracted: 05/17/2005 17:40

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	05/17/2005 17:40	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	05/17/2005 17:40	
Benzene	ND	5.0	ug/Kg	05/17/2005 17:40	
Toluene	ND	5.0	ug/Kg	05/17/2005 17:40	
Ethyl benzene	ND	5.0	ug/Kg	05/17/2005 17:40	
Total xylenes	ND	5.0	ug/Kg	05/17/2005 17:40	
Surrogates(s)					
1,2-Dichloroethane-d4	99.0	72-124	%	05/17/2005 17:40	
Toluene-d8	111.2	75-116	%	05/17/2005 17:40	

Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/13/2005 17:59

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank

Soil

QC Batch # 2005/05/20-02.69

MB: 2005/05/20-02.69-055

Date Extracted: 05/20/2005 16:55

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	05/20/2005 16:55	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	05/20/2005 16:55	
Benzene	ND	5.0	ug/Kg	05/20/2005 16:55	
Toluene	ND	5.0	ug/Kg	05/20/2005 16:55	
Ethyl benzene	ND	5.0	ug/Kg	05/20/2005 16:55	
Total xylenes	ND	5.0	ug/Kg	05/20/2005 16:55	
Surrogates(s)					
1,2-Dichloroethane-d4	103.6	72-124	%	05/20/2005 16:55	
Toluene-d8	107.2	75-116	%	05/20/2005 16:55	

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/13/2005 17:59

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Soil** **QC Batch # 2005/05/17-02.69**

LCS 2005/05/17-02.69-022 Extracted: 05/17/2005 Analyzed: 05/17/2005 17:22

LCSD

Compound	Conc. ug/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	37.6		50.0	75.2			65-165	20		
Benzene	49.9		50.0	99.8			69-129	20		
Toluene	53.4		50.0	106.8			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	466		500	93.2			72-124			
Toluene-d8	538		500	107.6			75-116			

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/13/2005 17:59

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Soil** **QC Batch # 2005/05/20-02.69**

LCS 2005/05/20-02.69-037 Extracted: 05/20/2005 Analyzed: 05/20/2005 16:37

LCSD

Compound	Conc. ug/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	47.0		50.0	94.0			65-165	20		
Benzene	50.0		50.0	100.0			69-129	20		
Toluene	50.6		50.0	101.2			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	492		500	98.4			72-124			
Toluene-d8	566		500	113.2			75-116			

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/13/2005 17:59

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2005/05/17-02.69**

MS/MSD

Lab ID: 2005-05-0329 - 001

MS: 2005/05/17-02.69-046 Extracted: 05/17/2005 Analyzed: 05/17/2005 21:00
Dilution: 1.00

MSD: 2005/05/17-02.69-018 Extracted: 05/17/2005 Analyzed: 05/17/2005 21:18
Dilution: 1.00

Compound	Conc. ug/Kg			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/Kg	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	55.4	51.3	ND	48.6	114.0	111.5	2.2	65-165	20		
Benzene	57.0	52.0	ND	48.6	117.3	113.0	3.7	69-129	20		
Toluene	57.7	51.4	ND	48.6	118.7	111.7	6 1	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	578	573		500	115.6	114.6		72-124			
Toluene-d8	520	475		500	104.0	95.0		75-116			

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/13/2005 17:59

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2005/05/20-02.69**

MS/MSD

Lab ID: 2005-05-0602 - 001

MS: 2005/05/20-02.69-040 Extracted: 05/20/2005

Analyzed: 05/20/2005 18:40

Dilution: 1.00

MSD: 2005/05/20-02.69-058 Extracted: 05/20/2005

Analyzed: 05/20/2005 18:58

Dilution: 1.00

Compound	Conc. ug/Kg			Spk Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/Kg	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	40.5	39.6	ND	47.1	86.0	83.4	3.1	65-165	20		
Benzene	48.2	46.1	ND	47.1	102.3	97.1	5 2	69-129	20		
Toluene	50.0	40.9	ND	47.1	106.2	86.1	20.9	70-130	20		R1
Surrogate(s)											
1,2-Dichloroethane-d4	482	464		500	96.4	92.8		72-124			
Toluene-d8	593	471		500	118.6	94.2		75-116		S7	

Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/13/2005 17:59

Legend and Notes

Result Flag

.

-

R1

Analyte RPD was out of QC limits.

S7

Surrogate recoveries higher than acceptance limits.

Gas/BTEXFuel Oxygenates by 8260B (High Level)

ACC Environmental Consultants

Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/13/2005 17:59

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
B35 12.0	05/11/2005 17:05	Soil	3

Gas/BTEXFuel Oxygenates by 8260B (High Level)

ACC Environmental Consultants

Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/13/2005 17:59

Prep(s): 5030B
Test(s): 8260B

Sample ID: **B35 12.0**
Lab ID: 2005-05-0436 - 3

Sampled: 05/11/2005 17:05
Extracted: 5/22/2005 15:45

Matrix: Soil
QC Batch#: 2005/05/20-03.69

Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	380000	50000	ug/Kg	1.00	05/22/2005 15:45	
Benzene	ND	500	ug/Kg	1.00	05/22/2005 15:45	
Toluene	ND	500	ug/Kg	1.00	05/22/2005 15:45	
Ethyl benzene	3500	500	ug/Kg	1.00	05/22/2005 15:45	
Total xylenes	ND	500	ug/Kg	1.00	05/22/2005 15:45	
Methyl tert-butyl ether (MTBE)	ND	500	ug/Kg	1.00	05/22/2005 15:45	
Surrogate(s)						
1,2-Dichloroethane-d4	99.0	53-129	%	1.00	05/22/2005 15:45	
Toluene-d8	94.4	47-136	%	1.00	05/22/2005 15:45	

Gas/BTEXFuel Oxygenates by 8260B (High Level)

ACC Environmental Consultants

Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/13/2005 17:59

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank

Soil

QC Batch # 2005/05/20-03.69

MB: 2005/05/20-03.69-011

Date Extracted: 05/22/2005 11:11

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50000	ug/Kg	05/22/2005 11:11	
Benzene	ND	500	ug/Kg	05/22/2005 11:11	
Toluene	ND	500	ug/Kg	05/22/2005 11:11	
Ethyl benzene	ND	500	ug/Kg	05/22/2005 11:11	
Total xylenes	ND	500	ug/Kg	05/22/2005 11:11	
Methyl tert-butyl ether (MTBE)	ND	500	ug/Kg	05/22/2005 11:11	
Surrogates(s)					
1,2-Dichloroethane-d4	96.4	53-129	%	05/22/2005 11:11	
Toluene-d8	97.6	47-136	%	05/22/2005 11:11	

Gas/BTEXFuel Oxygenates by 8260B (High Level)

ACC Environmental Consultants

Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/13/2005 17:59

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Soil** **QC Batch # 2005/05/20-03.69**

LCS 2005/05/20-03.69-034 Extracted: 05/22/2005 Analyzed: 05/22/2005 10:34

LCSD 2005/05/20-03.69-052 Extracted: 05/22/2005 Analyzed: 05/22/2005 10:52

Compound	Conc. ug/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	8720	9560	10000	87.2	95.6	9.2	69-129	20		
Toluene	8590	9470	10000	85.9	94.7	9.7	70-130	20		
Methyl tert-butyl ether (MTBE)	9010	9910	10000	90.1	99.1	9.5	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	245	260	250	98.0	104.0		53-129			
Toluene-d8	259	274	250	103.6	109.6		47-136			

Gas/BTEXFuel Oxygenates by 8260B (High Level)

ACC Environmental Consultants

Attn.: Karel Detterman

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Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/13/2005 17:59

Legend and Notes

Analysis Flag

L2

Reporting limits were raised due to high level of analyte present in the sample.

SEVERN TRENT SERVICES

STL San Francisco

Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096

2005-05-0436

Reference #: 11211

Date 5/11/05 Page 1 of 1

Report To

Attn: KAREL DETTERMAN
Company: ACC ENVIRONMENTAL CONSULTANTS
Address: 7977 CAPWELL DRIVE, OAKLAND, CA
P: (510) 638-8400 x 113 | E: kdetterman@accenv.com
Bill To: ACC ENVIRONMENTAL | Sampled By: DD + KLD
Attn: Karel Detterman | Phone ext: 114

Analysis Request

Sample ID	Date	Time	Mat-rix	Pres-erv.	TPH EPA - 8015M/8260B Gas w/ BTEX MTBE	Purgeable Aromatics BTEX EPA - 8021 8260B	TEPH EPA 8015M Silica Gel / Diesel Motor Oil Other	Fuel Tests EPA 8260B Gas BTEX / Five Oxygenates DCA, EDB Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021	Volatile Organics GC/MS (VOCs) EPA 8260B 624	Semivolatiles GC/MS EPA 8270 625	Oil and Grease Petroleum Total (EPA 1664)	Pesticides EPA 8081 608 / PCBs EPA 8082 608	PNAs by 8270 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: Lead LUFT RCRA Other	W.E.T (STLC) TCLP	Hexavalent Chromium pH (24h hold time for H_2O)	Spec Cond. Alkalinity TSS TDS	Anions: Cl SO4 NO3 F Br NO2 PO4
B35 4.0	5/11/05	1655	soil	ice	✓															
B35 8.0		1700			✓															
B35 12.0		1705			✓															
B35 16.0		1715			✓															
B35W		1745	wtr		✓															
B32W	5/12/05	1145	wtr		✓															
B36W		1430			✓															

Project Info.

Project Name: 921 98th Avenue
Project#: 6725-001-05
PO#:
Credit Card#:

Sample Receipt

of Containers:
Head Space:
Temp: 2°C
Conforms to record:
Other:

TAT: (Std 5 Day) 72h 48h 24h

Report: ☒ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF ☐ Global ID ______

Special Instructions / Comments:

1) Relinquished by:
Signature: Karel Detterman Time: 1100
Printed Name: KAREL DETTERMAN Date: 5/13/05
Company: ACC ENVIRONMENTAL CONSULTANTS

2) Relinquished by:
Signature: [signature] Time: 1754
Printed Name: [illegible] Date: 5/13/05
Company: STL SF

3) Relinquished by:
Signature: Time:
Printed Name: Date:
Company:

1) Received by:
Signature: [signature] Time: 1100
Printed Name: [illegible] Date: 5/13/05
Company: [illegible]

2) Received by:
Signature: [signature] Time: 1759
Printed Name: M. VILLANUEVA Date: 5/17/05
Company: STL SF

3) Received by:
Signature: Time:
Printed Name: Date:
Company:

SEVERN TRENT STL

Submission#: 2005-05-0436

ACC Environmental Consultants

May 24, 2005

7977 Capwell Drive, Suite 100
Oakland, CA 94621

Attn.: Karel Detterman

Project#: 6725-001-05
Project: 921 98th Avenue

Attached is our report for your samples received on 05/13/2005 17:59
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 06/27/2005 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: dsharma@stl-inc.com

Sincerely,

Dimple Sharma
Project Manager

Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/13/2005 17:59

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
B35 4.0	05/11/2005 16:55	Soil	1
B35 8.0	05/11/2005 17:00	Soil	2
B35 16.0	05/11/2005 17:15	Soil	4

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/13/2005 17:59

Prep(s): 5030B
Sample ID: **B35 4.0**
Sampled: 05/11/2005 16:55
Matrix: Soil

Test(s): 8260B
Lab ID: 2005-05-0436 - 1
Extracted: 5/17/2005 23:44
QC Batch#: 2005/05/17-02.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	05/17/2005 23:44	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	05/17/2005 23:44	
Benzene	ND	5.0	ug/Kg	1.00	05/17/2005 23:44	
Toluene	ND	5.0	ug/Kg	1.00	05/17/2005 23:44	
Ethyl benzene	ND	5.0	ug/Kg	1.00	05/17/2005 23:44	
Total xylenes	ND	5.0	ug/Kg	1.00	05/17/2005 23:44	
Surrogate(s)						
1,2-Dichloroethane-d4	113.0	72-124	%	1.00	05/17/2005 23:44	
Toluene-d8	104.9	75-116	%	1.00	05/17/2005 23:44	

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/13/2005 17:59

Prep(s): 5030B
Sample ID: **B35 8.0**
Sampled: 05/11/2005 17:00
Matrix: Soil

Test(s): 8260B
Lab ID: 2005-05-0436 - 2
Extracted: 5/18/2005 00:02
QC Batch#: 2005/05/17-02.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	05/18/2005 00:02	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	05/18/2005 00:02	
Benzene	ND	5.0	ug/Kg	1.00	05/18/2005 00:02	
Toluene	ND	5.0	ug/Kg	1.00	05/18/2005 00:02	
Ethyl benzene	ND	5.0	ug/Kg	1.00	05/18/2005 00:02	
Total xylenes	ND	5.0	ug/Kg	1.00	05/18/2005 00:02	
Surrogate(s)						
1,2-Dichloroethane-d4	110.6	72-124	%	1.00	05/18/2005 00:02	
Toluene-d8	112.3	75-116	%	1.00	05/18/2005 00:02	

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/13/2005 17:59

Prep(s): 5030B
Sample ID: **B35 16.0**
Sampled: 05/11/2005 17:15
Matrix: Soil

Test(s): 8260B
Lab ID: 2005-05-0436 - 4
Extracted: 5/21/2005 00:08
QC Batch#: 2005/05/20-02.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	05/21/2005 00:08	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	05/21/2005 00:08	
Benzene	ND	5.0	ug/Kg	1.00	05/21/2005 00:08	
Toluene	ND	5.0	ug/Kg	1.00	05/21/2005 00:08	
Ethyl benzene	ND	5.0	ug/Kg	1.00	05/21/2005 00:08	
Total xylenes	ND	5.0	ug/Kg	1.00	05/21/2005 00:08	
Surrogate(s)						
1,2-Dichloroethane-d4	103.3	72-124	%	1.00	05/21/2005 00:08	
Toluene-d8	100.3	75-116	%	1.00	05/21/2005 00:08	

Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/13/2005 17:59

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank

Soil

QC Batch # 2005/05/17-02.69

MB: 2005/05/17-02.69-040

Date Extracted: 05/17/2005 17:40

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	05/17/2005 17:40	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	05/17/2005 17:40	
Benzene	ND	5.0	ug/Kg	05/17/2005 17:40	
Toluene	ND	5.0	ug/Kg	05/17/2005 17:40	
Ethyl benzene	ND	5.0	ug/Kg	05/17/2005 17:40	
Total xylenes	ND	5.0	ug/Kg	05/17/2005 17:40	
Surrogates(s)					
1,2-Dichloroethane-d4	99.0	72-124	%	05/17/2005 17:40	
Toluene-d8	111.2	75-116	%	05/17/2005 17:40	

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/13/2005 17:59

Batch QC Report

Prep(s): 5030B
Method Blank
MB: 2005/05/20-02.69-055

Soil

Test(s): 8260B
QC Batch # 2005/05/20-02.69
Date Extracted: 05/20/2005 16:55

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	05/20/2005 16:55	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	05/20/2005 16:55	
Benzene	ND	5.0	ug/Kg	05/20/2005 16:55	
Toluene	ND	5.0	ug/Kg	05/20/2005 16:55	
Ethyl benzene	ND	5.0	ug/Kg	05/20/2005 16:55	
Total xylenes	ND	5.0	ug/Kg	05/20/2005 16:55	
Surrogates(s)					
1,2-Dichloroethane-d4	103.6	72-124	%	05/20/2005 16:55	
Toluene-d8	107.2	75-116	%	05/20/2005 16:55	

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/13/2005 17:59

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Soil** **QC Batch # 2005/05/17-02.69**

LCS 2005/05/17-02.69-022 Extracted: 05/17/2005 Analyzed: 05/17/2005 17:22

LCSD

Compound	Conc. ug/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	37.6		50.0	75.2			65-165	20		
Benzene	49.9		50.0	99.8			69-129	20		
Toluene	53.4		50.0	106.8			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	466		500	93.2			72-124			
Toluene-d8	538		500	107.6			75-116			

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/13/2005 17:59

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Soil** **QC Batch # 2005/05/20-02.69**

LCS 2005/05/20-02.69-037 Extracted: 05/20/2005 Analyzed: 05/20/2005 16:37
LCSD

Compound	Conc. ug/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	47.0		50.0	94.0			65-165	20		
Benzene	50.0		50.0	100.0			69-129	20		
Toluene	50.6		50.0	101.2			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	492		500	98.4			72-124			
Toluene-d8	566		500	113.2			75-116			

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/13/2005 17:59

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2005/05/17-02.69**

MS/MSD

Lab ID: 2005-05-0329 - 001

MS: 2005/05/17-02.69-046 Extracted: 05/17/2005 Analyzed: 05/17/2005 21:00
Dilution: 1.00

MSD: 2005/05/17-02.69-018 Extracted: 05/17/2005 Analyzed: 05/17/2005 21:18
Dilution: 1.00

Compound	Conc. ug/Kg			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/Kg	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	55.4	51.3	ND	48.6	114.0	111.5	2.2	65-165	20		
Benzene	57.0	52 0	ND	48.6	117.3	113.0	3.7	69-129	20		
Toluene	57.7	51.4	ND	48.6	118.7	111.7	6.1	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	578	573		500	115.6	114.6		72-124			
Toluene-d8	520	475		500	104.0	95.0		75-116			

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Karel Detterman

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Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/13/2005 17:59

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2005/05/20-02.69**

MS/MSD

Lab ID: 2005-05-0602 - 001

MS: 2005/05/20-02.69-040 Extracted: 05/20/2005

Analyzed: 05/20/2005 18:40

Dilution: 1.00

MSD: 2005/05/20-02.69-058 Extracted: 05/20/2005

Analyzed: 05/20/2005 18:58

Dilution: 1.00

Compound	Conc. ug/Kg			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/Kg	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	40.5	39.6	ND	47.1	86.0	83.4	3.1	65-165	20		
Benzene	48.2	46.1	ND	47.1	102.3	97.1	5.2	69-129	20		
Toluene	50.0	40.9	ND	47.1	106.2	86.1	20.9	70-130	20		R1
Surrogate(s)											
1,2-Dichloroethane-d4	482	464		500	96.4	92.8		72-124			
Toluene-d8	593	471		500	118.6	94.2		75-116		S7	

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/13/2005 17:59

Legend and Notes

Result Flag

R1

Analyte RPD was out of QC limits.

S7

Surrogate recoveries higher than acceptance limits.

Gas/BTEXFuel Oxygenates by 8260B (High Level)

ACC Environmental Consultants

Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/13/2005 17:59

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
B35 12.0	05/11/2005 17:05	Soil	3

Gas/BTEXFuel Oxygenates by 8260B (High Level)

ACC Environmental Consultants

Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/13/2005 17:59

Prep(s): 5030B
Sample ID: **B35 12.0**
Sampled: 05/11/2005 17:05
Matrix: Soil

Test(s): 8260B
Lab ID: 2005-05-0436 - 3
Extracted: 5/22/2005 15:45
QC Batch#: 2005/05/20-03.69

Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	380000	50000	ug/Kg	1.00	05/22/2005 15:45	
Benzene	ND	500	ug/Kg	1.00	05/22/2005 15:45	
Toluene	ND	500	ug/Kg	1.00	05/22/2005 15:45	
Ethyl benzene	3500	500	ug/Kg	1.00	05/22/2005 15:45	
Total xylenes	ND	500	ug/Kg	1.00	05/22/2005 15:45	
Methyl tert-butyl ether (MTBE)	ND	500	ug/Kg	1.00	05/22/2005 15:45	
Surrogate(s)						
1,2-Dichloroethane-d4	99.0	53-129	%	1.00	05/22/2005 15:45	
Toluene-d8	94.4	47-136	%	1.00	05/22/2005 15:45	

Gas/BTEXFuel Oxygenates by 8260B (High Level)

ACC Environmental Consultants

Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/13/2005 17:59

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank

Soil

QC Batch # 2005/05/20-03.69

MB: 2005/05/20-03.69-011

Date Extracted: 05/22/2005 11:11

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50000	ug/Kg	05/22/2005 11:11	
Benzene	ND	500	ug/Kg	05/22/2005 11:11	
Toluene	ND	500	ug/Kg	05/22/2005 11:11	
Ethyl benzene	ND	500	ug/Kg	05/22/2005 11:11	
Total xylenes	ND	500	ug/Kg	05/22/2005 11:11	
Methyl tert-butyl ether (MTBE)	ND	500	ug/Kg	05/22/2005 11:11	
Surrogates(s)					
1,2-Dichloroethane-d4	96.4	53-129	%	05/22/2005 11:11	
Toluene-d8	97.6	47-136	%	05/22/2005 11:11	

Gas/BTEXFuel Oxygenates by 8260B (High Level)

ACC Environmental Consultants

Attn.: Karel Detterman

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Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/13/2005 17:59

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Soil** **QC Batch # 2005/05/20-03.69**

LCS 2005/05/20-03.69-034 Extracted: 05/22/2005 Analyzed: 05/22/2005 10:34

LCSD 2005/05/20-03.69-052 Extracted: 05/22/2005 Analyzed: 05/22/2005 10:52

Compound	Conc. ug/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	8720	9560	10000	87.2	95.6	9.2	69-129	20		
Toluene	8590	9470	10000	85.9	94.7	9.7	70-130	20		
Methyl tert-butyl ether (MTBE)	9010	9910	10000	90.1	99.1	9.5	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	245	260	250	98.0	104.0		53-129			
Toluene-d8	259	274	250	103.6	109.6		47-136			

Gas/BTEXFuel Oxygenates by 8260B (High Level)

ACC Environmental Consultants

Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/13/2005 17:59

Legend and Notes

Analysis Flag

L2

Reporting limits were raised due to high level of analyte present in the sample.

Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/13/2005 17:59

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
B35W	05/11/2005 17:45	Water	5
B32W	05/12/2005 11:45	Water	6
B36W	05/12/2005 14:30	Water	7

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/13/2005 17:59

Prep(s): 5030B
Test(s): 8260B
Sample ID: **B35W**
Lab ID: 2005-05-0436 - 5
Sampled: 05/11/2005 17:45
Extracted: 5/25/2005 13:50
Matrix: Water
QC Batch#: 2005/05/25-01.62
Analysis Flag: H1,L2, pH: 6 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	10000	500	ug/L	10.00	05/25/2005 13:50	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	10.00	05/25/2005 13:50	
Benzene	15	5.0	ug/L	10.00	05/25/2005 13:50	
Toluene	ND	5.0	ug/L	10.00	05/25/2005 13:50	
Ethylbenzene	120	5.0	ug/L	10.00	05/25/2005 13:50	
Total xylenes	13	10	ug/L	10.00	05/25/2005 13:50	
Surrogate(s)						
1,2-Dichloroethane-d4	114.0	73-130	%	10.00	05/25/2005 13:50	
Toluene-d8	100.8	81-114	%	10.00	05/25/2005 13:50	

Fuel Oxygenates by 8260B

ACC Environmental Consultants
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Project: 6725-001-05
921 98th Avenue

Received: 05/13/2005 17:59

Prep(s): 5030B
Sample ID: **B32W**
Sampled: 05/12/2005 11:45
Matrix: Water

Test(s): 8260B
Lab ID: 2005-05-0436 - 6
Extracted: 5/22/2005 10:41
QC Batch#: 2005/05/22-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	120	50	ug/L	1.00	05/22/2005 10:41	
Methyl tert-butyl ether (MTBE)	1.6	0.50	ug/L	1.00	05/22/2005 10:41	
Benzene	1.6	0.50	ug/L	1.00	05/22/2005 10:41	
Toluene	ND	1.0	ug/L	1.00	05/22/2005 10:41	
Ethylbenzene	5.5	0.50	ug/L	1.00	05/22/2005 10:41	
Total xylenes	8.6	1.0	ug/L	1.00	05/22/2005 10:41	
Surrogate(s)						
1,2-Dichloroethane-d4	113.7	73-130	%	1.00	05/22/2005 10:41	
Toluene-d8	100.2	81-114	%	1.00	05/22/2005 10:41	

Fuel Oxygenates by 8260B

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Project: 6725-001-05
921 98th Avenue

Received: 05/13/2005 17:59

Prep(s): 5030B
Sample ID: **B36W**
Sampled: 05/12/2005 14:30
Matrix: Water

Test(s): 8260B
Lab ID: 2005-05-0436 - 7
Extracted: 5/22/2005 11:08
QC Batch#: 2005/05/22-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	05/22/2005 11:08	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	05/22/2005 11:08	
Benzene	ND	0.50	ug/L	1.00	05/22/2005 11:08	
Toluene	ND	0.50	ug/L	1.00	05/22/2005 11:08	
Ethylbenzene	ND	0.50	ug/L	1.00	05/22/2005 11:08	
Total xylenes	ND	1.0	ug/L	1.00	05/22/2005 11:08	
Surrogate(s)						
1,2-Dichloroethane-d4	112.3	73-130	%	1.00	05/22/2005 11:08	
Toluene-d8	101.3	81-114	%	1.00	05/22/2005 11:08	

Fuel Oxygenates by 8260B

ACC Environmental Consultants
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Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/13/2005 17:59

Batch QC Report

Prep(s): 5030B
Test(s): 8260B

Method Blank **Water** **QC Batch # 2005/05/22-01.62**

MB: 2005/05/22-01.62-048

Date Extracted: 05/22/2005 08:49

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	05/22/2005 08:49	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	05/22/2005 08:49	
Benzene	ND	0.5	ug/L	05/22/2005 08:49	
Toluene	ND	0.5	ug/L	05/22/2005 08:49	
Ethylbenzene	ND	0.5	ug/L	05/22/2005 08:49	
Total xylenes	ND	1.0	ug/L	05/22/2005 08:49	
Surrogates(s)					
1,2-Dichloroethane-d4	106.8	73-130	%	05/22/2005 08:49	
Toluene-d8	99.4	81-114	%	05/22/2005 08:49	

Fuel Oxygenates by 8260B

ACC Environmental Consultants

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Project: 6725-001-05
921 98th Avenue

Received: 05/13/2005 17:59

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank

Water

QC Batch # 2005/05/25-01.62

MB: 2005/05/25-01.62-027

Date Extracted: 05/25/2005 07:27

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	05/25/2005 07:27	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	05/25/2005 07:27	
Benzene	ND	0.5	ug/L	05/25/2005 07:27	
Toluene	ND	0.5	ug/L	05/25/2005 07:27	
Ethylbenzene	ND	0.5	ug/L	05/25/2005 07:27	
Total xylenes	ND	1.0	ug/L	05/25/2005 07:27	
Surrogates(s)					
1,2-Dichloroethane-d4	98.6	73-130	%	05/25/2005 07:27	
Toluene-d8	98.8	81-114	%	05/25/2005 07:27	

Fuel Oxygenates by 8260B

ACC Environmental Consultants
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Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/13/2005 17:59

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2005/05/22-01.62**

LCS 2005/05/22-01.62-049 Extracted: 05/22/2005 Analyzed: 05/22/2005 08:23

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	22.5		25.0	90.0			65-165	20		
Benzene	20.2		25.0	80.8			69-129	20		
Toluene	24.7		25.0	98.8			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	540		500	108.0			73-130	0		
Toluene-d8	509		500	101.8			81-114	0		

Fuel Oxygenates by 8260B

ACC Environmental Consultants
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Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/13/2005 17:59

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2005/05/25-01.62**

LCS 2005/05/25-01.62-001 Extracted: 05/25/2005 Analyzed: 05/25/2005 07:01
LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	19.5		25.0	78.0			65-165	20		
Benzene	23.5		25.0	94.0			69-129	20		
Toluene	24.1		25.0	96.4			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	464		500	92.8			73-130			
Toluene-d8	507		500	101.4			81-114			

Fuel Oxygenates by 8260B

ACC Environmental Consultants
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Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/13/2005 17:59

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2005/05/22-01.62**

MS/MSD

Lab ID: 2005-05-0412 - 004

MS: 2005/05/22-01.62-047 Extracted: 05/22/2005

Analyzed: 05/22/2005 09:47

Dilution: 1.00

MSD: 2005/05/22-01.62-013 Extracted: 05/22/2005

Analyzed: 05/22/2005 10:13

Dilution: 1.00

Compound	Conc ug/L			Spk Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	30.1	35.0	4.42	25.0	102.7	122.3	17.4	65-165	20		
Benzene	22.9	20.9	ND	25.0	91.6	83.6	9.1	69-129	20		
Toluene	28.9	26.4	ND	25.0	115.6	105.6	9.0	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	529	620		500	105.9	124.1		73-130			
Toluene-d8	518	493		500	103.6	98.6		81-114			

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Karel Detterman

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Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/13/2005 17:59

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2005/05/25-01.62**

MS/MSD

Lab ID: 2005-05-0404 - 001

MS: 2005/05/25-01.62-003 Extracted: 05/25/2005 Analyzed: 05/25/2005 12:03

Dilution: 1.00

MSD: 2005/05/25-01.62-029 Extracted: 05/25/2005 Analyzed: 05/25/2005 12:29

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	22.1	26.1	3.60	25.0	74.0	90.0	19.5	65-165	20		
Benzene	22.0	24.8	ND	25.0	88.0	99.2	12.0	69-129	20		
Toluene	22.7	25.1	ND	25.0	90.8	100.4	10.0	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	513	519		500	102.6	103.8		73-130			
Toluene-d8	511	507		500	102.2	101.4		81-114			

Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Avenue

Received: 05/13/2005 17:59

Legend and Notes

Sample Comment

Lab ID: 2005-05-0436 -6

The reporting limit for Toluene was raised for this sample from 0.5 ug/L to 1.0 ug/L due to possible laboratory contamination.

Analysis Flag

H1

Extracted out of holding time.

L2

Reporting limits were raised due to high level of analyte present in the sample.

SEVERN TRENT SERVICES

STL San Francisco

Chain of Custody

1220 Quarry Lane ● Pleasanton CA 94566-4756
Phone: (925) 484-1919 ● Fax: (925) 484-1096

Reference #: 112111

Date 5/11/05 Page 1 of 1

2005-05-0436

Report To

Attn: KAREL DETTERMAN

Company: ACC ENVIRONMENTAL CONSULTANTS

Address: 7977 CAPWELL DRIVE, OAKLAND, CA

P: (510) 638-8400 x 113 | E: kdetterman@accenv.com

Bill To: ACC ENVIRONMENTAL | Sampled By: DD + KLD

Attn: Karel Detterman | Phone ext: 114

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	TPH EPA - ☐ 8015/8021 ☐ 8260 ☒ Gas w/ ☐ BTEX ☒ MTBE	Purgeable Aromatics BTEX EPA - ☐ 8021 ☐ 8260	TEPH EPA 8015M ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	Fuel Tests EPA 8260B ☐ Gas ☐ BTEX ☐ Five Oxygenates ☐ DCA, EDB ☐ Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B ☐ 624	Semivolatiles GC/MS ☐ EPA 8270 ☐ 625	Oil and Grease ☐ Petroleum ☐ Total (EPA 1664)	Pesticides ☐ EPA 8081 ☐ 608 PCBs ☐ EPA 8082 ☐ 608	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	☐ W.E.T (STLC) ☐ TCLP	☐ Hexavalent Chromium ☐ pH (24h hold time for H_2O)	☐ Spec Cond. ☐ Alkalinity ☐ TSS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4
B35 4.0	5/11/05	1655	soil	ice	✓															
B35 8.0	↓	1700	↓	↓	✓															
B35 12.0	↓	1705	↓	↓	✓															
B35 16.0	↓	1715	↓	↓	✓															
B35W	↓	1745	wtr	↓	✓															
B32W	5/12/05	1145	wtr	↓	✓															
B36W	↓	1430	↓	↓	✓															

Project Info.

Project Name: 921 98th Avenue

Project#: 6725-001-05

PO#:

Credit Card#:

Sample Receipt

of Containers:

Head Space:

Temp. 2°C

Conforms to record

Other

TAT: (Std 5 Day) circled | 72h | 48h | 24h

Report ☒ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF ☐ Global ID

Special Instructions / Comments:

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: Karel Detterman Time: 1100	Signature: [signature] Time: 1759	Signature: Time:
Printed Name: KAREL DETTERMAN Date: 5/13/05	Printed Name: [illegible] Date: 5/13/05	Printed Name: Date:
Company: ACC ENVIRONMENTAL CONSULTANTS	Company: STL SF	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: [signature] Time: 1100	Signature: [signature] Time: 1759	Signature: Time:
Printed Name: [illegible] Date: 5/13/05	Printed Name: M. VILLANUEVA Date: 5/13/05	Printed Name: Date:
Company: STL-SF	Company: STL SF	Company:

SEVERN TRENT STL

Submission#: 2005-05-0650

ACC Environmental Consultants

May 31, 2005

7977 Capwell Drive, Suite 100
Oakland, CA 94621

Attn.: Aaron Wolf

Project#: 6725-001.05
Project: 921 98th Ave.

Dear Mr. Wolf,

Attached is our report for your samples received on 05/23/2005 14:20
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 07/07/2005 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: dsharma@stl-inc.com

Sincerely,

Dimple Sharma
Project Manager

SEVERN TRENT STL

Submission: 2005-05-0650

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Aaron Wolf

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001.05
921 98th Ave.

Received: 05/23/2005 14:20

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
W-B23	05/20/2005 12:15	Water	1
W-B35	05/20/2005 10:32	Water	2

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Aaron Wolf

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001.05
921 98th Ave.

Received: 05/23/2005 14:20

Prep(s): 5030B
Sample ID: **W-B23**
Sampled: 05/20/2005 12:15
Matrix: Water
pH: <2

Test(s): 8260B
Lab ID: 2005-05-0650 - 1
Extracted: 5/28/2005 11:12
QC Batch#: 2005/05/28-01.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	630	50	ug/L	1.00	05/28/2005 11:12	
Methyl tert-butyl ether (MTBE)	0.68	0.50	ug/L	1.00	05/28/2005 11:12	
Benzene	150	0.50	ug/L	1.00	05/28/2005 11:12	
Toluene	47	0.50	ug/L	1.00	05/28/2005 11:12	
Ethylbenzene	23	0.50	ug/L	1.00	05/28/2005 11:12	
Total xylenes	65	1.0	ug/L	1.00	05/28/2005 11:12	
Surrogate(s)						
1,2-Dichloroethane-d4	114.4	73-130	%	1.00	05/28/2005 11:12	
Toluene-d8	107.3	81-114	%	1.00	05/28/2005 11:12	

Fuel Oxygenates by 8260B

ACC Environmental Consultants
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Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001.05
921 98th Ave.

Received: 05/23/2005 14:20

Prep(s): 5030B
Sample ID: **W-B35**
Sampled: 05/20/2005 10:32
Matrix: Water
pH: <2

Test(s): 8260B
Lab ID: 2005-05-0650 - 2
Extracted: 5/28/2005 11:30
QC Batch#: 2005/05/28-01.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	110	50	ug/L	1.00	05/28/2005 11:30	Q1
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	05/28/2005 11:30	
Benzene	ND	0.50	ug/L	1.00	05/28/2005 11:30	
Toluene	ND	0.50	ug/L	1.00	05/28/2005 11:30	
Ethylbenzene	ND	0.50	ug/L	1.00	05/28/2005 11:30	
Total xylenes	ND	1.0	ug/L	1.00	05/28/2005 11:30	
Surrogate(s)						
1,2-Dichloroethane-d4	117.3	73-130	%	1.00	05/28/2005 11:30	
Toluene-d8	106.5	81-114	%	1.00	05/28/2005 11:30	

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Aaron Wolf

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Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001.05
921 98th Ave.

Received: 05/23/2005 14:20

Batch QC Report

Prep(s): 5030B
Method Blank
MB: 2005/05/28-01.69-044

Water

Test(s): 8260B
QC Batch # 2005/05/28-01.69
Date Extracted: 05/28/2005 10:44

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	05/28/2005 10:44	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	05/28/2005 10:44	
Benzene	ND	0.5	ug/L	05/28/2005 10:44	
Toluene	ND	0.5	ug/L	05/28/2005 10:44	
Ethylbenzene	ND	0.5	ug/L	05/28/2005 10:44	
Total xylenes	ND	1.0	ug/L	05/28/2005 10:44	
Surrogates(s)					
1,2-Dichloroethane-d4	105.0	73-130	%	05/28/2005 10:44	
Toluene-d8	103.8	81-114	%	05/28/2005 10:44	

Fuel Oxygenates by 8260B

ACC Environmental Consultants
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Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001.05
921 98th Ave.

Received: 05/23/2005 14:20

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2005/05/28-01.69**

LCS 2005/05/28-01.69-056 Extracted: 05/28/2005 Analyzed: 05/28/2005 09:56

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	22.6		25.0	90.4			65-165	20		
Benzene	25.7		25.0	102.8			69-129	20		
Toluene	24.5		25.0	98.0			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	506		500	101.2			73-130			
Toluene-d8	533		500	106.6			81-114			

Fuel Oxygenates by 8260B

ACC Environmental Consultants
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Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001.05
921 98th Ave.

Received: 05/23/2005 14:20

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2005/05/28-01.69**

MS/MSD

Lab ID: 2005-05-0579 - 002

MS: 2005/05/28-01.69-043 Extracted: 05/28/2005 Analyzed: 05/28/2005 12:43

Dilution: 1.00

MSD: 2005/05/28-01.69-002 Extracted: 05/28/2005 Analyzed: 05/28/2005 13:02

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	20.6	20.6	ND	25.0	82.4	82.4	0.0	65-165	20		
Benzene	25.8	24.6	ND	25.0	103.2	98.4	4.8	69-129	20		
Toluene	25.2	22.9	ND	25.0	100.8	91.6	9.6	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	518	528		500	103.6	105.6		73-130			
Toluene-d8	521	522		500	104.2	104.4		81-114			

Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Aaron Wolf

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Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001.05
921 98th Ave.

Received: 05/23/2005 14:20

Legend and Notes

Result Flag

Q1

Quantit. of unknown hydrocarbon(s) in sample based on gasoline.

SEVERN TRENT SERVICES

STL San Francisco

Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone (925) 484-1919 • Fax (925) 484-1096

2005-05-0650

Reference #: [illegible]

Date: [illegible] Page 1 of 1

Report To

Attn: Aaron Wolf

Company: ACC ENVIRONMENTAL CONSULTANTS

Address: 7977 CAPWELL DRIVE, OAKLAND, CA

P (510) 638-8400 Email: awolf@accenv.com

Bill To: ACC ENVIRONMENTAL

Sampled By: Aaron Wolf

Attn: Aaron

Phone ext. X102

Analysis Request

Sample ID	Date	Time	Mat	Preserv	TPH EPA 8015 / 8021 / 8260 Gas w/ BTEX MTBE	Purgeable Aromatics BTEX EPA	TEPH EPA 8015M Silica Gel Diesel Motor Oil Other	Fuel Tests EPA 8260B	Purgeable Halocarbons (HVOCs)	Volatile Organics GC/MS (VOCs) EPA 8260B	Semivolatiles GC/MS EPA 8270	Oil and Grease Petroleum Total (EPA 1664)	Pesticides EPA 8081 / PCBs EPA 8082	PNAs by 8270 / 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals Lead LUFT RCRA Other	W.E.T (STLC) TCLP	Hexavalent Chromium pH (24h hold time for H2O)	Spec Cond TSS / Alkalinity TDS	Anions						Number of Containers
W-B23	5/20	12:15	H_2O	HCl	X																					3
W-B35	5/20	10:32	H_2O	HCl	X																					3

Project Info. / **Sample Receipt**

Project Name: 921 98th Ave.

Project#: 6725-001.05

PO#:

Credit Card#:

# of Containers: 6

Head Space:

Temp: [illegible]

Conforms to record:

TAT: Std 5 Day ☒ | 72h | 48h | 24h | Other:

Report: ☒ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF ☐ Global ID Number

Special Instructions / Comments:

1) Relinquished by: [signature] Time: 1250 [illegible]
Signature Time
Aaron Wolf Date: 05-23-05
Printed Name Date
ACC ENVIRONMENTAL CONSULTANTS
Company

2) Relinquished by:
Signature Time
Printed Name Date
Company

3) Relinquished by: [signature]
Signature Time
Vincent [illegible] [illegible]
Printed Name Date
STL-SF 5-23-05
Company

1) Received by: [signature] 1340
Signature Time
Vincent [illegible] 5-23-05
Printed Name Date
STL-SF
Company

2) Received by:
Signature Time
Printed Name Date
Company

3) Received by: [signature]
Signature Time
[illegible] 1420
Printed Name Date
STL SF 5-23-05
Company

STL San Francisco

Sample Receipt Checklist

Submission #:2005- 05-0450

Checklist completed by:	[handwritten initials]	DATE	05-24-05
Courier: ☒ STL SF ✓, ✓	Courier ☐ Fedex UPS Other		Client ☐

	Log-In Details	Yes	No	Comments
1	Custody seals intact on shipping container/samples		✓	
2	Chain of custody present?	✓		
3	Chain of custody signed when relinquished and received?	✓		☐ Relinquished Sample Condition ☐ Coolers ...
4	All samples checked when COC relinquished		✓	
5	Chain of custody agrees with sample labels?	✓		
6	Samples in proper container/bottle?	✓		
7	Sample containers intact?	✓		
8	Sufficient sample volume for indicated test?	✓		
9	All samples received within holding time?	✓		

Cooler Temperature Compliance Check

Temperature Blank Reading
4

If not the blank ... fill ... temperature ... as per SOP →

Cooler Sample Temperature			
#1	#2	#3	Average

Reason for Elevated Temperature
☐ - Ice Melted ☐ Insufficient Ice ☐
☐ Samp. in boxes ☐ Sampled < 4 hr ☐ Ice not rec

Samples with Temp > 6°C - Comments

VOA Sample Inspection

		Small	Med.	Large	
Are bubbles present in any of the VOA vials ?	Sample #	O	O	O	Samples with broken, cracked or leaking containers
		☐	☐	☐	
		☐	☐	☐	
		☐	☐	☐	

	Yes	No	Samples with Unacceptable pH
Water - pH acceptable upon receipt?	☐	☐	

☐ pH adjusted Preservative used: ☐ HNO_3 ☐ HCl ☐ H_2SO_4 ☐ NaOH ☐ ZnOAc -Lot #(s) ____________

SEVERN TRENT STL

Submission#: 2005-06-0540

ACC Environmental Consultants

June 29, 2005

7977 Capwell Drive, Suite 100
Oakland, CA 94621

Attn.: Karel Detterman

Project#: 6725-001-05
Project: 921 98th Ave.

Attached is our report for your samples received on 06/20/2005 17:20
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 08/04/2005 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: dsharma@stl-inc.com

Sincerely,

Dimple Sharma
Project Manager

Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Ave.

Received: 06/20/2005 17:20

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
p2rw	06/17/2005 13:30	Water	1

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Ave.

Received: 06/20/2005 17:20

Prep(s): 5030B
Sample ID: **p2rw**
Sampled: 06/17/2005 13:30
Matrix: Water
pH: 5

Test(s): 8260B
Lab ID: 2005-06-0540 - 1
Extracted: 6/26/2005 22:22
QC Batch#: 2005/06/26-02.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	1500	50	ug/L	1.00	06/26/2005 22:22	.
Methyl tert-butyl ether (MTBE)	1.1	0.50	ug/L	1.00	06/26/2005 22:22	
Benzene	9.6	0.50	ug/L	1.00	06/26/2005 22:22	
Toluene	2.0	0.50	ug/L	1.00	06/26/2005 22:22	
Ethylbenzene	15	0.50	ug/L	1.00	06/26/2005 22:22	
Total xylenes	59	1.0	ug/L	1.00	06/26/2005 22:22	
Surrogate(s)						
1,2-Dichloroethane-d4	102.5	73-130	%	1.00	06/26/2005 22:22	
Toluene-d8	83.1	81-114	%	1.00	06/26/2005 22:22	

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Ave.

Received: 06/20/2005 17:20

Batch QC Report

Prep(s): 5030B
Test(s): 8260B

Method Blank
Water
QC Batch # 2005/06/26-02.64

MB: 2005/06/26-02.64-028
Date Extracted: 06/26/2005 19:28

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	06/26/2005 19:28	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	06/26/2005 19:28	
Benzene	ND	0.5	ug/L	06/26/2005 19:28	
Toluene	ND	0.5	ug/L	06/26/2005 19:28	
Ethylbenzene	ND	0.5	ug/L	06/26/2005 19:28	
Total xylenes	ND	1.0	ug/L	06/26/2005 19:28	
Surrogates(s)					
1,2-Dichloroethane-d4	87.4	73-130	%	06/26/2005 19:28	
Toluene-d8	89.0	81-114	%	06/26/2005 19:28	

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Ave.

Received: 06/20/2005 17:20

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2005/06/26-02.64**

LCS 2005/06/26-02.64-004 Extracted: 06/26/2005 Analyzed: 06/26/2005 19:04
LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	26.0		25.0	104.0			65-165	20		
Benzene	23.4		25.0	93.6			69-129	20		
Toluene	24.9		25.0	99.6			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	424		500	84.8			73-130			
Toluene-d8	438		500	87.6			81-114			

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Ave.

Received: 06/20/2005 17:20

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2005/06/26-02.64**

MS/MSD

Lab ID: 2005-06-0503 - 010

MS: 2005/06/26-02.64-029 Extracted: 06/26/2005 Analyzed: 06/26/2005 20:22

Dilution: 1.00

MSD: 2005/06/26-02.64-030 Extracted: 06/26/2005 Analyzed: 06/26/2005 20:46

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	322	273	268	25.0	216.0	20.0	166.	65-165	20	M3,.	M3
Benzene	24.3	22.7	ND	25.0	97.2	90.8	6.8	69-129	20		
Toluene	29.0	23.5	ND	25.0	116.0	94.0	21.0	70-130	20		R1
Surrogate(s)											
1,2-Dichloroethane-d4	443	438		500	88.6	87.6		73-130	0		
Toluene-d8	481	439		500	96.2	87.8		81-114	0		

Fuel Oxygenates by 8260B

ACC Environmental Consultants
Attn.: Karel Detterman

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001-05
921 98th Ave.

Received: 06/20/2005 17:20

Legend and Notes

Result Flag

M3

Sample > 4x spike concentration.

R1

Analyte RPD was out of QC limits.

SEVERN TRENT SERVICES

STL San Francisco

Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096

2005-06-0540

Reference #: 116733

Date 6/20/05 Page 1 of 1

Report To

Attn: KAREL DETTERMAN

Company: ACC ENVIRONMENTAL CONSULTANTS

Address: 7977 CAPWELL DRIVE, OAKLAND, CA

P: (510) 638-8400 x 113 E:kdetterman@accenv.com

Bill To: ACC ENVIRONMENTAL

Sampled By: K Dette

Attn: KAREL Phone ext: 127

Analysis Request

Sample ID	Date	Time	Matrix	Pres'v.	TPH EPA: ☐ 8015/8021 ☐ 8260B ☐ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics: BTEX EPA: ☐ 8021 ☐ 8260B	TEPH EPA 8015M ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	Fuel Tests EPA 8260B: ☐ Gas ☐ BTEX ☐ Five Oxygenates ☐ DCA, EDB ☐ Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021	Volatile Organics, GC/MS (VOCs) ☐ EPA 8260B ☐ 624	Semivolatiles GC/MS ☐ EPA 8270 ☐ 625	Oil and Grease ☐ Petroleum (EPA 1664) ☐ Total	Pesticides ☐ EPA 8081 ☐ 608 PCBs ☐ EPA 8082 ☐ 608	PNAs by ☐ 4270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	W.E.T. (STLC) ☐ TCLP	Hexavalent Chromium pH (24h hold time for H_2O)	Spec Cond. ☐ Alkalinity ☐ TDS ☐ TSS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4
P2RW	6/17/05	1330	wtr	HCl																	

Project Info.

Project Name: 921 98th AVE

Project#: 6725-001-05

PO#:

Credit Card#:

Sample Receipt

of Containers:

Head Space:

Temp: 5°C

Conforms to record:

TAT: Std 5 Day | 72h | 48h | 24h | Other:

Report: ☒ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF ☐ Global ID

Special Instructions / Comments:

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Karel Dette		
Signature / Time	Signature / Time	Signature / Time
KAREL DETTERMAN 6/20/05	Musa 1720	
Printed Name / Date	Printed Name / Date	Printed Name / Date
ACC ENVIRONMENTAL CONSULTANTS	6-20-05	
Company	Company	Company
	STL S.F	

1) Received by:	2) Received by:	3) Received by:
	17:20	
Signature / Time	Signature / Time	Signature / Time
1610	T. Bulbeck 6/20/05	
Printed Name / Date	Printed Name / Date	Printed Name / Date
6-20 05	STL-SF	
Company	Company	Company
STL S.F		

Rev 03/02

CITY OF OAKLAND

FIRE SERVICES AGENCY • 1605 MARTIN LUTHER KING JR. WAY • OAKLAND, CALIFORNIA 94612

Office of Emergency Services

(510) 238-3938
FAX (510) 238-7761
TDD (510) 839-6451

3/21/2005

Mr. David R. DeMent
ACC Environmental Consultants
7977 Capwell Drive, Suite 100
Oakland, CA 94621

Re: **Formaldehyde UST Removal: Closure**
Former Fleischmann Yeast Facility
921 98th Avenue, Oakland, CA 94603
ACC Project # 6725-001.04

Dear Mr. Dement:

This letter confirms the completion of the site investigation and remedial actions for one 14,000-gallon underground storage tank (UST), which formerly contained formaldehyde. The UST removal operations occurred on October 4th and 5th, 2004 at the former Fleischmann Yeast Facility located at 921 98th Avenue, Oakland, Ca 94603.

The City Of Oakland Fire Department/Hazardous Material Management Program (OFD/HMMP) staff has reviewed the report submitted by ACC Environmental Consultants associated with the removal of the above mentioned UST. Based on the available information and with the provision that the information provided to OFD/HMMP was accurate and representative of site conditions, no further action related to the UST removed at the above location is required at this time by this office. **The no further action clause only applies to the UST, which formerly contained formaldehyde; the site remains under the jurisdiction of the Alameda County Health Department, LOP program because of remaining soil and groundwater contaminant issues.**

Please be advised that this letter does not relieve you of any liability under the California Health and Safety Code or Water Code for past, present, or future operations at this site. Nor does it relieve you of the responsibility to clean up existing, additional or previously unidentified conditions at the site, which cause or threaten to cause pollution or nuisance or otherwise pose a threat to water quality or public health.

Sincerely,

Keith L. Matthews
Hazardous Material Inspector

COUNTY OF ALAMEDA
PUBLIC WORKS AGENCY
WATER RESOURCES SECTION
399 Elmhurst Street, Hayward, CA 94544-1395
James Yoo PH: (510) 670-6633 FAX: (510) 782-1939
FOR GENERAL DRILLING PERMIT INFO:
www.acgov.org/pwa/wells

FAX TRANSMITTAL

TO: ACE Gint consultants **DATE:** 5-3-05

Attn: Trevor Bausman

FAX NO.: (510) 638-8404
TRANSMITTING THE FOLLOWING:

SHEETS	DATED	TITLE/DESCRIPTION
6		DPA-WO5-05(7)-0520 & Conditions

7 **TOTAL PAGES INCLUDING THIS SHEET.**

FROM WATER RESOURCES SECTION

NAME: JAMES YOO **TEL:** (510) 670-6633 **FAX:** (510) 782-1939

E-MAIL: jamesy@acpwa.org

IF YOU EXPERIENCE PROBLEMS WITH THIS TRANSMISSION, PLEASE CALL ME.

REMARKS: FYI: EFFECTIVE NOVEMBER 1, 2004 Be Conditions of Approval Inspection does not have to be present for grout inspection

SCHEDULING WORK/INSPECTIONS

Alameda County Public Works Agency (ACPWA), Water Resources Section requires scheduling and inspection of permitted work. All drilling activities must be scheduled in advance. Availability of inspections will vary from week to week and will come on a first come, first served bases. To ensure inspection availability on your desired or driller scheduled date, the following procedures are required: James Yoo 510-670-6673

- **Please contact George Bolton at 510-670-5594 to schedule the inspection date and time (You must have drilling permit approved prior to scheduling).**
- **Schedule the work as far in advance as possible (at least 5 days in advance); and confirm the scheduled drilling date(s) at least 24 hours prior to drilling.**

Once the work has been scheduled, an ACPWA Inspector will coordinate the inspection requirements as well as how the Inspector can be reached if they are not at the site when Inspection is required. Except for special circumstances given, all work will require the inspection to be conducted during the working hours of 8:30am to 2:30pm., Monday to Friday, excluding holidays.

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-6633 James Yoo
FAX (510) 782-1939 www.acfcwcd.org

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 921 98th AVENUE
OAKLAND, CA 94603-2305

CLIENT
Name BURNS PHILP & COMPANY LTD.
Address LEVEL 23, PITT ST. Phone 61-2-9259-1309
City SYDNEY, AUSTRALIA Zip NSW 2000

APPLICANT
Name ACC ENVIRONMENTAL CONSULTANTS
7977 CAPWELL DRIVE Fax (510) 638-8404
Address Phone (510) 638-8400
City OAKLAND CA Zip 94621

TYPE OF PROJECT

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

PROPOSED WATER SUPPLY WELL USE

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

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

DRILLER'S NAME ENVIRONMENTAL CONTROL ASSOCIATES

DRILLER'S LICENSE NO. C-57 # 695970 Exp 9/30/05

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

GEOTECHNICAL/CONTAMINATION PROJECTS
Number of Borings 14 Maximum
Hole Diameter 2 in. Depth 20 ft.

STARTING DATE MAY 10, 2005

COMPLETION DATE MAY 13, 2005

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

APPLICANT'S SIGNATURE [signature] DATE 4/29/05

PLEASE PRINT NAME TREVOR BAUSMAN Rev.5-11-04

FOR OFFICE USE

PERMIT NUMBER W05-0517
WELL NUMBER ______
APN ______

PERMIT CONDITIONS
Circled Permit Requirements Apply

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

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

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

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

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

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

(G.) SPECIAL CONDITIONS BA-1

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

ck 022817

APPROVED [signature] DATE 5-3-05

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-6633 James Yoo
FAX (510) 782-1939 www.acfcwcd.org

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 921 98th AVENUE
OAKLAND CA 94603

CLIENT
Name BURNS PHILP & COMPANY LTD.
Address LEVEL 23 PITT ST Phone +(61) -2- 9259-1309
City SYDNEY, AUSTRALIA Zip NSW 2000

APPLICANT
Name ECC ENVIRONMENTAL CONSULTANTS
Fax 510 638-8404
Address 7977 CAPWELL DRIVE Phone 510-638-8400
City OAKLAND CA Zip 94616

TYPE OF PROJECT

Well Construction
Cathodic Protection ☐
Water Supply ☐
Monitoring ☒

Geotechnical Investigation
General ☐
Contamination ☐
Well Destruction ☐

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

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

DRILLER'S NAME Environmental Control Associates
DRILLER'S LICENSE NO. C-57-695970

WELL PROJECTS
Drill Hole Diameter 7.5 in. Maximum Depth 20 ft.
Casing Diameter 1.5 in. Owner's Well Number P1 (B23)
Surface Seal Depth 5 ft.

GEOTECHNICAL/CONTAMINATION PROJECTS
Number of Borings ______ Maximum
Hole Diameter ______ in. Depth ______ ft.

STARTING DATE MAY 12, 2005
COMPLETION DATE MAY 13, 2005

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

APPLICANT'S SIGNATURE [signature] DATE 4/29/05

PLEASE PRINT NAME TREVOR BAUSMAN Rev.5-11-04

FOR OFFICE USE

PERMIT NUMBER W05-0518
WELL NUMBER ______
APN ______

PERMIT CONDITIONS
Circled Permit Requirements Apply

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

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

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

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

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

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

G. SPECIAL CONDITIONS — MW#1

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

CK 022817

APPROVED [signature] DATE 5-3-05

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-6633 James Yoo
FAX (510) 782-1939 www.acfcwcd.org

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 421 98TH AVENUE
OAKLAND CA 94603

CLIENT
Name BURNS PHILP & COMPANY LTD.
Address LEVEL 25 ABP ST Phone +(61)-2-9259-1309
City SYDNEY, AUSTRALIA Zip 1590 2000

APPLICANT
Name KCE ENVIRONMENTAL CONSULTANTS Fax 510 638-0404
Address 2121 CAPWELL DRIVE Phone 510-638-0400
City OAKLAND CA Zip 94611

TYPE OF PROJECT

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

PROPOSED WATER SUPPLY WELL USE

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

DRILLING METHOD:

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

DRILLER'S NAME Environmental Control Associates
DRILLER'S LICENSE NO. 695970

WELL PROJECTS
Drill Hole Diameter 2.5 in. Maximum
Casing Diameter 1.5 in. Depth 20 ft.
Surface Seal Depth 5 ft. Owner's Well Number B2 (B30)

GEOTECHNICAL/CONTAMINATION PROJECTS
Number of Borings _____ Maximum
Hole Diameter _____ in. Depth _____ ft.

STARTING DATE MAY 12, 2005
COMPLETION DATE MAY 13, 2005

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.
APPLICANT'S SIGNATURE [signature] DATE 4/29/05
PLEASE PRINT NAME TREVOR BARSMAN Rev.5-11-04

FOR OFFICE USE
PERMIT NUMBER WO5-0519
WELL NUMBER _____
APN _____

PERMIT CONDITIONS
Circled Permit Requirements Apply

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

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

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

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

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

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

G. SPECIAL CONDITIONS MW#1

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

CK 22817

APPROVED [signature] DATE 5-3-05

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-6633 James Yoo
FAX (510) 782-1939 www.acfcwcd.org

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT
921 98TH AVENUE
OAKLAND CA 94603

CLIENT
Name BURNS PIRIE & COMPANY LTD.
Address LEVEL 23 PITT ST Phone FGD-2-9259-1309
City SYDNEY, AUSTRALIA Zip NSW 2000

APPLICANT
Name ACC ENVIRONMENTAL CONSULTANTS Fax 510-638-8404
Address 977 CAPWELL DRIVE Phone 510-638-8400
City OAKLAND CA Zip 94611

TYPE OF PROJECT

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

PROPOSED WATER SUPPLY WELL USE

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

DRILLING METHOD:

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

DRILLER'S NAME Environmental Control Associates
DRILLER'S LICENSE NO. 695970

WELL PROJECTS
Drill Hole Diameter 2.5 in. Maximum
Casing Diameter 1.5 in. Depth 20 ft.
Surface Seal Depth 5 ft. Owner's Well Number MW3 (B34)

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

STARTING DATE MAY 18, 2005
COMPLETION DATE MAY 18, 2005

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.
APPLICANT'S SIGNATURE [signature] DATE 4/29/05
PLEASE PRINT NAME TRENT BAUSMAN Rev.5-11-04

FOR OFFICE USE
PERMIT NUMBER W05-0520
WELL NUMBER
APN

PERMIT CONDITIONS
Circled Permit Requirements Apply

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

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

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

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

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

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

G. SPECIAL CONDITIONS — MW#1

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

CK 022817

APPROVED [signature] DATE 5-3-05

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD, CA. 94544-1395
PHONE (510) 670-6633 James Yoo FAX (510) 782-1939

PERMIT NO. W05-0517

WATER RESOURCES SECTION
GROUNDWATER PROTECTION ORDINANCE
B#1-GENERAL CONDITIONS: GEOTECHNICAL & CONTAMINATION BOREHOLES

1. Prior to any drilling activities, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that Federal, State, County or to the City and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained.

2. Boreholes shall not be left open for a period of more than **24 hours**. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

3. Permitte, permittee's, contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statues regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on-or off site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

4. Permit is valid only for the purpose specified herein **May 10 to May 13, 2005**changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

5. Drilling Permit(s) can be voided/ canceled only in writing. It is the applicants responsibilities to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.

6. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

7. **Applicant shall contact James Yoo for a inspection time at 510-670-6633 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.**

ALAMEDA COUNTY PUBLIC WORKS AGENCY
WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD, CA. 94544-1395
PHONE (510) 670-6633 James Yoo FAX (510) 782-1939

PERMIT NO. W05-0518-0520

WATER RESOURCES SECTION
GROUNDWATER PROTECTION ORDINANCE
MW#1-GENERAL CONDITIONS: MONITIORING WELL/PIEZOMETERS

1. *Prior to installation of any monitoring wells into any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.*

2. The minimum surface seal thickness two inches of cement grout placed by tremie.

3. All monitoring wells shall have a minimum surface cement seal depth of five (5) feet or the maximum depth practicable or twenty (20) feet.

4. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.

5. Permitte, permittee's, contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statues regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on-or off site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

6. No changes in construction procedures or well type shall change, as described on this permit application. This permit may be voided if it contains incorrect information.

7. Drilling Permit(s) can be voided/ canceled only in writing. It is the applicants responsibilities to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. **Permit is valid from May 12 to May 13, 2005.** Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.

8. Compliance with the above well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). **Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including: permit number and site map.**

9. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

10. **Applicant shall contact George Bolton for a inspection time at 510-670-5594 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.**

11. **Changed to James Yoo at 510-670-6633. Inspector does not have to be present for the grout inspection, but Confirm the scheduled date(s) at least 24 hours prior to drilling.**

ACC ENVIRONMENTAL CONSULTANTS

ACC MONITORING WELL WORKSHEET

JOB NAME:	PURGE METHOD: Pump
SITE ADDRESS: 921 98th Ave.	SAMPLED BY: Ow
JOB #: 6725-001.05	LABORATORY: STL-SF
DATE: 5-20-05	ANALYSIS: TPHg-BTEX-MTBE
Onsite Drum Inventory SOIL:	MONITORING ☐ DEVELOPING ☒
EMPTY: WATER:	SAMPLING ☒

WELL: P-1

DEPTH OF BORING: 18.00
DEPTH TO WATER: 9.71
WATER COLUMN:
WELL DIAMETER:
WELL VOLUME:
COMMENTS:
10 Gallons Bailed
@ 12:15

PURGE VOL (Gal)	pH	Temp.(C)	Cond.	Sal.	Turb.	D.O.
10g						

OBSERVATIONS: ☐ Froth ☐ Sheen ☐ Odor Type____ ☐ Free Product Amount____ Type____ ☐ Other

WELL: P-2

DEPTH OF BORING: 12.00
DEPTH TO WATER: ∅
WATER COLUMN:
WELL DIAMETER:
WELL VOLUME:
COMMENTS:
TD 23.59

PURGE VOL (Gal)	pH	Temp.(C)	Cond.	Sal.	Turb.	D.O.
Well		is	Blocked			
OR			Breezeway			

OBSERVATIONS: ☐ Froth ☐ Sheen ☐ Odor Type____ ☐ Free Product Amount____ Type____ ☐ Other

WELL: P-3

DEPTH OF BORING: 11.58
DEPTH TO WATER: 9.31
WATER COLUMN:
WELL DIAMETER:
WELL VOLUME:
COMMENTS:
10 Gallons Bailed.
@ 10:32

PURGE VOL (Gal)	pH	Temp.(C)	Cond.	Sal.	Turb.	D.O.
8g						

OBSERVATIONS: ☐ Froth ☐ Sheen ☐ Odor Type____ ☐ Free Product Amount____ Type____ ☐ Other

A·C·C ENVIRONMENTAL CONSULTANTS

ACC MONITORING WELL WORKSHEET

JOB NAME:	PURGE METHOD: Pump
SITE ADDRESS: 921 88th Ave	SAMPLED BY: L. W.
JOB #: 6725-001-05	LABORATORY: STL-SF
DATE: 6-24-05	ANALYSIS: TPHg - BTEX - MTBE
Onsite Drum Inventory SOIL:	MONITORING ☐ DEVELOPING ☐
EMPTY: WATER:	SAMPLING ☐

	PURGE VOL.	PURGE WATER READINGS						OBSERVATIONS
WELL: P-2R-	(Gal)	pH	Temp.(C)	Cond.	Sal.	Turb.	D.O.	☐ Froth
DEPTH OF BORING: 17.12								☐ Sheen
DEPTH TO WATER: 10.54								☐ Odor Type_____
WATER COLUMN:								☐ Free Product
WELL DIAMETER:								Amount_____ Type_____
WELL VOLUME:								☐ Other
COMMENTS: 28 gal Purged 5 Bbls								

WELL:	(Gal)	pH	Temp.(C)	Cond.	Sal.	Turb.	D.O.	☐ Froth
DEPTH OF BORING:								☐ Sheen
DEPTH TO WATER:								☐ Odor Type_____
WATER COLUMN:								☐ Free Product
WELL DIAMETER:								Amount_____ Type_____
WELL VOLUME:								☐ Other
COMMENTS:								

WELL:	(Gal)	pH	Temp.(C)	Cond.	Sal.	Turb.	D.O.	☐ Froth
DEPTH OF BORING:								☐ Sheen
DEPTH TO WATER:								☐ Odor Type_____
WATER COLUMN:								☐ Free Product
WELL DIAMETER:								Amount_____ Type_____
WELL VOLUME:								☐ Other
COMMENTS:								

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ENVIRONMENTAL CONSULTANTS

ACC MONITORING WELL WORKSHEET

JOB NAME:	PURGE METHOD: Peristaltic Pump
SITE ADDRESS: 921 98th Ave	SAMPLED BY: C.W.
JOB #: 6725-001.05	LABORATORY: STL - SF
DATE: 8-16-05	ANALYSIS: TPHg - BTEX - MTBE
Onsite Drum Inventory SOIL:	MONITORING ☒ DEVELOPING ☐
EMPTY: WATER:	SAMPLING ☒

WELL: P-1

DEPTH OF BORING: 17.54
DEPTH TO WATER: 9.78
WATER COLUMN: 7.76
WELL DIAMETER: 2
WELL VOLUME:
COMMENTS:
10:20
11:52

PURGE VOL. (Gal)	pH	Temp.(C)	Cond.	Sal.	Turb.	D.O.
TOTAL Gallons (8) Purged						

OBSERVATIONS: ☐ Froth ☐ Sheen ☐ Odor Type____ ☐ Free Product Amount____ Type____ ☐ Other

WELL: P-2R

DEPTH OF BORING: 17.15
DEPTH TO WATER: 10.72
WATER COLUMN: 6.43
WELL DIAMETER:
WELL VOLUME:
COMMENTS:
11:10
12:10

PURGE VOL. (Gal)	pH	Temp.(C)	Cond.	Sal.	Turb.	D.O.
TOTAL Gallons (10) Purged						

OBSERVATIONS: ☐ Froth ☐ Sheen ☐ Odor Type____ ☐ Free Product Amount____ Type____ ☐ Other

WELL: ~~P-3~~ P-3

DEPTH OF BORING: 11.72
DEPTH TO WATER: 4.92
WATER COLUMN: 6.80
WELL DIAMETER: 2
WELL VOLUME:
COMMENTS:
9:50

PURGE VOL. (Gal)	pH	Temp.(C)	Cond.	Sal.	Turb.	D.O.
	WELL NEVER RECHARGED AFTER PURGE					

OBSERVATIONS: ☐ Froth ☐ Sheen ☐ Odor Type____ ☐ Free Product Amount____ Type____ ☐ Other

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